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DEPARTMENT OF WATER RESOURCES
—
THIRTY-FIRST BIENNIAL REPORT
OF THE
STATE ENGINEER
TO THE
GOVERNOR OF COLORADO
FOR THE YEARS
1941-1942

DEPARTMENT
OF
WATER RESOURCES

Thirty-first Biennial
Report

OF THE

STATE ENGINEER

TO THE

Governor of Colorado



For the Years 1941-1942

M. C. HINDERLIDER
State Engineer

BRADFORD-ROBINSON PRINTING CO.
DENVER, COLORADO
1943



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LETTER OF TRANSMITTAL

Sir :

In compliance with provisions of law, there is transmitted herewith the Thirty-first Biennial Report of the Department of Water Resources for the years 1941 and 1942.

Respectfully,

M. C. HINDERLIDER,
State Engineer.

To His Excellency,
RALPH L. CARR,
Governor

SPILLWAY OF JOHN MARTIN DAM ACROSS ARKANSAS
RIVER

DESIGN AND CONSTRUCTION BY U. S. CORPS OF ENGINEERS
—1940-1943

MAJ. GEN. EUGENE REYBOLD, CHIEF OF ENGINEERS

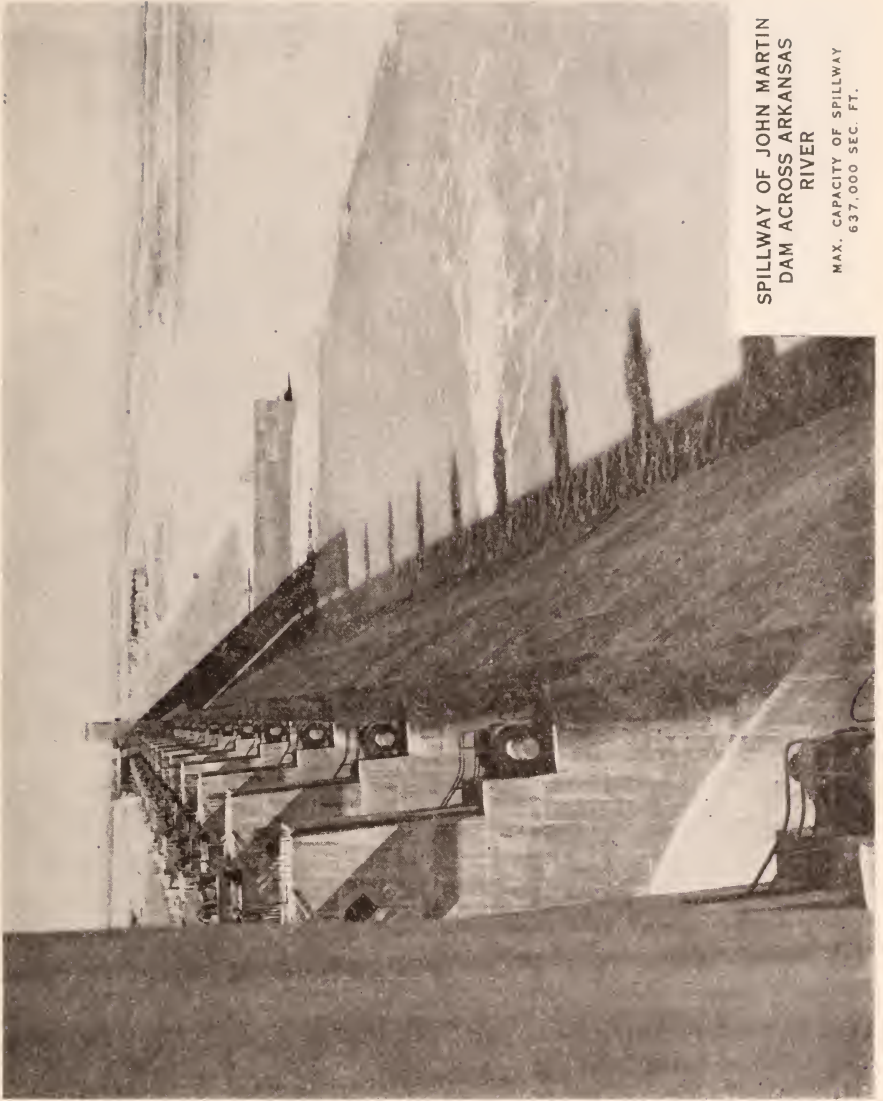
MAJ. JAS. H. STRATTON, DIST. ENGR.

R. E. COLE, ENG. IN CHARGE OF CONSTRUCTION

MAX. HT. OF DAM 160 FEET

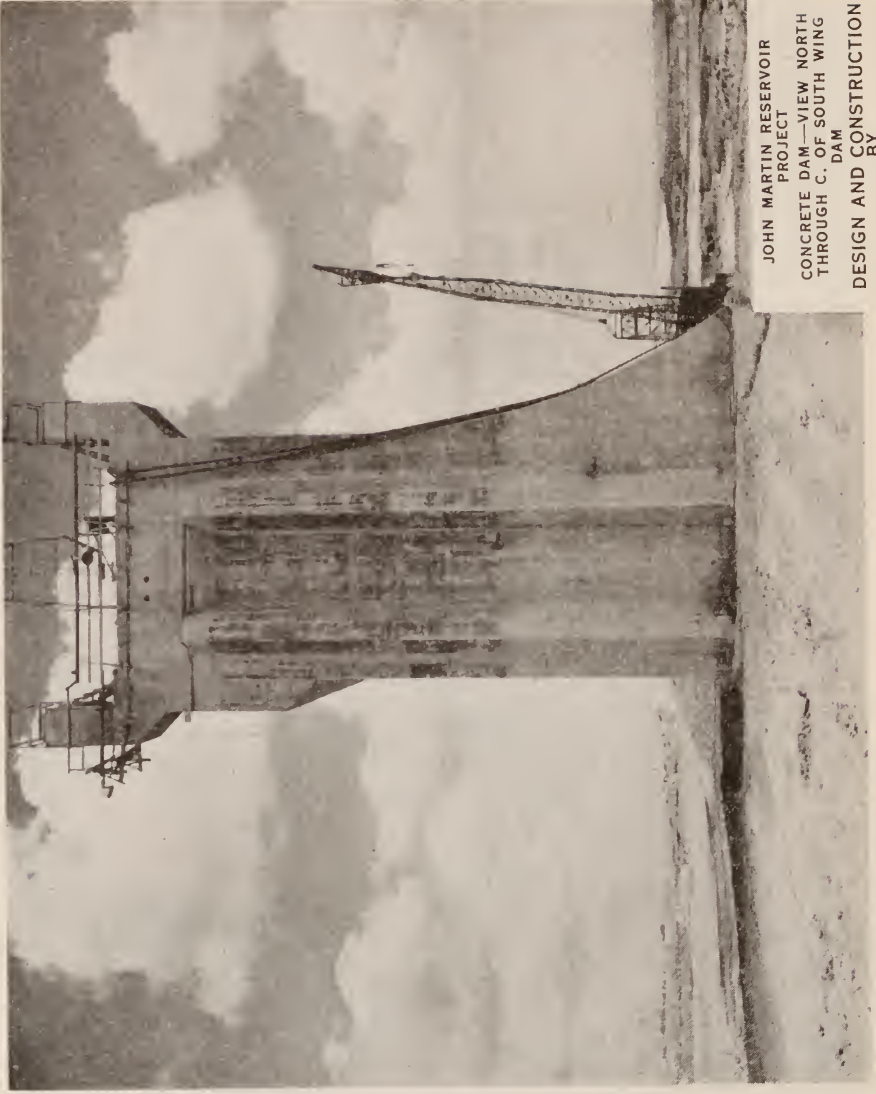
CAPACITY OF RESERVOIR 655,000 A. F.

COST OF PROJECT \$15,000,000



SPILLWAY OF JOHN MARTIN
DAM ACROSS ARKANSAS
RIVER

MAX. CAPACITY OF SPILLWAY
637,000 SEC. FT.



JOHN MARTIN RESERVOIR
PROJECT
CONCRETE DAM—VIEW NORTH
THROUGH C. OF SOUTH WING
DAM
DESIGN AND CONSTRUCTION
BY
U. S. CORPS OF ENGINEERS

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LIST OF OFFICIALS AND EMPLOYEES

Department of State Engineer

M. C. Hinderlider.....	State Engineer
C. C. Hezmalhalch.....	Deputy State Engineer
L. T. Burgess.....	Chief Hydrographer
W. T. Blight.....	Chief Clerk and Draftsman
Edith Plunkett (Jan. 1-Oct. 22, 1941).....	Secretary-Stenographer
Jessie M. James.....	Secretary-Stenographer
Archie M. Smith (Nov. 1, 1941-Nov. 14, 1942).....	Stenographer
Wilma Moore (Nov. 15, 1942).....	Stenographer
C. E. Schnurr (Jan. 1, 1941-May 15, 1942).....	Hydrographer Div. 1
Wm. E. Wagner (Jan. 1-May 11, 1941).....	Hydrographer Div. 1
Glen E. Brees (May 18, 1941-Dec. 31, 1942).....	Hydrographer Div. 1
Wm. R. Metz (Jan. 1-Dec. 31, 1942).....	Hydrographer Div. 1
Joe F. Doyle (Feb. 19-March 24, 1942).....	Hydrographer Div. 1
F. D. Cassell (May 5-Sept. 15, 1942).....	Hydrographer Div. 1
Chas. D. Agler (Sept. 23-Oct. 2, 1942).....	Hydrographer Div. 1
Robt. G. Saxton (Oct. 5, 1942).....	Hydrographer Div. 1
F. C. Snyder.....	Hydrographer Div. 2
Robt. A. Bulkley (Jan. 1, 1941-Jan. 5, 1942).....	Hydrographer Div. 2
R. A. Frandsen (Feb. 1-Oct. 31, 1942).....	Hydrographer Div. 2
Jas. R. Williams, Jr. (Jan. 1-Nov. 24, 1941).....	Hydrographer Div. 3
Glen E. Brees (Jan. 1, 1942).....	Hydrographer Div. 3

IRRIGATION DIVISION ENGINEERS

Div. No. 1—J. E. Whitten, Special Deputy.....	Denver
Div. No. 2—C. W. Beach.....	Pueblo
Div. No. 3—W. D. Carroll.....	Alamosa
Div. No. 3—D. S. Jones, Jr., Special Deputy.....	Alamosa
(January 1, 1941, to April 14, 1941)	
Div. No. 3—D. H. Mathias, Special Deputy.....	Monte Vista
(April 15, 1941)	
Div. No. 4—F. S. Hotchkiss.....	Montrose
Div. No. 5—L. C. Finley.....	Glenwood Springs
Div. No. 6—B. T. Chase.....	Steamboat Springs
Div. No. 7—J. R. Williams, Special Deputy.....	Durango

WATER COMMISSIONERS

Div. No.	Dist. No.		
1	1	J. L. Samples.....	Ft. Morgan
1	2	S. V. Wallace.....	Ft. Lupton
1	3	W. J. McAnelly.....	Ft. Collins
1	4	Geo. S. Kral.....	Loveland
1	5	C. J. Maier.....	Longmont
1	6	T. L. Platt.....	Boulder
1	7	A. E. Jones.....	Golden
1	8	C. M. Hall.....	Englewood
1	9	J. W. Van Gorden.....	Morrison
2	10	J. M. Pribble.....	Colorado Springs
2	11	J. A. Burnett.....	Poncha Springs
2	12	D. S. Jones.....	Canon City
2	13	Frank Kelling.....	Westcliffe
2	14	Joseph Russ.....	Pueblo
2	15	John Simonson.....	Beulah
2	16	H. W. Craig.....	La Veta
2	17	D. E. Heizer.....	Rocky Ford
2	18	Juan A. Mestas.....	Aguilar
2	19	H. B. Bostick.....	Trinidad
3	20	Joel Goodman.....	Del Norte
3	21	T. M. Orman.....	La Jara
3	22	L. W. Sowards.....	Manassa
1-2	23	J. Desserich.....	Pine
3	24	Fares Gold.....	San Luis
3	25	John L. Charles.....	Crestone
3	26	Ira Colvin.....	Saguache
3	27	Jas. Medina.....	La Garita
4	28	J. Roy Hicks.....	Sargents
7	29	George Noble.....	Pagosa Springs
7	30	Geo. H. Tyner.....	Falfa
7	31	J. W. Sower.....	Bayfield
7	32	No Commissioner	
7	33	Edward C. Kennedy.....	Breen
7	34	Leo Reddert.....	Mancos

Div. No.	Dist. No.		
3	35	Geo. Opinear	Blanca
5	36	No Commissioner	
5	37	B. F. Long	Eagle
5	38	P. K. Barthiel	Carbondale
5	39	Chas. E. Rauman	Rifle
4	40	R. E. Robinson	Cedaredge
4	41	Dexter B. Walker	Montrose
4	42	Geo. M. Saunders	Mesa
6	43	Thos. Watkins	Meeker
6	44	Edw. A. Harrison	Craig
5	45	Lester H. Coulter	Silt
1	47	Clarence Boston	Walden
1	48	R. A. Mosier	Jelm, Wyo.
2	49	No Commissioner	
5	50	Ralph O. Kilker	Kremmling
5	51	P. S. Elting	Sulphur Springs
5	52	Carl Forster	Radium
5	53	Chas. Plasters	Gypsum
6	54	Frank D. Baxter	Slater
6	55	No Commissioner	
6	56	No Commissioner	
6	57	A. R. Goree	Hayden
6	58	Wilbur Rule	Steamboat Springs
4	59	Leon H. Dutemeyer (Com. at Large)	Gunnison
4	60	K. R. Jacobs	Nucla
4	61	Harold E. Hopper	Paradox
4	62	Leon H. Dutemeyer (Com. at Large)	Gunnison
4	63	No Commissioner	
1	64	Pat Marsh	Sterling
1	65	John Hultquist	Wray
2	67	R. J. McGrath	Lamar
4	68	Dean S. Hainey	Ridgway
7	69	F. C. Hardman	Cedar
5	70	Geo. Maxwell Anderson	DeBeque

In addition to the foregoing, there are 65 deputy water commissioners serving in the various water districts in the state.

CHAPTER I.

FINANCIAL STATEMENT

FEES RECEIVED BY OFFICE DURING BIENNIUM

January 1, 1941, to December 31, 1942

Water Filings	\$2,512.00
Blueprints	296.55
Certifications	84.00
Examination Dam Plans	200.00
Office Labor	14.00
Filing Transfer Decrees	28.00
Recording Transfer Water Filings	1.00
Total	<u>\$3,135.55</u>

DEPARTMENT OF WATER RESOURCES
APPROPRIATIONS AND EXPENDITURES

July 1, 1941, to June 30, 1943

	APPROPRIATED			EXPENDED		BALANCE	
	Biennium	1941-42	1942-43	1941-42	1942-43†	1941-42	1942-43†
PERSONAL SERVICES:							
State Engineer.....	\$ 10,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 3,333.28	.....	\$ 1,666.72
Deputy State Engineer.....	6,000.00	3,000.00	3,000.00	3,000.00	1,933.56	.....	1,040.44
Special Deputy, South Platte.....	5,000.00	2,500.00	2,500.00	2,500.00	1,666.64	.....	833.36
Special Deputy, La Plata.....	5,000.00	2,500.00	2,500.00	2,500.00	1,666.64	.....	833.36
Special Deputy, Rio Grande.....	5,000.00	2,500.00	2,500.00	2,500.00	1,666.64	.....	833.36
Special Deputies, Laramie.....	3,600.00	1,800.00	1,800.00	1,100.00	680.00	\$ 700.00	1,120.00
Five Division Engineers.....	25,000.00	12,500.00	12,500.00	12,500.00	8,333.20	.....	4,166.80
Chief Hydrographer.....	18,000.00	9,000.00	9,000.00	8,735.15	5,046.72	264.85	3,353.28
Chief Clerk and Assistant Secretary Board of Examiners for Engineers and Land Surveyors*.....	4,800.00	2,400.00	2,400.00	2,400.00	1,600.00	.....	800.00
Two Stenographers.....	5,200.00	2,600.00	2,600.00	2,600.00	1,733.28	.....	866.72
Secretary Rio Grande Compact.....	6,000.00	3,000.00	3,000.00	2,963.70	2,000.00	36.30	1,000.00
Seasonal or Temporary Employees.....	2,000.00	1,000.00	1,000.00	999.96	600.00	.....	400.00
.....	16,400.00	8,200.00	8,200.00	6,410.53	3,670.04	1,789.47	4,529.56
Total.....	\$112,000.00	\$56,000.00	\$56,000.00	\$53,203.34	\$33,356.00	\$ 2,790.66	\$22,044.00
MAINTENANCE AND OPERATION.....							
Contractual Services.....	\$ 45,770.00	\$22,885.00	\$22,885.00	.....	.....	\$ 4,906.77	\$14,282.37
Supplies.....	.....	.....	.....	\$14,500.08	\$ 6,122.39	.....	.....
Current Charges.....	.....	.....	.....	2,313.14	1,799.64	.....	.....
.....	.....	.....	.....	1,165.01	680.60	.....	.....
Total.....	.....	.....	.....	\$17,978.23	\$ 8,602.63	.....	.....
CAPITAL OUTLAY.....							
.....	\$ 3,200.00	\$ 2,050.00	\$ 1,150.00	\$ 727.40	\$ 259.68	\$ 1,322.60	\$ 890.32

*\$1,200 to be transferred from Board Funds for Biennium.

†To March 15, 1943.

CHAPTER II.

ADMINISTRATION—GENERAL

During the past biennium the administration by this department, of the public water supplies of the state, presented fewer major problems than for any similar period during the incumbency of the present State Engineer, beginning December 1, 1923. This was due, principally, to the generally abundant water supplies, better cooperation by the water users, a fuller understanding of the new State Water Code, and a general improvement in the measurement, delivery and use of the public water supplies.

Court clarification of the statutes relating to the use of water supplies of the state has been of material assistance, not only to the water officials, but also to the water users, as a result of which fewer complaints arose over the interpretation of such statutes.

Some increase in appropriations by the last Legislature for the use of the office permitted the employment of three additional special deputies to assist the water commissioner of District No. 23, comprising the headwaters of the South Platte or South Park area, in securing better administration in that district, and also in Water District No. 48, comprising the Laramie river basin in Colorado.

Several additional stream gaging stations were established during the biennium, and reconstruction of, and repairs to, other stations throughout the state were made very largely as a result of flood conditions.

At the end of the biennium 230 stream gaging stations with standard equipment and automatic recording devices were being maintained by this office in cooperation with the United States Geological Survey, at an expenditure during the biennium of about \$56,000.00 of state funds. This work was carried on by the Chief Hydrographer, and five assistant hydrographers, who made approximately 3,700 stream flow and 1,500 ditch and canal measurements during this period. The department also supervises the installation of all measuring devices in canals and ditches which, in general, are of the Parshall type of measuring flume. The department also made many determinations of losses and gains of water in stream flow throughout the state, and carried on investigations to determine losses of water in transit from reservoirs to points of diversion, in connection with the administration of the waters of the state.

A large number of new measuring devices and headgates were installed by owners of canals, ditches and reservoirs, and repairs were made to many existing structures. Due to war restrictions, however, the magnitude of such improvements was less than normal.

The department continued to cooperate with the United States Department of Agriculture and other federal and municipal

agencies in making snow surveys at a number of the 91 snow courses maintained throughout the state. The record of these surveys now covers a period of about seven years.

As a result of floods in many sections of the state, water users were obliged to expend unusually large sums of money in the repair or reconstruction of diversion dams, canal headings, and, in several instances, of sections of their canals. These conditions made it necessary for the water officials to recognize several temporary changes in decreed points of diversions for saving crops.

Although severe tests were imposed upon practically all earth dams, as a result of abnormal water supplies and precipitation, constant inspection prevented any complete failures of these structures. Incipient slips, however, occurred on several dams, which will require rather extensive repairs.

The State Engineer, as Commissioner for Colorado, negotiated a Compact with the states of Kansas and Nebraska which allocates the waters of the Republican river and tributaries. The office also administered the Interstate Compacts covering the La Plata, Rio Grande and South Platte rivers, and the decree of the Supreme Court of the United States covering the waters of the Laramie river. The administration of that decree required the services of several special deputies to distribute, measure and record all diversions by 62 ditches diverting water out of the Laramie river in Colorado, including the six transmountain diversions to the Poudre river.

Another duty imposed upon this department by the last Legislature is that of recording statements of claim to, and issuing permits for, the construction of hundreds of small dams for stock watering purposes. The Legislature made no provision for meeting the necessary cost of this administration. The required nominal fee of \$1.00 required for each filing has been entirely inadequate to cover field investigations since the great majority of the dams are constructed on lands owned by the federal government, which is not required to pay a filing fee.

During the biennium the State Engineer, as an ex-officio member, attended practically all the meetings of the Colorado Water Conservation Board and a number of those of the State Planning Commission, and most of the meetings of the State Board of Examiners for Engineers and Land Surveyors. No meetings were held by the State Irrigation District Commission, nor the Public Irrigation District Board, of which the State Engineer is also a member.

The State Engineer made one trip to Washington within the biennium in connection with the negotiations on the Republican River Compact, and investigations by the U. S. Corps of Engineers in the Republican river basin in Colorado; also, to attend the annual meeting of the National Rivers and Harbors Congress at Chicago, Illinois.

In January, 1942, this department was assigned more commodious quarters on the first floor of the Capitol Building, which has afforded badly needed additional room for the extensive filing system maintained by the office, and for the use of the hydrographic department. Additional facilities were installed for handling the records of water filings and plans for storage dams, which has been of material aid in administering the work of the office and its contacts with the public.

On November 16, 1942, the State Engineer, with your approval, and that of Governor-Elect Vivian, took a temporary leave of absence to act as Head of the Price Adjustment Board created in the office of the Division Engineer, Missouri River Division, Corps U. S. Engineers, at Omaha, Nebraska. It later having developed that the regular Deputy of this office for many years was probably without legal status to assume many of the duties of the State Engineer during such leave of absence, the State Engineer resigned from that position and resumed his official duties on January 6, 1943. A bill has been introduced in the present Legislature to provide for the creation of the office of Deputy State Engineer and an appointment to fill that position.

Repeated attempts have been made in past years to obtain larger appropriations for this department to meet the increasing needs of the water users. While some additional appropriations have been obtained, they have not been adequate to meet increasing demands upon the office, and more recently to provide for justifiable increases in pay of employees of the department, particularly during the past two years when the opportunity was presented for many of these employees to obtain much higher remuneration. As the result of rigid economy in the expenditure of state appropriations, a few thousand dollars have always been returned to the General Fund at the end of each fiscal period, although such sums could have been very properly used by the office. It appears that this policy has not been wholly justified since each succeeding Legislature takes the position that the department was able to carry on with its previous appropriations and, therefore, it should continue to do so, regardless of increased demands for service. Other departments apparently have been able to secure increased appropriations, largely as a result of having expended, or over expended, their appropriations.

For many years there has been a crying need for a change in the method of paying water commissioners and their deputies, and also for an increase in their remuneration. Under the present law, water commissioners and their deputies, although state officials, are paid by the Boards of County Commissioners. Repeated efforts have been made to obtain legislation and appropriations for placing these officials on the state payroll, which change would not increase the cost to the taxpayer, but would more equitably distribute the cost of administration. These officials receive no remuneration for the use of their automobiles, nor for any other

expenses, which is not in the interest of the greatest efficiency. We believe the present procedure is unfair to these officials who are called upon to travel many thousands of miles each year, oftentimes over almost impassable roads and under adverse weather conditions, at their own expense to serve the water users throughout the state. It seems inconceivable that each succeeding Legislature, although favorably inclined toward such a change, can find sufficient funds to meet the demands of other state institutions and for public relief, and will not meet this very evident need, when the same could be met without additional cost to the taxpayers of the state.

CHAPTER III.

WATER SUPPLY AND CROP CONDITIONS

Water supply and crop conditions for the calendar years 1941-42 were the most favorable in many years.

While the quantity of water carried over in reservoirs from the season of 1940, a year of sub-normal water supply, was less than usual, the runoff resulting from the heavy snow deposits in the winter of 1940-41, in general, provided ample water for storage in 1941. This condition, coupled with generally ample stream flow and precipitation, with attendant favorable soil conditions in the spring of 1941, resulted in good crop returns, except in the Rio Grande, White and Yampa river valleys, where serious damage to crops was caused by freezing or sub-normal temperatures.

Hail in the Arkansas and Rio Grande valleys caused great damage to crops in certain areas. Estimated losses in the Rio Grande valley were \$1,000,000. Excessive precipitation reduced crop yields in southwestern Colorado.

Disastrous floods occurred in the Purgatoire, Conejos and Uncompahgre rivers, and to a lesser extent in the Arkansas and Rio Grande.

Prices received for farm produce and live stock were the best in many years.

The year 1942 started with the largest quantity of water in storage in the history of the state, with very favorable soil conditions and large snow deposits in the mountains. Stream flow throughout the state was far above normal and enabled practically every reservoir in the state to fill to capacity; also, the underground water tables in the major irrigated valleys were higher than normal, very largely due to the copious use of water in 1941.

Heavy snow deposits on the headwaters of the South Platte river and the synchronization of mild temperatures with continuous precipitation in the lower areas, resulted in large and well sustained flows in the South Platte river and some of its tributaries during the late spring and early summer months. The flow of the South Platte river at Denver for the months of

April and May was almost equal to the total average annual discharge. These high and sustained discharges caused extensive damage to lands, highway bridges, canal diversion works and gaging stations, estimated to be as much as one million dollars.

One of the greatest floods of record occurred in the upper reaches of the Purgatoire river in April, which caused extensive damage in the city of Trinidad, and to bridges, canal and ditch headings, and to agricultural lands. This flood, together with high flows in the Arkansas river, resulted in a temporary storage of 17,000 acre feet of water back of the uncompleted John Martin dam, located across the Arkansas river, and for a time threatened the uncompleted earth sections of the dam. At the close of the year about 50,000 acre feet had been impounded in the new Caddoa reservoir formed by this dam.

A flood on Sangre de Cristo creek in the San Luis valley caused an estimated damage of \$10,000.00.

Precipitation and temperatures throughout the season of 1942 were subnormal in the Rio Grande and Colorado river basins, which resulted in heavy damage to crops. Copious amounts of stored water, however, very largely saved a serious situation in the Rio Grande, Montezuma and Pine river valleys resulting from the deficient precipitation.

Range conditions in the Rio Grande, San Juan, Yampa and White river basins were subnormal.

Severe damage to crops from hail occurred in the Arkansas and South Platte river valleys.

Crop conditions and returns throughout the state, however, were generally good, and, due to the war, prices received by farmers and stockgrowers were the highest in many years. Shortage and high cost of farm labor, however, resulted in rather severe crop losses in certain areas, and for a time created a serious condition during the harvest period. In many communities these conditions were partially met through the voluntary services of school children, teachers, business men and their employees.

CHAPTER IV.

TRANSMOUNTAIN DIVERSIONS OF WATER

Present transmountain diversions of water in Colorado are limited to those from the headwaters of the Colorado river and tributaries, into the Arkansas, Rio Grande, South Platte and Cache la Poudre river basins; from the North Platte to the Poudre river basin; also, from the Laramie to the Cache la Poudre and from the Rio Grande to the Arkansas river basin. The Colorado-Big Thompson river diversion is now under construction. Other extensive projects, consisting of proposed diversions from the Colorado to South Platte, Colorado to Arkansas, and Colorado to Rio Grande, are under investigation. The names of present trans-

mountain diversions, together with the quantity of water diverted in 1941 and 1942, are as follows:

Colorado River Basin to Arkansas River Basin:

	Diversions in Acre Feet	
	1941	1942
Ewing Ditch.....	375	0
Busk Ivanhoe Tunnel.....	3,694	566
Independence Pass Tunnel.....	35,992	12,533
Fremont Pass Ditch.....	586	0
Wurtz Ditch.....	2,089	2,082
Columbine Ditch.....	1,313	0

Colorado River Basin to South Platte River Basin:

	Diversions in Acre Feet	
	1941	1942
Grand River Ditch.....	19,194	20,149
Moffat Tunnel (Denver).....	36,712	*10,793
Williams River Tunnel (Denver).....	8,190	*1,595
East Hoosier Pass.....	0	0
West Hoosier Pass.....	0	0
Eureka Ditch.....	76	0
Berthoud Pass Ditch.....	796	261
Boreas Pass Ditch.....	0	0

*Limited to needs of City of Denver and available storage capacity.

North Platte River Basin to Cache la Poudre River Basin:

	Diversions in Acre Feet	
	1941	1942
Michigan Creek Ditch.....	3,404	†786
Cameron Pass Ditch.....	287	†0

Laramie River Basin to Cache la Poudre River Basin:

	Diversions in Acre Feet	
	1941	1942
Laramie Poudre Tunnel.....	7,495	10,242
Skyline Ditch.....	6,627	8,334
Deadman Ditch.....	877	†0
Lost Lake Ditch.....	185	409
Columbine Ditch.....	75	0
Bob Creek Ditch.....	274	219
Sand Creek Ditch.....	1,734	†0

†Limited or no diversions, due to surplus water in Poudre river.

Colorado River Basin to Rio Grande:

	Diversions in Acre Feet	
	1941	1942
Treasure Pass Ditch.....	115	20
Spring Creek Ditch.....	72	28
Piedra Ditch.....	72	1,050
Squaw Ditch.....	226	1,074
Weminuche Pass Ditch.....	2,050	1,100

CHAPTER V.

STORAGE RESERVOIRS AND DAMS

Appropriations of Water for Storage:

Within the biennium twenty-five statements of major claims of appropriation of water for storage in the total amount of 305,371 acre feet as shown below, were accepted for filing in this office. These appropriations of water were exclusive of appropriations for stock water tanks or small reservoirs for such purposes:

CLAIMS OF APPROPRIATION OF WATER FOR
RESERVOIRS FILED IN OFFICE OF STATE ENGINEER
DURING 1941-1942

Name	Capacity of Res. In Ac. Ft.	Water Dist.	Source of Supply
Baxter	318	40	Smith Fk. Gunnison
Monument Reservoirs 1 and 2:			
No. 1.....	371	42	Monument Creek
No. 2.....	214	42	Monument Creek
Hoagland Res. No. 1 (Heeney Enlg.)	921	36	Beaver or Elgin Crk.
Jackson Gulch.....	9,840	34	West Mancos River
Lake's Lake	176	9	Bear Creek
Whitley Peak.....	773	50	Diamond Creek
Martin Lily Pond.....	612	50	Muddy Creek
Thunderbolt	350	61	Trib. East Paradox Crk.
Spring Creek	9,499	40	East Muddy Creek
Lake Milton Seaman.....	6,000	3	N. Fk. Cache la Poudre
Sheriff Reservoir.....	607	58	Trout Creek
Fish Creek Reservoir.....	1,175	58	Middle Fork Fish Crk.
Gunnison Co. Electric Assn. Inc. No. 2	300	59	Coal Creek
Spruce, Upper and Lower Quandary Lakes—Preliminary:			
Spruce	2,000	36	Spruce Creek
Upper Quandary.....	2,000	36	Blue River
Lower Quandary.....	1,000	36	Blue River
Spruce and Mayflower:			
Spruce	1,542	36	Spruce Creek
Mayflower	618	36	Spruce Creek
Upper and Lower Quandary:			
Upper	1,672	36	Blue River
Lower	1,474	36	Blue River
East	8,890	23	Blue River
Polaris	437	52	Cottonwood Creek
California Park	3,613	44	Elk Head Creek
Dillon	252,678	36	Blue River

Plans were approved by the office for the construction of 13 storage dams, which are shown by the following tabulation:

Name of Dam	Type	Height in Feet	Reservoir Capacity in Acre Feet
Mitchell	Earth	21	15
Hoke	Earth	19	38
Monument No. 1.....	Earth	31	371
Monument No. 2.....	Earth	20	214
McDonough	Concrete Arch	50	520
Thunderbolt	Earth	26	350
King No. 1.....	Earth	30	63
King No. 2.....	Earth	15	43
King No. 3.....	Earth	30	61
Milton Seaman.....	Earth	112	6,000
Short Creek.....	Earth	40	117
Gunnison Co. Elec. Ass'n.....	Concrete	27	300
Rams Horn.....	Rockfill	21	77

At the end of the biennium, several of these dams had either been completed or work on the same was in progress, or had been temporarily suspended as a result of wartime restrictions on materials and equipment. The above list does not include several large storage dams now under construction by the U. S. Bureau of Reclamation and Corps U. S. Engineers, which had been initiated in former years, or which are planned for post-war construction by these federal agencies.

Repairs to and Enlargements of Dams:

During the past two years repairs were made to many old dams throughout the state, but many desirable improvements to structures which are normally made each year had to be delayed due to the war emergency. Some of the more important repairs and enlargements were made on the following dams:

Name	Type	Height Feet	Nature of Repairs
Balman	Earth	29	Restore breach through dam and new steel pipe outlet and spillway
Manitou Park.....	Earth	29	Repairs to spillway and riprap
Bruce Park.....	Earth	41	Enlargement
Northfield	Earth	50	Repairs to and enlargement of masonry spillway
Tom Frost.....	Earth	20	New concrete spillway
St. Charles No. 3.....	Earth	53	Enlargement and new concrete paved spillway
Fitzsimons Sewage Disposal Reservoir	Earth	17	Outlet and spillway
Clear Creek.....	Earth	50	New concrete extension to spillway
Great Western.....	Earth	40	New concrete extension to spillway
Marshall Lake.....	Earth	70	Repairs due to slide on lower face of dam
Terrace	Earth	185	New rubble masonry spillway
Beaver Park	Rockfill	90	Repairs to valve tower and spillway
Park Res.....	Earth	50	Raised 5 feet, new reinforced concrete outlet conduit with oil operated valve and new spillway
Cedar Mesa.....	Earth	44	Raised 13 feet, new steel outlet pipe and spillway

SUMMARY OF FILINGS IN STATE ENGINEER'S OFFICE
FOR LIVESTOCK WATER TANKS

As of January 1, 1943

Notices of Construction (tanks built prior to April, 1941) :

Total number filed.....	1,227
Number paying fee.....	882
Number not paying fee.....	345

Applications for Construction (to be built after April, 1941) :

Total number filed.....	736
Number paying fee.....	686
Number not paying fee.....	50

All government agencies exempt from filing fees and therefore not charged. Application for construction accepted without fees from other claimants where capacity of tanks was under two acre feet and dams were less than five feet high.

CHAPTER VI.

WATER CONSERVATION INVESTIGATIONS

Investigations and studies throughout the state by the U. S. Department of Agriculture, U. S. Bureau of Reclamation and Corps of U. S. Engineers, of water conservation, reclamation and flood control projects were conducted during the biennium.

Arkansas River Basin:

Studies in this basin by the Bureau were primarily concerned with a determination of the present irrigated and arable areas of the basin west of Garden City, Kansas, present available water supplies, need for regulations, deficiencies and possibilities for transmountain diversions of additional water supplies into the basin, from the headwaters of tributaries of the Colorado and Gunnison rivers. These investigations include studies of consumptive uses, siltation and flood control.

Supplementing these major investigations, detail studies including land classification have been or will be conducted in the major tributary basins of the Apishapa, Huerfano and Purgatoire rivers, and along tributaries above Pueblo.

The Corps of U. S. Engineers had previously made reports on the results of its investigations of flood conditions in the Arkansas river basin in Colorado, and the economic justification for flood control works.

South Platte River Basin:

The major investigations in this basin consisted of a continuation of studies by the Corps of U. S. Engineers of flood control requirements, and by the U. S. Bureau of Reclamation in con-

nection with the Colorado-Big Thompson transmountain diversion project of the Northern Colorado Conservancy District.

Surveys and studies by the Bureau also included the proposed project for diverting water from the Blue river to the South Platte river basin. The Bureau also continued its studies of projects throughout the Colorado river basin in the state. Preliminary reports have been made on a multiplicity of projects in the past several years, but as yet few final conclusions have come to our attention.

CHAPTER VII.

ADMINISTRATION OF INTERSTATE COMPACTS AND SUPREME COURT DECISIONS

Colorado River Compact:

This Compact was signed in Santa Fe, New Mexico, on November 24, 1922, by the Commissioners for all of the seven Colorado river basin states, and thereafter ratified by the Legislatures of all of the states, excepting Arizona. The six state Compact was approved by Congress on December 21, 1928, by the Boulder Canyon Project Act which was promulgated by President Hoover on June 25, 1929. Arizona has never ratified the Compact.

The Compact does not make any specific provision for the administration thereof, but does authorize officials in each state charged with the administration of water rights, together with the Director of the U. S. Reclamation Service and the Director of the U. S. Geological Survey, to co-operate in the determination and coordination of facts relating to stream flow, appropriation, consumption and use of water in the Colorado river basin, and the interchange of available information in such matters, and, also, to perform such other duties as may be assigned by mutual consent of the signatory states from time to time.

The ascertainments of factual data on stream flow and uses of water within the basin has been carried on under cooperative agreements between the representatives of the states and the two federal agencies since the Compact became effective.

South Platte River Compact:

This Compact between the states of Colorado and Nebraska was signed on April 27, 1923; thereafter ratified by the Legislatures of both states, and approved by the Congress on March 8, 1926.

The administration of this Compact, beginning with 1926, has been without friction with our own water users or the officials of Nebraska.

La Plata River Compact:

This Compact between Colorado and New Mexico was signed in Santa Fe, New Mexico, on November 27, 1922; thereafter ratified by the Legislatures of the two states; approved by Congress on January 29, 1923.

The Compact provides for the administration thereof by the State Engineers of the two states. Rules and regulations for administration agreed to in 1925 by the State Engineers have been in force without amendment since their adoption. Local administration is carried out by representatives of the two State Engineers.

The Compact, among other things, provides for the equal division of the daily flow of the La Plata river at Hesperus, Colorado, between February 15th and December 1st, when the flow at the interstate line drops below 100 second feet, and the delivery of New Mexico's share of the water at the Colorado-New Mexico state line some 30 miles below the point of measurement. This requires Colorado water users to absorb the resulting losses of water in transit between the two points, which, at times of low stream flow, are severe. At such times the Compact provides for the rotation of the entire flow of the stream, between the states, by mutual agreement by the State Engineers. The exercise of this provision was the source of much friction between the water users in Colorado and this office, as a result of which extended litigation ensued which was finally settled by the decision of the Supreme Court of the United States upholding the validity of the Compact and the interpretation thereof by this office.

While this decision by no means has been popular with the water users in Colorado, they have cordially cooperated with this office and its local representative in the administration of the Compact since the termination of the litigation. At no time has there been any material friction between the representatives of Colorado and New Mexico.

The Compact requires Colorado to maintain a gaging station at Hesperus for the determination of the runoff of the La Plata river, which has been most difficult, due to the erratic flow of the stream, the steep gradient of the stream channel, and the large amount of debris carried at flood stages. These conditions have made it necessary to expend many hundreds of dollars in maintaining this gaging station at which reasonably reliable records of stream flow could be obtained. The Compact also requires Colorado to maintain a gaging station at the Colorado-New Mexico state line for measuring water deliveries to New Mexico. Considerable difficulty and expense has also been encountered in maintaining this station due to channel changes resulting from flood flows.

A representative of the State Engineer's office of New Mexico cooperates with this department in making measurements of stream flow at both these gaging stations.

Rio Grande Compact:

This Compact between the states of Colorado, New Mexico and Texas was signed in Santa Fe, New Mexico, on March 18, 1938; thereafter was ratified by the Legislatures of the three states and approved by the Congress on May 31, 1939, and became operative on January 1, 1940.

This Compact provides for the administration thereof by a commission consisting of the State Engineers of Colorado and New Mexico, and a representative of the state of Texas appointed by the governor thereof.

The commission is required to collect and correlate records of stream flow throughout the basin and also of deliveries of water at the Colorado-New Mexico state line, and at San Marcial, New Mexico, just above the Elephant Butte reservoir. Also, records of storage in Elephant Butte and other reservoirs below the latter, releases therefrom and uses of water under the Elephant Butte project, and much other factual data necessary for a proper administration of the Compact.

The commission is required to meet annually in February of each year to make determinations as to all matters above mentioned, including debits and credits which have accrued at the end of the previous calendar year, and to report to the governors of the respective states their findings and conclusions. In addition to the annual meeting, the commission is authorized to hold other meetings mutually agreeable to the three commissioners.

Within the past biennium two annual meetings, the second and third, and three "called" meetings were held by the commission. Altogether the commission has held four annual meetings and nine "called" meetings, or a total of thirteen meetings.

The Compact authorized the commission to employ engineering and clerical aid as may be reasonably necessary.

At the end of December 31, 1940, Colorado had incurred a debit of 19,300 acre feet of water in meeting its required deliveries of water at the Colorado-New Mexico state line. As a result of abnormal runoff in 1941 this debit had been changed to a credit at the end of 1941 of 127,000 acre feet.

The extraordinarily high discharge of the Rio Grande in 1942 filled the Elephant Butte reservoir, which resulted in a large spill of unusable water, and eliminated Colorado's accumulated credit of 127,000 acre feet. While this was unfortunate, it will not interfere with the operation, in 1943, of the three small reservoirs in Colorado which are subject to the Compact.

Colorado's share of the cost for secretarial services and travel expense for the fiscal year ending June 30, 1941, including the cost of printing the Third Annual Report of the commission, was \$1,763.91, and for the fiscal year ending June 30, 1942, \$1,651.90.

Former Secretary Paul H. Berg resigned his position effective June 30, 1942, and was replaced by Rufus H. Carter, Jr.

The commission maintains local offices in the three states, viz., in Monte Vista, Colorado, Santa Fe, New Mexico, and El Paso, Texas, where copies of the monthly and annual reports of the secretary and minutes of the meetings of the commission are filed.

The administration of the Compact has been without friction between the three states.

UNITED STATES SUPREME COURT DECREES

Republican River:

The decree of the Federal District Court resulting from litigation in the case of Adelbert A. Weiland (a former State Engineer of Colorado) et al. v. The Pioneer Irrigation Company over the division of the water diverted by The Pioneer Ditch in Colorado for use in both states, and confirmed by the Supreme Court of the United States on June 5, 1922, has been administered since that time by this office without friction with the water users or state officials of Nebraska. This decree is recognized by the last Republican River Compact.

Laramie River:

Under the provisions of the final decree of the Supreme Court of the United States, entered on April 22, 1940, in the case of Wyoming v. Colorado, which was originally decided in 1922, this office is required to maintain records of canal diversions in Colorado, for the irrigation of lands within the Laramie river basin in Colorado and also of transmountain diversions out of the basin to the Cache la Poudre river basin.

In 1939 the water users along the Laramie river in Colorado instituted litigation in the District Court of Colorado involving the transmountain diversion interests and the administration by this department of the decree of the United States Supreme Court entered on June 1, 1936.

The effect of the decree of the District Court of Colorado and of the Supreme Court of the United States resulted in a "horse race" between the two opposing interests in an attempt by each party to divert all the water possible under their respective decrees, until Colorado's entire quantum of 39,750 acre feet had been diverted.

Previous diversions and uses of water under the so-called Meadowland Ditches in the Laramie river basin in Colorado resulted in a return to the river of substantially 85 per cent of all the water diverted. Since the United States Supreme Court decree does not recognize this return flow resulting from diversions and uses of water, Colorado users were deprived of the consumptive use of a large part of the Supreme Court allotment of 39,750 acre feet. As a result, the two groups of water users in Colorado have, for the past two seasons, entered into a stipulation providing for an equal division of the aforementioned allotment by the

Supreme Court, and a diversion limit of substantially four acre feet per acre on land irrigated by the Meadowland ditches. This arrangement enables the Colorado interests to make a more effective use of the total quantity of water allocated to Colorado.

The burden of administration placed upon this office as a result of the aforementioned litigation has been most exacting, since it requires the maintenance of a proper measuring device in each ditch diverting water out of the Laramie river in Colorado, of which there are about 62, the adjustments of diversions between ditches pursuant to the aforementioned stipulation, the daily tabulations of all diversions and, finally, a determination of the date on which these ditches have diverted 39,750 acre feet, and the stopping of all diversions thereafter, to the end that Wyoming may have no valid cause for complaint.

This administration, which has required the part time employment by this office of several special deputies, has been carried out during the biennium without friction between the water users and the water officials, or with Wyoming.

An adjunct to the administration of the Laramie river is that of Sand creek, a nominal tributary thereof. This stream has been administered for several years under an agreement between the water users and the State Engineers of Colorado and Wyoming with very satisfactory results.

CHAPTER VIII.

INTERSTATE LITIGATION

Colorado v. Kansas—Arkansas River :

This case was filed in the Supreme Court of the United States on January 3, 1928, since which time voluminous testimony has been taken by both states before a stenographic commissioner.

In 1942 the court appointed Judge C. C. Cavanaugh, Special Master, to review the testimony and to hear further testimony and arguments of counsel and to report to the court his findings and recommendations for a decree.

The final testimony of Colorado was taken at a hearing in Denver on October 19-24, 1942, and Kansas presented its final testimony at a hearing in Topeka on December 14, 1942.

The testimony in this noted case amounted to 7,033 pages which was accompanied by 409 exhibits. Briefs were filed in March, 1943, which totaled 614 pages. Arguments before the Special Master were held in Boise, Idaho, on March 22-24, 1943. It is now anticipated that the Master will have made his report to the Supreme Court some time in the summer of 1943.

On December 18, 1933, during the pendency of this suit, the states of Colorado and Kansas entered into a stipulation or agreement for the purpose of jointly promoting the construction

by the United States government of the John Martin dam across the Arkansas river about 50 miles west of the Colorado-Kansas state line to form the Caddoa reservoir for the control of floods and for the regulation and conservation of the river flow, and also to insure the protection of existing water uses in both states, prior to the entry of a decree by the Supreme Court of the United States adjudicating the respective rights of the two states in this interstate suit.

For this purpose the stipulation provides for the maintenance of the then status-quo of water uses out of the Arkansas river, in both states, which recognizes Colorado's right to divert up to 160,000 acre feet per year and of Kansas' right to have delivered at the Colorado-Kansas state line up to 52,000 acre feet between April 1 and October 1, and up to 25,000 acre feet between October 1 and April 1 of each year. Provision is made to share proportionately any shortages of water by which the above amounts are not available. Any water in excess of these amounts which may be captured and stored in the Caddoa reservoir is considered "surplus" water which is to be divided equally between Colorado and Kansas. Out of Colorado's share of any "surplus" water, Colorado ditches which divert upstream from Caddoa reservoir may receive benefits through exchanges at certain times of available stream flow.

The construction of the John Martin dam has been under the supervision of the United States Corps of Engineers. While the authorization of construction was based primarily upon the need for flood control, the use of the reservoir for conservation and regulation of water for consumptive uses was also recognized. Of the total capacity of 655,000 acre feet, 270,000 acre feet thereof was set aside for flood control, and 385,000 acre feet for the regulation and conservation of water for consumptive uses.

The dam was completed at the end of 1942. Wartime restrictions, however, have delayed the installation of the large radial gates on the crest of the spillway required to develop the full capacity of the reservoir, so that the present capacity is but 270,000 acre feet.

In the interest of the food production program of the federal government, permission has been granted the two states to utilize up to 100,000 acre feet of the present capacity of 270,000 acre feet, to store and regulate the flow of the river for irrigation uses.

The administration of the provisions of this stipulation under the direction of the water officials presents new and difficult problems of procedure, accounting and dealing with unpredictable factors of stream flow and daily demands thereon.

**Nebraska v. Wyoming, Colorado Impleaded Defendant,
U. S. Intervenor—North Platte River:**

This interstate suit was filed in the Supreme Court of the United States in February, 1936, the original case between Nebraska and Wyoming having been filed in 1934. All testimony

has been heard by Special Master Honorable Michael J. Dougherty, appointed by the court. Final testimony was taken at a hearing in Denver on November 24 to December 19, 1941. The testimony in this nine-year-old suit involves some 29,522 pages and 1,333 exhibits. Briefs consisting of 2,128 pages were filed in 1942.

Final arguments before the Special Master were held in St. Paul, Minnesota, on January 13 to 27, 1943.

It is now anticipated that the Master will make his findings and report to the court some time in 1943.

CHAPTER IX.

INTERSTATE NEGOTIATIONS FOR RIVER COMPACTS

Republican River:

A Compact between Colorado, Kansas and Nebraska, apportioning the waters of this stream was signed by the Commissioners representing these three states in Denver on March 19, 1941, and thereafter ratified by the Legislatures of the three states. This Compact was later approved by Congress but, due to the opposition of certain federal agencies, the president vetoed Congressional approval.

The representatives of the federal agencies contended that the provisions of Article I of the Compact declaring the Republican river and tributaries thereof to be non-navigable, created a dangerous precedent and were contrary to federal jurisdiction.

Following this effort to obtain final approval of the Compact, the governors of the three states reappointed the same Commissioners who concluded that it was possible to correlate the conflicting jurisdiction of the states and the federal government without doing violence to either, in such manner as to provide for consumptive uses and flood control without interfering with any real need for possible power development and requirements for navigation outside the basin. Congress having authorized the three states to negotiate another Compact, provided that a representative of the United States should sit with the Commission and participate in its deliberations, and, following the president's appointment of such representative, the Commissioners held two meetings, one in Denver and the last in Lincoln, Nebraska, which resulted in the signing of the second Compact on December 31, 1942.

The Legislatures of the three states have ratified this Compact and the same is now before the Congress for consideration. It is hoped, and confidently believed, that the new Compact will meet the former objections of the federal agencies and will receive the approval of the Congress and the president.

The full text of this Compact, together with an explanatory statement of the same by the Commissioner for Colorado, follows:

REPUBLICAN RIVER COMPACT

The states of Colorado, Kansas, and Nebraska, parties signatory to this Compact (hereinafter referred to as Colorado, Kansas, and Nebraska, respectively, or individually as a state, or collectively as the states), having resolved to conclude a Compact with respect to the waters of the Republican river basin, and being duly authorized therefor by the Act of the Congress of the United States of America, approved August 4, 1942, (Public No. 696, 77th Congress, Chapter 545, 2nd Session) and pursuant to Acts of their respective Legislatures have, through their respective governors, appointed as their Commissioners:

M. C. Hinderlider, for Colorado

George S. Knapp, for Kansas

Wardner G. Scott, for Nebraska

who, after negotiations participated in by Glenn L. Parker, appointed by the president as the representative of the United States of America, have agreed upon the following articles:

ARTICLE I.

The major purposes of this Compact are to provide for the most efficient use of the waters of the Republican river basin (hereinafter referred to as the "Basin") for multiple purposes: to provide for an equitable division of such waters: to remove all causes, present and future, which might lead to controversies; to promote interstate comity; to recognize that the most efficient utilization of the waters within the Basin is for beneficial consumptive use; and to promote joint action by the states and the United States in the efficient use of water and the control of destructive floods.

The physical and other conditions peculiar to the Basin constitute the basis for this Compact, and none of the states hereby, nor the Congress of the United States by its consent, concedes that this Compact establishes any general principle or precedent with respect to any other interstate stream.

ARTICLE II.

The Basin is all the area in Colorado, Kansas, and Nebraska, which is naturally drained by the Republican river, and its tributaries, to its junction with the Smoky Hill river in Kansas. The main stem of the Republican river extends from the junction near Haigler, Nebraska, of its North Fork and the Arikaree river, to its junction with Smoky Hill river near Junction City, Kansas. Frenchman creek (river) in Nebraska is a continuation of Frenchman creek (river) in Colorado. Red Willow creek in Colorado is not identical with the stream having the same name in Nebraska. A map of the Basin approved by the Commissioners is attached and made a part hereof.

The term "acre foot", as herein used, is the quantity of water required to cover an acre to the depth of one foot and is

equivalent to forty-three thousand, five hundred sixty (43,560) cubic feet.

The term "Virgin Water Supply", as herein used, is defined to be the water supply within the Basin undepleted by the activities of man.

The term "Beneficial Consumptive Use" is herein defined to be that use by which the water supply of the Basin is consumed through the activities of man, and shall include water consumed by evaporation from any reservoir, canal, ditch, or irrigated area.

Beneficial consumptive use is the basis and principle upon which the allocations of water hereinafter made are predicated.

ARTICLE III.

The specific allocations in acre feet hereinafter made to each state are derived from the computed average annual virgin water supply originating in the following designated drainage basins, or parts thereof, in the amounts shown:

North Fork of the Republican river drainage basin in Colorado, 44,700 acre feet;

Arikaree river drainage basin, 19,610 acre feet;

Buffalo creek drainage basin, 7,890 acre feet;

Rock creek drainage basin, 11,000 acre-feet;

South Fork of the Republican river drainage basin, 57,200 acre feet;

Frenchman creek (river) drainage basin in Nebraska, 98,500 acre feet;

Blackwood creek drainage basin, 6,800 acre feet;

Driftwood creek drainage basin, 7,300 acre feet;

Red Willow creek drainage basin in Nebraska, 21,900 acre feet;

Medicine creek drainage basin, 50,800 acre feet;

Beaver creek drainage basin, 16,500 acre feet;

Sappa creek drainage basin, 21,400 acre feet;

Prairie Dog creek drainage basin, 27,600 acre feet;

The North Fork of the Republican river in Nebraska and the main stem of the Republican river between the junction of the North Fork and the Arikaree river and the lowest crossing of the river at the Nebraska-Kansas state line and the small tributaries thereof, 87,700 acre feet.

Should the future computed virgin water supply of any source vary more than ten (10) per cent from the virgin water supply as hereinabove set forth, the allocations hereinafter made from such source shall be increased or decreased in the relative proportions that the future computed virgin water supply of such source bears to the computed virgin water supply used herein.

ARTICLE IV.

There is hereby allocated for beneficial consumptive use in Colorado, annually, a total of fifty-four thousand, one hundred (54,100) acre feet of water. This total is to be derived from the sources and in the amounts hereinafter specified and is subject to such quantities being physically available from those sources:

North Fork of the Republican river drainage basin, 10,000 acre feet;

Arikaree river drainage basin, 15,400 acre feet;

South Fork of the Republican river drainage basin, 25,400 acre feet;

Beaver creek drainage basin, 3,300 acre feet; and

In addition, for beneficial consumptive use in Colorado, annually, the entire water supply of the Frenchman creek (river) drainage basin in Colorado and of the Red Willow creek drainage basin in Colorado.

There is hereby allocated for beneficial consumptive use in Kansas, annually, a total of one hundred ninety thousand, three hundred (190,300) acre feet of water. This total is to be derived from the sources and in the amounts hereinafter specified and is subject to such quantities being physically available from those sources:

Arikaree river drainage basin, 1,000 acre feet;

South Fork of the Republican river drainage basin, 23,000 acre feet;

Driftwood creek drainage basin, 500 acre feet;

Beaver creek drainage basin, 6,400 acre feet;

Sappa creek drainage basin, 8,800 acre feet;

Prairie Dog creek drainage basin, 12,600 acre feet;

From the main stem of the Republican river upstream from the lowest crossing of the river at the Nebraska-Kansas state line and from water supplies of upstream basins otherwise unallocated herein, 138,000 acre feet; provided, that Kansas shall have the right to divert all or any portion thereof at or near Guide Rock, Nebraska; and

In addition there is hereby allocated for beneficial consumptive use in Kansas, annually, the entire water supply originating in the Basin downstream from the lowest crossing of the river at the Nebraska-Kansas state line.

There is hereby allocated for beneficial consumptive use in Nebraska, annually, a total of two hundred thirty-four thousand, five hundred (234,500) acre feet of water. This total is to be derived from the sources and in the amounts hereinafter specified and is subject to such quantities being physically available from those sources:

North Fork of the Republican river drainage basin in Colorado, 11,000 acre feet;

Frenchman creek (river) drainage basin in Nebraska, 52,800 acre feet;

Rock creek drainage basin, 4,400 acre feet;

Arikaree river drainage basin, 3,300 acre feet;

Buffalo creek drainage basin, 2,600 acre feet;

South Fork of the Republican river drainage basin, 800 acre feet;

Driftwood creek drainage basin, 1,200 acre feet;

Red Willow creek drainage basin in Nebraska, 4,200 acre feet;

Medicine creek drainage basin, 4,600 acre feet;

Beaver creek drainage basin, 6,700 acre feet;

Sappa creek drainage basin, 8,800 acre feet;

Prairie Dog creek drainage basin, 2,100 acre feet;

From the North Fork of the Republican river in Nebraska, the main stem of the Republican river between the junction of the North Fork and Arikaree river and the lowest crossing of the river at the Nebraska-Kansas state line, from the small tributaries thereof, and from water supplies of upstream basins otherwise unallocated herein, 132,000 acre feet.

The use of the waters hereinabove allocated shall be subject to the laws of the state, for use in which the allocations are made.

ARTICLE V.

The judgment and all provisions thereof in the case of Adalbert A. Weiland, as State Engineer of Colorado, et al. v. The Pioneer Irrigation Company, decided June 5, 1922, and reported in 259 U. S. 498, affecting the Pioneer Irrigation ditch or canal, are hereby recognized as binding upon the states; and Colorado, through its duly authorized officials, shall have the perpetual and exclusive right to control and regulate diversions of water at all times by said canal in conformity with said judgment.

The water heretofore adjudicated to said Pioneer Canal by the District Court of Colorado, in the amount of fifty (50) cubic feet per second of time is included in and is a part of the total amounts of water hereinbefore allocated for beneficial consumptive use in Colorado and Nebraska.

ARTICLE VI.

The right of any person, entity, or lower state to construct, or participate in the future construction and use of any storage reservoir or diversion works in an upper state for the purpose of regulating water herein allocated for beneficial consumptive use in such lower state, shall never be denied by an upper state; provided, that such right is subject to the rights of the upper state.

ARTICLE VII.

Any person, entity, or lower state shall have the right to acquire necessary property rights in an upper state by purchase, or through the exercise of the power of eminent domain, for the construction, operation and maintenance of storage reservoirs, and of appurtenant works, canals and conduits, required for the enjoyment of the privileges granted by Article VI; provided, however, that the grantees of such rights shall pay to the political subdivisions of the state in which such works are located, each and every year during which such rights are enjoyed for such purposes, a sum of money equivalent to the average annual amount of taxes assessed against the lands and improvements during the ten years preceding the use of such lands, in reimbursement for the loss of taxes to said political subdivisions of the state.

ARTICLE VIII.

Should any facility be constructed in an upper state under the provisions of Article VI, such construction and the operation of such facility shall be subject to the laws of such upper state.

Any repairs to or replacements of such facility shall also be made in accordance with the laws of such upper state.

ARTICLE IX.

It shall be the duty of the three states to administer this Compact through the official in each state who is now or may hereafter be charged with the duty of administering the public water supplies, and to collect and correlate through such officials the data necessary for the proper administration of the provisions of this Compact. Such officials may, by unanimous action, adopt rules and regulations consistent with the provisions of this Compact.

The United States Geological Survey, or whatever federal agency may succeed to the functions and duties of that agency, in so far as this Compact is concerned, shall collaborate with the officials of the states charged with the administration of this Compact in the execution of the duty of such officials in the collection, correlation, and publication of water facts necessary for the proper administration of this Compact.

ARTICLE X.

Nothing in this Compact shall be deemed:

- (a) To impair or affect any rights, powers or jurisdiction of the United States, or those acting by or under its authority, in, over, and to the waters of the Basin; nor to impair or affect the capacity of the United States, or those acting by or under its authority, to acquire rights in and to the use of waters of the Basin;
- (b) To subject any property of the United States, its agencies or instrumentalities, to taxation by any state, or sub-

division thereof, nor to create an obligation on the part of the United States, its agencies or instrumentalities, by reason of the acquisition, construction, or operation of any property or works of whatsoever kind, to make any payments to any state or political subdivision thereof, state agency, municipality, or entity whatsoever in reimbursement for the loss of taxes;

- (c) To subject any property of the United States, its agencies or instrumentalities, to the laws of any state to any extent other than the extent these laws would apply without regard to this Compact.

ARTICLE XI.

This Compact shall become operative when ratified by the Legislature of each of the states, and when consented to by the Congress of the United States by legislation providing, among other things, that:

- (a) Any beneficial consumptive uses by the United States, or those acting by or under its authority, within a state, of the waters allocated by this Compact, shall be made within the allocations hereinabove made for use in that state and shall be taken into account in determining the extent of use within that state.
- (b) The United States, or those acting by or under its authority, in the exercise of rights or powers arising from whatever jurisdiction the United States has in, over, and to the waters of the Basin shall recognize, to the extent consistent with the best utilization of the waters for multiple purposes, that beneficial consumptive use of the waters within the Basin is of paramount importance to the development of the Basin; and no exercise of such power or right thereby that would interfere with the full beneficial consumptive use of the waters within the Basin shall be made except upon a determination, giving due consideration to the objectives of this Compact and after consultation with all interested federal agencies and the state officials charged with the administration of this Compact, that such exercise is in the interest of the best utilization of such waters for multiple purposes.
- (c) The United States, or those acting by or under its authority, will recognize any established use, for domestic and irrigation purposes, of the waters allocated by this Compact which may be impaired by the exercise of federal jurisdiction in, over, and to such waters; provided, that such use is being exercised beneficially, is valid under the laws of the appropriate state and in conformity with this Compact at the time of the impairment thereof, and was validly initiated under state law prior to the initiation or authorization of the federal program or project which causes such impairment.

IN WITNESS WHEREOF, the Commissioners have signed this Compact in quadruplicate original, one of which shall be deposited in the archives of the Department of State of the United States of America and shall be deemed the authoritative original, and of which a duly certified copy shall be forwarded to the governor of each of the states.

Done in the city of Lincoln, in the state of Nebraska, on the 31st day of December, in the year of our Lord, one thousand nine hundred forty-two.

M. C. HINDERLIDER,
Commissioner for Colorado.
GEORGE S. KNAPP,
Commissioner for Kansas.
WARDNER G. SCOTT,
Commissioner for Nebraska.

I have participated in the negotiations leading to this proposed Compact and propose to report to the Congress of the United States favorably thereon.

GLENN L. PARKER,
Representative of the United States.

Explanatory Statement and Report on Republican River Compact.

There is herewith submitted to the General Assembly of the state of Colorado, with recommendation for favorable consideration, a new Republican River Compact. After two conferences by the Republican River Compact Commissioners and their legal advisers, this Compact was signed by the Commissioners for the states of Colorado, Kansas and Nebraska, at Lincoln, Nebraska, on the 31st day of December, 1942. The major purposes of this Compact are set forth in Article I which reads, in part, as follows:

“The major purposes of this Compact are to provide for the most efficient use of the waters of the Republican river basin (hereinafter referred to as the “Basin”) for multiple purposes; to provide for an equitable division of such waters; to remove all causes, present and future, which might lead to controversies; to promote interstate comity; to recognize that the most efficient utilization of the waters within the Basin is for beneficial consumptive use; and to promote joint action by the states and the United States in the efficient use of water and the control of destructive floods.”

The negotiation of this Compact by the states of Colorado, Kansas and Nebraska was authorized by an Act of the Congress of the United States, approved August 4, 1942 (Public No. 696—77th Congress, Chapter 545—2nd Session) which authorized these states “to negotiate and enter into a Compact not later than June 1, 1945, providing for an equitable division and apportionment among the said states of the waters of the Republican and

also of its tributaries above its junction with the Smoky Hill river in Kansas, upon condition that a suitable person, who shall be appointed by the president of the United States, shall participate in said negotiations as the representative of the United States and shall make report to the Congress of the proceedings and of any Compact entered into * * *.”

Thereafter and pursuant to their several authorities, the governors of each of the signatory states named the same Commissioners who had been designated to negotiate a former Compact, and the president appointed as the representative of the United States, Glenn L. Parker, Chief Hydraulic Engineer of the United States Geological Survey.

The Commission held its first meeting in Denver, Colorado, on December 2-3, 1942, when, by unanimous action of the Commission, Mr. Parker was designated chairman thereof. Another, and the final meeting was held in Lincoln, Nebraska, on December 29, 30, 31, 1942, following which this Compact was signed by the Commissioners and the federal representative endorsed upon the Compact the following:

“I have participated in the negotiations leading to this proposed Compact and propose to report to the Congress of the United States favorably thereon.

GLENN L. PARKER,
Representative of the United States.”

Throughout these two conferences the Commissioner for Colorado was advised on all matters by Attorney General Gail L. Ireland and Judge Clifford H. Stone, Director of the Colorado Water Conservation Board, whose services in this connection were most valuable. During the negotiations the Commissioners for Kansas and Nebraska were advised by representatives of the attorneys general of those two states. Prior to the attachment of the signatures of the Commissioners to this Compact, the governors of each of the signatory states were fully advised of the conclusions reached by the Commissioners, and approved the same.

The Legislatures of Colorado, Kansas and Nebraska, in 1941, ratified a former Compact allocating the waters of the Republican river basin. That Compact was later approved by the Congress of the United States. The Act providing for Congressional approval, however, was vetoed by the president. The veto message of the president set forth, in substance, that the Compact failed to adequately protect the interests of the United States. This situation arose out of the inclusion in Article I of the former Compact the following language:

“The Republican river and tributaries thereof within the basin, as hereinabove defined, are not navigable, and all uses of water of a consumptive nature, as hereinafter defined, wherever such uses may occur within the basin, shall constitute paramount uses.”

The Federal Power Commission with support, in varying degree, from other federal agencies, strenuously opposed within the Congress the last mentioned provision.

Numerous amendments to the approving legislation were proposed in Congress. The adoption of these amendments, however, would have constituted material modifications of that Compact, and would have required a re-reference of the Compact to the Legislatures of the signatory states. They were finally defeated, and Congress approved the former Compact without modifying provisions, but, as stated, the approving legislation was vetoed by the president.

In general, it should be stated that representatives of certain federal agencies contended that the provisions of Article I of the first Compact, above quoted, created a dangerous precedent, and were contrary to federal jurisdiction and to the public interest, unless interpreted, limited and modified by appropriate amendments to be incorporated in the approving legislation.

Following the abortive effort to obtain final approval of the former Compact by the Congress, it was believed by the Commissioners that the uses of the waters of the Republican river and its tributaries and the inherent federal and states' interests could be correlated in such way as to permit of the most beneficial use of the waters of the Basin.

Congressional authorization to make a new Compact having been obtained, further negotiations followed, as above outlined.

During these negotiations for a new Compact, representatives of the Departments of Agriculture and Interior, the Corps of U. S. Engineers and the National Resources Planning Board, were in attendance and contributed materially in the negotiations of the Commissioners.

This Compact eliminates the objectionable provision in the former Compact, hereinabove quoted.

Article XI of this Compact, however, is designed to protect the states' interests in these waters by a recognition that the most efficient utilization of the waters within the Basin is for beneficial consumptive use, and also to promote joint action by the states and the federal government in effectuating such use and for the control of destructive floods.

It will be noted that this Compact provides that, unless the Congress of the United States in its approving legislation includes the provisions set forth in Article XI for the protection of the interests of the states, then the approval would be ineffectual. These protective measures may be summarized as follows:

1. Any beneficial consumptive uses by the United States, or those acting by or under its authority, within a state, of the waters allocated by this Compact, shall be made within the allocations of water for use within such state.
2. That the United States, or those acting by or under its authority, in the exercise of rights or powers arising from what-

ever jurisdiction the United States has in, over, and to the waters of the Basin, shall recognize, to the extent consistent with the best utilization of the waters for multiple purposes, that the beneficial consumptive use of the waters within the Basin, is of paramount importance to the development of the Basin.

3. That no exercise of federal jurisdiction over such waters, that would interfere with the full beneficial consumptive use of the waters within the Basin, shall be made except upon a determination, giving due consideration to the objectives of this Compact and after consultation with all interested federal agencies and state officials charged with the administration of this Compact, that such exercise is in the interest of the best utilization of such waters for multiple purposes.

4. That the United States or those acting by or under its authority, will recognize any established use, for domestic and irrigation purposes, of the waters allocated by this Compact which may be impaired by the exercise of federal jurisdiction in, over, and to such waters; provided, that such use is being exercised beneficially, is valid under the laws of the appropriate state and in conformity with this Compact at the time of the impairment thereof, and was validly initiated under state law prior to the initiation or authorization of the federal program or project which causes such impairment.

In considering this Compact it should be noted that beneficial consumptive use is the basis and the principle upon which the allocations of water are made and predicated. Beneficial consumptive use is defined by the Compact in these words:

“The term ‘Beneficial Consumptive Use’ is herein defined to be that use by which the water supply of the Basin is consumed through the activities of man, and shall include water consumed by evaporation from any reservoir, canal, ditch, or irrigated area.”

This definition of “Beneficial Consumptive Use” must be considered in connection with Article XI of the Compact. “Beneficial Consumptive Use”, as above defined, includes the use of water for domestic, irrigation and industrial purposes. The use of water for these purposes is regulated and controlled under state laws.

The federal government claims jurisdiction over the waters of the Basin for the production of hydro-electric energy, the maintenance of navigable capacity within and without the Basin, and in the interest of flood control, all of which in general, are of a non-consumptive character.

It is believed that the interests of the federal government and of the signatory states in the waters of the Basin, are adequately protected and correlated by the provisions of Article X and XI, and by other provisions of this Compact.

In its deliberations resulting in the first draft of a Compact, the Commission gave careful consideration to the report of the

Corps of U. S. Engineers dated February 27, 1940, covering its comprehensive study in 1939-1940 of the needs for flood control, including presently irrigated and arable areas, water conservation and related benefits to irrigation, domestic requirements, and power development. The Commission conferred from time to time with representatives of the U. S. Bureau of Reclamation which was then engaged in field investigations and studies of water supply, irrigated and arable areas within the Basin, the development of which would require the consumptive use of the waters of the Republican river and its tributaries. During its deliberations the Commission also conferred with representatives of the Bureau of Agricultural Economics of the U. S. Department of Agriculture which had just completed a field study and voluminous report on the underground water resources of the Basin and the availability of the same for future developments therein. While the absence of extensive development of the natural resources of the Basin tended to simplify the problem of allocating the waters thereof, the Commission was confronted with other difficult problems involving a multiplicity of primary and secondary tributary stream systems which are largely disassociated in their possibilities for use, and which, due to their erratic character, will require the construction of extensive regulatory works throughout the Basin. A careful evaluation by the Commission, of the total available water supplies of the Basin, based upon the preceding eleven years during which period fairly reliable records of stream flow are available, and of the results of the studies by the Corps of U. S. Engineers, U. S. Bureau of Reclamation and Bureau of Agricultural Economics, with respect to irrigated and arable areas, disclosed that the virgin water supplies of the Basin when regulated by storage reservoirs are, in general, ample to meet all present and future requirements for domestic, irrigation and industrial uses within the Basin, with periodic surpluses which, when regulated, could be made to serve navigation needs, if any, outside the Basin.

The Compact allocates for beneficial consumptive use in Colorado, annually, a total of 54,100 acre feet derived from the following sources:

North Fork of the Republican river.....	10,000 acre feet
Arikaree river	15,400 acre feet
South Fork of the Republican river.....	25,400 acre feet
Beaver creek	3,300 acre feet

and, in addition, the entire water supply of the Frenchman and Red Willow creek drainage basins in Colorado.

It is specifically pointed out that the above allocations of water are identical with the allocations made by the former Compact heretofore approved by the Legislatures of the signatory states; and that such are in no manner or detail changed by this Compact. In the interest of clarity, however, it was considered desirable, in this Compact, to transpose the order in which the

determined basic water supplies of the Basin, and the specific allocations to each of the three states, was set out in the former Compact. The only material changes in this Compact were made to meet the conflicts between the various uses of water, and between federal and state interests in these waters. These latter changes, as hereinabove explained, are all of a legal nature.

The foregoing allocations constitute about 23 per cent of the total water supply of the North Fork of the Republican; 79 per cent of that of the Arikaree; 44 per cent of that of the South Fork of the Republican; and 100 per cent of that of the Beaver, Frenchman and Red Willow creek drainage basins in Colorado. It should be borne in mind that these allocations of water do not limit the right of Colorado or any of its agencies to divert and apply much larger quantities of water than the amounts allocated by the Compact.

Particular attention is called to Article I of this Compact which provides in part as follows:

“The physical and other conditions peculiar to the Basin constitute the basis for this Compact, and none of the states hereby, nor the Congress of the United States by its consent, concedes that this Compact establishes any general principle or precedent with respect to any other interstate stream.”

It is believed that this Compact equitably apportions the total available average annual virgin water supplies of the Basin, both surface and underground, among the three signatory states, in such manner and in such amounts as will not only protect all existing uses within the Basin, but will insure, insofar as possible, that the available water supplies when regulated by storage works, will adequately meet future requirements for domestic, irrigation, industrial and recreational purposes, and that it affords ample opportunity for multiple use development and for flood control. It provides for the collaboration by the U. S. Geological Survey with the Compact Commissioners of the three states, in the collection, correlation and publication of water facts necessary for the proper administration of the Compact.

It is also believed that this Compact, by its recognition and correlation of the inherent rights of the signatory states and their entities, and those of the federal government, provides the sound and constructive basis dictated by the physical and other conditions peculiar to the Basin, as mentioned in Article I of this Compact, for the regulation, control and most beneficial uses of the waters of the Basin, which uses are of such vital importance to that arid and semi-arid region.

As Commissioner for the state of Colorado, I, therefore, submit this Compact to the 34th General Assembly of the state of

Colorado, for its consideration, and recommend the ratification of the same by your honorable body.

M. C. HINDERLIDER,
Republican River Compact
Commissioner for Colorado.

Costilla River:

This stream rises in southern Colorado and flows across the Colorado-New Mexico state line two or three times before entering the Rio Grande in New Mexico.

The division and use of the water of this stream has been a source of much friction between water uses in both states for many years.

Within the past biennium negotiations have been carried on by the Director of the Colorado Water Conservation Board with representatives of New Mexico, looking to an interstate compact covering the waters of this stream. It was anticipated that a compact would be signed and presented to the 1943 Legislatures of both states for ratification, but this has not been accomplished.

Little Snake River:

Some negotiations looking to a compact between Colorado and Wyoming covering the waters of this stream have been carried on intermittently for several years, but nothing has been accomplished pending the completion of surveys and studies of water and land resources in both states, which are being carried on by the U. S. Bureau of Reclamation.

CHAPTER X.

DESCRIPTIONS OF
STREAM GAGING STATIONS
AND
TABLES OF STREAM DISCHARGES
FOR
WATER YEARS 1941 AND 1942

All stream gaging stations in this state are maintained by the State Engineer of Colorado in cooperation with the United States Geological Survey.

The majority of the stream measurements in the Colorado River and North Platte River basins were made by the U. S. G. S. while work in the Arkansas, Rio Grande and South Platte River basins was done by the State Engineer's office.

The following agencies also cooperated with the State Engineer in this work:

State of Colorado, Colorado Water Conservation Board

State of Kansas, Division of Water Resources

State of Nebraska, State Engineer

U. S. Army, Corps of Engineers

U. S. Bureau of Reclamation

Municipalities of Denver and Loveland

Arkansas Valley Ditch Association

Rio Grande Water Users Association

Uncompahgre Valley Water Users Association

Del Norte and Trinchera Irrigation Districts

Costilla Estates Development Company

Public Service Company of Colorado

Terrace Irrigation Company

RELATED RUNOFF IN PERCENTAGE OF THE NORMAL
FOR STREAMS IN COLORADO

Stream	Years of Record	Mean Ac.-Ft.	1941 %	1942 %
Animas River at Durango.....	11	657,800	145	126
Arkansas River at Canon City.....	55	525,500	96	138
Bear Creek at Morrison.....	23	44,600	110	203
Big Thompson River below Power House near Drake.....	14	112,800	98	117
Blue River at Dillon.....	32	86,410	82	90
Boulder Creek near Orodell.....	36	68,540	81	114
Cache la Poudre River at Canyon near Fort Collins.....	59	304,100	74	103
*Clear Creek near Golden.....	33	178,500	94	95
Colorado River at Glenwood Springs.....	43	2,146,000	79	91
Conejos River near Mogote.....	40	274,400	141	103
Dolores River at Dolores.....	33	334,200	156	171
†Fraser River at Winter Park (West Portal)	32	31,170	89	98
La Plata River at Hesperus.....	28	35,870	183	129
Laramie River at Jelm, Wyoming.....	34	122,300	76	96
Little Snake River at Lily Park.....	22	455,600	87	101
North Platte River near Northgate.....	29	345,500	54	70
Purgatoire River at Trinidad.....	35	71,530	193	276
Rio Grande River near Del Norte.....	53	700,200	135	132
†Roaring Fork River at Glenwood Springs..	36	1,087,200	83	93
Saguache Creek near Saguache.....	33	56,650	125	142
†South Boulder Creek at Eldorado Springs...	50	55,670	88	139
*South Platte River at South Platte.....	51	273,000	81	222
St. Vrain Creek at Lyons.....	53	130,200	88	132
White River near Meeker.....	39	462,600	97	103
White River near Watson, Utah.....	21	557,200	99	123
Yampa River at Steamboat Springs.....	37	350,300	86	90
Yampa River near Maybell.....	32	1,192,000	83	100
State Average.....			104	126

NOTE: The mean in acre-feet is based on all available years of record as shown in first column, including year 1942.

*Corrected for storage.

†Corrected for transmountain diversion.

PLATTE RIVER BASIN

SOUTH PLATTE RIVER ABOVE ELEVEN MILE CANYON RESERVOIR NEAR HARTSEL, COLORADO

Location—Water stage recorder and Parshall flume in Sec. 33, T. 12 N., R. 73 W., 250 feet downstream from highway bridge on road from Hartsel to Guffey, and 1 mile upstream from high water line of Eleven Mile Canyon Reservoir and 13 miles southeast of Hartsel. A 20-foot Parshall flume was installed in October, 1940.

Drainage Area—861 square miles.

Records available—May 27, 1939 to September 30, 1942.

Maximum discharge during period 1939-42; 740 second feet, August 1, 1942. Gage height 4.14 feet, datum then in use.

Maximum Discharge—Year 1941; 605 second feet, June 25. Gage height 3.65 feet.

Maximum Discharge—Year 1942; 740 second feet, August 1. Gage height 4.14 feet.

Accuracy—Records considered good. No record during winter.

Diversions for storage and irrigation above station. Flow regulated by Antero Reservoir; capacity 33,000 acre-feet.

SOUTH PLATTE RIVER BELOW ELEVEN MILE CANYON RESERVOIR NEAR LAKE GEORGE, COLORADO

Location—Water stage recorder and Parshall flume in SW $\frac{1}{4}$ Sec. 20, T. 13 S., R. 72 W., 800 feet downstream from Eleven Mile Canyon Reservoir and 9 miles upstream from Lake George. Concrete 15-ft. Parshall flume installed in October, 1940.

Drainage Area—929 square miles. Zero of gage is 8,423.95 feet above mean sea level.

Records Available—October 1, 1929 to September 30, 1942. Station located at Lake George, 9 miles downstream, from October, 1910 to September, 1929, and 1 mile downstream from present site from October, 1929, to October, 1940.

Maximum discharge during period 1930-42; 990 second feet, August 15, 1930. Gage height 4.80 feet, site and datum then in use.

Maximum Discharge—Year 1941; 518 second feet, June 27. Gage height 3.94 feet.

Maximum Discharge—Year 1942; 670 second feet, April 15. Gage height 4.63 feet.

Accuracy—Records considered excellent.

Diversions for storage and irrigation above station. Flow regulated by Antero and Eleven Mile Canyon reservoirs. Capacities, 33,000 and 80,000 acre-feet, respectively.

SOUTH PLATTE RIVER ABOVE LAKE CHEESMAN,
COLORADO

Location—Water stage recorder and compound rectangular weir in Sec. 22, T. 10 S., R. 71 W., $\frac{1}{2}$ mile upstream from high water line of Lake Cheesman.

Drainage Area—1,680 square miles. Zero of gage is 6,845.86 feet above mean sea level, adjustment of 1912.

Records Available—October 1, 1924 to September 30, 1942.

Maximum discharge during period 1942; 3,030 second feet, August 6, 1936. Gage height 5.30 feet. Rating curve extended 200 second feet, on basis of weir tables.

Maximum Discharge—Year 1941; 978 second feet, June 5. Gage height 2.89 feet.

Maximum Discharge—Year 1942; not determined.

Accuracy—Records considered good except those for periods of no gage height July 18, 19 and September 13 to 20, 1941, and during winter period November 11, 1940, to April 5, 1941, and for April 25, June 9, 10, 1942, which were estimated and are fair.

Diversions for storage and irrigation above station. Flow regulated by two reservoirs above station. Total capacity of 113,000 acre-feet.

SOUTH PLATTE RIVER BELOW LAKE CHEESMAN,
COLORADO

Location—Water stage recorder in Sec. 6, T. 10 S., R. 70 W., $\frac{1}{4}$ mile downstream from Lake Cheesman.

Drainage Area—1,766 square miles. Zero of gage is 6,610.38 feet above mean sea level, adjustment of 1912.

Records Available—October 1, 1924 to September 30, 1942. Acre-foot estimates 1909 to date.

Maximum discharge during period 1924-42; 3,020 second feet, April 23, 1942. Gage height 8.46 feet.

Maximum Discharge—Year 1941; 1,020 second feet, April 30, from rating curve extended above 700 second feet. Gage height 5.25 feet.

Maximum Discharge—Year 1942; 3,020 second feet, April 23. Gage height 8.46 feet.

Accuracy—Records considered good.

Diversions for storage and irrigation above station. Flow regulated by three reservoirs. Total capacity 194,000 acre-feet.

SOUTH PLATTE RIVER AT SOUTH PLATTE, COLORADO

Location—Water stage recorder in Sec. 25, T. 7 S., R. 70 W., at South Platte, 375 feet downstream from mouth of North Fork of South Platte River.

Drainage Area—2,550 square miles. Zero of gage is 6,078.43 feet above mean sea level, adjustment of 1912.

Records Available—March 28, 1902 to September 30, 1942.

Maximum discharge during period 1902-42; 6,320 second feet, June 8, 1921. Gage height 8.95 feet.

Maximum Discharge—Year 1941; 1,640 second feet, June 6. Gage height 4.56 feet.

Maximum Discharge—Year 1942; 5,210 second feet, April 23. Gage height 8.15 feet.

Accuracy—Records considered good. Discharge for period of ice effect from December 14, 1940 to March 16, 1941, and November 23 to 25, December 16, 1941 to April 1, 1942, computed on basis of 3 discharge measurements and comparison with North Fork and Waterton stations, and records for station below Cheesman Reservoir, plus estimated inflow.

Diversions for irrigation above station. Flow regulated by three reservoirs. Capacity 194,000 acre-feet.

SOUTH PLATTE RIVER AT WATERTON, COLORADO

Location—Water stage recorder in Sec. 34, T. 6 S., R. 69 W., 200 feet east of highway bridge at pipe line crossing from Platte Canyon Reservoir to filter beds, and one-half mile south of Waterton. Waste from Platte Canyon Reservoir and Highline Canal enters river immediately upstream from station.

Drainage Area—2,621 square miles. Zero of gage is 5,484.43 feet above mean sea level, adjustment of 1912.

Records Available—May 21, 1926 to September 30, 1942.

Maximum discharge during period 1926-1942; 5,700 second feet, April 23, 1943. Gage height 5.68 feet.

Maximum Discharge—Year 1941; 1,090 second feet, August 12. Gage height 2.68 feet.

Maximum Discharge—Year 1942; 5,700 second feet, April 23. Gage height 5.68 feet.

Accuracy—Records good except those for period of ice effect November 12 to 16, 1940, and January 16 to 26, 1941, and from December 24 to January 12, 1942, February 2, 4 to 6, 11 and March 19, 1942, which were computed on basis of discharge measurements, weather records and are fair.

Diversions for irrigation above station. Flow regulated by three storage reservoirs above station. Capacity 194,000 acre-feet.

SOUTH PLATTE RIVER AT LITTLETON, COLORADO

Location—Wire weight gage in Sec. 17, T. 5 S., R. 68 W., on Hazard Street Bridge, at northwest edge of Littleton. Bear Creek enters 4 miles downstream.

Drainage Area—3,090 square miles. Zero of gage is 5,305.34 feet above mean sea level, adjustment of 1912.

Records Available—July 21, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; 9,720 second feet, April 23, 1942. Gage height 8.55 feet.

Maximum Discharge—Year 1942; 9,720 second feet, April 23. Gage height 8.55 feet.

Accuracy—Records considered fair with twice daily gage readings. Records during periods of ice effect December 27, 1941 to February 6, February 14, 16, 18-28, 1942, computed on basis of four discharge measurements, weather records and comparison with records at Waterton and Denver stations.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT DENVER, COLORADO

Location—Water stage recorder at 19th Street Bridge in Denver, $\frac{1}{4}$ mile downstream from mouth of Cherry Creek. Waste water from Farmers and Gardners Ditch enters river above station.

Drainage Area—3,840 square miles. Zero of gage is 5,162.16 feet above mean sea level, datum of 1929.

Records Available—May 7, 1895 to September 30, 1942. Station maintained between 15th Street and 16th Street Bridges prior to August 29, 1931. Records comparable.

Maximum Discharge during period 1902-42; 22,000 second feet, September 10, 1933. Gage height 10.98 feet.

Maximum Discharge—Year 1941; 4,000 second feet, June 22. Gage height 4.98 feet.

Maximum Discharge—Year 1942; 10,200 second feet, April 25. Gage height 8.09 feet.

Accuracy—Records considered good except those for periods of no gage heights, November 13-15, December 14-16, 1940, and January 7-10, 1941, which were computed on basis of weather records and comparison of record of South Platte River at Henderson, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT HENDERSON, COLORADO

Location—Water stage recorder in Sec. 34, T. 1 S., R. 67 W., $\frac{1}{4}$ mile west of Henderson, and just downstream from highway bridge.

Drainage Area—4,740 square miles. Zero of gage is 5,005.12 feet above mean sea level. Datum lowered 2.00 feet July 7, 1942.

Records Available—May 1, 1926 to September 30, 1942.

Maximum discharge during period 1926-42; 10,700 second feet, April 26, 1942. Gage height 8.40 feet.

Maximum Discharge—Year 1941; 3,710 second feet, June 22. Gage height 5.61 feet.

Maximum Discharge—Year 1942; 10,700 second feet, April 26. Gage height 8.40 feet.

Accuracy—Records considered good. Those for periods of ice effect, December 11-16, 1940, and November 9, 10, 1941, and January 2, 5-11, February 20-27, 1942, were computed on basis of discharge measurements, weather records and comparison with South Platte records at Denver and Fort Lupton stations, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT FORT LUPTON, COLORADO

Location—Water stage recorder in Sec. 6, T. 1 N., R. 66 W., at the west edge of Fort Lupton and 600 feet upstream from highway bridge. Prior to June 20, 1935, water stage recorder at site $\frac{1}{4}$ mile downstream and at different datum.

Drainage Area—5,070 square miles. Zero of gage is 4,888.66 feet above mean sea level.

Records available—May 10 to September 15, 1906, April 29, 1929 to September 30, 1942.

Maximum discharge during period 1906, 1929-1942; 9,000 second feet, April 26, 1942. Gage height 7.24 feet.

Maximum Discharge—Year 1941; 2,410 second feet, June 23. Gage height 4.41 feet.

Maximum Discharge—Year 1942; 9,000 second feet, April 26. Gage height 7.24 feet.

Accuracy—Records considered good except those for periods of missing gage heights, June 20-July 7, and July 23-August 1, 1942, which were computed on basis of comparison with station at Henderson, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER NEAR KERSEY, COLORADO

Location—Water stage recorder in Sec. 9, T. 5 N., R. 64 W., at highway bridge $1\frac{3}{4}$ miles north of Kersey. Cache la Poudre River enters $2\frac{1}{2}$ miles upstream from station.

Drainage Area—9,500 square miles. Zero of gage is 4,575.37 feet above mean sea level, datum of 1929.

Records Available—April 27, 1901 to October 31, 1903, March 1, 1905 to November 20, 1912, January 1, 1914, to September 30, 1942.

Maximum discharge during period 1901-03, 1905-42; 31,000 second feet, June 7, 1921, from rating curve extended above 15,000 second feet.

Maximum Discharge—Year 1941; 2,640 second feet, June 10. Gage height 5.62 feet.

Maximum Discharge—Year 1942; 19,200 second feet, April 25. Gage height 9.50 feet.

Accuracy—Records considered good except those for periods of ice effect December 16, 17, 1940, and January 1-14, February

17-23, 1942, which were computed on basis of weather records, and are fair.

Diversions for irrigation above station.

SOUTH PLATTE RIVER AT SUBLETTE, COLORADO

Location—Water stage recorder in Sec. 14, T. 4 N., R. 61 W., just downstream from highway bridge and 1,000 feet south of Sublette.

Drainage Area—12,900 square miles.

Records Available—April 19, 1926 to April 21, 1942.

Maximum discharge during period 1926-42; 10,700 second feet, September 5, 1938. Gage height 8.78 feet. Highest discharge known about 30,000 second feet, June 7, 1921.

Maximum Discharge—Year 1941; 2,170 second feet, June 24. Gage height 4.20 feet.

Maximum Discharge—Year 1942; not determined.

Accuracy—Records considered good except those for period of no gage height, November 13-16, 1940, which were estimated, and are fair.

Diversions for storage and irrigation above station.

SOUTH PLATTE RIVER AT BALZAC, COLORADO

Location—Water stage recorder in Sec. 13, T. 5 N., R. 55 W., at Balzac Siding, $1\frac{1}{4}$ miles northeast of Union. Two recording gages on two channels.

Drainage Area—17,700 square miles. Zero of gage on main channel is 4,091.06 feet above mean sea level, datum of 1929.

Records Available—January, 1917 to September 30, 1942.

Maximum discharge during period 1917-42; May 31, 1935, discharge not determined. Gage height 11.43 feet.

Maximum Discharge—Year 1941; 855 second feet, June 10. Gage height 3.96 feet.

Maximum Discharge—Year 1942; 17,000 second feet, April 27. Gage height 8.89 feet.

Accuracy—Records considered good. During period of missing gage heights, November 11-14, 1940, and periods of ice effect, December 25, 1941 to January 8, 1942, and February 17-25, discharges were computed by comparison with stations at Sublette and Julesburg, and are fair.

Diversions for storage and irrigation above station.

SOUTH PLATTE RIVER AT JULESBURG, COLORADO

Location—Water stage recorder in Sec. 33, T. 12 N., R. 44 W., at highway bridge $\frac{1}{2}$ mile east of Julesburg, Colorado, and 4 miles upstream from Colorado-Nebraska State line. (Three water stage recorders on three channels. At extreme highwater stages all channels merge into one.)

Drainage Area—22,800 square miles. (Revised.) Zero of gage is 3,446.76 feet above mean sea level, datum of 1929.

Records Available—April 2, 1902 to November 16, 1906, May 12, 1908 to November 30, 1912, April 8, 1914 to September 30, 1942.

Maximum discharge during period 1902-06, 1908-12, 1914-42; 31,300 second feet, June 2, 1935, from rating curve extended above 16,000 second feet.

Maximum Discharge—Year 1941; 661 second feet, June 13.

Maximum Discharge—Year 1942; 16,250 second feet, May 5. Gage height 8.26 feet on Channel No. 2 gage.

Accuracy—Records considered good. They represent the flow passing the Colorado-Nebraska State line.

Diversions for irrigation and storage above station.

TARRYALL CREEK NEAR LAKE GEORGE, COLORADO

Location—Water stage recorder in Sec. 22, T. 11 S., R. 72 W., at McLaughlin's Ranch eight miles northwest of Lake George, and approximately 5 miles upstream from the mouth. Prior to November 8, 1940, recorder located at site 250 feet downstream.

Drainage Area—460 square miles.

Records Available—October, 1910 to June, 1912, June 19 to October 26, 1916, April 1, 1925, to September 30, 1942.

Maximum discharge during period 1910-12, 1916, 1925-42; 643 second feet, July 31, 1935. Gage height 5.20 feet, site and datum then in use.

Maximum Discharge—Year 1941; 534 second feet, June 5. Gage height 3.97 feet.

Maximum Discharge—Year 1942; 459 second feet, August 4. Gage height 4.16 feet.

Accuracy—Records considered good except those for period of missing gage heights, October 1 to November 7, 1940, and for periods of ice effect November 11 to 14, 19-30, 1940, April 1-6, 1941, which were computed on basis of records for Goose Creek above Lake Cheesman and South Platte River above Eleven Mile Canyon Reservoir.

Diversions for irrigation above station.

GOOSE CREEK ABOVE LAKE CHEESMAN, COLORADO (KNOWN ALSO AS LOST PARK CREEK)

Location—Water stage recorder and compound rectangular weir in Sec. 3, T. 10 S., R. 71 W., 1 mile upstream from high water line of Lake Cheesman.

Drainage Area—86 square miles. Altitude 6,835 feet above mean sea level.

Records Available—October, 1924 to September 30, 1942. Acre-foot estimates 1909 to date.

Maximum discharge during period 1924-42; that of May 30, 1942.

Maximum Discharge—Year 1941; 304 second feet, May 14, from rating curve extended on basis of weir formula. Gage height 3.57 feet.

Maximum Discharge—Year 1942; 464 second feet, May 30. Gage height 4.57 feet.

Accuracy—Records considered good except those for period of no gage height, and for period of ice effect November 11, 1940 to April 12, 1941, computed on basis of record for Lake Cheesman, and are fair.

NORTH FORK OF SOUTH PLATTE RIVER AT GRANT, COLORADO

Location—Staff gage in NW $\frac{1}{4}$ Sec. 9, T. 7 S., R. 74 W., 300 feet west of Grant (Olava postoffice) and 400 feet downstream from Geneva Creek.

Drainage Area—130 square miles.

Records Available—June 19 to September 30, 1942.

Maximum discharge during period; 315 second feet, June 19. Gage height 2.14 feet.

Accuracy—Records considered fair. Staff gage read twice daily.

A few small diversions for irrigation above station. Flow somewhat regulated by reservoirs.

NORTH FORK OF SOUTH PLATTE RIVER AT PINE, COLORADO

Location—Staff gage in SE $\frac{1}{4}$ Sec. 36, T. 7 S., R. 71 W., at Bryn Mawr Ranch, 600 feet downstream from Elk Creek and $\frac{1}{2}$ mile east of Pine postoffice.

Drainage Area—374 square miles.

Records Available—July 1 to September 30, 1942.

Maximum discharge during period; 410 second feet July 1. Gage height 2.32 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

NORTH FORK OF SOUTH PLATTE RIVER AT SOUTH PLATTE, COLORADO

Location—Water stage recorder in Sec. 25, T. 7 S., R. 70 W., $\frac{1}{2}$ mile west of South Platte.

Drainage Area—484 square miles. Zero of gage is 6,090.55 feet above mean sea level, adjustment of 1912.

Records Available—January 4, 1909 to September 30, 1910. April 1, 1913 to September 30, 1942.

Maximum discharge during period 1909-1910, 1913-1942; 1,910 second feet, June 8, 1921, from rating curve extended above 1,400 second feet. Gage height 5.90 feet.

Maximum Discharge—Year 1941; 1,030 second feet, May 14. Gage height 4.63 feet.

Maximum Discharge—Year 1942; 1,330 second feet, May 11. Gage height 5.44 feet.

Accuracy—Records considered good except those during periods of ice effect November 15, 1940 to March 17, 1941, November 21, 1941 to March 29, 1942, which were computed on basis of four and five discharge measurements, weather records, and are fair. Discharge estimated April 26 to May 1, June 6 to 12, June 13 to 17, 1942, July 26 to August 2.

Diversions for irrigation above station.

DEER CREEK NEAR LITTLETON, COLORADO

Location—Staff gage in NW $\frac{1}{4}$ Sec. 8, T. 6 S., R. 69 W., at Canyon Park, 2 $\frac{1}{2}$ miles downstream from Blue Jay Creek, and 8 miles southwest of Littleton.

Drainage Area—21.8 square miles.

Records Available—June 18 to September 30, 1942.

Maximum discharge during period; 18 second feet June 29. Gage height 1.74 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

PLUM CREEK NEAR SEDALIA, COLORADO

Location—Staff gage in SE $\frac{1}{4}$ Sec. 15, T. 7 S., R. 68 W., 1 mile west of Sedalia, and 1 mile downstream from Jarre Creek at Lambert Bridge on Indian Creek Road to Lehi.

Drainage Area—273 square miles.

Records Available—June 18 to September 30, 1942.

Maximum discharge during period; 273 second feet, August 2. Gage height 1.70 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

BEAR CREEK AT MORRISON, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 35, T. 4 S., R. 70 W., just upstream from main Turkey Creek Canyon highway bridge at Morrison. Mount Vernon Creek enters $\frac{1}{4}$ mile downstream. During period October, 1919 to September, 1934, water stage recorder located at Idledale (Starbuck) 3 miles upstream, records comparable.

Drainage Area—165 square miles. Zero of gage is 5,780.56 feet above mean sea level, adjustment of 1912.

Records Available—April, 1888 to September, 1891, May, 1895 to March, 1902; October, 1919 to September 30, 1942.

Maximum discharge during period 1888-1891, 1895-1902, 1919-1942; 8,600 second feet, July 24, 1896 (slope area method). Gage height 10.90 feet.

Maximum Discharge—Year 1941; 2,500 second feet, June 21, based on slope area method. Gage height 6.28 feet.

Maximum Discharge—Year 1942; 1,850 second feet, April 19. Gage height 5.80 feet.

Accuracy—Records considered good except those for periods of ice effect November 12-21, December 12, 1940 to February 28, 1941, and December 24 to January 9, 1942, and during periods of no gage height June 22-25, and September 13-18, 1942, which were computed on basis of discharge measurements, weather records and comparison with station at mouth and inflow to South Platte River between Waterton and Denver, and are fair.

Small diversions for irrigation above station.

BEAR CREEK AT MOUTH, AT SHERIDAN JUNCTION, COLORADO

Location—Water stage recorder in Sec. 5, T. 5 S., R. 68 W., $\frac{1}{2}$ mile southwest of Sheridan Junction and $\frac{3}{4}$ mile upstream from mouth.

Drainage Area—265 square miles. Zero of gage is 5,282.95 feet above mean sea level.

Records Available—April 1 to November 30, 1914, February 23, 1927 to September 30, 1942.

Maximum discharge during period 1914, 1927-1942; 3,000 second feet (slope area measurement), July 7, 1933. Gage height 6.95 feet.

Maximum Discharge—Year 1941; June 22, discharge not determined. Gage height 5.16 feet.

Maximum Discharge—Year 1942; 1,600 second feet, April 19. Gage height 6.26 feet.

Accuracy—Records considered good. During periods of ice effect January 2-11, 16-18, 24-26, 1941, and December 24-January 31, 1942, March 6, 7, which were computed on basis of discharge measurements and weather records, and during periods of missing gage heights September 8-22, 1941, April 4-10, 1942, records are fair.

Diversions for storage and irrigation above station.

TURKEY CREEK NEAR MORRISON, COLORADO

Location—Staff gage in NE $\frac{1}{4}$ Sec. 12, T. 5 S., R. 70 W., $1\frac{1}{2}$ miles upstream from mouth, and 2 miles southeast of Morrison.

Drainage Area—49.4 square miles.

Records Available—June 19 to September 30, 1942.

Maximum discharge during period; 37 second feet, August 2.
Gage height 1.54 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

CHERRY CREEK NEAR FRANKTOWN, COLORADO

Location—Water stage recorder in Sec. 15, T. 8 S., R. 66 W., at mouth of Wild Cat Canyon, 1.9 miles upstream from Franktown. Russellville Gulch enters from right 1 mile downstream. Ruins of Castlewood Dam 1.5 miles upstream. Datum lowered 1.00 foot April 16, 1942, and 1.00 foot May 18, 1942.

Drainage Area—172 square miles. Zero of gage is 6,147.53 feet above mean sea level.

Records Available—November 21, 1939 to September 30, 1942.

Maximum discharge during period 1939-1942; 4,700 second feet, July 13, 1941, by float method. Gage height 3.08 feet.

Maximum Discharge—Year 1941; 4,700 second feet, July 13, by float method. Gage height 3.08 feet.

Maximum Discharge—Year 1942; 3,620 second feet, March 13. Gage height 2.91 feet.

Accuracy—Records considered fair. Record for periods of ice effect from November 12-15, 1940; December 10-25, 28-31, 1940; January 1-11, 15-19, 21-27, 30-31, 1941; February 1-3, 7-9, March 11-13, and from December 22 to 29, 1941; January 1-24, 1942; January 29-31, February 1-2, 11-18, computed on basis of discharge measurements and weather records. No gage height record April 2-12, 1942, computed on basis of record for station near Melvin.

Diversions for irrigation above station.

CHERRY CREEK NEAR MELVIN, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 18, T. 5 S., R. 66 W., $\frac{1}{4}$ mile downstream from South Cherry Creek, and $1\frac{1}{2}$ miles southeast of Melvin. Kenwood flood control dam located 4 miles downstream.

Drainage Area—369 square miles. Zero of gage is 5,608.96 feet above mean sea level (State Highway bench mark).

Records Available—November 23, 1939 to September 30, 1942.

Maximum discharge during period 1939-42; 4,500 second feet, September 6, 1940. Gage height 4.38 feet.

Maximum Discharge—Year 1941; 2,390 second feet, July 14. Gage height 4.06 feet.

Maximum Discharge—Year 1942; 2,220 second feet, August 3. Gage height 4.03 feet.

Accuracy—Records considered fair. Ice effect periods De-

ember 17-22, 1940, January 1-26, 31, February 1, 1941, December 22-March 10, 1942. Period of no gage heights November 11 to December 16, 1940, computed on basis discharge measurements, weather records and records at station near Franktown.

Diversions for irrigation above station.

CHERRY CREEK AT DENVER, COLORADO

Location—Wire-weight gage in Sec. 18, T. 4 S., R. 48 W., at Broadway Bridge in Denver, $2\frac{1}{2}$ miles upstream from mouth.

Drainage Area—420 square miles. Zero of gage is 5,233.63 feet above mean sea level, adjustment 1929.

Records Available—August 11 to September 30, 1942.

Maximum discharge recorded; 20,000 second feet, July 26, 1885.

Maximum discharge during period; 42 second feet, September 2. Gage height 1.40 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station. Flood flow regulated by Kenwood dam 7 miles upstream from station.

CLEAR CREEK NEAR GOLDEN, COLORADO

Location—Water stage recorder in Sec. 32, T. 3 S., R. 70 W., $1\frac{1}{2}$ miles upstream from Golden. Welch Ditch diverts water upstream from station. Beaver Creek enters from south approximately 3 miles upstream. Prior to August 30, 1941, at datum 2.00 feet higher.

Drainage Area—392 square miles. Zero of gage is 5,735.27 feet above mean sea level (State Highway bench mark.)

Records Available—December 4, 1908 to December 31, 1909. June to September, 1911, January 26, 1912 to September 30, 1942. Williams Fork Tunnel diverts water from Williams Fork River, into Clear Creek above station. Records since May 10, 1940 equivalent to earlier records if flow through Williams Fork Tunnel is subtracted from flow past station.

Maximum discharge during period 1908-09, 1911-42; 5,890 second feet, September 9, 1933, by slope area method. Gage height 7.97 feet. Maximum discharge known; 8,700 second feet, August 1, 1888.

Maximum Discharge—Year 1941; 5,140 second feet, June 22, by slope area method. Gage height 6.68 feet, present datum.

Maximum Discharge—Year 1942; 1,220 second feet, June 18. Gage height 4.02 feet.

Accuracy—Records considered good, except those for periods of ice effect and no gage height record, which are fair.

Diversions from Williams Fork River into Clear Creek:

Year 1941	Acre Feet	Year 1942	Acre Feet
May	1,540	July	647
June	3,470	August	776
July	2,110	September	173
August	946		
September	124	Total	1,600
Total			
8,190			

Diversions for irrigation above station.

CLEAR CREEK AT MOUTH NEAR DERBY, COLORADO

Location—Water stage recorder in Sec. 35, T. 2 S., R. 68 W., $\frac{3}{4}$ mile upstream from mouth and $2\frac{1}{4}$ miles west of Derby at highway bridge.

Drainage Area—600 square miles.

Records Available—April 1, 1914 to November 30, 1914, February 25, 1927 to September 30, 1942.

Maximum discharge during period 1914, 1927-42; 3,650 second feet, May 30, 1938. Gage height 4.04 feet, site and datum then in use.

Maximum Discharge—Year 1941; 1,890 second feet, June 22. Gage height 5.42 feet.

Maximum Discharge—Year 1942; 1,560 second feet, April 26. Gage height 4.67 feet.

Accuracy—Records fair.

Diversions above station for irrigation. Flow slightly regulated by storage for irrigation. Water diverted into stream from Moffat Tunnel, some of which, together with that from Williams Fork River, passes station into South Platte River.

WEST FORK OF CLEAR CREEK ABOVE EMPIRE, COLORADO

Location—Staff gage in Sec. 29, T. 3 S., R. 74 W., at Glen Arbor Resort, 200 feet downstream from mouth of Mad Creek and 1 mile west of Empire.

Drainage Area—39.9 square miles. Zero of gage is 8,605.22 feet above mean sea level, adjustment of 1912.

Records Available—August 7, 1942 to September 30, 1942.

Maximum discharge during period; 70 second feet, August 8. Gage height 1.72 feet.

Accuracy—Records considered fair. Staff gage read daily by observer.

Transmountain diversions into basin above station.

NORTH ST. VRAIN CREEK AT LONGMONT DAM, NEAR LYONS, COLORADO

Location—Water stage recorder in Sec. 16, T. 3 N., R. 71 W.,

$\frac{3}{4}$ mile upstream from Longmont Dam and 4 miles west of Lyons. City of Longmont diverts water below station.

Drainage Area—109 square miles. Altitude 6,080 feet above mean sea level.

Records Available—1913-1917 (partial records), June 1, 1926 to September 30, 1942.

Maximum discharge during period 1926-42; that of June 22, 1941.

Maximum Discharge—Year 1941; 1,210 second feet, June 22, by computation of flow over dam. Gage height 6.09 feet.

Maximum Discharge—Year 1942; 690 second feet, June 12. Gage height 4.56 feet.

Accuracy—Records considered good, except those March 10-31, June 22-30, 1941, which are fair.

Diversions for storage above station.

ST. VRAIN CREEK AT LYONS, COLORADO

Location—Water stage recorder NW $\frac{1}{4}$ Sec. 20, T. 3 N., R. 70 W., 300 feet downstream from junction of North and South St. Vrain Creeks, and $\frac{3}{4}$ mile east of Lyons.

Drainage Area—226 square miles. Altitude 5,349 feet above mean sea level.

Records Available—August 1, 1897 to October 31, 1899, June 13, 1895 to October 31, 1903, July 1, 1904 to September 30, 1942.

Maximum discharge during period 1887-90, 1895-1903, 1904-42; 10,500 second feet, June 22, from rating curve extended above 500 second feet on basis of slope area determination. Gage height 8.06 feet.

Maximum Discharge—Year 1941; 10,500 second feet, June 22. Gage height 8.06 feet.

Maximum Discharge—Year 1942; 1,510 second feet, August 2, 1942. Gage height 3.84 feet.

Accuracy—Records considered good.

Diversions above station for irrigation and flow partly regulated by several reservoirs.

ST. VRAIN CREEK AT MOUTH NEAR PLATTEVILLE, COLORADO

Location—Water stage recorder in Sec. 3, T. 3 N., R. 67 W., at highway bridge 1 mile upstream from mouth, and 4 miles northwest of Platteville.

Drainage Area—1,000 square miles.

Records Available—April 1 to December 31, 1915; February 24, 1927 to September 30, 1942.

Maximum discharge during period 1915, 1927-1942; 8,360 second feet, September 3, 1938, from rating curve extended above 1,500 second feet. Gage height 8.93 feet.

Maximum Discharge—Year 1941: 1,740 second feet, June 23. Gage height 5.40 feet.

Maximum Discharge—Year 1942: 4,940 second feet, May 3. Gage height 6.72 feet.

Accuracy—Records considered good except those for periods of ice effect or no gage height record November 13-16, December 13-28, 1940; January 3-25, March 2-10, March 31, to April 9, 1941; December 22-March 10, 1942, which are fair.

Diversions for irrigation above station.

LEFTHAND CREEK AT MOUTH AT LONGMONT, COLORADO

Location—Water stage recorder in Sec. 10, T. 2 N., R. 69 W., $\frac{3}{4}$ mile upstream from mouth, and 1 mile south of Longmont.

Drainage Area—74 square miles. Altitude 4,990 feet above mean sea level.

Records Available—March 1, 1927 to September 30, 1942 (discontinued).

Maximum discharge during period 1927-1942: 812 second feet, September 2, 1938, by slope area measurement. Gage height 6.10 feet.

Maximum Discharge—Year 1941: 321 second feet, June 22. Gage height 2.56 feet.

Maximum Discharge—Year 1942: 369 second feet, April 19. Gage height 2.45 feet.

Accuracy—Records considered fair. Discharge for periods of ice effect November 11-15, 1940, December 12-February 12, 1941, December 23-March 12, 1942, and for period of missing gage heights, April 25-27, June 13-18, July 10-August 24, 1942, were computed on basis of discharge measurement and weather records.

Diversions for irrigation above station. (Most of the flow is returned waste water from ditches.)

BOULDER CREEK NEAR ORODELL, COLORADO

Location—Water stage recorder in Sec. 34, T. 1 N., R. 71 W., $\frac{1}{4}$ mile downstream from Public Service power house, and 1 mile upstream from Four Mile Creek.

Drainage Area—105 square miles. Altitude 5,800 feet above mean sea level.

Records Available—August, 1887 to October, 1888, March, 1907 to December, 1914, February, 1916 to September 30, 1942. Prior to 1917 station maintained at site 1 mile downstream.

Maximum discharge during period 1887-1888, 1907-1914, 1916-1942: 2,500 second feet, June 6, 1921. Gage height 4.31 feet.

Maximum Discharge—Year 1941: 1,220 second feet, June 21. Gage height 3.86 feet.

Maximum Discharge—Year 1942; 793 second feet, June 12. Gage height 3.52 feet.

Accuracy—Records considered good except those for period December 1-February 28, 1941, and for period of no gage height June 23-28, 1941, December 22-January 10, 1942, February 6-11, 16-21, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for storage and irrigation above station. Flow regulated by Barker Meadow Reservoir, capacity 11,500 acre feet. Low water flow regulated by operation of power plant $\frac{1}{4}$ mile above station.

BOULDER CREEK AT MOUTH NEAR LONGMONT, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$, Sec. 17, T. 2 N., R. 68 W., $1\frac{1}{2}$ miles upstream from mouth and 5 miles southeast of Longmont.

Drainage Area—512 square miles.

Records Available—March 16, 1927 to September 30, 1942.

Maximum discharge during period 1927-1942; 4,410 second feet, September 3, 1938, from rating curve extended above 600 second feet. Gage height 6.94 feet.

Maximum Discharge—Year 1941; 738 second feet, June 22. Gage height 3.78 feet.

Maximum Discharge—Year 1942; 1,790 second feet, April 24. Gage height 4.81 feet.

Accuracy—Records considered good except those for periods of ice effect December 13 to February 12, 1941, December 22 to March 12, 1942, which were computed on basis of 3 discharge measurements, and weather records, and are fair.

Diversions for storage and irrigation above station.

SOUTH BOULDER CREEK NEAR ELDORADO SPRINGS, COLORADO

Location—Water stage recorder in Sec. 26, T. 1 S., R. 71 W., $1\frac{1}{4}$ miles west of Eldorado Springs, and 1 mile upstream from Community Ditch dam.

Drainage Area—114 square miles.

Records Available—May 15, 1895, September 30, 1901, July 1, 1904 to September 30, 1942. Station maintained at Marshall, 4 miles downstream, from 1895 to 1901, and at Eldorado Springs from 1904 to 1929. All records were corrected for diversions before publishing, making them comparable. The transmountain diversion of the Moffat Tunnel enters the basin; however, most of the water is diverted approximately $1\frac{1}{2}$ miles upstream from the station. Some of the water passes the gage. See Fraser River station records at Granby for amounts diverted from Colorado River basin into this drainage basin.

Maximum discharge during period 1888-1892, 1895-1901, 1904-1942; 7,390 second feet, September 2, 1938, by a slope area method. Gage height 9.24 feet from flood marks.

Maximum Discharge—Year 1941; 672 second feet, May 12. Gage height 4.20 feet.

Maximum Discharge—Year 1942; 913 second feet, May 13. Gage height 4.52 feet.

Accuracy—Records considered good except those for periods of ice effect November 21 to March 19, 1941, November 20-23, 1941, December 5 to April 16, 1942, which were computed on basis of 4 discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

BIG THOMPSON RIVER NEAR ESTES PARK, COLORADO

Location—Water stage recorder in Sec. 29, T. 5 N., R. 72 W., $1\frac{1}{2}$ miles east of village of Estes Park.

Drainage Area—158 square miles. Altitude 7,424 feet above mean sea level.

Records Available—June, 1930 to September 30, 1942. Prior to February, 1934, station was maintained $1\frac{1}{2}$ miles downstream. Records are comparable.

Maximum discharge during period 1930-1942; 1,590 second feet, June 16, 1935, from rating curve extended above 750 second feet. Gage height 5.54 feet.

Maximum Discharge—Year 1941; 1,170 second feet, July 14. Gage height 4.62 feet.

Maximum Discharge—Year 1942; 962 second feet, June 7. Gage height 4.27 feet.

Accuracy—Records considered excellent, except those for period of ice effect November 11, 1940 to March 25, 1941, and period of no gage height from March 25, 1941 to April 15, June 3-15, 1941, and November 7-12, November 20-April 28, 1942, and July 14, 15, September 25-28, 1942, which were computed on basis of discharge measurements, weather records, and which are fair.

Diversions for irrigation above station.

BIG THOMPSON RIVER BELOW POWER HOUSE NEAR DRAKE, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 7, T. 5 N., R. 70 W., $\frac{1}{4}$ mile below City of Loveland hydro-electric plant, and $4\frac{1}{2}$ miles east of Drake. Cedar Creek enters $\frac{1}{8}$ mile downstream.

Drainage Area—277 square miles.

Records Available—October 1, 1928 to September 30, 1942. During period 1917 to December, 1926, station at site 3 miles upstream. Records are comparable.

Maximum discharge during period 1929-1942; 1,950 second feet, June 14, 1935. Gage height 5.00 feet. Maximum known dis-

charge 8,000 second feet, July 31, 1919, from rating curve extended above 2,000 second feet. Gage height 9.5 feet, site and datum then in use.

Maximum Discharge—Year 1941; 1,110 second feet, June 22. Gage height 3.82 feet.

Maximum Discharge—Year 1942; 1,250 second feet, June 8. Gage height 4.00 feet.

Accuracy—Records considered good except those for period of no gage height August 1 and 10, 1941, December 24, 25, 1941, February 18, 1942, July 15, 16, 21, September 26, 27, 1942, which are fair.

Diversions for irrigation above station. Small reservoir above power plant, capacity 30 acre-feet.

BIG THOMPSON RIVER AT MOUTH OF CANYON NEAR DRAKE, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 10, T. 5 N., R. 70 W., just upstream from mouth of canyon, 450 feet upstream from Handy Ditch diversion dam, and 6 $\frac{1}{2}$ miles east of Drake. From 1917 to 1932 station was maintained at site $\frac{1}{2}$ mile upstream; records are equivalent.

Drainage Area—302 square miles.

Records Available—1917 to 1933, April 19, 1938 to September 30, 1942.

Maximum discharge during period 1917-1933, 1938-1942; 5,600 second feet, September 1, 1938, from rating curve extended above 1,100 second feet. Gage height 6.60 feet.

Maximum Discharge—Year 1941; 4,690 second feet, June 22. Gage height 6.02 feet.

Maximum Discharge—Year 1942; 3,730 second feet, June 7. Gage height 5.55 feet.

Accuracy—Records considered good except those for period of ice effect November 9, 1940 to March 18, 1941, March 22-26, November 18, 1941 to March 12, 1942, which were computed on basis of 4 discharge measurements, weather records and comparison with records for Big Thompson River below power house, and are fair.

Diversions for irrigation above station.

BIG THOMPSON RIVER AT MOUTH NEAR LA SALLE, COLORADO

Location—Water stage recorder SW $\frac{1}{4}$ Sec. 34, T. 5 N., R. 66 W., at first bridge across Big Thompson River 1 mile upstream from mouth and 4 miles west of La Salle.

Drainage Area—818 square miles.

Records Available—April 1 to November 30, 1914, March 1, 1927 to September 30, 1942.

Maximum discharge during period 1914, 1927-1942; 3,000 second feet, September 3, 1938, by slope area method. Gage height 7.31 feet.

Maximum Discharge—Year 1941; 955 second feet, June 23, from rating curve extended above 650 second feet. Gage height 4.57 feet.

Maximum Discharge—Year 1942; 578 second feet, May 3. Gage height 5.51 feet.

Accuracy—Records considered good. Those for period of ice effect December 14, 1940, and for period of no gage height February 15-22, 1941, May 12-17, December 24, 1941 to January 18, 1942, February 13-March 8, April 20-24, June 22-27, July 17, 1942, which were computed on basis of discharge measurements, weather records, and comparison of record of St. Vrain Creek near Platteville.

Diversions for irrigation above station. Flow regulated by several reservoirs above station.

CACHE LA POUUDRE RIVER AT MOUTH OF CANYON NEAR FT. COLLINS, COLORADO

Location—Water stage recorder in Sec. 15, T. 8 N., R. 70 W., at mouth of canyon, 3 miles downstream from intake of Ft. Collins water works and 11 miles west of Ft. Collins.

Drainage Area—1,048 square miles. Altitude 5,070 feet above mean sea level.

Records Available—June 20, 1881 to August 5, 1881, March 15, 1884 to September 30, 1942.

Maximum discharge during period 1884-1942; 10,200 second feet, May 31, 1930. Gage height 7.90 feet. Greatest maximum discharge known occurred May 20, 1904. Discharge not determined.

Maximum Discharge—Year 1941; 2,180 second feet, May 26. Gage height 4.08 feet.

Maximum Discharge—Year 1942; 3,300 second feet, June 12. Gage height 4.87 feet.

Accuracy—Records considered excellent, except those for period of ice effect December 13, 1940 to March 1, 1941, and from December 14, 1941 to March 16, 1942, which were computed on basis of 3 discharge measurements and weather records, and which are fair.

Diversions for irrigation above station. Transmountain diversions from the Colorado, Laramie, and Michigan Rivers enter above station. Flow of the stream is controlled by several reservoirs above station.

CACHE LA POUUDRE RIVER NEAR MOUTH NEAR GREELEY, COLORADO

Location—Water stage recorder in Sec. 2, T. 5 N., R. 65 W.,

2½ miles upstream from mouth at highway bridge, and 2 miles east of Greeley.

Drainage Area—1,840 square miles.

Records Available—March 24, 1903 to November 30, 1904, February 1, 1914 to December 17, 1919, and May 27, 1924 to September 30, 1942.

Maximum discharge during period 1903-04, 1914-19, 1924-42; 4,240 second feet, June 24 and 26, 1917. Gage height 7.30 feet, site and datum then in use.

Maximum Discharge—Year 1941; 154 second feet, August 27. Gage height 3.81 feet.

Maximum Discharge—Year 1942; 1,300 second feet, June 22. Gage height 6.57 feet.

Accuracy—Records considered good except those for period of missing gage heights July 3 to August 10, 1942, which were computed on basis of one discharge measurement, and are fair.

Diversions for irrigation above station.

NORTH FORK OF REPUBLICAN RIVER NEAR WRAY, COLORADO

Location—Water stage recorder in SE¼ of NW¼ Sec. 9, T. 1 N., R. 44 W., 2 miles upstream from Chief Creek and 3.3 miles west of Wray.

Records Available—March 23, 1937 to September 30, 1942.

Maximum discharge during period 1937-42; 270 second feet, July 13, 1938, from rating curve extended above 150 second feet. Gage height 9.82 feet.

Maximum Discharge—Year 1941; 161 second feet, August 19. Gage height 8.15 feet.

Maximum Discharge—Year 1942; 155 second feet, September 2. Gage height 8.30 feet.

Accuracy—Records considered good except those estimated for period November 5, 6, 13-18, 1940, January 16-22, February 10-13, August 21-25, October 10-13, December 30-31, 1941, January 1-13, June 1-11, 1942, which were computed on basis of discharge measurements, and which are fair.

Diversions for irrigation above station.

NORTH FORK OF REPUBLICAN RIVER AT COLORADO- NEBRASKA STATE LINE

Location—Water stage recorder in Sec. 10, T. 1 N., R. 42 W., 100 feet east of Colorado-Nebraska State line.

Zero of gage is 3,336.09 feet above mean sea level, datum of 1929.

Records Available—March, 1931 to September 30, 1942.

Maximum discharge during period 1931-1942; 1,220 second

feet, September 3, 1940, from rating curve extended above 340 second feet. Gage height 5.72 feet.

Maximum Discharge—Year 1941; 386 second feet, June 5. Gage height 3.36 feet.

Maximum Discharge—Year 1942; 224 second feet, September 2. Gage height 3.03 feet.

Accuracy—Records considered good except those for periods of ice effect November 10-18, December 12-21, 1940, December 25, 1941 to January 21, 1942, February 17-22, and for period of missing gage heights June 24 to July 2, 1941, July 20-30, August 13-18, 28, 29, 1941, which are fair.

Diversions for irrigation above station.

GRIZZLY CREEK NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 29, T. 8 N., R. 80 W., 10 miles south of Walden, and $\frac{1}{2}$ mile upstream from Little Grizzly Creek.

Drainage Area—252 square miles (revised).

Records Available—May, 1904 to October, 1905, May to September, 1923, October, 1926 to September 30, 1942.

Maximum discharge during period 1904-05, 1923, 1926-42; 1,340 second feet, June 10, 1923, from rating curve extended above 500 second feet. Gage height 4.8 feet.

Maximum Discharge—Year 1941; 395 second feet, May 5. Gage height 3.32 feet.

Maximum Discharge—Year 1942; 508 second feet, June 14. Gage height 3.95 feet.

Accuracy—Records considered good except those for period of no gage height June 13-24, 1941, which were computed on basis of records for North Platte River near Walden, and are fair.

Diversions for irrigation above station.

LITTLE GRIZZLY CREEK AT MOUTH NEAR HEBRON, COLORADO

Location—Water stage recorder in Sec. 32, T. 8 N., R. 80 W., 1 mile upstream from junction with Grizzly Creek and 3 miles north of Hebron.

Drainage Area—96 square miles.

Records Available—June, 1904 to October, 1905, June, 1931 to September 30, 1942.

Maximum discharge during period 1904-05, 1931-42; 592 second feet, June 11, 1905.

Maximum Discharge—Year 1941; 403 second feet, May 28. Gage height 4.24 feet.

Maximum Discharge—Year 1942; 504 second feet, June 13. Gage height 4.79 feet.

Accuracy—Records considered good except those for period of ice effect November 6, 1940, and for periods of missing gage heights April 21, 1941, May 1, 9-16, June 20-24, 1941, which were computed on basis of records for North Platte River near Walden, and Roaring Fork near Walden.

Diversions for irrigation above station.

ROARING FORK NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 11, T. 8 N., R. 81 W., at highway bridge 10 miles southwest of Walden.

Drainage Area—84 square miles. Zero of gage is 8,037.44 feet above mean sea level.

Records Available—May, 1904 to October, 1905, October, 1923 to September 30, 1942.

Maximum discharge during period 1904-05, 1923-42; 790 second feet, June 15, 1924. Gage height 3.73 feet.

Maximum Discharge—Year 1941; 413 second feet, July 20. Gage height 2.83 feet.

Maximum Discharge—Year 1942; 435 second feet, June 13. Gage height 2.93 feet.

Accuracy—Records considered good except for periods of no gage height record June 20-25, 1941, and June 2-7, 1942, which are fair.

Diversions for irrigation above station.

NORTH PLATTE RIVER NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 6, T. 8 N., R. 80 W., at highway bridge 8 miles southwest of Walden. Roaring Fork enters upstream from station.

Drainage Area—463 square miles (revised).

Records Available—May 13, 1904 to October 31, 1905, October 1, 1923 to September 30, 1942.

Maximum discharge during period 1904-05, 1923-42; 1,940 second feet, April 19, 1938. Gage height 5.74 feet.

Maximum Discharge—Year 1941; 879 second feet, May 28. Gage height 3.70 feet.

Maximum Discharge—Year 1942; 1,340 second feet, June 13. Gage height 4.71 feet.

Accuracy—Records considered good except those for periods of ice effect November 5-7, 1940, and no gage height record May 7-14, 1941, which are fair.

Diversions for irrigation above station.

NORTH PLATTE RIVER NEAR NORTHGATE, COLORADO

Location—Water stage recorder in Sec. 11, T. 11 N., R. 80 W., at highway bridge 6 miles south of Colorado-Wyoming State line, and 6 miles northwest of Northgate.

Drainage Area—1,440 square miles. Zero of gage 7,806.98 feet above mean sea level, adjustment of 1912.

Records Available—May to November, 1904, May, 1915 to September 30, 1942.

Maximum discharge during period 1904, 1915-42; 6,720 second feet, June 11, 1923, from rating curve extended above 4,500 second feet. Gage height 6.24 feet.

Maximum Discharge—Year 1941; 1,510 second feet, May 28. Gage height 3.09 feet.

Maximum Discharge—Year 1942; 3,160 second feet, June 14. Gage height 4.16 feet.

Accuracy—Records considered good except those for periods of ice effect November 7-10, 1940, November 12, 1940 to April 10, 1941, and November 13, 1941 to April 11, 1942, which were computed on basis of discharge measurements, weather records and comparison with lower station, and are fair.

Diversions for irrigation above station.

NORTH FORK OF NORTH PLATTE RIVER NEAR WALDEN, COLORADO

Location—Water stage recorder in Sec. 29, T. 9 N., R. 80 W., at Erickson Ranch, $\frac{1}{4}$ mile upstream from mouth and 7 miles west of Walden.

Drainage Area—168 square miles.

Records Available—October, 1923 to September, 1928, May, 1937 to September 30, 1942.

Maximum discharge during period 1923-28, 1937-42; 694 second feet, April 19, 1926, from rating curve extended above 400 second feet. Gage height 2.63 feet, former datum.

Maximum Discharge—Year 1941; 325 second feet, May 5. Gage height 2.29 feet.

Maximum Discharge—Year 1942; 404 second feet, June 13. Gage height 2.56 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

MICHIGAN RIVER NEAR LINDLAND, COLORADO

Location—Water stage recorder in Sec. 21, T. 7 N., R. 77 W., at highway bridge 3 miles southeast of Lindland, and 1 mile upstream from North Fork of Michigan River.

Drainage Area—62 square miles. Zero of gage 8,734.28 feet above mean sea level, adjustment of 1912.

Records Available—July 12, 1931 to September 30, 1941 (discontinued).

Maximum discharge during period 1931-41; 663 second feet, June 11, 1933, from rating curve extended above 370 second feet. Gage height 3.08 feet.

Maximum Discharge—Year 1941; 376 second feet, May 13. Gage height 2.06 feet.

Accuracy—Records considered good except those for period of no gage height record July 15-19, 1941, which are fair.

Diversions for irrigation above station and water is also diverted from headwaters into the Cache la Poudre River. Treasure Ditch diverts water to Owl Creek $1\frac{1}{2}$ miles above station.

MICHIGAN RIVER AT WALDEN, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 21, T. 9 N., R. 79 W., $\frac{1}{2}$ mile north of Walden, and $1\frac{1}{4}$ miles upstream from Illinois Creek.

Drainage Area—185 square miles. Zero of gage 8,044.87 feet above mean sea level, adjustment of 1912.

Records Available—May, 1904 to October 31, 1905, June 1, 1908 to July 26, 1918, May 1, 1923 to September 30, 1942.

Maximum discharge during period 1904-05, 1908-18, 1923-42; 1,070 second feet, June 10, 1923, from rating curve extended above 700 second feet. Gage height 3.3 feet.

Maximum Discharge—Year 1941; 252 second feet, May 15. Gage height 2.12 feet.

Maximum Discharge—Year 1942; 575 second feet, June 14. Gage height 2.99 feet.

Accuracy—Records considered good except those for period of ice effect November 6, and for periods of missing gage heights April 17, 18, 21-23, 1941, which are fair, and were computed on basis of records for station near Lindland.

Diversions for irrigation above station.

MICHIGAN RIVER NEAR COWDREY, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 11, T. 10 N., R. 80 W., 1 mile upstream from mouth and $1\frac{1}{2}$ miles west of Cowdrey.

Drainage Area—480 square miles (revised). Zero of gage 7,878.28 feet above mean sea level, adjustment of 1912.

Records Available—May, 1904 to October, 1905, May, 1937 to September 30, 1942.

Maximum discharge during period 1904-05, 1937-42; 925 second feet, April 19, 1938. Gage height 3.40 feet.

Maximum Discharge—Year 1941; 265 second feet, June 10. Gage height 2.51 feet.

Maximum Discharge—Year 1942; 858 second feet, June 14. Gage height 3.86 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

ILLINOIS CREEK AT WALDEN, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 29, T. 9 N., R. 79 W., $\frac{1}{2}$ mile southwest of Walden. Prior to July 1, 1937, station located 350 feet upstream at different datum.

Drainage Area—259 square miles. Zero of gage is 8,038.80 feet above mean sea level, adjustment of 1912.

Records Available—May 1, 1917 to August 31, 1918, and May 1, 1923 to September 30, 1942.

Maximum discharge during period 1917-18, 1923-42; 2,520 second feet, May 28, 1926. Gage height 6.40 feet, former site and datum.

Maximum Discharge—Year 1941; 215 second feet, June 26. Gage height 2.64 feet.

Maximum Discharge—Year 1942; 438 second feet, June 14. Gage height 3.59 feet.

Accuracy—Records considered good except those for period of missing gage heights October 8 to 31, 1941, which were estimated on basis of record for North Platte River at Northgate.

Diversions for irrigation above station.

CANADIAN RIVER AT COWDREY, COLORADO

Location—Water stage recorder in Sec. 6, T. 10 N., R. 79 W., 1,000 feet upstream from Government Creek, and $\frac{1}{2}$ mile north of Cowdrey. Prior to November 15, 1931, recorder 600 feet upstream at different datum. One small diversion between these two sites.

Drainage Area—174 square miles (revised). Zero of gage is 7,869.54 feet above mean sea level, adjustment of 1912.

Records Available—May, 1904 to October, 1905, May, 1929, to November, 1931, May, 1937 to September 30, 1942.

Maximum daily discharge during period 1904-1905, 1929-1931, 1937-1942; 600 second feet, June 10, 1905.

Maximum Discharge—Year 1941; 296 second feet, June 17. Gage height 3.90 feet.

Maximum Discharge—Year 1942; 365 second feet, June 14. Gage height 4.13 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

LARAMIE RIVER NEAR GLENDEVEY, COLORADO

Location—Water stage recorder in Sec. 25, T. 10 N., R. 76 W., just downstream from mouth of Nunn Creek and upstream from Stub Creek at Sholine Ranch, and $1\frac{1}{2}$ miles north of present location of Glendevey postoffice.

Drainage Area—101 square miles.

Records Available—June 24, 1904 to October 31, 1905, August 18, 1910 to September 30, 1942.

Maximum discharge during period 1904-1905, 1910-1942; 2,240 second feet, June 9, 1923, from rating curve extended above 1,350 second feet. Gage height 4.55 feet, site and datum then in use.

Maximum Discharge—Year 1941; 628 second feet, June 25. Gage height 3.70 feet.

Maximum Discharge—Year 1942; 720 second feet, June 12. Gage height 3.72 feet.

Accuracy—Records considered good.

Diversions above station for irrigation include two large transmountain diversions into Cache la Poudre River.

LARAMIE RIVER NEAR JELM, WYOMING

Location—Water stage recorder in Sec. 15, T. 12 N., R. 77 W., $\frac{1}{4}$ mile north of Colorado-Wyoming State line, $\frac{1}{2}$ mile upstream from Johnson Creek and 4 miles south of Jelm.

Drainage Area—297 square miles. Zero of gage is 7,685.32 feet above mean sea level, adjustment of 1912.

Records Available—June, 1904 to October, 1905, May 7, 1911 to September 30, 1942.

Maximum discharge during period 1904-1905, 1911-1942; 4,200 second feet, June 9, 1923. Gage height 4.15 feet.

Maximum Discharge—Year 1941; 1,030 second feet, May 14. Gage height 3.11 feet.

Maximum Discharge—Year 1942; 1,830 second feet, June 13. Gage height 3.89 feet.

Accuracy—Records considered excellent except those for September 1-30, 1941, which are good, and those for periods of ice effect November 5-7, 1940, November 11, 1940, to April 9, 1941, November 8, 1941, to April 12, 1942, which are fair.

Diversions for irrigation above station.

**Discharge of South Platte River Above 11-Mile Canon Reservoir Near Hartsel, Colo., for
Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	28	4.0	.....	.....	.....	.....	56	128	200	218	173	80
2....	28	4.0	.....	.....	.....	.....	63	128	247	268	153	76
3....	27	6.0	.....	.....	.....	.....	70	126	220	290	137	62
4....	21	8.0	.....	.....	.....	.....	78	128	336	242	124	55
5....	19	10	.....	.....	.....	.....	90	105	411	227	137	59
6....	18	12	.....	.....	.....	.....	120	81	341	218	111	56
7....	14	15	.....	.....	.....	.....	150	58	303	196	124	50
8....	10	18	.....	.....	.....	.....	145	40	334	190	132	70
9....	6.7	*20	.....	.....	.....	.....	120	23	330	203	147	94
10....	5.3	.....	.....	.....	.....	.....	114	14	260	258	153	115
11....	4.2	.....	.....	.....	.....	.....	115	12	235	251	173	99
12....	3.6	.....	.....	.....	.....	.....	115	10	213	324	153	85
13....	3.7	.....	.....	.....	.....	.....	115	10	202	294	257	76
14....	3.9	.....	.....	.....	.....	.....	116	23	183	247	215	71
15....	3.8	.....	.....	.....	.....	.....	122	68	193	218	233	69
16....	3.8	.....	.....	.....	.....	.....	131	66	255	137	238	66
17....	3.6	.....	.....	.....	.....	.....	131	34	305	100	235	61
18....	3.5	.....	.....	.....	.....	.....	120	32	350	95	206	57
19....	3.5	.....	.....	.....	.....	.....	95	59	400	129	180	56
20....	3.5	.....	.....	.....	.....	.....	76	77	409	235	166	55
21....	4.0	.....	.....	.....	.....	.....	54	79	400	242	155	56
22....	5.0	.....	.....	.....	.....	.....	64	60	398	236	190	53
23....	8.0	.....	.....	.....	.....	.....	71	112	392	218	196	92
24....	11	.....	.....	.....	.....	.....	108	108	411	196	163	115
25....	9.3	.....	.....	.....	.....	.....	138	70	553	188	173	110
26....	7.1	.....	.....	.....	.....	.....	144	53	515	218	121	103
27....	7.1	.....	.....	.....	.....	.....	173	61	473	249	106	98
28....	7.0	.....	.....	.....	.....	.....	227	93	392	272	95	93
29....	6.0	.....	.....	.....	.....	.....	280	128	313	247	90	96
30....	4.0	Nov. 1	.....	.....	.....	.....	190	162	257	227	90	98
31....	4.0	to 9	.....	.....	.....	.....	.....	151	.....	193	84	.....
Total	286.6	97	.....	.....	.....	.....	3591	2299	9831	6826	4910	2326
Mean.	9.25	10.8	.....	.....	.....	.....	120	74.2	328	220	158	77.5
Max....	28	20	.....	.....	.....	.....	280	162	553	324	257	115
Min....	3.5	4	.....	.....	.....	.....	54	10	183	95	84	50
Acre-ft.	568	192	.....	.....	.....	.....	7120	4560	19500	13540	9740	4610

Total run-off for period=59,830 acre-feet.

**Discharge of South Platte River Above 11-Mile Canon Reservoir Near Hartsel, Colo., for
Year Ending Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	94	61	.....	.....	.....	.....	.....	94	168	132	240	51
2....	93	59	.....	.....	.....	.....	.....	88	195	193	334	57
3....	109	56	.....	.....	.....	.....	.....	102	225	193	456	67
4....	156	58	.....	.....	.....	.....	.....	135	250	144	356	51
5....	183	64	.....	.....	.....	.....	.....	118	280	136	260	37
6....	149	59	.....	.....	.....	.....	.....	98	300	151	231	41
7....	125	52	.....	.....	.....	.....	.....	84	340	174	216	41
8....	110	51	.....	.....	.....	.....	.....	90	370	207	207	41
9....	108	49	.....	.....	.....	.....	.....	98	392	242	188	41
10....	99	65	.....	.....	.....	.....	.....	105	350	266	184	37
11....	92	60	.....	.....	.....	.....	.....	110	304	288	182	35
12....	89	55	.....	.....	.....	.....	.....	111	260	227	184	35
13....	88	58	*16	.....	.....	.....	Apr. 15	111	320	195	146	35
14....	105	48	.....	.....	.....	.....	to 30	107	340	182	105	33
15....	138	56	.....	.....	.....	.....	334	99	290	195	103	29
16....	143	52	.....	.....	.....	.....	186	93	244	231	95	26
17....	136	48	.....	.....	.....	.....	123	89	231	271	87	27
18....	116	49	.....	.....	.....	.....	119	81	308	290	85	27
19....	105	54	.....	.....	.....	.....	109	79	396	295	83	27
20....	99	48	.....	.....	.....	.....	140	75	359	227	79	33
21....	108	39	.....	.....	.....	.....	199	73	297	159	77	33
22....	143	Nov. 1	.....	.....	.....	.....	165	69	212	144	75	31
23....	115	to 21	.....	.....	.....	.....	218	67	161	140	81	31
24....	128	.....	.....	.....	.....	.....	195	77	142	153	87	27
25....	109	.....	.....	.....	.....	.....	176	83	132	159	77	26
26....	105	.....	.....	.....	.....	.....	178	101	115	195	75	24
27....	84	.....	.....	.....	.....	.....	157	153	107	201	71	24
28....	79	.....	.....	.....	.....	.....	152	200	99	212	67	24
29....	74	.....	.....	.....	.....	.....	115	190	89	246	61	24
30....	72	.....	.....	.....	.....	.....	108	172	111	199	51	24
31....	76	.....	.....	.....	.....	.....	.....	169	.....	184	45	.....
Total	3430	1141	.....	.....	.....	.....	2654	3321	7387	6231	4588	1039
Mean.	111	54.3	.....	.....	.....	.....	166	107	246	201	148	34.6
Max....	183	.....	.....	.....	.....	.....	.....	200	396	295	456	67
Min....	72	.....	.....	.....	.....	.....	.....	67	89	132	45	24
Acre-ft.	6800	2260	.....	.....	.....	.....	5260	6590	14650	12360	9100	2060

Total run-off for period=59,080 acre-feet.

*Discharge measurement made on this date.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of South Platte River Below 11-Mile Canon Reservoir, Near Lake George, Colo.,
for Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.0	4.8	5.2	3.6	7.5	7.5	27	308	132	256	190	44
2....	0.9	4.8	5.2	3.6	7.5	7.5	53	179	175	196	137	44
3....	0.8	4.4	3.6	3.6	7.5	7.5	53	149	262	238	86	44
4....	1.9	4.4	3.6	3.6	7.5	7.5	53	124	318	259	76	44
5....	0.8	8.5	3.6	3.6	7.5	7.5	145	109	421	229	106	44
6....	1.0	14	3.6	3.6	7.5	7.5	342	100	374	222	188	47
7....	1.0	14	3.6	7.0	7.5	7.5	396	65	332	189	171	50
8....	1.6	14	3.6	7.0	7.5	7.5	346	36	276	168	144	50
9....	1.9	12	3.6	7.0	7.5	7.5	165	24	313	169	129	50
10....	1.9	4.8	3.6	7.0	7.5	7.5	165	12	306	234	155	82
11....	1.9	4.8	3.6	7.0	7.5	7.5	167	12	232	241	149	107
12....	1.9	4.8	3.6	7.0	7.5	7.5	185	12	165	268	155	98
13....	1.9	4.8	3.6	7.0	7.5	7.5	193	12	179	317	242	61
14....	1.9	4.8	3.6	7.0	7.5	7.5	208	12	189	282	282	63
15....	1.9	4.8	3.6	7.0	7.5	7.5	216	31	154	185	281	63
16....	1.9	4.8	3.6	7.0	7.5	7.5	176	40	171	146	250	86
17....	1.9	4.8	3.6	7.0	7.5	7.5	155	17	287	72	229	85
18....	1.9	4.8	3.6	7.0	7.5	7.5	97	13	381	27	229	66
19....	1.9	4.8	3.6	7.0	7.5	7.5	61	13	415	27	174	53
20....	1.9	4.8	3.6	7.0	7.5	7.5	34	12	415	132	146	56
21....	1.9	4.8	3.6	7.0	7.5	7.5	35	22	415	242	146	56
22....	1.9	4.8	3.6	7.0	7.5	7.5	35	37	390	254	188	55
23....	1.9	5.2	3.6	7.0	7.5	7.5	36	67	372	226	205	76
24....	1.9	5.2	3.6	7.0	7.5	7.5	44	105	385	198	204	110
25....	1.9	5.2	3.6	7.0	7.5	12	51	83	405	157	162	120
26....	2.8	5.2	3.6	7.5	7.5	12	105	109	463	167	118	115
27....	2.8	5.2	3.6	7.5	7.5	17	164	106	485	192	116	103
28....	4.0	5.2	3.6	7.5	7.5	27	172	75	469	252	82	95
29....	4.8	5.2	3.6	7.5	....	27	310	110	340	274	83	105
30....	5.2	5.2	3.6	7.5	....	27	465	132	248	236	65	85
31....	4.8	....	3.6	7.5	....	27	....	132	....	218	40	....
Total	65.7	184.9	114.8	1996	210.0	329.0	4654	2258	9469	6273	4928	2167
Mean.	2.12	6.16	3.70	6.44	7.5	10.6	155	72.8	316	202	159	72.2
Max..	5.2	14	5.2	7.5	7.5	27	465	308	485	317	282	120
Min..	0.8	4.4	3.6	3.6	7.5	7.5	27	12	132	27	40	44
Acre-ft.	130	367	228	396.0	417	653	9230	4480	18780	12440	9770	4300

Total run-off for water year=61,190 acre-feet.

**Discharge of South Platte River Below 11-Mile Canon Reservoir Near Lake George, Colo.,
Year Ending Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	85	49	20	14	10	10	18	145	151	144	200	61
2....	85	43	20	14	10	11	19	146	164	149	238	61
3....	91	36	21	16	10	11	23	146	179	158	281	60
4....	133	31	21	17	10	11	26	144	199	160	300	63
5....	168	22	21	17	10	11	38	146	211	157	297	65
6....	153	23	21	17	9.0	11	52	134	220	153	284	65
7....	131	25	21	17	9.0	11	64	136	235	151	271	60
8....	101	26	21	17	8.5	11	88	133	268	158	258	57
9....	100	26	20	16	8.0	11	100	134	298	172	244	56
10....	96	26	20	16	8.0	12	117	136	306	190	234	52
11....	87	26	20	16	8.0	12	172	136	297	211	223	50
12....	87	27	20	14	8.0	12	306	141	290	216	220	47
13....	86	22	21	12	8.0	12	506	138	306	211	210	48
14....	92	15	19	12	8.0	12	630	128	323	206	200	46
15....	129	14	19	12	8.0	12	648	120	317	200	185	43
16....	134	17	20	12	8.0	12	571	114	303	202	169	42
17....	132	18	20	12	8.0	12	479	106	289	211	155	46
18....	118	20	20	12	8.0	12	427	101	281	226	142	39
19....	102	21	20	10	8.0	14	487	94	295	236	132	39
20....	96	21	19	10	8.0	14	608	90	298	236	122	38
21....	102	21	15	10	8.0	12	566	86	301	226	113	38
22....	138	21	16	10	8.0	12	610	81	290	214	104	38
23....	118	21	16	10	9.0	12	214	81	276	202	101	37
24....	108	21	16	10	9.0	12	79	80	254	190	98	36
25....	126	19	14	10	9.0	17	101	79	232	183	95	34
26....	121	18	15	10	10	18	116	81	210	181	91	31
27....	108	18	15	11	10	18	127	88	189	186	85	27
28....	92	18	16	10	10	18	133	102	171	192	80	27
29....	82	18	16	11	....	18	134	115	154	205	74	25
30....	78	20	16	11	....	18	140	126	149	202	69	26
31....	69	....	14	11	....	18	....	136	....	199	63	....
Total	3348	703	573	397	245.5	407	7608	3623	7456	5927	5338	1358
Mean.	108	23.4	18.5	12.8	8.77	13.1	254	117	249	191	172	45.3
Max..	168	49	21	17	10	18	648	146	323	236	300	65
Min..	69	14	14	10	8	10	18	79	149	144	63	26
Acre-ft.	6641	1394	1137	787	487	807	15090	7186	14790	11760	10590	2694

Total run-off for water year=73,350 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River Above Lake Cheesman, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	14					70	649	237	312	304	38
2	24	15					100	342	256	288	240	79
3	20	14					150	280	488	212	161	70
4	17	14					200	352	500	334	105	68
5	19	13					320	246	852	347	123	58
6	19	13					432	181	733	300	144	83
7	16	16					442	177	775	280	256	40
8	14	24					494	125	565	234	208	85
9	13	23					263	95	621	218	212	85
10	13	24					179	99	733	221	227	109
11	11	16					205	91	579	320	215	166
12	11	12					224	89	370	356	205	172
13	9.8	12					292	95	273	482	270	159
14	10	13					312	107	329	448	470	100
15	11	13					266	131	304	277	524	98
16	13	13					249	150	304	175	380	105
17	12	12					200	125	415	142	400	100
18	12	12					202	95	524	95	370	78
19	13	12					138	91	649	56	300	73
20	11	14					95	107	621	70	175	70
21	9.8	11					77	127	621	246	183	70
22	9.8	11					79	142	621	300	227	109
23	10	11					83	183	565	292	280	129
24	9.8	11					81	202	600	260	300	136
25	9.8	11					101	246	635	221	263	183
26	12	11					123	192	782	202	186	164
27	13	10					221	177	754	210	114	93
28	13	10					334	168	782	292	170	131
29	12	10					432	188	691	385	74	125
30	13	10					719	224	320	375	133	148
31	15							224		352	103	
Total	432.0	402	310	372	420	930	7083	5700	16499	8302	7352	3115
Mean.	13.9	13.4	10.0	12.0	15.0	30.0	236	184	550	268	237	104
Max.	36	24					719	649	852	482	524	183
Min.	9.8	10					70	89	237	56	74	38
Ac-ft.	857	797	615	738	833	1840	14050	11310	32730	16470	14580	6180

Total run-off for water year=101,000 acre-feet.

Discharge of South Platte River Above Lake Cheesman, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	99	121				12	27	831	375	237	246	131
2	119	97				12	37	796	380	270	296	157
3	133	89				12	43	782	448	370	656	131
4	146	103				12	121	817	500	304	817	121
5	215	93				12	99	831	537	253	537	125
6	215	49				12	103	761	558	227	415	131
7	208	48				12	121	761	600	221	370	119
8	200	48				12	113	761	719	224	356	111
9	157	70				12	155	775	660	230	338	117
10	97	63				12	237	747	530	260	320	107
11	142	61				12	390	726	482	324	300	105
12	133	61				19	614	712	494	329	300	103
13	136	74				18	782	663	719	296	296	91
14	142	63				19	915	656	768	280	370	93
15	153	Nov. 1				19	922	565	733	273	300	91
16	186	to 14				19	796	506	628	284	249	87
17	188					19	782	437	586	284	227	87
18	177					19	719	395	544	296	202	89
19	175					22	621	375	432	375	192	89
20	148					22	649	370	448	488	177	83
21	157					19	901	365	544	352	170	81
22	177					29	1240	342	512	312	177	81
23	230					22	1580	360	437	284	175	81
24	200					26	1220	400	420	237	170	79
25	205					29	960	390	400	212	170	77
26	227					26	824	420	365	198	168	77
27	200					27	810	437	316	198	164	72
28	202					27	824	482	292	218	157	64
29	123					48	845	464	243	260	150	64
30	159					29	873	385	253	240	140	61
31	138					37		380		237	131	
Total	5197	1040				627	18323	17692	14923	8573	8736	2905
Mean.	168	74.3				20.2	611	571	497	277	282	96.8
Max.	230					48	1580	831	768	488	817	157
Min.	97					12	27	342	243	198	131	61
Ac-ft.	10310	2060				1240	36340	35090	29600	17060	17330	5760

Total run-off for period=154,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River Below Lake Cheesman, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	80	15	26	16	15	13	13	820	177	49	406	123
2.....	72	19	26	16	15	13	13	518	181	131	341	329
3.....	60	19	26	16	15	13	13	134	275	253	242	329
4.....	51	19	26	16	15	13	13	53	476	293	164	332
5.....	47	19	25	16	15	13	30	53	673	364	143	370
6.....	47	19	25	16	16	13	23	53	649	354	220	374
7.....	41	24	25	16	16	13	13	53	314	317	645	302
8.....	37	31	25	16	16	13	13	169	111	296	720	160
9.....	37	31	25	16	16	13	13	329	54	272	708	173
10.....	37	31	25	16	16	13	13	329	54	258	653	173
11.....	36	43	23	16	15	13	92	160	55	323	704	181
12.....	34	55	18	16	14	13	217	85	57	434	676	230
13.....	34	47	18	16	14	13	281	85	58	560	434	237
14.....	29	28	18	16	13	13	444	76	58	614	522	224
15.....	27	26	18	16	13	13	402	114	58	514	680	156
16.....	27	26	18	16	13	13	299	384	58	367	641	102
17.....	22	26	18	16	13	13	250	374	59	266	495	98
18.....	18	23	17	16	13	13	96	374	59	203	469	87
19.....	16	16	16	16	13	13	19	314	111	269	469	108
20.....	13	19	16	16	13	13	14	217	370	375	329	114
21.....	19	25	16	16	13	13	60	269	430	375	192	96
22.....	25	25	16	16	13	13	101	320	462	378	220	90
23.....	25	25	16	16	13	13	118	412	575	381	335	152
24.....	25	26	16	15	13	13	131	437	488	341	370	242
25.....	25	26	16	15	13	13	133	437	488	329	351	256
26.....	25	26	16	15	13	13	133	437	492	296	258	299
27.....	24	26	16	15	13	13	261	406	661	305	160	149
28.....	17	26	16	15	13	13	451	314	773	344	162	84
29.....	13	26	16	15	.....	13	626	253	645	440	196	110
30.....	13	26	16	15	.....	13	888	175	184	492	143	145
31.....	13	.....	16	15	.....	13	.....	177	.....	440	116	.....
Total	989	793	610	487	393	403	5173	8331	9105	10633	12164	5825
Mean.	31.9	26.4	19.7	15.7	14.0	13.0	172	269	304	343	392	194
Max.	80	55	26	16	16	13	888	820	773	614	720	374
Min.	13	15	16	15	13	13	13	53	54	49	116	84
Ac.-ft.	1960	1570	1210	966	780	799	10260	16520	18060	21090	24130	11550

Total run-off for water year—108,900 acre-feet.

Discharge of South Platte River Below Lake Cheesman, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	154	54	19	21	22	16	25	1180	894	384	306	333
2.....	136	34	20	21	22	18	25	1140	885	375	360	372
3.....	128	33	20	21	22	18	23	1070	912	456	626	463
4.....	160	33	20	21	22	17	23	1110	921	420	793	400
5.....	227	33	19	20	23	18	26	1160	908	572	640	357
6.....	232	33	19	20	22	18	143	1090	880	339	476	357
7.....	247	34	19	20	22	18	210	1080	880	321	416	331
8.....	240	34	19	20	22	19	203	1100	978	318	393	204
9.....	287	33	19	20	22	19	326	1140	1080	318	366	144
10.....	208	33	20	20	20	22	426	1130	1190	333	342	121
11.....	136	33	20	20	21	19	732	1160	982	390	339	121
12.....	160	33	20	20	21	20	955	1180	741	420	321	125
13.....	199	33	20	20	21	20	1100	1100	871	390	333	133
14.....	293	25	20	20	20	20	1220	1040	978	381	387	152
15.....	293	20	20	20	20	20	1210	946	935	363	360	152
16.....	293	19	20	20	20	21	1180	860	823	366	345	152
17.....	293	19	20	20	20	22	1020	786	767	366	393	159
18.....	293	19	20	20	20	22	982	732	728	378	436	152
19.....	278	19	20	20	20	22	946	720	662	416	490	142
20.....	250	19	21	22	19	22	986	716	612	532	443	140
21.....	222	19	21	22	19	23	1240	716	640	483	449	140
22.....	234	19	21	22	19	23	1820	728	662	393	294	145
23.....	308	19	21	22	19	23	2840	776	616	360	318	142
24.....	398	19	21	22	19	23	2050	849	567	321	354	114
25.....	398	19	20	22	19	24	1920	876	532	300	357	114
26.....	290	19	20	22	18	24	1330	917	490	270	288	113
27.....	290	19	21	22	18	24	1280	935	433	260	249	112
28.....	290	19	21	22	18	25	1230	978	403	270	300	91
29.....	266	19	21	22	.....	25	1220	1010	378	303	300	78
30.....	175	19	21	22	.....	25	1260	935	397	306	249	86
31.....	175	.....	21	22	.....	25	.....	908	.....	306	381	.....
Total	7553	783	624	648	572	654	27951	30068	22745	11210	12104	5645
Mean.	244	26.1	20.1	20.9	20.4	21.1	932	970	758	362	390	188
Max.	398	54	21	22	23	25	2840	1180	1190	532	793	463
Min.	128	19	19	20	18	17	23	716	378	260	249	78
Ac.-ft.	14980	1550	1240	1290	1130	1300	55440	59640	45110	22230	24010	11200

Total run-off for water year—239,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at South Platte, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	196	93	93	78	66	88	130	1310	937	410	550	269
2....	184	98	92	76	66	92	119	965	846	505	485	402
3....	163	107	90	74	66	90	112	825	853	616	406	437
4....	148	108	93	73	67	86	110	582	1130	616	333	424
5....	143	94	82	74	68	80	120	560	1240	695	284	460
6....	155	97	89	78	68	77	141	535	1520	689	326	465
7....	151	104	86	82	67	73	120	515	1080	599	621	428
8....	141	107	93	89	65	67	112	594	930	588	874	373
9....	143	106	84	100	66	62	111	874	665	577	846	369
10....	157	106	92	96	68	60	117	874	588	545	790	419
11....	148	82	70	92	69	61	131	846	560	577	860	428
12....	143	98	73	91	70	63	291	818	510	758	923	465
13....	136	84	69	90	69	61	330	1000	495	797	707	394
14....	136	75	67	87	66	64	428	1130	515	846	643	381
15....	130	102	63	84	66	74	515	993	572	784	846	330
16....	126	120	60	81	66	81	390	777	594	701	853	258
17....	123	120	60	79	67	83	390	1080	626	550	725	253
18....	116	114	64	81	67	89	313	1230	665	490	671	233
19....	114	103	*73	87	66	100	189	1050	665	410	643	235
20....	110	76	79	90	66	108	153	832	902	390	566	253
21....	107	83	84	88	69	114	151	797	965	402	437	237
22....	115	97	91	78	72	119	240	867	965	520	428	303
23....	119	102	90	72	75	111	269	972	1090	545	510	323
24....	120	99	84	62	82	108	307	1040	1030	510	535	303
25....	120	97	81	59	81	94	310	1050	1150	520	510	344
26....	119	95	80	59	89	84	337	1180	1070	540	450	414
27....	120	78	83	62	78	95	410	1230	1090	550	355	362
28....	122	93	86	*63	80	93	665	1060	1270	566	313	221
29....	106	99	84	65	....	99	902	944	1100	638	355	233
30....	106	99	83	66	....	111	1130	853	744	660	344	269
31....	106	....	81	67	....	116	....	895	....	604	278	....
Total	4123	2936	2499	2423	1955	2703	9043	28278	26367	18198	17467	10285
Mean.	133	97.9	80.6	78.2	63.8	87.2	301	912	879	587	563	343
Max.	196	120	93	100	82	119	1130	1310	1520	846	923	465
Min.	106	75	60	59	65	60	110	515	495	390	278	221
Ac.-ft.	8180	5820	4960	4810	3880	5360	17940	56090	52300	36100	34650	20400

Total run-off for water year=250,500 acre feet.

Discharge of South Platte River at South Platte, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	284	281	150	93	81	96	165	3760	2200	1560	604	599
2....	272	237	134	98	86	106	184	3870	2240	1470	764	671
3....	278	226	141	93	96	102	240	3660	2140	1420	1200	713
4....	310	210	138	84	101	93	310	3740	2230	1360	1450	695
5....	419	205	107	82	*100	105	344	4000	2140	1280	1280	510
6....	355	212	98	*84	97	*110	455	3930	2220	1170	970	490
7....	398	203	131	88	98	100	428	3990	2250	1120	836	460
8....	362	178	116	92	108	100	351	4020	2530	1080	784	437
9....	381	208	115	97	105	111	480	4040	2510	1040	744	369
10....	381	203	115	107	96	119	572	3990	2430	1040	701	300
11....	269	182	111	104	84	117	890	3990	2390	1050	665	307
12....	256	175	108	97	87	108	1320	3860	2240	1010	643	333
13....	294	191	98	94	91	103	1510	3490	2340	932	616	326
14....	362	180	104	92	86	101	1700	3330	2350	1000	677	323
15....	424	173	104	88	83	101	1860	2980	2230	932	707	313
16....	410	169	115	85	76	107	1820	2670	2100	948	599	300
17....	442	167	110	83	74	110	1700	2430	2130	925	671	269
18....	428	165	106	81	70	110	1830	2210	2130	955	683	281
19....	410	150	105	82	70	107	2220	2060	2040	1020	842	275
20....	381	114	107	87	80	104	2180	1960	1930	1100	751	275
21....	362	104	116	93	90	119	2670	1880	1950	1080	777	266
22....	373	107	107	98	88	130	3280	1900	2060	911	621	264
23....	495	105	100	96	83	140	4770	1970	2000	816	555	281
24....	632	125	102	92	78	140	4440	2000	1900	784	638	242
25....	599	145	108	90	75	138	3820	2100	1780	719	626	233
26....	604	175	100	90	80	133	3890	2460	1670	643	572	230
27....	550	165	94	94	82	123	3820	2790	1590	610	480	228
28....	510	159	90	96	84	111	3640	2370	1470	610	490	224
29....	480	155	93	94	....	....	129	3710	2450	1370	707	520
30....	390	159	93	87	....	*139	4050	2280	1470	654	455	189
31....	351	....	94	80	....	....	150	....	....	604	566	....
Total	12462	5228	3415	2821	2429	3562	58649	92360	62030	30550	22487	10597
Mean.	402	174	110	91.0	86.8	115	1955	2979	2068	985	725	353
Max.	632	281	150	107	108	150	4770	4040	2530	1560	1450	713
Min.	256	104	90	80	70	93	165	1880	1370	604	455	189
Ac.-ft.	24720	10370	6770	5600	4820	7070	116300	183200	123000	60600	44600	21020

Total run-off for water year=608,100 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Waterton, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.7	23	13	5.4	5.0	3.9	95	764	564	195	385	184
2....	4.7	29	12	6.9	4.2	3.6	90	531	526	274	356	138
3....	4.2	44	17	11	3.3	3.0	74	456	488	346	300	132
4....	3.0	67	7.3	11	2.0	3.0	72	274	682	266	241	120
5....	13	60	6.5	4.4	3.0	5.8	77	253	758	342	180	138
6....	35	52	9.5	14	2.5	4.2	115	241	967	287	199	148
7....	37	64	8.4	60	2.0	3.0	100	241	688	300	216	158
8....	26	72	6.9	44	2.0	4.2	85	245	660	346	429	249
9....	37	95	5.8	57	1.8	5.0	82	466	526	332	412	296
10....	46	100	6.5	46	2.2	6.9	85	445	461	318	332	346
11....	29	57	4.2	52	2.0	6.9	23	439	483	318	356	351
12....	26	75	6.1	44	2.5	5.4	6.1	366	472	429	472	375
13....	22	74	39	35	2.2	9.5	7.3	510	504	412	637	323
14....	16	52	37	52	2.2	13	82	510	499	423	515	296
15....	11	54	44	39	2.5	11	161	483	526	346	648	262
16....	8.0	86	13	38	2.0	9.5	90	337	526	262	722	164
17....	8.0	112	19	37	2.2	7.3	35	504	542	164	609	151
18....	6.1	95	29	40	2.0	7.3	44	648	483	172	542	142
19....	13	103	19	41	3.6	8.0	26	526	375	132	531	129
20....	48	46	15	45	3.0	16	20	361	537	154	483	154
21....	20	31	13	43	2.0	22	12	361	609	241	366	142
22....	13	20	9.5	43	2.2	37	8.8	385	592	342	342	151
23....	15	19	5.8	40	3.3	20	11	564	643	380	418	154
24....	11	17	6.1	40	2.8	28	11	609	604	380	456	145
25....	6.9	25	6.5	40	2.8	67	11	615	676	402	423	158
26....	6.1	16	6.5	46	2.8	48	15	746	637	396	385	216
27....	5.8	23	5.0	25	3.0	64	72	824	632	402	145	151
28....	8.4	29	5.0	11	4.2	52	266	699	764	396	60	44
29....	4.4	23	5.0	6.9	....	52	346	626	654	445	109	62
30....	13	20	4.7	8.4	....	70	515	537	423	488	85	95
31....	29	....	4.7	3.9	....	87	....	542	....	450	67	....
Total	530.3	1583	390.0	989.9	75.3	683.5	2642.2	15108	17501	10240	11421	5574
Mean.	17.1	52.8	12.6	31.9	2.69	22.0	88.1	487	533	330	368	186
Max..	48	112	44	60	5.0	87	515	824	967	488	722	375
Min..	3.0	16	4.2	3.9	1.8	3.0	6.1	241	375	132	60	44
Ac.-ft.	1050	3140	774	1960	149	1360	5240	29970	34710	20310	22650	11060

Total run-off for water year=132,400 acre-feet.

Discharge of South Platte River at Waterton, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	87	261	69	30	14	30	132	3690	2540	760	375	264
2....	62	192	47	20	17	39	154	3690	2530	802	440	309
3....	67	177	69	20	13	40	207	3550	2330	795	712	276
4....	90	160	75	15	12	42	286	3500	2460	774	870	260
5....	200	157	30	15	12	44	354	3670	2280	712	726	260
6....	154	157	26	10	11	45	466	3610	2340	660	480	272
7....	200	148	51	9.6	13	38	472	3690	2360	654	380	264
8....	157	114	55	15	19	42	398	3770	2640	642	340	248
9....	160	144	47	18	13	44	512	3960	2740	606	309	216
10....	200	151	49	20	13	45	591	3960	2700	584	322	169
11....	98	135	47	21	12	45	834	3960	2570	572	430	176
12....	71	157	55	16	15	43	1240	3910	2300	567	425	192
13....	98	207	56	13	14	45	1420	3580	2410	518	435	196
14....	177	188	47	9.8	14	46	1610	3320	2410	578	475	185
15....	248	174	49	11	13	48	1710	3030	2290	523	507	176
16....	240	167	62	3.2	12	48	1550	2670	2110	518	445	163
17....	252	157	62	3.5	11	49	1440	2500	2000	501	350	144
18....	248	151	58	11	10	49	1470	2390	1940	470	276	147
19....	228	148	58	4.1	13	52	2130	2280	1810	540	365	144
20....	273	108	53	6.6	21	55	2020	2210	1590	528	331	142
21....	308	82	53	3.5	44	56	2510	2170	1450	501	288	150
22....	312	85	62	2.9	35	87	3020	2260	1460	436	301	160
23....	429	82	46	2.3	36	105	5050	2440	1360	359	301	163
24....	585	114	50	3.2	33	126	4360	2580	1180	318	355	117
25....	560	132	54	4.1	25	126	3510	2660	1040	305	365	49
26....	541	160	48	5.0	27*	92	3720	2740	956	305	345	44
27....	488	100	46	9.8	29	69	3770	3210	809	305	264	44
28....	461	64	44	13	32	82	3480	2910	823	326	252	44
29....	472	67	46	19	....	78	3450	2840	725	400	314	33
30....	369	56	48	17	....	85	3900	2720	718	410	284	41
31....	312	....	35	15	....	103	....	2620	....	331	238	....
Total	8147	4195	1597	3666	533	1898	55766	96090	56871	16300	12300	5048
Mean.	263	140	51.5	11.8	19.0	61.2	1859	3100	1896	526	397	164
Max..	585	261	75	30	44	126	5050	3960	2740	802	870	309
Min..	62	56	26	23	10	30	132	2170	718	305	238	33
Ac.-ft.	16160	8320	3170	727	1060	3760	110600	190600	112800	32330	24400	10010

Total run-off for water year=513,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

THIRTY-FIRST BIENNIAL REPORT

Discharge of South Platte River at Littleton, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....											366	162
2.....											271	169
3.....											236	119
4.....											220	107
5.....											136	119
6.....											104	110
7.....											136	129
8.....											475	410
9.....											372	351
10.....											325	361
11.....											351	361
12.....											393	366
13.....											1030	325
14.....											488	315
15.....											630	305
16.....											800	162
17.....											656	136
18.....											591	110
19.....										July 21	539	95
20.....										to 31	539	104
21.....										192	346	154
22.....										276	410	258
23.....										382	377	185
24.....										377	421	173
25.....										481	450	158
26.....										450	438	188
27.....										506	290	204
28.....										404	73	40
29.....										404	82	57
30.....										469	101	82
31.....										416	75	.....
Total.....										1357	11721	5815
Mean.....										396	378	194
Max.....										506	1030	410
Min.....										192	73	40
Ac.-ft.....										8640	23250	11530

Total run-off for period—14,420 acre-feet.

Discharge of South Platte River at Littleton, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	66	356	101	80	54	52	224	4180	2300	807	329	233
2.....	66	351	90	76	54	61	325	4580	2160	751	454	233
3.....	95	262	75	74	56	80	325	3880	1960	737	694	238
4.....	90	236	73	72	66	87	475	3860	2190	744	682	244
5.....	267	151	61	65	64	92	506	3980	1880	670	555	260
6.....	204	262	68	50	62	119	877	4020	1910	610	506	233
7.....	216	220	70	38	70	87	998	4080	2030	520	446	244
8.....	169	188	98	40	70	87	954	3840	2440	520	320	258
9.....	166	151	85	44	44	154	814	4400	2360	506	269	290
10.....	220	158	78	46	33	200	898	3840	2020	500	249	220
11.....	136	175	98	48	39	200	940	4000	1980	506	320	197
12.....	75	185	92	44	57	169	1670	4360	1780	500	385	199
13.....	110	245	92	46	45	129	2130	4140	1800	469	446	178
14.....	220	258	92	48	38	610	2730	3340	1780	416	494	197
15.....	271	220	98	53	32	166	2980	2550	1800	399	454	182
16.....	271	216	87	54	30	158	2660	2390	1780	421	400	172
17.....	280	200	110	52	28	151	2830	2230	1710	393	348	172
18.....	245	188	82	52	30	144	5090	2270	1710	421	326	162
19.....	276	232	90	50	40	177	6640	2030	1600	438	326	178
20.....	330	188	87	50	60	113	4360	1930	1440	427	302	152
21.....	280	162	116	52	65	87	3800	2040	1280	546	296	154
22.....	300	147	104	56	58	192	4540	1990	1240	482	284	154
23.....	891	144	101	58	62	300	7940	2160	982	446	269	152
24.....	828	151	90	60	54	416	7650	2300	954	438	272	96
25.....	758	169	98	60	46	232	5560	2360	856	400	266	65
26.....	695	147	101	64	46	181	4510	3000	828	329	255	61
27.....	604	136	88	68	48	136	4250	3000	828	272	244	60
28.....	591	126	84	68	48	104	4140	2580	737	284	228	54
29.....	578	116	92	72	.....	169	4000	2450	814	510	246	65
30.....	421	87	110	60	.....	144	5280	2360	863	365	238	71
31.....	416	.....	90	48	.....	196	.....	2340	.....	311	217	.....
Total.....	10135	5825	2801	1748	1339	5193	90096	96480	48102	15138	11120	5174
Mean.....	327	194	90.4	56.4	50.0	168	3003	3112	1603	488	359	172
Max.....	891	356	116	80	70	610	7940	4580	2440	807	694	290
Min.....	66	87	61	38	28	52	224	1930	737	272	217	54
Ac.-ft.....	20106	11550	5560	3470	2770	10300	178700	191400	95410	30030	22060	10260

Total run-off for water year—581,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Denver, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	128	124	78	70	81	63	136	1370	843	451	438	194
2.....	101	136	76	58	73	65	204	1250	816	670	371	209
3.....	92	126	78	52	70	65	234	1050	700	419	314	156
4.....	86	140	83	46	73	60	190	900	780	555	250	170
5.....	76	128	68	46	76	58	161	825	1140	458	204	152
6.....	104	132	63	40	76	78	161	732	1410	389	185	161
7.....	120	120	60	39	70	73	180	597	1460	336	249	190
8.....	104	120	63	37	60	65	161	477	1480	383	432	555
9.....	152	132	65	90	60	65	148	670	1200	325	464	542
10.....	190	175	56	96	68	56	140	724	1040	325	458	490
11.....	144	148	56	92	73	65	148	764	910	297	444	529
12.....	136	128	54	83	76	65	107	692	870	464	890	529
13.....	116	120	48	98	89	63	144	772	890	529	1330	522
14.....	110	135	47	95	76	65	166	880	825	764	764	464
15.....	107	156	48	110	73	76	336	780	843	464	756	425
16.....	98	185	48	95	70	81	292	529	890	425	920	336
17.....	89	209	52	86	65	68	136	516	816	265	807	239
18.....	86	214	76	86	68	70	190	756	764	194	764	239
19.....	92	194	81	98	68	70	199	834	542	199	632	219
20.....	86	148	76	95	68	70	128	604	516	276	597	229
21.....	81	104	73	116	68	81	107	529	625	336	496	244
22.....	78	107	76	98	63	98	83	772	1510	365	611	389
23.....	92	95	73	107	65	107	95	1190	940	419	529	342
24.....	107	92	78	92	65	107	95	1070	843	432	542	314
25.....	81	92	76	92	68	152	92	1140	861	484	444	265
26.....	83	92	73	92	60	120	92	1260	890	604	444	314
27.....	89	89	65	113	56	120	152	1270	816	597	1040	303
28.....	98	89	76	101	58	124	484	1210	890	529	270	224
29.....	104	92	76	86	.....	116	950	1010	910	470	156	175
30.....	92	78	73	92	.....	120	1190	890	655	542	156	194
31.....	110	.....	73	95	.....	120	.....	825	.....	496	124	.....
Total	3,232	3910	2082	2626	1936	2606	6901	26888	27675	13462	16090	9314
Mean...	104	130	67.2	84.7	69.1	84.1	230	867	922	434	519	310
Max....	190	214	83	116	89	152	1190	1370	1510	764	1330	555
Min....	76	78	47	39	56	56	83	477	516	194	124	152
Ac-ft.	6410	7760	4130	5210	3840	5170	13690	53330	54890	26700	31910	18470

Total run-off for water year—231,500 acre-feet.

Discharge of South Platte River at Denver, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	199	519	169	136	115	169	653	6350	2490	1460	500	277
2.....	175	424	165	133	115	169	566	6720	2460	1280	683	557
3.....	181	364	165	126	144	199	739	5760	2350	1170	1310	574
4.....	186	370	169	126	165	222	874	5080	2460	1100	1810	516
5.....	272	353	156	126	156	282	937	5200	2310	985	1380	425
6.....	347	430	129	115	140	424	1060	5220	2230	835	1120	574
7.....	370	387	129	88	156	252	1210	5280	2720	775	895	566
8.....	309	314	129	101	181	242	955	5220	2910	705	775	541
9.....	314	304	129	111	152	387	982	5280	2860	715	695	462
10.....	336	330	129	126	144	430	1050	5280	2750	695	549	334
11.....	277	304	129	152	126	964	1250	5380	2640	785	628	288
12.....	204	293	140	140	140	892	1570	5080	2760	755	725	301
13.....	213	336	156	133	140	1170	2100	4620	2970	675	695	334
14.....	353	353	152	133	152	1600	2290	4250	2780	628	755	314
15.....	461	325	152	129	140	1210	2460	3870	2620	755	845	301
16.....	486	325	160	129	122	653	2420	3450	2490	628	835	282
17.....	499	319	169	122	98	519	2270	3210	2370	656	685	255
18.....	506	319	160	118	78	442	2600	3020	2430	685	525	288
19.....	493	319	169	118	115	609	7020	2780	2280	825	448	320
20.....	519	257	156	115	160	486	4860	2650	2090	915	492	314
21.....	566	204	160	115	173	454	4690	2520	1940	1040	455	288
22.....	539	195	140	115	160	418	4900	2460	1900	885	508	277
23.....	1000	177	136	126	173	802	6580	2620	1940	666	582	255
24.....	1170	222	140	126	152	955	8050	2880	1880	647	541	250
25.....	1070	262	152	122	133	928	8280	2890	1750	638	500	188
26.....	964	304	115	129	136	532	7130	2940	1610	557	462	139
27.....	874	277	111	136	160	399	6220	3130	1190	455	425	117
28.....	820	222	111	152	165	364	5340	3150	1380	455	367	107
29.....	793	181	136	177	.....	.....	424	5270	3020	1260	533	396
30.....	730	177	156	136	.....	.....	480	7340	2810	1480	675	455
31.....	587	.....	148	98	.....	.....	553	.....	2620	.....	462	389
Total	15813	9166	4517	3909	3991	17630	101666	124740	67600	24040	21452	9616
Mean...	510	306	146	126	143	569	3389	4024	2253	775	692	321
Max....	1170	519	169	177	181	1600	8280	6720	2970	1460	1810	574
Min....	175	177	111	88	78	169	566	2460	1760	455	367	84
Ac-ft.	31360	18180	8960	7750	7920	34970	201700	247400	134100	47680	42550	19070

Total run-off for water year—801,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Henderson, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	177	97	34	174	188	127	45	1050	1350	713	476	140
2....	109	102	34	161	170	63	68	1050	1190	1060	414	152
3....	90	100	34	167	170	53	78	812	1020	686	366	132
4....	72	109	37	161	167	50	63	659	1230	950	312	114
5....	67	124	40	143	170	43	67	434	1660	857	224	109
6....	82	127	39	140	167	42	68	306	2240	731	167	100
7....	114	124	34	140	170	43	84	241	2090	615	177	78
8....	97	114	32	174	158	42	90	90	2200	476	306	336
9....	78	63	32	192	149	42	80	462	1870	554	469	384
10....	167	56	36	196	158	45	70	794	686	785	402	300
11....	80	92	36	184	177	42	62	767	469	677	360	306
12....	67	102	36	177	184	47	51	650	408	695	912	270
13....	62	95	36	202	184	43	70	641	490	911	1640	270
14....	65	82	35	181	161	42	112	731	624	686	530	246
15....	37	92	44	196	149	40	246	624	562	476	530	206
16....	32	122	49	177	149	40	135	324	713	514	866	167
17....	60	92	58	192	152	40	100	372	767	348	1020	124
18....	65	90	60	199	152	42	135	830	695	206	911	146
19....	53	95	63	206	143	39	300	1130	839	237	722	135
20....	47	84	68	184	149	39	241	1080	1230	300	668	119
21....	60	65	70	215	164	40	174	722	1570	408	624	124
22....	53	56	82	196	167	43	127	704	2750	402	830	300
23....	47	56	92	199	170	45	112	1710	2060	506	330	312
24....	55	53	95	184	158	65	95	1260	1780	441	246	270
25....	67	53	146	192	161	56	95	1160	1380	462	210	270
26....	100	45	167	181	161	58	88	1580	1310	857	215	295
27....	114	43	174	228	135	50	78	1530	990	821	506	318
28....	76	45	181	237	143	51	188	1440	785	848	155	250
29....	82	42	181	215	....	48	378	1220	950	579	95	170
30....	86	34	188	206	....	45	633	1020	686	642	107	164
31....	80	....	188	206	....	43	....	1030	....	588	74	....
Total	2441	2454	2401	5805	4526	1508	4133	26423	36594	19031	14864	6307
Mean.	78.7	81.8	77.5	187	162	48.6	138	852	1220	614	479	210
Max.	177	127	188	237	188	127	633	1710	2750	1060	1640	384
Min.	32	34	32	140	135	39	45	90	408	206	74	78
Acre-ft.	4840	4870	4760	11510	8980	2990	3200	52410	72580	37750	29480	12510

Total run-off for water year=250,900 acre-feet.

Discharge of South Platte River at Henderson, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	149	290	119	143	181	143	634	8860	2540	1220	413	302
2....	146	210	119	200	255	184	634	9110	2500	1230	582	413
3....	158	152	112	192	199	275	462	8780	2430	1240	1260	472
4....	164	146	112	170	195	285	366	7320	2570	1240	1680	413
5....	174	158	104	160	188	420	408	7390	2270	1250	1140	354
6....	290	161	104	150	149	546	462	6770	2170	1280	881	354
7....	255	219	114	130	146	260	634	6240	2810	706	628	380
8....	140	149	109	124	155	360	483	6270	3610	692	472	361
9....	130	152	114	150	155	498	384	6270	3350	738	394	309
10....	140	178	112	170	149	618	554	6420	2700	758	406	224
11....	164	192	104	210	117	578	875	6640	2320	790	426	165
12....	155	155	104	210	102	514	1470	6490	2800	758	556	155
13....	130	135	104	215	102	830	1960	5960	4260	680	576	180
14....	152	158	104	192	97	1900	2410	5230	3180	867	582	160
15....	192	237	97	177	92	1570	2650	4600	2900	881	614	165
16....	250	250	92	174	88	740	2790	3890	2740	825	576	151
17....	250	255	92	155	84	469	2640	3510	2760	777	491	131
18....	250	275	86	122	74	372	3280	3350	2890	744	368	131
19....	237	265	92	112	104	469	6670	3100	2870	832	342	283
20....	237	224	88	104	108	414	6240	3060	2640	946	394	238
21....	246	170	82	97	110	378	5130	2820	2320	1000	380	205
22....	155	158	78	95	109	434	5130	2780	2310	916	374	155
23....	586	149	80	149	111	830	6220	2800	2170	680	420	127
24....	902	146	68	122	110	1310	8210	2970	1970	614	413	61
25....	749	167	55	122	109	1090	8660	2970	1720	588	439	43
26....	668	184	48	132	110	740	9210	2940	1440	543	426	28
27....	586	188	74	137	111	546	7110	3320	1280	374	400	15
28....	586	149	70	132	119	483	6620	3260	1210	342	296	27
29....	546	132	117	184	....	483	6880	2840	1190	335	296	24
30....	522	127	174	192	....	522	8540	2860	1150	484	335	21
31....	348	....	167	174	....	554	....	2660	....	432	335	....
Total	9657	5531	3095	4796	3629	18815	107716	151480	73070	24762	16895	6047
Mean.	312	184	99.8	155	130	607	3591	4886	2436	799	545	202
Max.	902	290	174	215	255	1900	9210	11110	4260	1280	1680	472
Min.	130	127	48	95	74	143	366	2660	1150	335	296	15
Ac.-ft.	19150	10970	6140	9510	7200	37320	213700	300500	144900	49110	33510	11990

Total run-off for water year=844,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Fort Lupton, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	298	76	72	190	248	190	56	928	1030	486	344	75
2....	167	92	72	180	229	125	83	1100	1000	696	289	122
3....	118	90	70	173	215	94	127	784	792	604	264	118
4....	100	92	69	173	226	87	96	657	920	696	233	89
5....	85	114	68	167	229	80	92	486	1040	744	187	92
6....	87	122	68	167	252	74	89	359	1570	642	139	96
7....	102	114	68	180	240	76	90	280	1480	486	118	81
8....	130	98	70	204	229	72	112	170	1490	354	167	149
9....	144	74	68	215	211	69	108	187	1620	339	280	430
10....	197	42	66	229	197	66	100	728	808	425	272	339
11....	233	87	58	229	211	63	94	792	634	447	272	315
12....	154	120	57	218	226	57	94	627	474	405	534	280
13....	125	100	56	226	233	68	83	528	469	604	1580	284
14....	108	102	56	233	244	66	122	634	578	469	672	264
15....	81	122	63	248	226	69	334	634	566	389	566	229
16....	56	152	68	252	208	68	180	430	591	498	792	194
17....	56	152	74	226	201	69	116	334	650	260	1010	134
18....	62	125	72	215	201	70	120	634	627	218	960	157
19....	52	144	80	229	204	66	260	976	665	173	840	122
20....	45	147	83	229	204	60	320	1070	824	177	752	110
21....	51	120	78	244	204	62	240	752	1050	298	720	116
22....	57	110	81	252	204	63	180	604	1510	280	784	236
23....	45	102	106	236	190	72	152	1560	1760	311	546	405
24....	45	89	94	236	187	75	137	1280	1330	302	369	315
25....	46	89	130	218	197	89	120	1160	1060	298	298	293
26....	83	85	162	211	197	81	92	1460	1020	585	306	289
27....	94	76	173	226	194	78	69	1410	872	553	410	311
28....	78	78	180	244	187	74	120	1300	672	627	354	276
29....	66	76	187	226	....	72	354	1110	712	442	139	215
30....	74	78	184	229	....	66	598	928	604	425	100	208
31....	68	....	190	236	....	60	....	848	....	410	92	....
Total	3107	3068	2923	6741	5994	2381	4738	24750	28418	13643	14389	6344
Mean.	100	102	94.3	217	214	76.8	158	798	947	440	464	211
Max..	298	152	190	252	252	190	598	1560	1760	744	1580	430
Min...	45	42	56	167	187	57	56	170	469	173	92	75
Acre-ft.	6160	6090	5800	13370	11890	4720	9400	49090	56370	27060	28540	12580

Total run-off for water year=231,100 acre-feet.

Discharge of South Platte River at Ft. Lupton, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	199	383	156	295	143	269	672	7700	2670	1250	860	200
2....	192	320	153	295	290	269	665	7180	2720	1100	925	269
3....	202	237	148	290	253	333	469	7540	2660	1000	1130	367
4....	217	202	151	290	213	320	383	6600	2650	930	1530	350
5....	217	205	151	290	225	463	377	6300	2610	810	1170	312
6....	290	199	132	285	217	790	428	6220	2360	720	939	285
7....	367	269	156	285	217	499	553	6120	2530	640	641	339
8....	265	213	151	249	253	517	553	6100	3740	603	436	316
9....	186	192	148	225	221	850	394	5900	3440	734	290	294
10....	186	213	136	249	217	1340	475	5900	3190	684	326	242
11....	199	261	130	249	179	1420	591	5940	2730	672	326	191
12....	189	241	132	269	183	1430	1130	5940	2800	641	468	177
13....	165	205	136	249	205	1850	1700	5760	4290	528	489	194
14....	173	173	136	213	205	2380	2150	5340	3790	918	478	182
15....	245	225	138	195	176	2170	2410	5030	3310	848	539	177
16....	273	245	143	189	143	1840	2680	4540	3100	760	516	169
17....	269	245	148	186	130	910	2550	4150	3020	703	421	166
18....	281	245	136	143	127	658	2760	3920	3120	678	321	161
19....	281	245	173	134	127	651	4240	3670	3160	754	253	273
20....	295	237	186	127	127	630	6880	3520	3200	939	298	281
21....	320	183	189	134	130	578	6060	3280	3300	1020	316	242
22....	273	176	183	134	138	547	6040	3080	3200	946	303	212
23....	451	202	189	162	143	800	6300	3010	3000	890	358	182
24....	980	189	145	156	145	1340	7860	3070	2700	820	353	122
25....	750	213	136	153	151	1220	7840	3020	2400	740	376	107
26....	760	225	96	151	156	890	8260	2970	2200	680	396	93
27....	637	249	132	186	165	637	7280	3120	2000	620	367	82
28....	651	217	109	170	192	529	6880	3300	1700	580	235	77
29....	610	179	119	195	....	493	6640	2850	1500	640	206	85
30....	610	170	130	209	....	505	8000	2850	1400	700	219	85
31....	481	....	130	176	....	553	....	2790	....	740	232	....
Total	11214	6758	4498	6533	5071	27731	103220	146710	84490	24288	15717	6212
Mean.	362	225	145	211	181	895	3441	4733	2816	783	507	207
Max..	980	383	189	295	290	2380	8260	7700	4290	1250	1530	367
Min...	165	170	96	127	127	269	377	2790	1400	528	206	77
Ac.-ft.	22240	13400	8920	12960	10060	55000	204700	291000	167600	48170	31170	12320

Total run-off for water year=877,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte Near Kersey, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	410	237	304	466	496	396	312	1300	511	482	111	288
2	547	230	296	457	496	405	344	1530	666	345	101	210
3	419	233	289	442	462	371	110	1520	547	333	98	162
4	353	237	278	423	452	336	438	1360	296	371	94	131
5	316	278	271	411	457	316	423	1230	293	402	93	114
6	304	357	264	387	466	308	365	1040	511	402	90	107
7	300	353	261	396	471	289	328	861	1070	280	92	103
8	300	365	257	405	466	237	312	688	1530	166	101	110
9	320	365	254	419	447	212	324	419	1990	166	116	120
10	361	360	251	423	438	197	321	261	2160	158	120	144
11	374	391	254	433	412	240	296	1230	1410	166	133	150
12	410	433	328	438	452	261	268	1120	1030	230	154	171
13	369	457	340	428	452	275	257	836	921	445	260	182
14	357	442	344	457	476	289	240	712	967	749	921	223
15	365	433	353	462	476	289	271	638	1010	639	407	239
16	361	460	347	466	462	264	410	521	921	551	349	213
17	332	486	330	462	412	254	471	250	888	645	622	178
18	328	496	324	452	433	200	438	114	784	384	967	142
19	308	457	310	442	428	189	466	129	616	192	1110	126
20	300	491	344	457	428	189	605	412	546	154	960	124
21	278	462	361	471	419	244	688	496	445	131	869	122
22	278	433	369	501	414	271	621	169	546	116	888	164
23	257	410	382	506	411	289	536	124	1860	97	987	314
24	233	365	405	496	410	320	466	961	2090	92	796	578
25	230	336	410	486	400	320	462	812	1420	90	657	584
26	227	332	428	471	400	336	438	855	1220	93	535	589
27	237	332	452	457	400	340	428	1120	1070	150	633	567
28	257	324	462	476	396	348	462	1120	832	266	767	530
29	257	320	471	491	.....	340	526	496	639	320	686	503
30	251	312	471	501	.....	344	1020	791	589	273	519	466
31	250	.....	466	496	.....	336	.....	616	.....	171	398	.....
Total	9892	11202	10709	11091	12410	8992	12979	24321	29378	9059	14634	7656
Mean	319	373	345	455	443	290	433	785	979	292	472	255
Max.	547	496	471	506	496	405	1020	1530	2160	749	1110	589
Min.	227	230	254	387	396	189	240	124	293	90	90	103
Ac.-ft.	19620	22220	21240	27950	24610	17840	25710	48240	58270	17970	29030	15190

Total run-off for water year=327,900 acre-feet

Discharge of South Platte River Near Kersey, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	426	980	643	610	442	531	989	15500	3250	1580	278	162
2	380	895	621	660	419	547	989	17300	3450	1400	293	162
3	407	826	610	660	476	594	914	17200	3210	1110	340	156
4	436	779	605	660	526	654	823	16900	2970	868	861	154
5	471	742	583	650	531	688	754	13200	2850	688	1140	151
6	503	724	568	650	526	887	724	12600	2680	547	914	151
7	567	706	557	640	521	1140	754	12300	2480	353	742	156
8	645	730	547	620	526	975	842	11800	2680	250	552	164
9	605	700	536	570	521	1180	842	11700	3570	221	357	175
10	548	660	542	540	496	1770	785	12000	3360	224	268	162
11	521	638	536	580	496	2090	785	12600	2960	206	212	159
12	524	643	536	620	486	2130	887	13000	2740	192	215	164
13	513	627	531	640	481	2060	1200	12900	4090	183	247	178
14	530	594	511	610	476	2240	1490	11900	7500	194	257	206
15	562	589	496	547	466	2640	1680	10400	7090	361	257	233
16	616	616	491	506	452	2300	1820	8800	5890	361	250	215
17	639	666	491	486	410	1710	1940	7670	5230	340	240	203
18	657	682	496	466	350	1470	1880	6560	5320	312	209	212
19	657	688	491	457	340	1330	2020	6120	5790	293	197	257
20	651	694	516	410	345	1330	2800	5450	6120	391	189	371
21	651	700	526	378	265	1280	7670	5400	5990	836	178	462
22	657	682	526	374	385	1220	7460	4560	6020	848	167	457
23	691	677	466	387	430	1180	8270	4230	5990	754	169	387
24	876	666	462	410	466	1330	11400	4040	5830	600	169	387
25	1340	671	486	442	414	1580	18100	4130	5260	536	169	382
26	1160	671	466	428	521	1490	17300	4020	4770	496	164	369
27	1150	677	438	419	568	1290	17300	3610	3970	442	149	357
28	1080	682	433	452	526	1160	14300	3530	3250	312	146	308
29	1100	677	423	471	.....	1060	13000	3420	2600	254	149	296
30	1090	660	438	486	.....	1040	13000	2990	1940	264	151	286
31	1080	.....	486	496	.....	996	.....	2940	.....	271	154	.....
Total	21734	20942	16957	16355	12951	41912	152718	278850	128850	15687	9783	7488
Mean	701	698	518	528	463	1352	5091	8995	4295	506	316	250
Max.	1340	980	643	660	568	2640	18100	17300	7500	1580	1140	462
Min.	380	589	423	374	340	531	724	2940	1940	183	146	151
Ac.-ft.	43110	41540	31850	32440	25710	83130	302900	553100	255600	31110	19400	14850

Total run-off for water year=1,435,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Sublette, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	320	217	49	41	38	39	119	898	710	166	249	339
2.....	278	220	44	38	35	38	186	891	680	377	214	285
3.....	226	220	14	38	29	36	168	324	710	309	184	210
4.....	161	220	46	44	32	39	144	272	561	320	168	211
5.....	129	223	39	42	36	47	124	588	150	346	171	226
6.....	114	256	39	44	32	44	124	594	186	366	166	214
7.....	108	253	44	46	33	44	117	525	633	342	164	192
8.....	105	194	44	49	39	50	105	450	770	278	161	192
9.....	117	181	39	41	39	49	97	377	566	208	161	197
10.....	168	161	39	39	35	46	88	243	413	176	158	206
11.....	154	161	44	46	41	47	92	272	200	189	156	220
12.....	148	171	39	46	44	49	144	295	168	219	188	217
13.....	138	210	49	42	39	46	164	295	144	335	186	217
14.....	129	250	57	46	38	39	168	417	124	491	433	217
15.....	124	230	52	47	42	41	181	401	108	393	686	237
16.....	122	160	49	42	36	36	220	521	105	375	466	253
17.....	110	82	70	41	32	41	302	465	122	246	516	246
18.....	108	72	54	46	33	49	381	331	161	358	856	226
19.....	105	74	46	44	36	50	178	237	282	217	1110	197
20.....	101	76	47	38	33	49	131	249	454	166	1170	178
21.....	105	66	46	41	33	49	117	450	481	214	1050	174
22.....	94	65	57	42	42	54	134	425	437	189	1060	189
23.....	92	68	36	36	41	57	166	278	645	168	806	978
24.....	88	66	39	36	38	68	275	373	1800	144	722	184
25.....	86	56	41	42	41	86	385	884	1700	138	521	138
26.....	86	57	38	42	42	88	425	835	1386	136	401	126
27.....	82	57	50	42	36	86	421	1000	1260	136	425	126
28.....	82	50	41	46	36	92	429	1170	1070	184	496	124
29.....	141	49	38	46	.....	101	454	1220	807	256	536	122
30.....	164	54	36	39	.....	105	556	1070	616	320	381	124
31.....	211	.....	38	36	.....	117	.....	877	.....	309	289	.....
Total	4196	4213	1394	1305	1031	1782	6595	17229	18043	8301	14224	6095
Mean.	135	140	45.0	42.1	36.8	57.5	220	556	601	268	459	203
Max.	320	256	70	49	44	117	556	1220	1800	491	1170	339
Min.	82	49	36	36	29	36	88	237	105	136	156	122
Ac-ft.	8320	8360	2760	2590	2040	3530	13080	34170	35790	16460	28210	12000

Total run-off for water year=167,400 acre-feet.

Discharge of South Platte River at Sublette, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	119	698	61	313	354	186	556	.....	.....	.....	.....	.....
2.....	112	249	65	240	354	186	458	.....	.....	.....	.....	.....
3.....	108	154	61	176	306	186	397	.....	.....	.....	.....	.....
4.....	108	131	57	164	316	166	316	.....	.....	.....	.....	.....
5.....	105	108	57	161	328	151	253	.....	.....	.....	.....	.....
6.....	101	99	57	154	335	146	197	.....	.....	.....	.....	.....
7.....	101	88	56	144	331	200	141	.....	.....	.....	.....	.....
8.....	99	84	56	136	214	450	164	.....	.....	.....	.....	.....
9.....	101	74	99	141	178	393	226	.....	.....	.....	.....	.....
10.....	103	63	181	156	176	752	249	.....	.....	.....	.....	.....
11.....	105	59	171	166	181	1540	282	.....	.....	.....	.....	.....
12.....	103	59	171	176	168	1690	421	.....	.....	.....	.....	.....
13.....	99	59	171	203	166	1710	821	.....	.....	.....	.....	.....
14.....	99	61	164	231	174	1816	1390	.....	.....	.....	.....	.....
15.....	97	65	164	240	171	2090	1810	.....	.....	.....	.....	.....
16.....	94	59	186	226	166	2450	2060	.....	.....	.....	.....	.....
17.....	105	57	203	228	166	2020	1860	.....	.....	.....	.....	.....
18.....	99	57	197	231	164	1470	1930	.....	.....	.....	.....	.....
19.....	101	59	200	228	144	1180	2030	.....	.....	.....	.....	.....
20.....	101	59	203	228	124	1020	2690	.....	.....	.....	.....	.....
21.....	101	61	208	228	156	982	4120	.....	.....	.....	.....	.....
22.....	99	63	217	194	176	877	Apr. 1	.....	.....	.....	.....	.....
23.....	99	61	171	184	176	800	to 21	.....	.....	.....	.....	.....
24.....	112	59	178	186	166	814	.....	.....	.....	.....	.....	.....
25.....	358	61	231	200	166	1180	.....	.....	.....	.....	.....	.....
26.....	476	61	234	211	161	1470	.....	.....	.....	.....	.....	.....
27.....	481	59	203	223	148	1420	.....	.....	.....	.....	.....	.....
28.....	674	57	203	237	178	1140	.....	.....	.....	.....	.....	.....
29.....	728	59	186	253	.....	926	.....	.....	.....	.....	.....	.....
30.....	842	61	237	275	.....	633	.....	.....	.....	.....	.....	.....
31.....	884	.....	292	292	.....	561	.....	.....	.....	.....	.....	.....
Total	6914	2944	1940	6425	5843	30599	22371	.....	.....	.....	.....	.....
Mean.	223	98.3	159	207	209	987	1065	.....	.....	.....	.....	.....
Max.	884	698	292	313	354	2450	4120	.....	.....	.....	.....	.....
Min.	94	57	56	136	124	146	141	.....	.....	.....	.....	.....
Ac-ft.	13710	5840	9800	12740	11590	60690	44370	.....	.....	.....	.....	.....

Total run-off for period=158,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Balzac, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	123	157	11	9.8	8.8	8.8	13	249	369	242	230	113
2.....	172	151	10	9.3	7.5	9.8	13	309	317	223	213	106
3.....	190	142	11	9.3	7.5	9.8	13	267	227	223	181	133
4.....	169	148	11	9.3	8.0	9.3	13	178	227	160	154	123
5.....	169	142	10	8.8	7.5	9.8	13	125	216	175	139	175
6.....	163	157	11	8.0	7.5	9.8	12	163	256	210	130	216
7.....	157	160	11	8.4	8.4	9.8	11	216	278	175	108	238
8.....	193	184	11	8.4	8.0	10	10	206	353	133	102	271
9.....	193	169	10	8.4	7.1	9.8	11	238	461	94	125	275
10.....	200	116	11	11	6.8	9.8	11	216	568	80	133	253
11.....	210	70	11	12	6.8	10	10	190	193	83	163	206
12.....	230	40	9.8	9.8	7.5	11	14	275	56	329	187	184
13.....	238	32	9.3	8.8	8.8	9.8	82	321	29	220	184	216
14.....	234	27	24	9.3	8.4	9.8	49	253	27	113	200	227
15.....	230	27	10	10	9.8	10	22	227	53	253	206	203
16.....	242	27	9.3	9.8	8.4	9.8	30	193	24	333	290	184
17.....	242	23	9.8	9.3	8.4	10	58	249	23	275	213	187
18.....	227	17	10	11	8.4	10	36	313	44	238	260	190
19.....	210	14	9.8	10	8.8	11	22	210	50	160	321	187
20.....	203	14	9.8	9.3	8.0	33	19	210	36	104	329	166
21.....	200	13	11	10	8.4	123	19	275	45	86	381	154
22.....	206	13	9.8	11	9.3	118	22	313	98	94	421	187
23.....	203	14	9.3	10	8.8	123	42	271	100	139	501	267
24.....	178	13	9.3	9.8	7.5	56	24	223	178	130	417	333
25.....	181	12	9.8	10	8.0	22	26	210	361	125	337	230
26.....	187	12	9.3	9.3	8.4	19	43	337	510	151	256	148
27.....	184	12	9.8	7.5	7.5	16	43	385	377	160	230	120
28.....	203	11	10	8.0	8.0	14	64	397	452	157	203	108
29.....	190	11	9.8	8.4	.....	14	120	457	514	227	172	108
30.....	190	12	8.8	9.3	.....	14	210	501	305	249	181	77
31.....	175	.....	9.3	10	.....	13	.....	461	.....	275	154	.....
Total	6092	1940	326.0	293.3	226.3	753.1	1075	8438	6747	5616	7121	5585
Mean.	197	64.7	10.5	9.46	8.08	24.3	35.8	272	225	181	230	186
Max..	242	184	24	12	9.8	123	210	501	568	333	501	333
Min..	123	11	8.8	7.5	6.8	8.8	10	125	23	80	102	77
Ac.-ft.	12080	3850	647	582	449	1490	2130	16740	13380	11140	14120	11080

Total run-off for water year=87,690 acre-feet.

Discharge of South Platte River at Balzac, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	35	37	16	135	46	21	369	11000	1600	1490	109	186
2.....	26	37	16	90	109	18	369	11000	1810	927	130	264
3.....	26	24	17	60	177	19	357	15600	2030	565	138	583
4.....	25	19	17	43	116	21	325	15200	2430	350	158	370
5.....	23	18	17	31	82	21	242	13800	2270	190	278	365
6.....	18	16	18	31	38	21	88	12600	2180	87	375	370
7.....	18	16	17	33	32	21	32	11800	2330	9	360	375
8.....	17	15	16	33	27	21	28	10200	2220	2	335	385
9.....	13	14	16	32	18	73	19	9480	2820	76	214	365
10.....	13	12	17	34	18	350	19	9140	3320	123	170	355
11.....	14	13	21	32	18	764	22	8980	3810	126	134	273
12.....	13	13	18	29	16	1050	24	8980	3530	154	126	246
13.....	13	12	19	28	16	1170	36	9180	3570	162	130	242
14.....	12	12	19	27	16	4150	160	9620	3950	166	154	214
15.....	13	12	20	24	14	6190	620	9980	5740	158	202	174
16.....	13	12	18	22	12	4240	1080	9300	7580	142	198	154
17.....	13	12	20	24	12	3190	1300	8100	6980	166	186	134
18.....	13	12	18	22	11	2020	1310	7380	5770	186	178	120
19.....	13	12	17	18	12	1400	1570	6880	5400	182	170	178
20.....	12	13	19	18	14	1130	1780	6400	5620	170	174	232
21.....	13	13	18	18	22	1000	2350	5500	5680	178	182	246
22.....	13	13	18	16	28	940	3160	3870	5950	202	190	278
23.....	16	13	24	16	26	870	5160	3020	6040	296	182	325
24.....	16	12	40	16	18	865	6660	2680	6100	335	170	375
25.....	18	15	60	16	18	850	7500	2380	5800	330	154	472
26.....	21	16	70	15	19	950	10400	2280	5400	255	138	511
27.....	26	17	64	15	21	1080	16000	1970	4780	206	112	517
28.....	24	17	55	17	22	1000	14800	1660	4110	198	126	472
29.....	24	18	50	19	.....	780	13700	1400	3050	182	178	400
30.....	27	17	*95	22	.....	568	11200	1350	2130	134	178	330
31.....	29	.....	119	18	.....	430	.....	1450	.....	90	170	.....
Total	570	482	969	954	978	35223	100680	232180	124000	7857	5699	9511
Mean.	18.4	16.1	31.3	30.8	34.9	1136	3356	7490	4133	253	184	317
Max..	35	37	119	135	177	6190	16000	15600	7580	1490	375	583
Min..	12	12	16	15	11	18	19	1350	1600	9	109	120
Acre-ft.	1130	956	1920	1890	1940	69860	199700	460500	246000	15580	11300	18860

Total run-off for water year=1,030,000 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Julesburg, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	34	33	76	93	135	200	100	62	40	52	38	54
2....	32	29	73	95	152	183	87	64	66	62	37	53
3....	30	34	68	91	168	175	82	60	57	65	38	49
4....	29	35	68	91	178	174	96	56	48	71	37	43
5....	28	38	65	92	187	167	101	54	50	75	38	43
6....	28	37	64	94	192	140	89	50	194	80	35	41
7....	27	40	62	96	191	118	81	49	324	76	52	40
8....	27	40	62	104	197	88	73	48	258	63	318	40
9....	31	40	59	114	203	83	66	41	187	61	112	39
10....	32	43	58	134	204	82	66	39	220	61	87	38
11....	34	42	60	129	204	81	67	40	299	54	76	37
12....	34	45	68	125	206	77	67	40	448	67	72	37
13....	36	55	58	123	206	79	72	39	540	95	65	36
14....	38	51	57	115	206	77	121	36	375	112	62	36
15....	38	61	61	108	207	79	120	37	267	112	59	36
16....	40	90	67	102	206	79	111	44	229	113	54	37
17....	43	127	72	97	203	94	79	44	191	105	52	37
18....	41	126	82	98	200	69	102	41	154	96	52	35
19....	35	125	93	98	199	69	153	40	124	78	51	34
20....	31	125	105	98	196	72	170	41	104	64	49	34
21....	32	118	110	99	208	64	194	41	85	54	49	35
22....	31	117	111	99	205	64	196	38	79	48	52	42
23....	32	110	109	100	203	64	196	36	71	43	68	58
24....	32	109	104	99	198	70	132	34	62	41	68	71
25....	31	104	108	102	192	96	94	32	54	40	64	75
26....	31	104	102	105	206	119	80	73	56	42	64	72
27....	32	102	100	101	210	133	77	45	56	40	64	72
28....	32	98	100	103	205	151	74	44	56	43	60	82
29....	31	88	98	104	....	147	69	45	54	41	67	96
30....	31	84	95	106	....	125	66	41	50	39	60	114
31....	33	....	92	109	....	109	....	40	....	39	55	....
Total	1016	2250	2507	3224	5467	3328	3081	1394	4798	2035	2055	1516
Mean.	32.8	75.0	80.9	104	195	107	103	45.0	160	65.6	66.3	50.5
Max..	43	127	111	134	210	200	196	73	540	113	318	114
Min..	27	29	57	91	135	64	66	32	40	39	35	34
Acre-ft.	2020	4460	4970	6390	10840	6600	6110	2760	9520	4040	4080	3010

Total run-off for water year=64,800 acre-feet.

Discharge of South Platte River at Julesburg, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	121	168	297	191	312	277	1080	14400	2220	3450	85	36
2....	106	168	287	202	330	299	918	12800	3120	2690	69	61
3....	106	167	287	218	341	313	828	12500	4470	2040	74	53
4....	113	166	297	229	354	324	762	12300	2760	1600	71	50
5....	122	166	268	245	367	337	690	15400	2400	1320	68	47
6....	118	184	265	252	381	349	608	14500	2340	1100	63	46
7....	115	208	269	270	384	335	531	14600	2230	946	54	58
8....	117	223	274	282	376	355	568	12100	2130	825	47	103
9....	132	232	280	284	353	399	581	10500	2440	689	47	150
10....	138	239	269	291	437	494	540	10300	2580	557	50	173
11....	142	249	251	301	319	621	497	9850	2580	455	49	183
12....	138	261	275	311	322	648	478	9270	2770	377	46	175
13....	138	267	287	309	320	864	458	9170	3160	313	43	175
14....	138	268	290	323	314	1090	431	9150	3180	261	44	179
15....	139	271	298	307	307	1200	379	9370	3180	223	44	176
16....	136	270	301	304	306	1340	353	9350	3440	193	50	152
17....	132	274	298	305	304	2460	365	9170	4030	199	44	123
18....	134	275	300	348	231	6320	472	7880	5420	165	40	111
19....	131	274	300	320	196	4770	779	7330	5910	154	40	113
20....	139	273	299	323	199	3650	1010	6860	5180	182	37	129
21....	140	278	299	332	251	2580	1190	5670	5000	179	37	154
22....	140	286	299	333	300	2100	1350	4590	5330	154	35	160
23....	140	276	297	276	315	1760	1690	4150	5360	130	35	170
24....	142	282	284	276	298	1500	2160	3750	5630	123	33	189
25....	144	293	267	277	295	1360	3140	3640	5530	112	34	210
26....	165	298	160	279	289	1240	5860	3340	5480	104	35	229
27....	174	297	162	280	280	1130	7320	3020	5280	99	32	274
28....	164	297	168	284	280	1130	9980	2740	5100	84	34	299
29....	170	299	197	288	....	1270	13800	2580	4690	75	32	324
30....	173	299	191	289	....	1310	14400	2350	4110	69	32	342
31....	166	....	181	301	....	1230	....	2190	....	66	32	....
Total	4273	7508	8197	8830	8659	43055	73218	254820	117050	18934	1417	4644
Mean.	138	250	264	285	309	1389	2441	8220	3902	611	45.7	155
Max..	174	299	301	348	384	6320	14400	15400	5910	3450	74	342
Min..	106	166	160	191	196	277	353	2190	2130	66	32	36
Acre-ft.	8480	14890	16260	17510	17170	85400	145200	505400	232200	37560	2810	9210

Total run-off for water year=1,092,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Tarryall Creek Near Lake George, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	15	8.1	.....	.....	.....	.....	23	119	83	28	74	37
2.....	14	7.4	.....	.....	.....	.....	40	89	125	32	69	35
3.....	14	7.4	.....	.....	.....	.....	44	110	207	28	52	35
4.....	13	7.4	.....	.....	.....	.....	59	176	240	46	45	34
5.....	11	7.2	.....	.....	.....	.....	59	78	478	76	46	30
6.....	11	7.0	.....	.....	.....	.....	70	62	280	61	49	26
7.....	11	6.8	.....	.....	.....	.....	48	64	277	57	52	25
8.....	*10	6.4	.....	.....	.....	.....	42	49	185	60	68	38
9.....	9.4	6.4	.....	.....	.....	.....	43	53	269	62	90	39
10.....	10	7.6	.....	.....	.....	.....	15	54	303	63	79	72
11.....	12	6.4	.....	.....	.....	.....	49	58	221	64	63	76
12.....	11	6.0	.....	.....	.....	.....	72	57	100	120	64	72
13.....	11	6.0	.....	.....	.....	.....	104	66	86	148	112	68
14.....	9.9	7.0	.....	.....	.....	.....	103	81	85	81	154	40
15.....	9.5	8.5	.....	.....	.....	.....	48	112	90	61	126	24
16.....	9.4	8.5	.....	.....	.....	.....	47	99	125	45	67	22
17.....	9.3	8.0	.....	.....	.....	.....	46	65	118	37	112	22
18.....	9.2	8.5	.....	.....	.....	.....	45	64	120	37	100	20
19.....	9.1	8.0	.....	.....	.....	.....	43	68	119	38	62	20
20.....	9.1	7.5	.....	.....	.....	.....	35	81	114	52	52	20
21.....	9.0	7.5	.....	.....	.....	.....	32	96	110	48	54	21
22.....	8.8	7.5	.....	.....	.....	.....	33	96	112	52	65	64
23.....	8.6	7.5	.....	.....	.....	.....	28	92	113	47	78	47
24.....	8.3	7.5	.....	.....	.....	.....	33	91	125	45	94	41
25.....	8.0	7.5	.....	.....	.....	.....	45	96	154	50	57	40
26.....	7.9	7.0	.....	.....	.....	.....	60	89	261	55	48	40
27.....	7.8	7.0	.....	.....	.....	.....	80	85	138	64	46	31
28.....	8.1	7.0	.....	.....	.....	.....	141	86	124	92	45	28
29.....	8.2	7.0	.....	.....	.....	.....	24	84	89	91	45	30
30.....	8.2	7.0	.....	.....	.....	.....	182	81	35	92	38	30
31.....	8.3	.....	.....	.....	.....	.....	.....	80	.....	119	36	.....
Total	309.1	218.6	.....	.....	.....	.....	1903	2581	4886	1951	2142	1127
Mean.	9.97	7.29	.....	.....	.....	.....	63.4	83.3	163	62.9	69.1	37.6
Max..	15	8.5	.....	.....	.....	.....	204	176	478	148	154	76
Min..	7.8	6.0	.....	.....	.....	.....	23	49	35	28	36	20
Acre-ft.	613	434	.....	.....	.....	.....	3770	5120	9690	3870	4250	2240

Total run-off for period=29,990 acre feet.

Discharge of Tarryall Creek Near Lake George, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	32	49	.....	.....	.....	.....	.....	130	138	73	47	36
2.....	33	35	.....	.....	.....	.....	.....	93	154	101	68	35
3.....	39	33	.....	.....	.....	.....	.....	144	189	174	291	33
4.....	41	33	.....	.....	.....	.....	.....	186	138	98	403	22
5.....	42	35	.....	.....	.....	.....	.....	160	210	62	124	22
6.....	44	40	.....	.....	.....	.....	.....	122	214	54	63	23
7.....	42	38	.....	.....	.....	.....	.....	93	225	55	55	22
8.....	55	36	.....	.....	.....	.....	.....	118	238	59	57	22
9.....	55	34	.....	.....	.....	.....	.....	133	409	60	53	20
10.....	50	34	.....	.....	.....	.....	.....	138	399	65	52	20
11.....	47	35	.....	.....	.....	.....	.....	155	167	130	49	22
12.....	45	33	.....	.....	.....	.....	.....	162	104	110	48	20
13.....	45	36	*14	.....	.....	.....	Apr. 15	150	240	90	55	20
14.....	26	36	.....	.....	.....	.....	to 30	160	314	77	58	20
15.....	26	34	.....	.....	.....	.....	150	134	276	72	55	19
16.....	34	36	.....	.....	.....	.....	170	98	198	77	51	20
17.....	42	36	.....	.....	.....	.....	98	88	184	72	47	19
18.....	30	36	.....	.....	.....	.....	101	77	158	82	43	19
19.....	49	33	.....	.....	.....	.....	60	78	75	128	40	21
20.....	44	31	.....	.....	.....	.....	85	80	92	214	39	20
21.....	57	Nov. 1	.....	.....	.....	.....	196	93	160	101	37	20
22.....	57	to 20	.....	.....	.....	.....	344	88	128	92	56	20
23.....	62	.....	.....	.....	.....	.....	272	108	104	77	52	20
24.....	66	.....	.....	.....	.....	.....	226	146	101	35	51	20
25.....	72	.....	.....	.....	.....	.....	201	152	106	23	61	20
26.....	65	.....	.....	.....	.....	.....	163	184	98	23	62	20
27.....	66	.....	.....	.....	.....	.....	187	201	77	26	61	14
28.....	90	.....	.....	.....	.....	.....	201	260	73	28	60	12
29.....	78	.....	.....	.....	.....	.....	175	198	64	28	51	12
30.....	70	.....	.....	.....	.....	.....	154	150	72	37	48	11
31.....	52	.....	.....	.....	.....	.....	.....	146	.....	42	46	.....
Total	1563	713	.....	.....	.....	.....	2783	4225	5165	2365	2283	624
Mean.	50.4	35.6	.....	.....	.....	.....	174	136	172	76.3	73.6	20.8
Max..	90	49	.....	.....	.....	.....	344	260	409	214	403	36
Min..	26	31	.....	.....	.....	.....	60	77	64	23	37	11
Acre-ft.	3100	1410	.....	.....	.....	.....	5520	8380	10240	4690	4530	1240

Total run-off for period=39,110 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Goose Creek Above Lake Cheesman, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	27	14	9	7	6	10	15	94	157	61	36	24
2....	24	14	9	7	6	10	16	99	157	72	33	24
3....	23	15	9	7	6	10	17	116	139	62	30	23
4....	21	15	9	7	6	10	18	121	151	57	28	21
5....	21	13	9	7	6	10	20	112	136	55	28	21
6....	25	13	9	7	6	10	22	118	113	60	34	19
7....	23	13	9	7	6	10	21	128	120	52	29	19
8....	22	13	9	7	6	10	19	145	129	64	34	32
9....	21	13	9	7	6	10	18	181	142	62	42	44
10....	27	12	9	7	6	10	19	171	121	58	33	50
11....	28	12	9	7	6	10	20	203	129	51	37	69
12....	23	11	9	7	6	10	21	207	113	69	42	72
13....	22	11	9	7	6	10	22	268	112	60	54	42
14....	21	11	9	7	6	10	21	290	104	56	38	34
15....	20	11	9	7	6	10	20	265	106	67	37	30
16....	19	11	9	7	6	10	20	200	114	78	38	27
17....	19	11	9	7	6	10	20	200	116	58	40	25
18....	18	11	9	7	6	10	21	219	124	62	48	24
19....	18	11	9	7	6	10	20	175	126	58	45	21
20....	18	11	9	7	6	10	18	131	120	72	43	23
21....	18	10	9	7	6	10	19	104	105	52	40	22
22....	17	10	9	7	6	10	21	121	86	48	43	25
23....	17	10	9	7	6	10	22	115	83	44	46	39
24....	17	10	9	7	6	10	23	160	80	36	36	41
25....	16	10	9	7	6	10	24	178	95	28	32	36
26....	15	10	9	7	6	10	30	170	83	18	29	30
27....	15	10	9	7	6	10	46	172	74	50	28	25
28....	17	10	9	7	6	10	74	164	70	60	26	23
29....	15	10	9	7	6	10	80	153	65	46	25	23
30....	17	10	9	7	6	10	81	152	61	42	28	28
31....	16	9	9	7	6	10	145	145	39	25	25	25
Total	620	346	279	217	168	310	808	5077	3331	1727	1107	939
Mean...	20.0	11.5	9	7	6	10	26.9	164	111	55.7	35.7	31.3
Max...	28	15	9	7	6	10	81	290	157	78	54	72
Min...	15	10	9	7	6	10	15	94	61	28	25	19
Acres-ft.	1230	686	553	430	333	615	1600	10070	6610	3430	2200	1860

Total run-off for water year=29,620 acre-feet.

Discharge of Goose Creek Above Lake Cheesman, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	24	47	.....	.....	.....	.....	.....	122	443	90	36	17
2....	23	46	.....	.....	.....	.....	.....	122	421	100	69	17
3....	29	45	.....	.....	.....	.....	.....	165	405	90	104	17
4....	47	44	.....	.....	.....	.....	.....	250	362	79	70	19
5....	46	44	.....	.....	.....	.....	.....	230	333	79	51	19
6....	32	42	.....	.....	.....	.....	.....	200	283	81	43	23
7....	27	34	.....	.....	.....	.....	.....	165	270	78	33	23
8....	30	38	.....	.....	.....	.....	.....	170	277	76	32	22
9....	39	38	.....	.....	.....	.....	.....	185	280	79	31	19
10....	28	37	.....	.....	.....	.....	.....	213	248	73	32	17
11....	28	33	.....	.....	.....	.....	.....	262	226	70	40	17
12....	28	40	.....	.....	.....	.....	.....	288	221	62	42	17
13....	30	37	.....	.....	.....	.....	.....	248	241	57	38	17
14....	38	34	.....	.....	.....	.....	.....	230	227	56	46	15
15....	47	Nov. 14	.....	.....	.....	.....	.....	189	192	62	45	15
16....	59	to 14	.....	.....	.....	.....	.....	164	178	61	41	15
17....	60	.....	.....	.....	.....	.....	.....	181	164	62	38	14
18....	56	.....	.....	.....	.....	.....	.....	163	158	58	35	14
19....	49	.....	.....	.....	.....	.....	.....	178	146	73	32	16
20....	44	.....	.....	.....	.....	.....	.....	186	138	69	28	17
21....	44	.....	.....	.....	.....	.....	.....	217	129	56	27	15
22....	48	.....	.....	.....	.....	.....	.....	259	127	50	28	15
23....	58	.....	.....	.....	.....	.....	Apr. 25	299	119	47	26	15
24....	66	.....	.....	.....	.....	.....	to 30	341	110	50	26	14
25....	73	.....	.....	.....	.....	.....	.....	175	373	104	48	24
26....	72	.....	.....	.....	.....	.....	.....	164	405	97	44	22
27....	62	.....	.....	.....	.....	.....	.....	140	427	90	41	20
28....	59	.....	.....	.....	.....	.....	.....	121	439	88	40	19
29....	56	.....	.....	.....	.....	.....	.....	119	453	81	40	17
30....	53	.....	.....	.....	.....	.....	.....	131	461	97	37	17
31....	47	.....	.....	.....	.....	.....	.....	453	.....	34	17	.....
Total	1393	559	.....	.....	.....	.....	853	8038	6258	1942	1129	494
Mean...	44.9	39.9	.....	.....	.....	.....	142	259	209	62.6	36.4	16.5
Max...	73	47	.....	.....	.....	.....	175	461	443	100	104	23
Min...	23	33	.....	.....	.....	.....	119	122	84	34	17	14
Acres-ft.	2760	1110	.....	.....	.....	.....	1690	15940	12410	3850	2240	980

Total run-off for period=38,220 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of North Fork, South Platte River Below Grant, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	183	93	39
2.....	183	130	40
3.....	169	100	40
4.....	172	89	47
5.....	160	81	46
6.....	183	84	41
7.....	179	76	40
8.....	201	74	39
9.....	186	73	36
10.....	186	68	36
11.....	160	70	47
12.....	157	67	58
13.....	163	64	46
14.....	208	64	37
15.....	169	63	37
16.....	183	59	36
17.....	June 19	176	58	33
18.....	to 30	194	56	36
19.....	295	169	52	40
20.....	277	148	51	36
21.....	277	140	49	35
22.....	259	130	52	34
23.....	259	120	49	33
24.....	242	117	52	32
25.....	250	113	48	29
26.....	225	100	47	31
27.....	212	100	43	31
28.....	183	100	41	29
29.....	179	98	40	29
30.....	216	88	40	29
31.....	82	37	.....
Total	2874	4717	1970	1122
Mean.	240	152	63.5	37.4
Max..	295	208	130	58
Min...	179	82	37	29
Acre-ft.	5700	9360	3910	2230

Total run-off for period=21,200 acre-feet.

Discharge of North Fork, South Platte River Near Pine, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	410	158	79
2.....	391	272	84
3.....	360	237	80
4.....	339	198	76
5.....	343	168	88
6.....	351	160	88
7.....	331	153	79
8.....	347	146	77
9.....	323	139	73
10.....	343	134	67
11.....	323	132	68
12.....	283	130	84
13.....	264	132	87
14.....	368	130	73
15.....	291	130	64
16.....	327	123	60
17.....	299	114	58
18.....	335	110	60
19.....	343	110	73
20.....	279	106	73
21.....	258	106	67
22.....	234	108	64
23.....	222	125	61
24.....	222	110	60
25.....	204	106	59
26.....	195	96	60
27.....	180	90	58
28.....	175	84	58
29.....	192	80	55
30.....	170	77	55
31.....	158	74	.....
Total	8860	4038	2088
Mean.	286	130	69.6
Max..	410	272	88
Min...	158	74	55
Acre-ft.	17570	8010	4140

Total run-off for period=29,720 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of North Fork of South Platte River at South Platte, Colo., for
Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	112	43	47	50	35	40	103	330	701	349	178	131
2....	101	44	47	49	35	41	83	394	594	357	169	136
3....	87	55	46	48	35	39	71	428	553	320	148	126
4....	79	54	47	47	35	37	69	428	599	306	148	119
5....	79	34	44	47	36	36	83	390	628	306	136	119
6....	90	36	46	48	36	34	99	398	570	295	157	114
7....	87	49	46	52	33	32	81	382	500	270	148	109
8....	79	43	44	57	30	29	72	402	470	270	221	154
9....	87	44	43	60	28	27	72	477	440	280	204	163
10....	105	43	44	60	28	26	85	472	415	277	178	204
11....	92	11	44	58	28	27	88	522	405	266	204	214
12....	85	15	43	54	28	28	94	652	398	332	246	211
13....	78	8.0	42	53	28	29	105	828	402	298	252	134
14....	76	9.0	41	51	27	30	105	916	406	284	214	126
15....	72	48	41	49	27	33	96	781	442	284	235	114
16....	67	56	43	48	27	35	97	618	446	298	242	109
17....	66	57	45	47	28	*38	94	623	464	263	218	114
18....	69	56	48	48	28	55	97	761	499	256	218	107
19....	69	54	*49	49	28	67	94	662	522	246	198	98
20....	69	47	50	50	28	83	88	535	499	249	191	96
21....	67	43	54	46	30	88	87	468	477	224	191	96
22....	64	46	56	41	31	87	124	464	455	207	207	172
23....	62	49	55	38	32	76	131	472	450	201	191	191
24....	62	48	53	34	34	67	136	468	450	188	172	136
25....	62	45	50	33	34	43	148	504	571	191	166	126
26....	60	42	52	32	*34	34	157	657	517	228	154	121
27....	64	*37	55	33	33	51	168	736	442	235	154	109
28....	71	40	58	*34	35	49	190	676	428	238	141	104
29....	57	47	56	34	....	60	208	614	402	252	136	107
30....	60	47	54	34	....	79	265	594	373	214	154	109
31....	59	....	52	35	....	88	....	657	....	191	138	....
Total	2337	1250	1495	1419	871	1488	3390	17309	14518	8175	5709	3969
Mean.	75.4	41.7	48.2	45.8	31.1	48.0	113	558	484	264	184	132
Max..	112	57	58	60	36	88	265	916	701	357	252	214
Min..	57	8.0	41	32	27	26	69	330	373	188	136	96
Acre-ft.	4640	2480	2970	2810	1730	2950	6720	34330	28800	16210	11320	7870

Total run-off for water year=122,800 acre-feet.

**Discharge of North Fork, South Platte River at South Platte, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	102	104	*80	53	47	49	114	945	945	426	315	121
2....	100	109	80	58	50	50	130	975	995	423	310	130
3....	114	107	76	55	52	50	150	910	901	393	296	130
4....	128	104	75	48	50	45	183	970	935	350	243	123
5....	126	102	64	45	*49	49	183	1060	901	343	186	133
6....	109	112	64	*52	46	*49	183	1050	925	343	177	138
7....	102	100	68	53	49	44	138	1100	930	343	166	133
8....	107	89	69	56	56	53	121	1160	945	350	158	130
9....	112	109	68	59	54	59	152	1200	930	350	150	123
10....	104	104	61	66	50	65	158	1240	829	350	142	114
11....	100	89	58	63	47	67	204	1270	860	322	138	116
12....	92	79	58	61	48	67	234	1230	901	289	135	138
13....	96	94	57	57	48	65	240	1060	940	270	138	142
14....	121	87	58	55	46	63	255	970	940	336	133	128
15....	136	91	61	54	42	63	309	874	900	299	138	118
16....	136	89	65	52	40	61	273	820	840	322	128	109
17....	131	89	64	49	40	61	246	798	770	299	123	65
18....	124	87	61	48	37	65	273	776	707	322	147	58
19....	119	69	60	50	40	64	426	763	694	336	147	74
20....	116	23	62	53	45	57	430	772	656	299	145	77
21....	116	23	64	57	52	64	555	772	621	270	145	68
22....	124	22	65	63	56	78	699	820	596	258	142	65
23....	134	30	62	60	55	79	1020	888	579	240	147	70
24....	160	45	60	65	51	77	1060	901	559	246	150	70
25....	157	72	58	64	47	72	1010	930	518	231	147	60
26....	146	82	51	64	46	68	975	1050	475	228	133	56
27....	121	82	51	64	48	66	955	1220	434	225	128	56
28....	119	82	55	66	48	66	915	990	408	220	123	54
29....	119	81	59	66	....	70	940	1000	382	400	121	53
30....	119	80	57	47	....	72	1040	980	401	350	118	53
31....	104	....	52	45	....	70	....	945	....	325	116	....
Total	3694	2436	1943	1748	1339	1928	13571	30439	22417	9758	4985	2905
Mean.	119	81.2	62.7	56.4	47.8	62.2	452	982	747	315	161	96.8
Max..	160	112	80	66	56	79	1060	1270	995	426	315	142
Min..	92	22	51	45	37	44	114	763	382	220	116	53
Acre-ft.	7330	4830	3850	3470	2660	3820	26920	60370	44460	19350	9890	5760

Total run-off for water year=192,700 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Deer Creek Near Littleton, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										7.2	1.2	0.5
2										5.6	2.2	0.6
3										4.4	2.1	0.6
4										3.8	1.8	0.5
5										2.9	1.4	0.5
6										3.0	1.4	0.4
7										3.0	1.2	0.4
8										2.6	1.1	0.4
9										2.9	1.1	0.2
10										2.9	1.0	0.2
11										2.9	1.0	0.3
12										2.3	1.0	0.3
13										2.3	1.0	0.4
14										3.8	1.0	0.3
15										2.7	1.1	0.2
16									June 18	2.7	1.0	0.2
17									to 30	2.3	1.0	0.2
18									8.4	2.3	1.0	0.4
19									7.8	2.6	0.9	0.5
20									7.2	2.6	0.9	0.5
21									7.2	2.3	0.8	0.5
22									8.7	2.0	0.8	0.4
23									8.4	1.8	0.7	0.4
24									6.6	2.0	0.7	0.4
25									5.8	2.1	0.6	0.4
26									5.0	2.2	0.6	0.4
27									4.6	3.0	0.5	0.4
28									4.6	2.1	0.4	0.4
29									11	1.7	0.4	0.4
30									5.4	1.4	0.4	0.4
31										1.3	0.4	...
Total									90.7	86.7	30.7	11.7
Mean									6.98	2.80	.99	.39
Max.									11	7.2	2.2	0.6
Min.									4.6	1.3	0.4	0.2
Acre-ft.									180	172	61	23

Total run-off for period =436 acre-feet

Discharge of Plum Creek Near Sedalia, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										84	7.4	20
2										75	107	22
3										47	24	15
4										47	30	13
5										35	26	9.9
6										19	22	7.4
7										17	15	4.0
8										14	13	4.0
9										24	13	3.6
10										26	9.0	4.5
11										20	13	6.1
12										16	11	5.5
13										20	12	14
14										17	9.9	14
15										16	13	15
16									June 18	12	11	16
17									to 30	9.0	7.4	13
18									88	19	9.0	12
19									93	15	9.9	24
20									84	9.9	9.0	22
21									84	15	8.2	14
22									93	13	9.0	12
23									93	12	12	14
24									70	12	9.9	13
25									70	12	13	12
26									56	11	7.4	11
27									75	9.0	4.0	16
28									65	11	3.2	14
29									75	7.4	11	6.1
30									75	9.9	9.0	6.7
31										8.2	9.9	...
Total									1021	662.4	468.2	363.8
Mean									78.5	21.4	15.1	12.1
Max.									93	84	107	24
Min.									56	7.4	3.2	3.6
Acre-ft.									2030	1310	929	722

Total run-off for period =4,990 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Bear Creek at Morrison, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	41	19	20	11	9.7	15	47	212	208	80	55	42
2.....	37	21	19	11	9.6	18	38	232	178	80	52	42
3.....	36	24	19	10	9.7	15	34	244	175	78	55	38
4.....	33	24	19	9.8	9.8	13	36	244	178	78	54	36
5.....	32	17	16	9.5	10	15	46	236	216	73	48	36
6.....	40	17	23	9.2	10	16	53	232	204	78	46	34
7.....	38	21	25	9.0	9.8	15	45	228	244	67	39	35
8.....	33	21	20	9.4	10	12	39	236	224	75	45	59
9.....	34	24	19	9.8	10	12	41	249	196	195	46	52
10.....	48	19	19	10	*10	10	48	254	186	120	44	58
11.....	40	14	18	10	11	17	49	267	182	90	54	49
12.....	39	15	15	9.8	12	12	54	285	168	106	90	44
13.....	38	18	13	*9.8	12	19	58	320	164	93	93	43
14.....	36	22	12	10	11	26	53	320	175	86	58	42
15.....	33	20	13	10	11	16	56	276	186	93	90	40
16.....	32	21	14	9.8	11	15	54	212	182	99	96	39
17.....	31	22	14	9.6	13	18	56	204	175	96	80	38
18.....	30	20	13	9.2	12	24	58	236	186	96	76	38
19.....	28	18	14	9.3	11	41	54	212	182	106	71	38
20.....	27	17	14	9.8	11	38	53	161	168	96	62	37
21.....	27	21	13	9.7	12	33	54	146	259	86	61	40
22.....	27	25	13	9.9	12	36	60	161	1000	76	78	51
23.....	28	25	13	9.4	13	37	65	178	350	73	69	55
24.....	28	26	13	9.0	12	24	66	175	290	66	56	47
25.....	27	24	13	8.8	11	20	72	182	*275	62	54	43
26.....	26	20	12	8.8	12	22	85	228	225	86	52	40
27.....	26	25	12	9.6	13	24	122	228	129	80	49	38
28.....	26	30	12	9.2	14	22	161	204	102	75	48	36
29.....	23	23	12	9.6	.....	25	193	189	90	67	46	36
30.....	25	21	12	9.8	.....	27	212	189	80	62	49	36
31.....	24	.....	12	9.9	.....	37	.....	200	.....	54	44	.....
Total	993	634	476	299.1	312.6	663	2062	6940	6577	2672	1860	1260
Mean	32.0	21.1	15.4	9.65	11.2	21.4	68.7	224	219	86.2	60.0	42.0
Max.	48	30	25	11	14	41	212	320	1000	195	96	59
Min.	23	14	12	8.8	9.6	10	34	146	80	54	39	34
Acre-ft.	1970	1260	944	593	620	1320	4090	13770	13050	5300	3690	2500

Total run-off for water year=49,110 acre-feet.

* Discharge measurement made on this day.

Discharge of Bear Creek at Morrison, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	38	49	28	18	18	15	42	688	368	262	82	54
2.....	38	52	26	17	17	15	52	681	368	233	169	49
3.....	37	51	29	16	15	16	75	597	332	184	146	43
4.....	40	45	28	16	15	18	102	584	356	169	117	39
5.....	40	46	24	17	15	17	120	590	320	173	90	34
6.....	40	49	27	18	17	19	99	536	314	169	82	31
7.....	37	44	26	19	15	21	67	500	374	164	85	30
8.....	35	41	24	20	15	24	56	512	380	164	80	30
9.....	33	45	24	22	16	20	78	530	386	173	80	40
10.....	34	42	25	23	15	22	102	524	308	189	75	34
11.....	31	37	27	17	18	24	159	530	308	189	72	33
12.....	30	37	22	16	18	24	164	506	386	164	75	42
13.....	30	41	22	16	15	27	185	452	410	150	72	62
14.....	42	37	20	16	16	33	220	440	356	178	80	43
15.....	39	40	19	16	18	28	225	386	296	160	88	37
16.....	39	39	19	16	20	25	215	344	284	164	85	40
17.....	37	39	19	16	22	26	164	326	296	155	78	40
18.....	33	37	20	16	22	30	261	281	308	141	68	44
19.....	31	33	20	16	24	27	786	279	296	160	70	49
20.....	30	28	19	16	21	22	816	290	267	137	72	49
21.....	30	33	20	15	19	24	482	302	250	121	72	54
22.....	36	24	19	15	15	28	320	344	256	110	72	50
23.....	106	34	20	15	14	34	392	404	244	106	80	52
24.....	75	42	20	15	15	33	326	428	239	110	80	50
25.....	78	45	20	15	15	30	422	434	222	114	85	62
26.....	69	43	19	15	15	27	464	446	200	110	85	75
27.....	61	30	20	15	16	21	518	488	178	106	88	85
28.....	59	29	19	15	16	24	572	434	169	92	82	95
29.....	61	29	20	15	.....	27	681	431	169	99	78	106
30.....	54	27	19	15	.....	30	716	416	222	88	68	125
31.....	44	.....	19	16	.....	39	.....	392	.....	85	64	.....
Total	1387	1158	683	513	477	773	8881	14101	8862	4619	2620	1577
Mean	44.7	38.6	22.0	16.5	17.0	24.9	296	455	295	149	84.5	52.6
Max.	106	52	29	23	24	39	816	688	410	262	169	127
Min.	30	24	19	15	14	15	42	279	169	85	64	30
Acre-ft.	2750	2300	1350	1020	946	1530	17620	27970	17580	9160	5200	3130

Total run-off for water year=90,560 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Bear Creek at Mouth at Sheridan Junction, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	8.8	14.0	8.4	9.2	8.4	7.4	5.6	311	177	87	10.0	14
2....	8.8	16.0	7.7	8.8	8.0	7.4	5.9	251	143	136	9.6	14
3....	7.1	17.0	8.8	8.2	7.7	7.1	5.9	341	98	79	10.0	15
4....	5.6	16.0	9.2	7.3	8.0	7.4	5.6	328	101	51	8.8	14
5....	5.9	13.0	8.8	6.8	9.2	7.4	5.0	280	123	38	8.0	14
6....	7.1	12.0	9.2	7.2	8.8	7.4	4.6	248	162	30	7.7	12
7....	7.1	12.0	9.6	7.5	8.4	6.8	4.6	183	183	19	9.6	11
8....	6.8	14.0	10.0	8.2	9.6	6.5	5.3	157	213	12	9.2	13
9....	7.7	15.0	8.4	9.0	8.8	6.2	5.9	185	188	12	9.6	20
10....	8.8	14.0	9.2	9.6	8.4	6.2	5.3	190	185	18	14.0	19
11....	7.4	9.6	9.6	9.3	8.8	6.5	4.8	193	185	15	14.0	20
12....	7.4	10.0	10.0	9.6	9.6	6.5	3.8	190	180	29	67.0	18
13....	7.4	12.0	8.2	10.0	8.8	6.2	4.0	213	167	34	70.0	16
14....	7.1	14.0	6.8	9.6	8.8	5.6	3.8	222	170	18	26.0	14
15....	8.8	10.0	6.6	9.6	9.6	6.2	7.7	167	175	23	26.0	14
16....	8.8	12.0	8.6	8.8	9.6	5.3	6.5	105	175	24	32.0	14
17....	7.4	10.0	8.8	7.1	8.4	5.0	5.3	86	150	26	27.0	13
18....	7.4	9.2	9.4	7.2	8.4	5.3	5.6	123	134	23	16.0	13
19....	8.0	12.0	9.9	8.0	9.2	5.6	5.6	139	107	24	15.0	13
20....	7.4	12.0	10.0	8.4	8.4	8.8	6.8	113	73	26	15.0	14
21....	7.7	11.0	11.0	8.4	8.0	5.9	6.0	81	47	24	14.0	15
22....	8.8	8.8	10.0	8.8	8.4	6.2	6.2	67	387	16	24.0	17
23....	9.2	10.0	10.0	8.0	8.0	5.3	6.2	150	297	16	31.0	19
24....	11.0	12.0	10.0	7.0	7.7	5.9	4.8	172	280	13	28.0	20
25....	9.2	11.0	10.0	6.5	8.4	6.2	4.8	180	277	23	27.0	19
26....	9.2	12.0	10.0	7.8	8.4	6.5	5.6	208	251	37	20.0	16
27....	8.4	10.0	9.2	8.4	8.4	4.8	8.8	213	162	14	16.0	14
28....	7.1	8.8	9.6	8.4	7.4	4.8	117.0	193	119	15	15.0	14
29....	7.1	8.0	9.2	8.8	....	5.0	324.0	180	94	11	12.0	14
30....	8.0	8.8	9.2	8.8	....	4.6	352.0	185	71	11	12.0	16
31....	8.8	....	9.6	8.4	....	5.0	....	177	....	10	14.0	....
Total	245.3	354.2	285.0	258.7	239.6	191.0	942.0	5831	5074	914	617.5	459
Mean.	7.91	11.8	9.19	8.35	8.56	6.16	31.4	188	169	29.5	19.9	15.3
Max..	11	17	11	10	9.6	8.8	352	341	387	136	70	20
Min..	5.6	8.0	6.6	6.5	7.4	4.6	3.8	67	47	10	7.7	11
Acre-ft.	487	703	565	513	475	379	1870	11570	10060	1810	1220	910

Total run-off for water year=30,560 acre-feet.

Discharge of Bear Creek at Mouth at Sheridan Junction, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	15	64	23	26	36	23	48	645	390	90	20	19
2....	15	51	23	24	47	16	51	745	370	88	17	19
3....	16	43	22	24	48	20	114	695	353	86	48	16
4....	19	42	19	23	52	15	150	793	339	84	39	16
5....	18	42	16	22	52	18	164	820	316	82	32	16
6....	19	43	16	26	51	17	140	815	290	76	24	19
7....	29	40	15	25	58	13	132	848	287	71	19	20
8....	33	37	14	27	55	14	110	864	322	62	16	17
9....	34	37	14	29	51	29	90	903	293	59	15	15
10....	35	32	15	30	51	44	120	936	278	57	14	14
11....	33	33	23	31	42	44	219	886	263	52	13	16
12....	33	30	27	33	46	44	249	837	266	46	14	21
13....	34	33	28	35	47	48	275	700	336	42	17	26
14....	38	31	28	37	41	69	290	725	269	50	20	23
15....	42	34	29	*41	35	62	303	675	252	54	22	19
16....	55	39	31	39	35	54	290	615	243	52	18	15
17....	50	54	32	38	36	38	296	645	240	50	16	14
18....	42	48	33	38	55	38	336	660	232	48	13	17
19....	36	30	33	37	71	64	886	645	222	51	11	24
20....	35	23	33	37	41	51	546	620	201	56	12	23
21....	32	21	28	36	41	51	590	620	192	45	13	22
22....	23	20	30	35	38	57	605	610	184	38	12	20
23....	141	19	31	34	36	66	620	640	177	32	17	17
24....	145	34	30	34	32	36	771	625	156	29	18	16
25....	123	45	30	33	33	26	804	585	127	30	16	16
26....	125	55	24	33	31	22	645	590	106	25	16	18
27....	119	50	22	34	29	11	630	590	94	23	15	17
28....	123	29	22	33	28	7.8	695	487	88	21	14	16
29....	121	25	24	33	....	10	793	462	88	20	15	15
30....	110	24	27	33	....	32	859	446	88	20	17	15
31....	94	....	28	34	....	39	....	418	....	19	17	....
Total	1787	1108	770	994	1218	1078.8	11821	21145	7062	1558	570	541
Mean.	57.6	36.9	24.8	32.1	43.5	34.8	394	682	235	50.3	18.4	18.0
Max..	145	64	33	41	71	69	886	936	390	90	48	26
Min..	15	19	14	22	28	7.8	48	418	88	19	11	14
Acre-ft.	3540	2200	1530	1970	2420	2140	23450	41940	14010	3090	1130	1070

Total run-off for water year=98,940 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Turkey Creek Near Morrison, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										3.4	0.2	1.2
2										3.1	37	1.2
3										2.7	2.7	1.2
4										2.7	2.7	1.2
5										2.4	2.4	1.2
6										2.1	2.4	1.2
7										2.1	2.1	1.2
8										2.4	2.1	1.2
9										2.4	1.9	1.2
10										2.3	1.9	1.2
11										2.0	1.9	1.3
12										0.2	1.6	1.3
13										0.2	1.6	1.3
14										0.2	1.6	1.3
15										0.2	1.3	1.3
16										0.2	1.3	1.3
17										0.2	1.2	1.3
18										0.2	1.2	1.4
19										12	2.6	1.2
20										12	2.3	1.1
21										13	2.3	1.1
22										13	2.0	1.1
23										12	1.7	1.1
24										11	1.4	1.1
25										11	1.2	1.1
26										4.5	1.2	1.1
27										3.1	0.2	1.1
28										3.1	0.2	1.1
29										2.7	0.2	1.1
30										3.1	0.2	1.1
31										0.2	1.1	...
Total										100.5	44.7	81.5
Mean										8.38	1.44	2.63
Max.										13	3.4	37
Min.										2.7	0.2	1.2
Acce-ft.										199	89	162

Total run-off for period=526 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cherry Creek Near Franktown, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	11	3.0	6.2	3.7	*4.1	11	14	12	5.5	3.0	7.8	11
2.....	6.9	3.8	5.8	3.5	9.0	11	25	8.9	5.5	4.1	6.9	13
3.....	5.5	3.6	5.8	3.4	6.0	8.9	28	5.5	5.8	3.4	5.8	8.4
4.....	4.5	3.6	5.8	*3.3	7.2	7.2	22	6.2	5.5	3.4	5.2	6.5
5.....	3.4	3.4	5.5	3.4	7.2	8.9	16	3.8	6.2	3.2	4.8	4.8
6.....	3.0	3.6	5.5	3.7	6.2	8.4	12	3.2	5.8	3.2	4.1	4.8
7.....	3.2	3.6	5.2	4.0	5.6	6.2	12	2.6	1.8	3.8	4.1	4.5
8.....	3.2	3.4	4.8	4.5	5.5	9.5	10	2.6	5.5	3.2	3.8	6.9
9.....	3.4	3.6	4.5	7.0	6.0	10	8.4	1.7	5.2	3.0	3.6	7.8
10.....	3.8	3.8	3.0	9.0	6.5	5.8	6.2	1.7	7.2	2.8	3.4	6.9
11.....	3.0	3.8	2.0	8.0	6.9	5.4	5.5	1.8	8.4	1.8	6.9	6.9
12.....	2.4	2.4	2.0	7.8	7.2	5.0	5.5	1.8	5.8	1.8	6.9	6.2
13.....	1.7	2.0	1.5	7.8	7.8	5.0	5.2	1.7	4.8	218	6.9	4.8
14.....	1.8	2.4	1.5	7.2	9.5	5.8	5.2	1.5	5.5	110	5.2	4.8
15.....	2.4	2.5	2.0	5.0	9.5	6.5	5.8	1.4	1.2	2.4	4.8	6.2
16.....	2.6	2.8	2.5	4.0	12	7.8	5.8	1.0	3.2	1.8	2.6	6.2
17.....	2.0	3.6	*2.9	3.5	10	8.9	4.1	1.1	1.1	1.2	1.1	5.8
18.....	2.0	5.5	3.0	*4.0	10	10	5.2	1.1	5.5	1.2	6.9	5.8
19.....	2.2	4.5	3.2	5.0	13	9.5	7.8	1.0	3.8	9.5	5.2	5.8
20.....	2.2	3.8	3.5	5.8	14	8.9	7.2	1.4	3.6	7.8	1.8	5.2
21.....	2.2	4.5	4.0	4.5	11	8.4	6.2	1.8	2.0	5.5	1.8	5.2
22.....	2.4	4.5	4.0	3.5	12	11	5.2	5.8	2.6	3.0	1.2	4.1
23.....	2.4	3.6	4.5	3.7	11	11	6.2	3.1	2.0	1.6	106	3.1
24.....	2.6	4.5	5.0	4.0	13	9.5	6.5	1.3	2.0	1.2	2.5	1.8
25.....	2.4	5.2	5.0	4.2	10	9.5	4.8	5.2	2.2	1.7	5.2	2.5
26.....	2.4	6.5	5.5	4.4	8.9	11	5.2	8.4	2.8	7.2	1.7	7.8
27.....	2.8	5.2	4.8	4.6	8.9	12	6.5	1.2	2.8	4.9	3.6	4.8
28.....	2.8	5.2	5.0	4.8	8.9	12	8.9	6.5	2.6	1.6	3.2	4.8
29.....	3.0	5.5	4.5	5.5	.....	12	2.4	5.2	2.6	1.1	1.1	4.5
30.....	3.6	5.2	4.5	4.0	.....	11	3.0	5.8	2.6	1.9	1.1	4.5
31.....	3.4	.....	4.0	4.0	.....	17	.....	5.2	.....	1.5	9.5	.....
Total	100.2	118.6	127.0	150.8	246.9	287.1	314.4	161.9	173.6	610.6	688.1	249.4
Mean	3.23	3.25	4.1	4.86	8.82	9.26	10.5	5.22	5.79	19.7	22.2	8.31
Max.	11	6.5	6.2	9.0	14	17	30	31	32	218	336	34
Min.	1.7	2.0	1.5	3.3	4.1	5.0	4.1	1.0	2.0	1.2	3.4	4.5
Acres-ft.	149	235	252	299	490	561	624	324	344	1210	1360	495

Total run-off for water year = 6 100 acre-feet.

Discharge of Cherry Creek Near Franktown, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	4.0	12	6.6	5.6	5.0	5.7	57	124	7.0	17	3.8	9.1
2.....	4.3	12	6.6	5.8	4.6	6.2	74	158	7.0	31	2.4	47
3.....	4.3	10	6.6	5.0	4.8	6.0	62	97	10	11	6.2	17
4.....	7.3	10	7.0	4.6	4.5	7.7	52	76	23	8.0	6.2	11
5.....	7.7	9.6	5.0	4.8	4.5	12	52	52	15	8.5	1.7	4.8
6.....	8.9	12	4.5	4.9	4.3	6.6	*51	41	15	7.0	1.2	2.6
7.....	7.3	13	5.5	4.9	4.3	1.7	52	38	16	6.5	7.2	11
8.....	7.3	8.9	5.2	5.2	5.2	1.5	50	37	67	14	6.6	8.6
9.....	7.3	10	5.0	5.4	6.2	8.9	35	36	28	10	1.1	5.2
10.....	7.3	9.2	5.0	5.8	7.0	5.7	33	33	28	54	7.2	4.1
11.....	7.0	7.7	6.0	6.4	5.8	7.7	32	33	17	25	6.6	4.4
12.....	7.3	7.7	5.0	*6.1	5.0	9.0	33	30	21	7.5	4.6	5.9
13.....	9.6	9.2	6.0	5.8	4.7	650	37	28	46	5.5	4.4	6.6
14.....	14	9.2	7.0	5.8	4.6	500	32	30	23	5.5	7.2	7.2
15.....	20	10	7.7	6.2	4.5	452	22	31	22	5.2	5.9	7.9
16.....	17	9.2	5.7	6.0	4.6	317	16	30	16	5.2	4.6	7.2
17.....	14	8.5	5.5	5.8	4.3	158	16	30	14	5.2	4.1	1.9
18.....	13	7.7	5.0	5.6	6.0	140	204	36	14	1.9	1.1	5.9
19.....	11	6.2	5.5	5.4	9.6	164	256	34	13	7.2	1.1	9.3
20.....	9.2	5.7	5.0	5.6	9.2	33	224	30	9.0	10	3.8	9.3
21.....	8.9	6.6	6.0	6.0	9.6	33	170	32	14	12	3.0	7.2
22.....	7.7	7.7	5.0	6.6	7.7	106	136	34	21	6.6	2.7	6.6
23.....	19	6.0	4.0	7.4	6.2	366	136	25	16	3.8	2.7	7.2
24.....	37	5.2	3.5	7.0	7.3	230	108	30	14	3.8	2.4	7.9
25.....	17	5.5	3.4	7.0	7.7	78	220	18	8.0	5.9	2.4	7.2
26.....	14	7.3	3.7	7.0	7.0	24	230	14	6.5	4.4	3.0	7.9
27.....	14	7.7	3.4	6.2	7.0	27	142	11	6.5	4.4	2.2	7.2
28.....	14	7.3	4.2	8.9	7.0	51	90	30	7.5	8.6	2.0	7.2
29.....	14	7.0	7.0	7.0	.....	57	60	8.0	7.5	8.6	1.9	5.2
30.....	14	6.6	6.0	5.6	.....	59	99	7.0	11	6.6	1.9	4.6
31.....	12	.....	7.0	4.5	.....	65	.....	7.0	.....	4.1	4.6	.....
Total	359.4	254.7	166.6	183.9	168.2	3631.5	2781	1202.0	523.0	317.0	291.6	375.7
Mean	11.6	8.49	5.37	5.93	6.01	117	92.7	38.8	17.4	10.2	9.41	12.5
Max.	37	13	7.7	8.9	9.6	650	256	158	67	54	62	9.1
Min.	4.0	5.2	3.4	4.5	4.3	5.7	16	7.0	6.5	3.8	1.9	4.1
Acres-ft.	713	505	330	365	334	7200	5520	2 800	1610	629	578	745

Total run-off for water year = 20,340 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cherry Creek Near Melvin, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	16	1.5	16	9.0	18	10	21	50	12	13	4.0	9.0
2.....	24	1.5	16	6.0	27	7.0	28	26	12	8.0	3.5	9.0
3.....	22	1.5	15	5.2	10	10	38	26	12	0	1.0	6.0
4.....	20	1.5	15	1.5	15	10	20	24	18	2.0	0	4.5
5.....	18	3.0	15	5.1	18	13	27	16	86	3.5	0	4.5
6.....	15	4.5	11	9.5	13	11	18	12	9.0	1.5	0	4.5
7.....	14	4.5	11	8.0	13	1.5	18	12	7.0	3.5	0	4.5
8.....	13	1.5	11	9.5	12	9.0	20	9.0	151	5.0	0	21
9.....	13	4.5	10	10	11	1.0	14	4.5	22	1.0	0	15
10.....	13	4.5	6.5	11	10	6.0	12	5.0	13	5.0	0	11
11.....	11	3.5	4.5	11	10	9.0	13	6.0	15	7.0	0	7.0
12.....	10	2.5	3.0	10	16	12	11	4.5	14	9.0	2.0	2.0
13.....	8.0	1.8	2.0	9.5	15	14	9.0	1.5	15	5.0	0	3.0
14.....	7.0	2.5	1.4	8.5	14	13	11	0	9.0	51.5	0	4.5
15.....	5.0	3.5	1.4	7.5	13	21	13	0	11	19.0	0	2.5
16.....	4.5	5.5	1.5	8.5	14	32	9.0	0	20	69	5.0	4.0
17.....	4.5	13	1.5	6.0	12	26	7.0	0	26	24	20	4.5
18.....	4.5	15	1.7	6.0	14	22	12	0	15	10	8.0	4.0
19.....	4.0	10	2.5	8.5	11	21	13	1.5	6.0	6.0	8.0	3.0
20.....	4.0	8.0	3.0	7.5	12	16	12	3.5	3.0	4.0	4.0	3.0
21.....	4.0	10	4.5	6.0	10	16	16	4.0	1.0	1.5	6.2	3.5
22.....	3.0	10	7.0	4.5	13	14	12	3.5	1.5	1.0	28	14
23.....	3.0	8.0	13	4.3	10	14	18	5.5	1.5	1.0	160	3.0
24.....	3.0	10	13	4.2	14	22	18	20	1.0	.5	7.2	20
25.....	2.5	11	13	6.0	21	22	15	16	1.5	13	48	14
26.....	2.5	13	16	8.0	15	22	18	28	1.0	2.5	145	4.5
27.....	2.5	12	16	20	15	22	20	3.5	1.0	30	354	4.0
28.....	1.5	15	14	20	21	27	26	21	1.0	18	66	3.5
29.....	1.5	18	14	20	.....	42	18	20	2.0	4.5	38	8.0
30.....	1.5	16	13	18	.....	35	83	11	2.0	4.5	28	6.0
31.....	1.5	.....	14	15	.....	27	.....	11	.....	14	13	.....
Total	257.0	219.8	295.5	282.1	391	534.5	593.0	426.0	492.5	1116.0	1114.5	234.0
Mean.	8.29	7.33	9.53	9.10	14.1	17.2	19.8	13.7	16.4	36.0	36.0	7.80
Max.	24	18	16	20	27	42	83	55	154	515	354	30
Min.	1.5	1.5	1.4	4.2	10	4.0	7.0	0	1.0	0	0	2.0
Acre-ft.	510	436	586	560	781	1060	1180	845	977	2210	2210	461

Total run-off for water year=11,820 acre-feet.

Discharge of Cherry Creek Near Melvin, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	53	14	8.4	2.5	7.2	7.6	171	499	16	21	3.8	14
2.....	56	12	13	2.7	7.4	8.6	65	634	23	12	26	23
3.....	70	8.4	16	3.2	8.2	7.4	157	562	17	21	310	20
4.....	62	8.4	16	2.2	9.4	*7.7	47	370	28	13	171	4.1
5.....	65	12	12	2.0	8.6	13	47	185	17	13	13	4.1
6.....	56	14	12	2.6	8.2	15	50	59	16	4.4	6.0	14
7.....	53	13	3.2	2.8	12	14	53	70	59	4.4	7.2	9.6
8.....	33	8.4	9.6	3.1	11	20	53	65	35	4.4	6.0	6.0
9.....	36	8.4	11	3.5	10	37	50	90	30	6.0	4.4	3.8
10.....	20	4.9	0.4	4.2	*9.3	56	30	75	25	16	5.4	2.2
11.....	21	4.9	8.4	5.0	9.0	105	25	110	17	21	6.0	3.2
12.....	21	8.4	20	*4.1	7.4	136	23	75	28	18	8.4	4.1
13.....	26	6.0	9.6	3.8	7.0	604	41	50	26	8.4	9.6	4.1
14.....	32	11	12	3.7	6.6	890	47	65	26	6.0	9.6	3.2
15.....	56	8.4	11	4.7	6.2	553	41	70	26	5.4	8.4	2.2
16.....	25	11	7.2	4.2	6.0	220	30	56	17	4.9	5.4	2.2
17.....	11	9.6	13	3.7	7.0	65	32	85	21	12	4.4	2.2
18.....	11	9.6	8.4	4.3	9.0	95	62	56	33	11	2.2	3.2
19.....	9.6	12	14	4.0	12	129	652	53	17	6.0	0.4	4.9
20.....	11	7.2	19	5.2	14	26	338	56	14	11	0.4	5.4
21.....	12	9.6	13	7.8	15	53	482	56	14	17	0.4	4.9
22.....	12	13	8.6	11	13	85	262	50	26	11	0.4	4.4
23.....	20	12	6.0	14	10	553	199	33	20	9.6	0.4	8.4
24.....	41	16	7.0	13	9.6	535	241	35	16	6.0	0.5	8.4
25.....	9.6	17	4.5	13	10	418	680	25	14	7.2	0.4	8.4
26.....	11	18	4.0	14	11	105	800	14	14	3.8	0.4	7.2
27.....	9.6	8.4	4.3	*16	10	115	517	17	16	3.2	0.4	4.9
28.....	6.0	9.6	4.2	*17	8.8	85	213	23	11	1.6	0.4	8.4
29.....	12	9.6	5.4	13	.....	143	171	14	20	5.4	1.0	11
30.....	17	11	*5.7	10	.....	75	544	14	56	4.9	1.0	13
31.....	12	.....	3.5	8.0	.....	143	.....	16	.....	3.2	1.0	.....
Total	883.8	315.8	287.4	208.3	262.9	5319.3	6123	3582	698	291.8	613.9	213.2
Mean.	28.5	10.5	9.27	6.72	9.39	172	201	116	23.3	9.11	19.8	7.11
Max.	70	18	20	17	15	890	800	634	59	21	310	23
Min.	6.0	4.9	0.4	2.0	6.0	7.1	23	14	11	1.6	0.4	2.2
Acre-ft.	1750	626	570	413	521	10550	12110	7100	1380	579	1220	423

Total run-off for water year=37,270 acre-feet

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second

Discharge of Cherry Creek at Denver, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	19
2.....	37
3.....	19
4.....	21
5.....	4.0
6.....	8.0
7.....	11
8.....	7.0
9.....	5.0
10.....	3.6
11.....	7.0
12.....	7.0
13.....	5.0
14.....	3.6
15.....	3.6
16.....	2.8
17.....	2.8
18.....	10
19.....	7.0
20.....	6.0
21.....	7.0
22.....	11
23.....	11
24.....	11
25.....	9.0
26.....	7.0
27.....	8.0
28.....	2.8
29.....	3.2
30.....	2.4
31.....	2.8
Total	200.8
Mean.	9.56
Max..	21
Min..	2.4
Acre-ft.	398

Total run-off for period=917 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek Near Golden, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	144	66	64	54	45	45	55	235	1090	780	250	148
2....	135	78	62	50	44	49	53	244	984	714	250	143
3....	129	82	60	42	43	45	51	271	1060	635	248	132
4....	120	78	63	37	43	43	43	253	1210	611	236	131
5....	120	64	58	34	45	48	50	231	1250	611	232	125
6....	129	82	56	34	42	47	55	235	1200	563	228	119
7....	120	76	56	31	38	42	48	218	1210	527	219	110
8....	112	75	58	35	36	44	49	231	1060	577	260	160
9....	114	82	59	35	40	46	50	280	883	587	246	150
10....	112	80	60	37	*44	39	53	387	808	559	236	142
11....	105	68	58	39	49	38	53	560	766	536	244	130
12....	101	72	46	42	45	38	56	665	705	559	343	115
13....	96	45	35	*47	43	*38	64	883	685	513	307	92
14....	96	50	29	49	44	39	59	960	725	474	250	88
15....	94	72	32	52	45	41	72	872	756	470	267	100
16....	91	86	40	49	46	45	70	787	776	483	294	96
17....	85	98	41	41	42	47	70	818	960	433	258	98
18....	82	89	53	41	41	51	75	840	1080	409	242	91
19....	80	82	55	42	41	63	76	829	1170	401	238	90
20....	80	70	53	43	43	58	69	725	1020	394	238	99
21....	78	69	52	43	42	50	66	636	1080	366	258	104
22....	76	69	52	41	39	56	72	725	1400	363	238	122
23....	83	66	56	40	38	48	76	725	840	331	224	125
24....	87	69	58	40	39	42	76	818	1080	302	200	125
25....	85	64	57	41	40	42	82	872	1280	334	190	112
26....	82	70	54	45	38	44	100	960	1140	366	192	107
27....	78	66	57	48	37	44	122	1040	986	429	182	102
28....	78	64	57	48	42	41	155	1020	939	380	170	99
29....	76	64	54	46	....	47	188	972	862	328	159	97
30....	85	68	52	45	....	47	214	938	785	297	161	101
31....	80	....	55	44	....	45	....	1040	....	272	152	....
Total	3033	2164	1642	1319	1174	1412	2322	20270	29790	14604	7203	3453
Mean...	97.8	72.1	53.0	42.5	41.9	45.5	77.4	654	993	471	232	115
Max....	144	98	64	54	49	63	214	1040	1400	780	343	160
Min....	76	45	29	34	36	38	43	218	685	272	152	88
Acre-ft.	6020	4290	3260	2620	2330	2800	4610	40200	59090	28970	14290	6850

Total run-off for water year=175,300 acre-feet.

Discharge of Clear Creek Near Golden, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	90	98	86	....	....	....	48	483	970	177	247	124
2....	82	99	84	....	....	....	15	483	1020	452	252	124
3....	85	100	84	....	....	....	50	451	1010	433	302	124
4....	90	104	82	....	....	....	58	469	1030	436	293	117
5....	89	104	82	....	....	....	64	497	1030	421	270	119
6....	84	106	80	....	....	....	80	474	1070	436	252	117
7....	78	98	78	....	....	....	84	492	1090	427	208	113
8....	80	98	77	....	....	....	94	506	1070	421	208	112
9....	80	105	63	....	....	....	74	562	1010	418	208	108
10....	79	101	52	....	....	....	100	591	1010	410	204	112
11....	77	100	57	....	....	....	105	640	1080	393	204	106
12....	76	97	54	*41	....	....	96	670	1110	371	194	117
13....	76	97	53	....	....	....	120	600	1120	364	194	122
14....	83	88	50	....	....	....	75	581	1030	364	198	113
15....	82	87	50	....	....	....	170	539	954	364	190	106
16....	80	86	50	....	....	....	150	515	1000	364	184	103
17....	76	86	50	....	....	....	*149	497	1090	360	182	99
18....	82	87	49	....	....	....	178	488	1160	379	178	94
19....	89	86	54	....	....	....	250	474	1120	353	172	99
20....	89	86	50	....	....	....	277	492	1100	336	168	85
21....	89	78	56	....	*57	....	292	506	1090	332	168	81
22....	98	75	58	....	....	....	323	562	*1120	325	164	79
23....	149	73	50	....	....	....	379	670	980	320	166	75
24....	130	74	47	....	....	....	424	730	592	311	166	71
25....	128	80	45	....	....	....	433	788	562	297	164	67
26....	118	86	40	....	....	....	451	898	547	279	155	65
27....	109	92	36	....	....	....	469	1010	536	274	149	64
28....	109	92	37	....	....	....	451	948	484	277	140	65
29....	116	89	40	....	....	....	465	959	490	268	137	65
30....	109	90	43	....	....	....	511	954	464	254	126	64
31....	97	....	14	....	....	....	....	959	....	238	122	....
Total	2899	2742	1781	1333	1596	1860	6465	19488	27939	11154	5965	2910
Mean...	93.5	91.4	57.5	43	57	60	216	629	931	360	192	97
Max....	149	106	86	....	....	....	511	1010	1160	477	302	124
Min....	76	73	36	....	....	....	45	451	464	238	122	64
Acre-ft.	5750	5440	3530	2640	3170	3690	12820	38650	55420	22120	11830	5770

Total run-off for water year=170,800 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek at Mouth Near Derby, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	62	5.6	19	19	16	12	6.9	43	546	152	22	11
2.....	51	6.2	16	19	16	12	12	57	474	150	18	11
3.....	46	6.2	16	18	15	12	18	69	537	92	20	10
4.....	37	6.5	15	18	15	12	11	65	510	82	22	10
5.....	37	5.3	14	16	15	12	7.2	49	371	117	17	9.1
6.....	41	4.9	14	16	14	14	9.2	46	556	119	20	9.1
7.....	36	4.9	14	18	14	15	6.9	52	599	115	24	9.1
8.....	20	5.6	14	18	15	14	5.9	47	678	114	39	33
9.....	18	7.8	14	21	15	13	5.6	69	435	123	28	20
10.....	17	11	14	*25	14	14	5.3	120	187	253	25	15
11.....	12	12	13	21	12	14	5.3	174	118	222	25	13
12.....	11	12	13	*16	14	14	7.2	158	102	197	161	9.8
13.....	10	12	12	*13	14	16	9.6	252	102	197	146	13
14.....	8.9	14	13	*13	14	18	9.2	276	96	80	51	10
15.....	8.6	21	14	13	15	16	18	233	96	50	31	12
16.....	7.2	24	15	12	14	18	7.5	120	105	38	56	7.0
17.....	7.2	25	19	13	12	16	7.2	123	162	32	33	7.0
18.....	7.2	26	*22	13	12	14	14	192	259	29	27	5.5
19.....	6.5	36	23	14	12	12	26	209	470	20	23	5.5
20.....	6.5	29	22	15	13	12	24	224	578	25	21	6.0
21.....	5.6	26	22	16	14	10	14	140	510	45	22	9.8
22.....	4.6	22	23	15	14	12	9.2	146	901	43	20	18
23.....	5.3	21	24	14	14	10	11	417	810	35	22	21
24.....	5.6	20	26	13	13	12	11	290	810	21	18	23
25.....	4.9	18	24	12	14	14	11	249	686	26	17	15
26.....	5.3	18	22	13	14	13	10	320	546	108	15	11
27.....	4.9	18	23	14	12	12	12	448	401	121	13	10
28.....	4.9	16	18	16	12	14	34	430	313	117	13	9.1
29.....	5.6	17	19	16	.....	10	40	448	192	77	13	10
30.....	5.6	18	18	15	.....	12	29	461	114	31	15	10
31.....	5.6	.....	20	15	.....	11	.....	492	.....	27	10	.....
Total	508.0	469.0	555	490	388	410	397.2	6419	12291	2858	987	363.0
Mean.	16.4	15.6	17.9	15.8	13.9	13.2	13.2	207	410	92.2	31.8	12.1
Max.	62	36	26	25	16	18	10	492	904	253	161	33
Min.	4.6	4.9	12	12	12	10	5.3	43	90	30	10	5.5
Acre-ft.	1010	930	1100	972	770	813	788	12730	24380	5670	1960	720

Total run-off for water year=51,840 acre-feet.

Discharge of Clear Creek at Mouth Near Derby, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	9.1	22	20	18	50	55	27	752	560	370	19	13
2.....	11	19	20	18	53	58	26	720	550	263	138	13
3.....	11	14	21	18	58	67	52	680	525	166	291	14
4.....	18	15	21	17	60	79	32	640	520	104	126	13
5.....	14	25	22	17	56	112	50	630	524	81	36	13
6.....	10	29	21	15	48	110	32	620	550	74	30	14
7.....	8.4	29	20	13	43	101	45	618	610	122	21	12
8.....	8.4	27	18	15	49	110	44	615	654	118	21	24
9.....	10	34	20	17	48	167	34	615	658	135	21	33
10.....	12	36	17	19	54	126	43	600	620	148	17	54
11.....	11	33	19	22	50	106	36	610	638	123	14	100
12.....	9.8	34	22	22	48	98	36	610	750	52	18	132
13.....	15	20	21	21	50	94	40	600	780	34	22	70
14.....	38	15	20	20	51	104	29	595	742	34	20	142
15.....	39	15	20	*20	50	87	39	593	698	55	20	192
16.....	20	15	20	20	49	82	33	585	720	62	16	71
17.....	11	15	22	20	49	76	24	580	980	59	16	7.5
18.....	13	15	21	20	43	75	36	580	1120	67	16	10
19.....	12	15	21	21	42	88	409	580	880	71	16	26
20.....	9.1	12	22	21	44	79	442	570	952	50	16	4.2
21.....	11	11	22	22	49	80	370	550	828	29	16	1.9
22.....	15	11	20	23	49	85	358	530	820	19	16	2.0
23.....	76	13	19	24	48	88	506	510	932	18	14	2.0
24.....	62	17	18	26	48	85	810	510	900	19	12	2.0
25.....	39	24	17	26	49	88	1300	515	772	20	11	2.0
26.....	29	26	*16	28	47	81	1340	560	681	20	11	2.1
27.....	19	26	16	30	48	73	1000	590	623	20	12	2.2
28.....	19	24	16	35	51	65	844	610	464	19	12	2.2
29.....	25	27	19	50	.....	44	620	620	313	18	12	2.0
30.....	26	21	21	101	.....	37	680	610	313	19	12	2.0
31.....	24	.....	19	60	.....	32	.....	590	.....	18	13	.....
Total	634.8	639	611	799	1387	2632	9337	18588	20677	2407	1035	977.9
Mean.	20.5	21.3	19.7	25.8	49.5	84.9	371	600	689	77.6	33.4	32.6
Max.	76	36	22	161	60	167	1340	752	1120	370	291	192
Min.	8.4	11	16	13	42	32	24	510	313	18	11	1.9
Acre-ft.	1260	1270	1210	1580	2750	5220	18520	36870	41010	4770	2050	1940

Total run-off for water year=118,400 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Fork of Clear Creek Above Empire, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	27
2.....	26
3.....	27
4.....	28
5.....	27
6.....	Aug. 7 to 31	26
7.....	66	25
8.....	70	25
9.....	59	23
10.....	58	23
11.....	56	27
12.....	54	27
13.....	51	24
14.....	47	23
15.....	52	22
16.....	44	20
17.....	43	19
18.....	41	14
19.....	39	14
20.....	38	14
21.....	38	14
22.....	37	13
23.....	37	13
24.....	39	13
25.....	38	12
26.....	35	13
27.....	34	13
28.....	32	13
29.....	30	13
30.....	29	13
31.....	27	.....
Total.....	1094	591
Mean.....	43.8	19.7
Max.....	70	28
Min.....	27	12
Acre-ft.....	2170	1170

Total run-off for period=3,340 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of North St. Vrain Creek at Longmont Dam, Near Lyons, Colo., for
Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	71	17	14	10	8.6	9.9	26	244	288	186	77	38
2.....	63	19	14	9.5	8.4	9.7	26	215	276	188	74	38
3.....	59	19	14	8.4	8.4	9.0	25	212	272	182	70	59
4.....	50	19	14	6.9	8.4	8.6	27	183	272	180	67	67
5.....	50	11	13	8.2	8.8	8.6	32	158	269	178	66	65
6.....	56	20	14	8.4	9.0	8.6	37	151	248	174	78	64
7.....	47	19	12	7.7	8.4	8.6	32	125	258	174	76	62
8.....	43	18	14	7.9	7.9	10	33	113	296	202	80	76
9.....	42	19	14	8.2	7.9	9.3	31	123	255	208	77	70
10.....	41	17	12	7.9	8.4	9.0	34	142	203	180	72	65
11.....	38	13	6.7	7.9	8.8	6.2	30	162	170	186	57	61
12.....	35	9.7	11	7.9	8.8	7.7	38	194	155	190	76	57
13.....	32	4.7	8.2	8.6	8.6	7.9	47	276	155	186	65	57
14.....	30	8.2	10	8.8	8.4	7.5	40	331	189	157	55	60
15.....	30	18	13	9.3	8.4	7.5	51	272	225	153	74	57
16.....	27	22	14	8.4	9.0	6.9	55	228	276	149	78	61
17.....	25	22	14	6.9	8.4	7.7	56	244	288	133	66	58
18.....	23	20	14	6.0	8.8	9.5	58	272	307	142	63	62
19.....	23	18	12	6.7	9.0	10	58	241	319	147	90	58
20.....	22	14	12	7.1	8.8	11	56	183	296	140	97	55
21.....	21	16	12	7.9	8.8	11	62	155	303	142	94	54
22.....	19	16	12	8.8	9.0	13	72	183	394	128	105	65
23.....	19	12	13	9.0	8.6	11	78	194	264	115	82	65
24.....	18	15	13	9.0	8.2	12	88	222	243	106	74	60
25.....	18	16	12	9.3	8.6	12	90	284	235	103	67	44
26.....	19	12	10	9.0	7.7	13	93	327	246	124	69	40
27.....	20	13	11	8.8	7.3	15	121	327	221	121	67	36
28.....	19	14	12	8.4	8.4	14	197	288	210	109	51	35
29.....	18	16	12	8.4	.....	16	311	266	184	100	43	33
30.....	20	15	12	9.0	.....	18	303	255	172	96	45	33
31.....	18	.....	12	9.0	.....	22	.....	272	.....	83	39	.....
Total	1016	474.6	380.9	257.3	237.8	330.2	2207	6842	7489	4656	2194	1658
Mean.	32.8	15.8	12.3	8.3	8.49	10.7	73.6	221	250	150	70.8	55.3
Max.	71	22	14	10	9.0	22	311	331	394	208	105	76
Min.	18	4.7	6.7	6.0	7.3	6.2	25	113	155	83	39	33
Acres-ft.	2020	941	756	510	472	655	1380	13570	14850	9240	4350	3290

Total run-off for water year=55,030 acre-feet.

**Discharge of North St. Vrain Creek at Longmont Dam Near Lyons, Colo., for Year
Ending Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	31	43	20	12	12	10	20	302	375	312	110	59
2.....	28	42	20	14	12	10	23	332	394	305	123	57
3.....	31	40	21	14	12	11	29	295	382	305	116	52
4.....	35	43	18	12	12	10	37	276	423	295	103	51
5.....	34	40	5.6	12	12	11	54	299	486	308	85	59
6.....	30	39	14	12	11	11	52	276	510	332	92	52
7.....	28	34	17	12	12	10	47	258	534	371	86	48
8.....	31	35	14	12	12	11	17	279	498	343	85	45
9.....	30	39	17	13	12	12	62	289	482	302	89	44
10.....	29	35	16	13	12	14	70	319	530	289	78	51
11.....	28	33	16	14	12	14	92	339	649	252	76	57
12.....	27	33	14	13	12	16	98	322	649	246	76	60
13.....	28	31	14	14	12	16	103	252	559	232	78	56
14.....	33	30	15	13	12	16	121	200	486	235	96	50
15.....	40	31	15	12	12	14	131	176	408	252	97	45
16.....	36	28	16	13	12	15	118	160	466	229	92	46
17.....	34	25	17	14	11	14	115	149	555	283	97	38
18.....	34	24	14	12	11	15	119	137	610	346	65	38
19.....	33	17	16	12	11	15	202	124	601	270	54	40
20.....	30	9.7	15	12	11	14	218	116	564	212	47	38
21.....	30	8.2	15	11	11	14	273	121	534	184	47	33
22.....	30	15	15	12	11	17	353	149	518	166	51	43
23.....	97	13	13	12	11	20	416	202	498	149	50	47
24.....	97	16	17	12	11	22	420	200	446	140	51	46
25.....	84	24	15	12	11	18	397	237	446	140	67	43
26.....	67	27	10	12	11	17	339	322	439	126	69	40
27.....	57	24	13	12	11	18	286	390	431	121	65	38
28.....	57	22	12	13	10	20	273	315	350	128	62	34
29.....	51	22	16	13	.....	18	312	332	289	123	63	32
30.....	45	20	15	12	.....	18	386	346	319	115	62	28
31.....	58	.....	14	12	.....	19	.....	368	.....	112	59	.....
Total	1283	842.9	469.6	388	322	460	5213	7882	14366	7223	2382	1370
Mean.	41.4	28.1	15.1	12.5	11.5	14.8	174	254	479	233	76.8	45.7
Max.	97	43	21	14	12	22	420	390	649	371	123	60
Min.	27	8.2	5.6	11	10	10	20	116	289	112	47	28
Acres-ft.	2546	1670	931	770	639	912	10340	15630	28490	14330	4720	2720

Total run-off for water year=83,690 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Vrain Creek at Lyons, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	100	1.7	13	7.0	5.0	8.5	42	416	477	312	90	47
2.....	93	1.7	13	5.5	4.0	9.6	44	345	454	336	100	45
3.....	89	1.6	14	3.8	4.0	9.0	44	317	426	356	97	50
4.....	77	1.5	14	3.0	6.5	7.0	48	268	460	430	95	56
5.....	69	1.0	11	2.8	10	8.0	55	217	471	453	94	66
6.....	81	1.3	13	3.6	10	9.6	56	196	437	420	100	64
7.....	75	1.9	8.5	3.8	7.5	3.2	49	154	466	369	98	65
8.....	64	1.8	9.6	3.6	4.5	1.6	45	135	488	439	114	84
9.....	61	1.8	10	5.0	5.0	1.6	45	163	379	415	107	86
10.....	56	2.0	9.0	4.5	5.0	1.5	48	192	326	284	103	80
11.....	56	3.4	3.0	4.0	5.5	1.3	45	210	277	266	76	86
12.....	53	7.0	2.8	3.8	6.0	1.6	49	290	256	262	90	76
13.....	48	5.0	3.8	4.0	7.0	2.4	64	395	304	231	82	75
14.....	45	3.4	3.2	4.5	6.0	1.9	49	500	374	203	69	80
15.....	44	11	6.0	4.0	5.5	1.9	58	416	432	195	81	86
16.....	43	26	8.0	6.0	6.5	1.7	61	364	448	203	92	78
17.....	41	26	9.6	3.4	6.0	1.8	72	384	416	176	76	76
18.....	40	25	11	3.4	6.5	2.4	79	432	454	181	86	78
19.....	36	21	12	3.0	7.0	3.0	70	400	494	179	81	72
20.....	35	16	10	3.4	7.0	4.0	69	304	421	158	76	68
21.....	34	17	10	4.0	7.0	3.6	72	247	389	163	81	66
22.....	33	15	9.6	4.5	7.5	6.0	89	290	1550	147	84	80
23.....	32	12	10	4.0	7.0	5.5	100	326	658	136	86	80
24.....	28	12	10	4.5	6.5	9.6	132	345	584	123	86	74
25.....	25	17	9.6	4.5	6.5	11	145	426	578	130	80	60
26.....	24	14	7.5	4.5	5.5	12	151	477	621	145	80	54
27.....	23	10	7.5	5.0	6.0	24	236	506	621	158	76	46
28.....	23	13	7.5	5.5	6.0	27	620	460	531	136	66	45
29.....	5.0	18	7.5	7.0	.....	28	614	477	397	119	57	48
30.....	2.2	17	9.0	7.0	.....	33	519	460	328	123	55	46
31.....	1.9	.....	9.0	7.5	.....	42	.....	466	.....	97	49	.....
Total	1437.1	306.10	281.7	140.1	174.5	283.3	3770	10578	14517	7345	2607	2007
Mean.	46.4	10.2	9.09	4.52	6.23	9.14	126	341	484	237	84.1	66.9
Max.	100	26	14	7.5	10	42	620	506	1550	453	114	86
Min.	1.9	1.0	2.8	2.8	4.0	1.3	42	135	256	97	49	45
Acree-ft.	2850	607	559	278	346	562	7480	20980	28790	14570	5170	3980

Total run-off for water year=86,170 acre-feet.

Discharge of St. Vrain Creek at Lyons, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	42	50	27	13	12	11	36	656	586	353	118	85
2.....	37	52	26	14	12	12	36	776	625	371	196	85
3.....	32	52	24	16	13	13	48	688	625	353	160	76
4.....	31	52	25	16	12	12	65	594	656	358	143	71
5.....	33	49	11	16	11	19	83	609	672	380	134	81
6.....	30	56	7	14	10	14	95	550	688	433	129	76
7.....	27	50	21	13	12	9	91	530	834	491	116	67
8.....	27	40	13	12	12	17	74	578	736	459	108	64
9.....	29	49	17	13	14	18	76	632	696	385	104	61
10.....	27	45	17	13	9	22	106	696	776	380	96	51
11.....	25	40	15	14	13	23	138	712	921	331	94	48
12.....	9.0	42	15	16	13	24	163	648	1060	318	94	53
13.....	2.5	42	14	16	11	26	174	491	912	301	102	53
14.....	17	37	17	14	11	26	202	391	760	306	89	42
15.....	21	37	6.0	12	9	23	208	327	648	322	85	45
16.....	15	36	2.0	11	10	27	188	293	648	306	76	53
17.....	13	36	3.5	13	11	24	174	277	768	344	67	47
18.....	8.0	35	3.5	11	16	23	177	240	921	417	71	50
19.....	5.0	25	3.5	9	14	26	412	211	984	353	87	53
20.....	8.0	13	3.5	9	12	25	433	211	903	281	59	47
21.....	11	6	7.0	9	10	22	478	215	817	248	54	44
22.....	23	13	18	8	9	25	680	247	784	219	58	51
23.....	140	19	12	9	8	31	851	306	760	201	76	58
24.....	143	21	17	10	9	36	912	380	688	182	76	53
25.....	104	29	14	11	10	36	800	376	640	182	69	44
26.....	85	35	8	12	10	35	680	517	602	165	67	39
27.....	76	32	9	13	9	29	602	688	563	160	66	33
28.....	78	29	12	14	11	30	550	530	433	162	64	31
29.....	72	29	15	14	.....	32	648	530	335	160	62	26
30.....	63	27	18	7	.....	33	826	537	340	138	81	22
31.....	42	.....	16	10	.....	33	.....	578	.....	127	87	.....
Total	1275.5	1078	417.0	382	313	736	10006	15014	21381	9186	2868	1609
Mean.	41.1	35.9	13.5	12.3	11.2	23.7	334	484	713	296	92.5	53.6
Max.	143	56	27	16	16	36	912	776	1060	491	196	85
Min.	2.5	6	2	7	8	9	36	211	335	127	54	22
Acree-ft.	2530	2140	827	758	621	1460	18850	29780	42410	18220	5690	3190

Total run-off for water year=127,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Vrain Creek at Mouth Near Platteville, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	238	54	54	53	64	54	80	512	99	190	92	65
2.....	176	53	54	49	60	51	80	440	136	111	82	53
3.....	128	53	53	48	60	42	82	432	104	91	76	44
4.....	110	52	53	35	59	36	87	432	82	107	64	37
5.....	96	51	52	32	64	32	94	380	91	118	57	33
6.....	90	51	53	34	63	33	90	360	146	114	52	29
7.....	86	50	52	38	63	38	83	321	220	116	65	32
8.....	81	50	51	39	60	38	69	250	318	95	85	54
9.....	77	51	51	40	60	38	56	215	554	85	89	74
10.....	77	54	51	*41	61	*39	52	230	562	80	98	67
11.....	86	53	51	41	62	46	50	536	480	79	114	62
12.....	86	54	50	42	63	45	50	275	353	94	181	65
13.....	86	49	48	44	65	49	50	275	306	144	169	74
14.....	85	41	46	47	65	56	51	289	306	170	114	81
15.....	85	45	46	49	63	56	82	258	295	146	94	80
16.....	69	56	36	42	62	57	132	109	289	140	93	69
17.....	65	65	39	40	61	58	120	72	394	121	94	58
18.....	60	65	43	44	59	57	134	60	432	100	212	60
19.....	60	64	*45	50	59	54	196	57	408	92	169	63
20.....	58	63	45	53	61	51	211	100	337	88	145	59
21.....	56	62	43	51	61	52	190	107	217	95	132	62
22.....	55	63	44	48	60	55	182	83	484	78	162	73
23.....	55	62	44	47	59	60	209	192	1550	71	160	114
24.....	54	58	43	45	59	67	217	238	1120	64	134	119
25.....	54	56	44	45	56	76	222	155	890	60	125	118
26.....	57	56	45	54	55	76	217	128	900	105	123	116
27.....	65	56	47	61	54	80	240	122	835	149	116	110
28.....	63	56	50	56	53	86	286	164	650	138	107	100
29.....	62	56	54	59	.....	82	516	135	458	109	94	93
30.....	64	55	54	65	.....	82	579	107	350	104	87	92
31.....	57	.....	53	67	.....	81	.....	91	.....	102	74	.....
Total	2541	1654	1491	1459	1691	1727	4707	7125	13396	3356	3459	2156
Mean.	82.0	55.1	48.1	47.1	60.4	55.7	157	230	447	108	112	71.9
Max...	238	65	54	67	65	86	579	512	1550	190	212	119
Min....	54	41	36	32	53	32	50	57	82	60	52	29
Acre-ft.	5040	3280	2960	2890	3350	3430	9340	14130	26570	6660	6860	4280

Total run-off for water year=88,790 acre-feet.

Discharge of St. Vrain Creek at Mouth Near Platteville, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	96	128	105	92	133	120	142	3800	704	714	169	107
2.....	89	118	112	88	138	122	124	3280	518	647	187	118
3.....	94	100	119	84	148	123	122	4540	312	627	259	103
4.....	104	96	107	78	158	124	121	3340	227	640	277	98
5.....	96	90	98	72	170	127	122	2770	191	593	196	82
6.....	94	86	98	76	159	132	139	2670	179	486	165	82
7.....	96	96	98	84	*154	150	153	2460	217	299	147	79
8.....	100	94	85	91	154	170	199	2420	424	199	118	76
9.....	100	84	93	98	151	250	208	2500	464	141	115	75
10.....	102	82	107	121	151	350	212	2630	531	132	104	72
11.....	104	82	114	132	152	463	206	2790	472	126	159	66
12.....	104	78	100	140	152	336	247	2760	1020	117	157	80
13.....	98	77	94	134	151	274	276	2590	2120	115	157	90
14.....	110	74	80	124	142	240	302	2220	2300	185	165	80
15.....	137	72	80	127	131	208	335	1980	1800	149	180	64
16.....	121	69	87	*131	123	184	377	1850	1640	147	145	58
17.....	121	67	93	129	116	169	345	1720	1730	139	139	61
18.....	114	67	92	120	103	169	370	1640	1910	126	120	65
19.....	105	64	94	114	104	158	657	1530	2140	161	104	92
20.....	98	63	87	110	112	157	1800	1450	2180	214	101	98
21.....	94	60	80	104	123	158	2000	1500	2110	233	93	99
22.....	127	60	78	107	130	157	1780	1530	2000	204	89	90
23.....	147	74	78	112	128	153	1930	1600	2110	178	92	89
24.....	451	63	77	121	121	144	2320	1640	1930	178	93	86
25.....	289	62	76	125	111	148	4470	1610	1830	161	87	83
26.....	208	64	80	128	115	157	3690	1530	1730	165	89	85
27.....	154	65	*86	135	*117	158	3030	1490	1620	153	89	93
28.....	139	82	90	149	118	144	2510	1260	1520	192	80	83
29.....	141	102	92	155	.....	140	2280	910	1180	182	93	78
30.....	136	109	96	156	.....	132	2540	704	815	187	98	75
31.....	130	.....	94	140	.....	139	.....	632	.....	187	101	.....
Total	4099	2428	2870	3577	3765	5656	33007	65346	37924	7977	4168	2507
Mean.	132	80.9	92.6	115	134	182	1100	2108	1264	257	134	83.6
Max...	451	128	119	156	170	463	4470	4540	2300	714	277	118
Min....	89	60	76	72	103	120	121	632	179	115	80	58
Acre-ft.	8130	4820	5690	7090	7470	11220	65470	129600	75220	15820	8270	4970

Total run-off for water year=343,800 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lefthand Creek at Mouth at Longmont, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	10	5.2	4.8	2.8	2.4	3.0	2.8	144	10	18	8.6	5.4
2.....	9.9	5.9	3.9	2.8	1.9	2.8	3.3	145	12	1.5	6.8	3.3
3.....	8.5	5.4	4.1	2.8	1.8	2.8	3.8	140	10	4.9	5.5	4.4
4.....	6.1	4.5	4.1	2.8	1.9	2.7	6.6	122	14	12	5.3	3.8
5.....	5.6	4.8	5.6	2.8	2.2	2.8	6.8	105	15	17	5.3	3.6
6.....	5.6	5.2	2.7	2.8	2.5	2.7	3.3	98	22	15	5.4	3.6
7.....	5.0	4.3	1.6	2.8	2.7	2.4	2.8	83	26	8.0	10	3.0
8.....	5.0	4.5	1.3	2.8	2.2	2.5	3.3	65	34	5.0	11	4.1
9.....	5.0	5.6	1.2	2.8	1.8	2.3	3.5	61	44	4.3	10	6.2
10.....	4.3	5.6	1.3	2.8	1.9	2.5	3.3	66	42	6.0	12	8.2
11.....	3.9	4.7	1.4	2.8	1.9	2.8	3.3	50	30	7.8	9.5	5.4
12.....	4.3	5.0	1.7	2.8	2.2	2.1	3.5	39	22	10	9.5	7.0
13.....	4.3	4.8	2.0	2.8	2.2	2.2	3.5	34	21	17	9.5	5.4
14.....	3.9	4.7	2.1	2.8	2.2	2.5	4.3	18	21	15	8.6	7.0
15.....	4.1	5.0	2.1	2.8	2.7	3.1	8.7	3.3	21	15	8.2	7.0
16.....	4.3	5.2	2.2	*3.2	2.5	3.1	5.9	3.8	21	13	8.2	5.4
17.....	4.5	5.0	2.7	3.0	2.1	2.8	6.1	3.6	22	10	7.4	12
18.....	4.3	4.5	*3.1	3.0	2.4	2.8	15	3.6	19	9.0	5.8	12
19.....	5.0	4.8	3.5	3.0	2.7	2.8	22	6.6	20	11	6.6	10
20.....	5.4	5.0	3.3	3.0	2.3	2.5	21	10	14	13	7.0	8.2
21.....	5.4	4.1	3.3	3.0	2.4	2.8	25	5.8	24	21	7.0	9.5
22.....	5.4	4.1	3.6	3.0	3.0	3.8	28	7.8	95	13	10	11
23.....	5.4	5.4	3.2	3.0	2.8	3.8	34	24	73	8.0	9.0	10
24.....	5.2	5.4	3.0	3.0	2.0	3.8	34	28	67	7.4	9.0	9.5
25.....	5.2	4.8	2.8	3.0	3.0	4.3	42	28	59	7.0	11	7.0
26.....	5.4	4.8	2.8	3.0	3.3	5.0	48	32	52	10	9.5	5.8
27.....	5.4	5.4	2.8	3.0	2.4	5.6	64	34	44	15	9.5	5.0
28.....	5.2	4.8	2.7	3.0	2.4	5.4	95	20	45	22	8.6	5.0
29.....	5.2	3.9	2.7	3.0	.....	3.9	170	18	41	16	9.0	5.0
30.....	5.6	3.8	2.7	3.0	.....	3.6	172	12	30	15	7.8	5.0
31.....	5.4	.....	2.6	3.0	.....	3.0	.....	8.2	.....	.....	12	7.4
Total	167.8	146.2	86.9	90.2	65.8	98.2	844.8	1418.7	970	361.9	258.0	197.8
Mean	5.41	4.87	2.80	2.91	2.35	3.17	28.2	45.8	32.3	11.7	8.32	6.59
Max.	10	5.9	5.6	.....	3.3	5.6	172	145	95	22	12	12
Min.	3.9	3.8	1.2	.....	1.8	2.1	2.8	3.3	10	4.3	5.3	3.0
Acre-ft.	333	290	172	179	131	195	1680	2810	1920	718	512	392

Total run-off for water year=9,330 acre-feet.

Discharge of Lefthand Creek at Mouth at Longmont, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	5.0	10	5.0	.....	.....	11	8.2	228	50	55	11	5.8
2.....	4.7	7.8	4.4	.....	.....	11	7.4	223	45	54	11	7.5
3.....	5.8	6.6	4.1	.....	.....	11	9.0	204	43	51	12	7.1
4.....	7.4	5.8	3.6	.....	.....	11	14	182	43	48	13	7.3
5.....	5.8	6.6	3.6	.....	.....	11	21	197	42	48	12	6.3
6.....	5.0	8.6	5.4	.....	.....	11	24	209	41	48	11	6.5
7.....	5.0	12	4.1	.....	.....	12	28	204	41	48	10	6.5
8.....	5.0	10	4.4	.....	.....	12	30	216	45	48	9.4	8.2
9.....	5.0	10	3.8	.....	.....	13	31	226	46	48	9.2	8.2
10.....	5.0	12	3.8	.....	.....	14	31	221	48	40	*8.7	8.4
11.....	3.6	12	3.6	.....	.....	16	45	218	46	22	9.2	8.4
12.....	2.7	11	3.6	*5.8	.....	15	57	197	50	15	9.4	9.8
13.....	3.0	8.2	4.1	.....	.....	13	64	184	86	12	9.6	10
14.....	4.1	6.2	4.1	.....	.....	12	63	178	127	11	10	9.2
15.....	3.0	8.2	3.0	.....	.....	7.4	60	166	92	*11	11	9.6
16.....	3.0	11	3.6	.....	.....	7.8	66	164	85	11	10	10
17.....	4.1	8.6	3.6	.....	.....	7.4	65	164	80	10	9.4	8.8
18.....	5.0	7.4	3.6	.....	*11	8.6	73	157	85	10	8.0	10
19.....	5.0	7.4	3.3	.....	.....	10	186	153	88	9.7	7.0	12
20.....	4.4	5.0	3.6	.....	.....	7.8	193	142	92	9.9	6.0	9.8
21.....	5.0	4.4	3.3	.....	.....	7.0	164	134	85	11	5.4	9.6
22.....	5.4	5.0	2.7	.....	.....	10	251	139	86	12	4.9	9.4
23.....	15	7.4	2.7	.....	.....	9.5	324	144	87	12	4.7	9.4
24.....	15	5.0	2.7	.....	.....	10	346	144	80	11	4.8	8.0
25.....	14	4.7	2.7	.....	.....	13	300	130	72	11	4.8	7.5
26.....	11	5.4	2.7	.....	.....	12	270	109	76	11	5.0	9.0
27.....	7.8	3.6	3.0	.....	.....	14	253	80	70	10	5.2	8.4
28.....	9.0	4.1	3.3	.....	.....	12	241	61	61	10	5.0	7.5
29.....	8.6	6.2	3.5	.....	.....	10	254	58	51	11	4.8	8.0
30.....	8.6	5.8	3.8	.....	.....	7.4	283	55	50	11	3.3	8.0
31.....	9.0	.....	3.9	.....	.....	7.4	.....	51	.....	11	3.8	.....
Total	200.0	226.0	112.6	155	280	334.3	3761.6	4938	1993	730.6	248.6	254.2
Mean	6.45	7.53	3.63	5.0	10	10.8	125	159	66.4	23.6	8.02	8.47
Max.	15	12	5.4	.....	.....	16	346	228	127	55	13	12
Min.	2.7	3.6	2.7	.....	.....	7.0	7.4	51	41	9.7	3.3	5.8
Acre-ft.	397	448	223	307	555	663	7160	9790	3950	1450	493	504

Total run-off for water year=26,240 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Boulder Creek Near Orodell, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	23	17	9.2	8.6	9.8	12	28	117	365	174	80	28
2.....	18	10	26	15	8.0	14	25	119	375	174	78	44
3.....	16	13	25	15	16	15	21	130	306	180	72	57
4.....	15	24	29	29	18	18	26	117	283	156	79	49
5.....	9.8	15	31	2.6	11	21	29	135	360	180	76	42
6.....	13	23	32	21	21	21	42	130	365	195	76	26
7.....	14	20	18	15	16	11	70	128	345	153	84	16
8.....	15	28	9.2	13	15	11	59	125	350	171	78	32
9.....	16	12	21	17	9.2	9.4	32	125	330	177	82	33
10.....	13	18	34	15	14	25	33	130	283	168	93	51
11.....	11	13	31	13	16	23	28	140	235	156	69	50
12.....	9.8	19	19	5.6	15	16	30	174	210	148	84	51
13.....	10	27	18	15	16	17	40	174	198	135	89	22
14.....	22	25	27	21	15	14	46	198	180	142	85	19
15.....	25	25	8.6	15	15	13	33	183	207	145	79	28
16.....	21	20	9.2	17	6.2	9.8	33	223	311	128	84	30
17.....	23	16	21	16	17	28	36	283	360	125	80	44
18.....	23	33	17	3.6	18	15	32	270	385	145	80	34
19.....	19	37	25	1.5	21	20	31	296	380	128	100	36
20.....	11	31	26	17	16	20	37	252	350	112	110	22
21.....	21	7.4	36	8.6	15	22	38	244	390	123	110	21
22.....	25	14	11	11	13	21	42	244	375	128	108	44
23.....	23	21	26	9.2	10	18	41	274	360	112	76	35
24.....	19	18	24	11	27	18	44	248	345	119	54	40
25.....	37	43	1.6	13	13	16	43	218	325	106	63	37
26.....	23	29	29	7.4	20	13	51	274	310	102	74	33
27.....	15	29	28	11	16	13	69	365	300	112	62	22
28.....	23	29	27	13	15	13	98	335	280	114	51	16
29.....	31	30	4.3	15	.....	12	100	274	265	100	55	40
30.....	28	18	20	13	.....	16	117	265	207	89	50	32
31.....	18	.....	16	13	.....	20	.....	270	.....	84	20	.....
Total	590.6	664.4	665.1	404.1	422.2	518.2	1354	6460	9335	4281	2361	1034
Mean.	19.1	22.1	21.5	13.0	15.1	16.7	45.1	208	311	138	76.2	34.5
Max.	37	43	36	29	27	28	117	365	390	195	110	57
Min.	9.8	7.4	4.3	1.5	6.2	9.4	21	117	180	84	20	16
Acre-ft.	1170	1320	1320	892	837	1030	2639	12810	18520	8490	4680	2050

Total run-off for water year=55,720 acre-feet.

Discharge of Boulder Creek Near Orodell, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	33	16	37	38	17	12	28	274	256	296	110	50
2.....	18	23	42	34	33	44	34	287	252	301	106	57
3.....	28	20	46	42	33	41	32	261	231	283	108	60
4.....	23	32	29	19	32	38	32	256	235	301	102	63
5.....	16	28	27	41	25	41	38	278	287	278	94	46
6.....	36	35	8.6	37	30	48	35	261	292	296	96	40
7.....	28	25	9.8	38	16	28	56	256	311	316	91	48
8.....	36	18	44	33	15	12	63	265	296	320	91	56
9.....	38	14	32	41	26	38	74	311	306	330	89	60
10.....	33	26	35	52	35	44	64	296	278	311	89	64
11.....	20	30	32	20	28	48	78	306	443	301	89	63
12.....	14	33	23	38	22	50	74	311	592	244	84	64
13.....	32	33	9.2	42	27	40	104	248	617	235	89	44
14.....	38	27	16	43	17	20	106	227	483	239	89	60
15.....	28	18	27	40	21	33	128	207	385	218	87	55
16.....	27	8	34	40	24	49	106	186	355	198	87	46
17.....	26	25	33	52	28	43	110	172	380	231	84	56
18.....	18	28	36	19	25	43	117	186	483	248	85	64
19.....	11	24	19	30	42	54	156	180	518	265	73	49
20.....	23	7.4	14	30	*43	49	171	156	455	218	72	41
21.....	36	18	13	32	34	38	186	177	413	177	74	54
22.....	18	15	25	26	15	29	192	186	437	168	74	46
23.....	74	18	39	22	31	49	239	192	419	165	73	55
24.....	57	34	34	92	49	54	270	180	385	168	76	43
25.....	37	40	44	7.4	36	43	283	198	380	168	82	57
26.....	19	37	39	28	44	50	252	207	360	140	74	28
27.....	26	41	45	30	37	40	244	223	360	142	76	20
28.....	30	46	35	23	19	38	244	198	345	148	66	41
29.....	32	38	39	32	.....	29	261	204	340	138	57	31
30.....	31	24	46	28	.....	51	311	210	287	132	42	25
31.....	30	.....	50	18	.....	44	.....	210	.....	121	57	.....
Total	946	781.4	962.6	964.6	804	1240	4088	7109	11181	7096	2566	1486
Mean.	30.5	26.0	31.1	31.1	28.7	40	136	229	373	229	82.8	49.5
Max.	74	46	50	52	49	54	311	311	617	330	110	64
Min.	11	7.4	8.6	7.4	15	12	28	156	231	121	42	20
Acre-ft.	1880	1550	1910	1910	1590	2460	8110	14100	22180	14070	5090	2950

Total run-off for water year=77,800 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Boulder Creek at Mouth Near Longmont, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	30	3.6	4.2	5.8	14	18	27	208	26	22	1.6	2.9
2.....	13	3.9	4.2	6.4	13	17	30	208	24	3.4	1.4	2.8
3.....	9.3	3.6	4.2	7.1	12	12	46	220	1.1	4.3	1.1	1.9
4.....	7.7	3.1	4.2	8.0	14	9.7	48	193	0.3	4.9	0.8	3.2
5.....	7.1	3.9	3.6	7.8	15	9.3	41	170	7.9	5.5	0.8	3.9
6.....	7.7	3.6	3.3	7.6	17	10	33	172	70	3.9	0.8	3.9
7.....	6.3	2.8	4.2	8.0	19	20	29	123	68	4.3	0.9	2.0
8.....	5.5	3.3	4.2	8.7	19	18	33	106	148	3.4	0.9	2.3
9.....	9.0	3.9	3.6	8.4	19	14	19	94	202	2.4	0.8	3.7
10.....	26	4.2	3.9	9.1	18	12	16	108	226	3.4	0.8	3.0
11.....	30	3.1	4.5	8.8	20	17	15	129	185	3.9	1.0	2.8
12.....	29	4.2	3.9	8.6	21	16	15	129	122	3.7	4.3	4.7
13.....	28	3.9	3.8	8.5	21	22	16	181	116	15	3.2	2.9
14.....	28	3.1	3.8	12	20	22	16	191	116	10	1.6	2.3
15.....	19	4.7	3.7	14	20	21	62	75	111	5.5	1.6	2.0
16.....	8.2	6.8	3.8	*16	19	22	90	6.3	154	4.3	1.5	3.0
17.....	5.8	6.8	5.0	17	17	21	72	0.7	231	3.4	1.2	1.8
18.....	6.0	4.4	*5.4	16	18	21	94	1.1	236	3.7	5.4	1.5
19.....	6.6	4.7	5.2	14	19	18	142	6.0	258	3.5	1.4	1.5
20.....	5.5	6.0	5.4	11	18	18	138	21	168	3.7	8.5	1.6
21.....	4.2	5.2	5.6	13	19	18	123	10	142	3.5	8.5	1.7
22.....	4.2	4.7	6.2	14	20	22	135	4.2	450	2.9	3.7	2.0
23.....	4.2	4.4	5.4	13	20	24	168	135	570	2.3	8.5	5.3
24.....	3.9	4.2	5.4	13	19	30	164	36	498	2.4	4.9	3.7
25.....	4.2	4.2	5.2	14	21	34	162	2.6	575	4.9	4.7	2.9
26.....	14	5.2	5.0	14	19	33	152	2.0	640	48	5.3	2.4
27.....	14	5.2	5.8	13	17	39	170	30	534	12	5.5	2.6
28.....	7.4	4.4	6.0	12	17	36	198	48	395	4.1	4.7	1.3
29.....	20	5.5	5.6	13	.....	38	226	6.3	290	1.6	4.3	1.1
30.....	8.2	5.5	5.4	14	.....	31	206	2.8	181	1.9	2.2	5.3
31.....	5.0	.....	6.0	15	.....	27	.....	14	.....	2.8	1.8	.....
Total	377.6	132.1	145.7	350.8	505	670.0	2686	2633.0	6745.3	200.6	199.0	82.0
Mean.	12.2	4.40	4.70	11.3	18.0	21.6	89.5	84.9	225	6.47	6.42	2.73
Max.	30	6.8	6.2	17	21	39	226	220	640	48	5.4	5.3
Min.	3.9	2.8	3.3	5.8	12	9.3	15	0.7	0.3	1.6	0.8	1.1
Acre-ft.	749	262	289	696	1000	1330	5330	5220	13380	398	395	163

Total run-off for water year=29,210 acre-feet.

Discharge of Boulder Creek at Mouth Near Longmont, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	4.5	7.1	4.1	.....	.....	60	80	1620	367	166	1.5	1.9
2.....	3.4	3.8	5.6	.....	.....	60	62	1520	261	162	2.4	2.8
3.....	4.7	3.3	6.3	.....	.....	60	69	1620	113	170	4.1	1.5
4.....	4.3	3.6	2.1	.....	.....	60	67	1440	38	177	3.2	1.2
5.....	3.9	2.5	3.7	.....	.....	60	75	1430	34	179	2.8	1.5
6.....	2.9	20	40	.....	.....	60	82	1420	34	154	1.0	4.1
7.....	10	20	20	.....	.....	60	98	1400	40	98	1.0	4.5
8.....	6.7	16	16	.....	.....	60	122	1410	56	52	1.0	3.2
9.....	9.9	15	46	.....	.....	60	126	1440	103	32	0.9	2.8
10.....	12	14	40	.....	.....	60	128	1460	65	27	0.8	2.8
11.....	16	14	55	.....	.....	71	156	1430	103	27	0.3	2.4
12.....	11	12	33	.....	.....	75	195	1420	347	20	0.0	2.4
13.....	6.7	12	24	.....	.....	*79	186	1330	1060	14	0.0	1.5
14.....	30	11	16	*124	.....	76	211	1200	891	11	0.8	1.2
15.....	50	12	16	.....	.....	68	243	1120	670	9.4	1.2	1.2
16.....	41	11	26	.....	.....	64	240	1030	575	5.8	1.1	1.5
17.....	43	11	30	.....	.....	73	228	943	675	3.2	1.9	1.9
18.....	41	11	22	.....	*10	64	253	884	852	1.5	1.9	1.9
19.....	27	10	26	.....	.....	75	552	826	956	3.2	0.9	3.2
20.....	19	9.9	20	.....	.....	91	1280	813	988	1.4	0.4	3.6
21.....	36	7.9	16	.....	.....	70	995	846	910	5.4	0.2	3.2
22.....	90	5.8	17	.....	.....	68	1000	872	839	4.9	0.4	3.6
23.....	150	5.8	16	.....	.....	55	1120	930	826	1.2	2.4	5.4
24.....	240	9.2	15	.....	.....	68	1590	924	742	1.4	3.6	5.8
25.....	144	11	12	.....	.....	97	1640	898	687	3.6	1.9	5.4
26.....	112	17	14	.....	.....	92	1470	884	665	1.2	2.4	6.3
27.....	69	16	18	.....	.....	91	1270	884	526	1.0	0.9	3.6
28.....	75	45	20	.....	.....	76	1200	754	422	2.4	0.9	2.4
29.....	83	67	21	.....	.....	74	1250	552	269	2.4	1.1	1.5
30.....	76	58	23	.....	.....	67	1450	444	179	1.9	1.2	2.4
31.....	70	.....	24	.....	.....	91	.....	387	.....	2.4	1.2	.....
Total	1492.0	644.6	844	1860	1036	2185	17438	34131	14233	1341.3	44.0	86.7
Mean.	48.1	21.5	27.2	60	37	70.5	581	1101	474	43.3	1.42	2.89
Max.	240	71	63	.....	.....	97	1640	1620	1060	17.9	4.1	6.3
Min.	2.9	5.8	12	.....	.....	55	62	3.7	3.4	1.0	0.6	1.2
Acre-ft.	2960	1280	1670	3690	2050	4330	34590	67700	28230	2660	87	172

Total run-off for water year=149,400 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Boulder Creek Near Eldorado Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	42	7.8	9.1	7.6	7.8	14	44	206	344	156	38	19
2.....	36	5.0	9.8	4.7	7.3	13	42	232	301	108	36	17
3.....	32	12	9.2	5.0	7.0	12	38	236	307	99	34	13
4.....	27	8.6	9.9	5.6	7.2	11	41	236	269	101	35	14
5.....	26	4.4	7.8	6.1	7.4	12	56	232	284	99	31	14
6.....	34	7.8	8.3	4.7	7.4	11	55	232	289	95	41	13
7.....	30	9.6	5.6	4.4	7.2	10	44	211	289	88	32	12
8.....	33	11	7.4	4.9	5.8	12	44	232	301	95	46	23
9.....	32	11	7.9	4.9	6.2	9.2	44	269	260	93	38	19
10.....	35	10	6.4	6.6	6.7	8.0	48	313	223	86	34	21
11.....	30	9.0	4.0	7.3	*7.0	8.0	47	376	202	84	41	18
12.....	27	5.4	2.9	7.0	6.7	8.6	49	487	182	81	68	13
13.....	24	7.5	5.3	7.8	7.4	10	57	549	182	78	64	13
14.....	23	8.6	5.0	*6.2	6.8	11	48	503	179	67	48	22
15.....	23	23	8.4	7.2	8.2	11	49	446	195	67	48	16
16.....	29	32	*12	7.2	8.3	12	49	382	240	70	50	16
17.....	23	37	12	5.6	7.7	13	53	376	274	64	52	17
18.....	20	19	12	5.2	7.5	16	50	350	289	64	46	18
19.....	19	16	11	5.2	7.6	22	49	338	260	64	41	17
20.....	18	9.0	8.8	5.2	9.0	21	50	274	255	72	47	14
21.....	18	9.0	8.3	7.4	9.1	21	59	245	274	63	47	15
22.....	17	9.4	8.1	7.6	8.5	21	63	274	284	61	41	26
23.....	17	8.1	9.6	6.4	9.5	17	68	289	236	50	41	29
24.....	17	7.2	10	7.7	8.8	16	71	295	279	60	37	27
25.....	16	10	9.4	7.8	9.4	14	79	320	332	47	31	25
26.....	16	*10	8.3	7.8	9.0	15	84	376	284	58	30	26
27.....	15	8.2	8.4	7.9	9.0	15	107	389	289	60	27	23
28.....	15	10	9.6	7.9	12	14	121	356	255	52	24	24
29.....	12	11	9.0	6.9	.....	16	150	363	250	52	24	23
30.....	19	12	8.9	7.7	.....	23	172	363	250	47	25	27
31.....	13	.....	9.5	8.1	.....	30	.....	376	.....	43	20	.....
Total	738	338.60	261.9	201.6	221.5	446.8	1931	10126	7858	2324	1217	574
Mean.	23.8	11.3	8.45	6.50	7.91	14.4	64.4	327	262	75.0	39.3	19.1
Max.	42	32	12	8.1	12	30	172	549	344	156	68	29
Min.	12	4.4	2.9	4.4	5.8	8.0	38	206	179	43	20	12
Acre-ft.	1460	672	519	400	439	886	3830	20080	15590	4610	2410	1140

Total run-off for water year=52,040 acre-feet.

Discharge of South Boulder Creek Near Eldorado Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	24	25	12	12	9.4	12	41	289	631	219	64	16
2.....	23	26	11	12	11	13	44	289	631	195	76	19
3.....	25	27	13	12	11	13	48	260	581	192	63	18
4.....	26	25	14	13	10	15	53	274	581	182	51	17
5.....	27	21	12	13	9.7	20	58	295	565	182	47	21
6.....	23	15	8	12	9.4	17	65	289	510	176	47	20
7.....	19	6.8	9	10	9.8	15	65	307	557	236	42	18
8.....	24	5.6	*11	9.6	11	20	62	313	503	176	39	15
9.....	20	15	11	9.2	8.7	23	62	350	451	156	37	14
10.....	19	23	11	8.6	8.6	25	68	363	402	153	37	13
11.....	18	22	11	9.2	9.5	26	75	363	422	126	35	18
12.....	17	23	10	*10	11	28	83	370	503	116	35	29
13.....	21	24	10	11	11	29	92	830	518	114	37	22
14.....	34	22	10	11	10	30	102	510	415	116	31	11
15.....	30	22	11	10	9	28	112	396	370	126	34	9.8
16.....	29	21	12	9.6	9.3	29	110	356	370	108	29	6.8
17.....	26	20	13	9.8	9.9	*28	112	338	402	121	26	6.2
18.....	24	18	13	9.0	11	28	123	307	458	126	24	11
19.....	22	7.4	13	8.7	12	29	245	289	444	99	26	19
20.....	20	8.0	13	8.4	*9.8	29	215	279	415	74	30	15
21.....	17	2.0	13	8.0	9.4	30	236	307	382	81	26	12
22.....	19	5.0	13	7.5	9.0	33	279	370	363	81	21	13
23.....	63	12	13	8.0	9.0	37	332	480	350	78	23	14
24.....	48	16	12	8.5	9.6	41	350	487	338	81	19	14
25.....	42	23	9	9.1	10	41	338	518	313	72	23	13
26.....	35	17	7.8	10	10	38	289	590	289	72	22	9.8
27.....	28	17	8.4	12	9.8	36	260	647	274	68	21	9.8
28.....	28	18	9.0	12	11	34	250	631	332	97	20	8.0
29.....	26	14	12	9.4	.....	35	284	647	198	78	17	7.4
30.....	28	17	13	6.8	.....	36	307	655	223	76	15	7.4
31.....	26	.....	12	7.8	.....	39	.....	655	.....	66	21	.....
Total	831	517.8	350.2	307.2	278.9	857	4760	13054	12791	3843	1038	427.2
Mean.	26.8	17.3	11.3	9.91	9.96	27.6	159	421	426	124	33.5	14.2
Max.	63	27	14	13	12	41	350	830	631	236	76	29
Min.	17	2.0	7.8	6.8	8.6	12	41	260	198	66	15	6.2
Acre-ft.	1650	1030	695	609	553	1700	9440	25890	25370	7620	2060	847

Total run-off for water year=77,460 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson River Near Estes Park, Colo., for Year Ending Sept. 30, 1941.												
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	122	35	23	13	13	14	23	117	501	330	128	55
2....	101	35	26	8	13	18	24	130	488	322	117	57
3....	93	32	25	8.2	12	16	21	153	503	286	112	48
4....	93	32	26	9	13	15	20	161	505	290	101	43
5....	84	28	20	9.4	13	16	20	144	489	286	95	42
6....	93	39	21	8	12	15	19	141	460	283	93	41
7....	84	35	14	6.8	11	14	21	122	425	276	104	38
8....	77	34	18	7.1	9.8	14	20	117	490	276	101	59
9....	77	32	22	7.2	10	15	19	159	455	272	98	71
10....	77	31	14	8	11	7.6	19	218	400	272	98	61
11....	65	18	6.0	11	12	7	20	304	360	276	101	63
12....	59	9	4.4	13	11	6.8	22	410	325	269	120	61
13....	55	5.8	4.7	14	12	7	25	588	320	248	112	57
14....	53	9	6.0	13	*11	10	30	616	350	265	95	67
15....	51	20	7.0	*13	12	9.5	28	501	395	241	98	71
16....	51	28	11	14	13	10	27	390	448	215	114	63
17....	49	40	*20	12	12	12	27	398	496	205	117	55
18....	46	36	21	10	12	13	26	456	588	215	144	49
19....	45	24	19	9.8	11	*17	22	402	621	212	128	45
20....	43	*16	15	9.9	10	19	20	308	578	215	109	43
21....	42	16	14	13	12	17	20	269	578	228	109	46
22....	42	17	13	14	12	15	22	359	574	215	109	65
23....	41	15	14	11	13	15	27	355	612	205	101	71
24....	41	14	17	14	12	11	28	435	560	192	90	73
25....	39	22	15	14	12	12	31	542	546	189	86	71
26....	38	19	13	14	12	13	36	616	514	212	84	61
27....	36	17	14	14	11	*20	61	593	470	208	82	57
28....	35	20	15	13	12	22	104	488	448	186	71	55
29....	32	25	15	12	....	22	120	461	386	167	65	55
30....	36	28	16	13	....	21	114	435	333	150	63	53
31....	38	....	18	14	....	22	....	478	....	139	55	....
Total	1838	731.8	487.1	350.4	329.8	445.9	1016	10857	14218	7345	3100	1696
Mean..	59.3	24.4	15.7	11.3	11.8	14.4	33.9	350	474	237	100	56.5
Max...	122	39	26	14	13	22	120	616	621	330	144	73
Min...	32	5.8	4.4	6.8	9.8	6.8	19	117	320	139	55	38
Acre-ft.	3650	1450	966	695	654	884	2020	21530	28200	14570	6150	3360

Total run-off for water year=84,130 acre-feet.

Discharge of Big Thompson River Near Estes Park, Colo., for Year Ending Sept. 30, 1942.												
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	48	43	33	17	13	13	15	144	616	431	205	59
2....	46	43	32	15	14	13	16	161	650	414	212	93
3....	49	42	35	14	14	14	19	153	626	422	208	93
4....	59	45	23	13	15	13	22	173	675	382	192	93
5....	59	42	12	14	15	13	26	186	720	418	173	95
6....	51	43	9	11	15	14	27	176	750	452	161	90
7....	41	42	12	10	15	13	27	189	872	492	147	90
8....	46	41	20	11	15	12	25	212	826	501	139	69
9....	48	43	*20	11	14	12	26	248	730	435	133	46
10....	49	42	21	12	12	13	27	290	772	426	125	41
11....	43	41	21	13	13	13	30	315	788	398	122	48
12....	43	40	21	*14	13	12	34	322	854	426	128	55
13....	45	38	20	14	13	*12	36	283	680	355	136	57
14....	80	32	20	14	13	12	40	241	602	360	136	48
15....	69	32	20	13	14	12	44	208	510	370	125	38
16....	61	34	21	13	14	12	52	192	564	378	117	36
17....	55	35	21	12	15	11	63	179	715	483	109	32
18....	46	35	20	12	15	11	74	161	750	398	93	41
19....	46	34	20	11	*16	12	84	158	700	333	88	57
20....	46	28	21	11	16	11	99	158	675	286	88	55
21....	43	20	21	11	16	11	120	189	616	265	82	48
22....	45	19	18	11	15	12	140	258	560	241	86	43
23....	73	25	10	11	15	13	160	367	574	245	88	35
24....	65	31	7.4	11	15	15	165	435	546	238	90	43
25....	59	34	7.0	11	15	14	175	452	555	231	86	42
26....	59	40	10	12	14	12	175	593	542	212	75	41
27....	53	43	12	13	14	12	170	655	528	202	71	39
28....	49	42	15	14	13	12	175	542	439	205	67	41
29....	48	41	17	15	....	13	183	542	374	212	65	32
30....	45	39	18	14	....	13	173	564	390	205	59	25
31....	42	....	19	14	....	14	....	593	....	199	63	....
Total	1611	1109	576.4	392	401	389	2422	9339	19199	10615	3669	1625
Mean..	52.0	37.0	18.6	12.6	14.3	12.5	80.7	301	640	342	118	54.2
Max...	80	45	35	17	16	15	183	655	872	501	212	95
Min...	41	19	7	10	12	11	15	144	374	199	59	25
Acre-ft.	3200	2200	1140	778	795	772	4800	18520	38080	21050	7280	3220

Total run-off for water year=101,800 acre-feet

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Big Thompson River Below Power House Near Drake, Colo., for
Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	153	48	29	21	18	22	32	217	623	395	152	98
2....	138	52	33	11	17	25	34	221	586	409	137	98
3....	124	51	31	13	16	20	29	259	611	360	130	91
4....	118	49	33	14	17	19	29	259	611	356	126	85
5....	110	40	25	15	17	21	29	228	569	348	124	81
6....	118	41	28	12	17	18	29	217	540	348	124	73
7....	110	52	18	11	17	17	32	184	523	329	132	66
8....	100	52	28	12	16	18	28	168	680	336	134	94
9....	98	50	30	12	18	19	26	191	611	326	127	110
10....	103	50	24	13	15	11	26	262	502	333	131	98
11....	98	26	9.4	17	19	11	29	372	444	336	138	95
12....	94	14	5.5	16	18	11	32	485	390	329	158	94
13....	89	8.5	9.8	19	21	14	37	727	385	322	154	91
14....	84	13	9.4	15	18	14	48	769	434	329	130	92
15....	79	38	15	17	20	13	47	642	540	304	129	105
16....	74	54	24	17	22	14	46	485	623	285	147	94
17....	73	56	24	14	19	15	43	465	727	259	147	88
18....	70	53	25	13	18	19	45	563	839	262	172	81
19....	68	45	25	13	17	25	41	502	882	259	164	77
20....	66	38	19	13	18	29	39	390	818	256	149	74
21....	64	38	19	17	21	25	37	322	790	256	147	72
22....	61	40	18	18	19	23	41	414	818	240	149	89
23....	58	32	21	14	21	23	45	429	811	223	142	102
24....	60	25	23	18	17	15	50	491	741	210	134	98
25....	60	36	21	18	20	17	55	617	700	206	129	91
26....	58	35	18	18	18	17	64	734	661	235	130	84
27....	56	26	18	18	17	24	94	720	580	262	127	74
28....	55	31	21	18	20	24	182	604	546	217	114	68
29....	52	34	20	16	....	24	240	575	465	193	110	69
30....	52	36	26	17	....	24	228	523	404	182	108	69
31....	46	....	22	18	....	29	....	575	....	170	102	....
Total	2592	1163.5	666.1	478	511	600	1737	13610	18460	8875	4197	2601
Mean	83.6	38.8	21.5	15.4	18.2	19.4	57.9	439	615	286	135	86.7
Max.	153	56	33	21	22	29	240	769	882	409	172	110
Min.	46	8.5	5.5	11	15	11	26	168	385	170	102	66
Acre-ft.	5140	2310	1320	948	1010	1190	3450	27000	36610	17600	8320	5160

Total run-off for water year=110,100 acre-feet.

**Discharge of Big Thompson River Below Power House Near Drake, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	64	63	45	27	15	17	21	282	839	507	199	70
2....	61	65	37	17	15	15	25	348	868	496	208	82
3....	66	63	44	14	15	17	31	344	832	460	228	97
4....	70	65	39	14	17	17	40	372	898	439	228	95
5....	70	49	9.0	20	16	17	40	390	950	449	208	103
6....	65	68	6.0	17	15	18	37	356	980	485	191	106
7....	60	56	31	11	17	15	36	348	1140	534	172	95
8....	56	53	26	12	18	15	27	368	1130	569	169	86
9....	61	63	27	12	17	16	29	414	950	512	151	58
10....	58	60	29	13	18	19	33	480	988	475	145	54
11....	55	53	26	15	18	18	39	534	1020	424	144	57
12....	55	55	31	18	21	19	45	540	1170	395	140	68
13....	55	54	28	18	18	22	49	460	965	372	142	69
14....	84	51	27	18	23	21	55	390	846	380	140	68
15....	86	50	28	17	22	18	70	329	694	386	140	53
16....	75	50	30	14	23	18	73	298	713	390	137	48
17....	72	54	31	13	25	15	77	276	912	409	130	46
18....	68	50	25	14	23	15	84	253	995	512	121	47
19....	64	38	25	13	24	18	106	238	920	475	114	65
20....	62	22	25	12	25	14	113	233	875	372	108	70
21....	61	19	30	11	23	14	144	248	790	288	105	66
22....	60	18	26	11	24	17	195	318	720	256	102	60
23....	88	40	9.8	11	21	23	273	470	727	253	102	55
24....	91	33	8.4	12	20	25	276	604	674	235	102	51
25....	82	60	8.0	14	21	21	282	575	694	228	98	49
26....	79	70	8.0	12	18	16	288	762	667	212	89	47
27....	77	68	11	14	17	14	270	912	648	203	82	47
28....	75	62	15	18	17	15	256	741	534	206	78	51
29....	68	60	18	19	....	17	285	741	439	217	75	51
30....	69	53	23	16	....	17	322	769	449	217	73	49
31....	55	....	22	16	....	18	....	783	....	212	72	....
Total	2112	1565	748.2	463	546	541	3621	14176	25027	11568	4184	1963
Mean	68.1	52.2	24.1	14.9	19.5	17.5	121	457	824	373	135	65.4
Max.	91	70	45	27	25	25	322	912	1170	569	228	106
Min.	55	18	6	11	15	14	21	233	439	203	72	46
Acre-ft.	4190	3100	1480	918	1080	1070	7180	28120	49640	22940	8300	3890

Total run-off for water year=131,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Big Thompson River at Mouth of Canyon, Near Drake, Colo., for
Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	182	48	33	22	18	23	31	255	725	415	154	75
2.....	171	53	34	15	17	26	33	250	673	425	148	75
3.....	138	53	33	13	17	24	29	281	766	390	138	71
4.....	128	51	34	14	17	20	28	263	725	370	140	67
5.....	118	45	28	16	18	21	30	230	660	365	136	64
6.....	130	46	29	13	17	19	28	212	622	360	130	59
7.....	118	55	22	12	16	18	28	187	597	350	126	58
8.....	104	53	29	13	14	19	28	167	811	355	140	90
9.....	104	52	31	13	15	20	26	189	712	345	132	126
10.....	110	51	27	15	17	17	31	248	579	350	134	102
11.....	108	35	16	19	20	12	35	332	504	345	138	94
12.....	100	19	7.0	18	19	12	32	449	421	340	164	92
13.....	98	10	11	22	22	14	39	758	322	330	169	85
14.....	89	17	11	21	*20	15	48	916	482	335	130	87
15.....	81	43	16	*25	21	14	49	744	622	320	130	116
16.....	77	66	25	23	22	15	48	538	725	300	162	102
17.....	73	68	*25	17	21	18	44	504	888	288	162	92
18.....	71	56	26	14	19	22	49	635	1020	281	187	80
19.....	67	49	26	14	18	28	46	562	1080	273	178	78
20.....	66	*41	22	17	19	31	41	431	979	271	158	75
21.....	66	40	20	18	21	28	40	344	958	271	142	77
22.....	64	41	19	19	20	25	44	449	1250	258	150	112
23.....	60	38	22	17	22	24	50	463	1030	245	142	128
24.....	62	30	24	19	20	18	53	550	944	232	128	126
25.....	60	37	22	20	21	19	53	673	902	230	122	106
26.....	59	36	19	20	20	20	60	839	832	255	124	102
27.....	57	29	19	19	18	23	94	832	712	271	118	98
28.....	54	31	22	18	21	25	222	699	666	228	100	81
29.....	50	35	21	17	....	26	294	660	556	203	89	75
30.....	51	37	21	18	....	25	281	597	450	189	89	75
31.....	42	....	23	19	....	28	....	660	....	164	78	....
Total	2758	1268	717	540	530	649	1914	14917	22163	9354	4248	2668
Mean...	89.0	42.3	23.1	17.4	18.9	20.9	63.8	481	739	302	137	88.9
Max....	182	68	34	25	22	31	294	916	1250	425	187	128
Min....	42	10	7.0	12	14	12	26	167	322	164	78	58
Acre-ft.	5470	2520	1420	1070	1050	1290	3800	29590	43960	18550	8430	5290

Total run-off for water year=122,400 acre-feet.

*Discharge measurement made on this day.

**Discharge of Big Thompson River at Mouth of Canon Near Drake, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	73	59	52	29	17	18	28	351	923	556	208	68
2.....	64	64	43	25	18	18	28	556	1000	556	222	87
3.....	71	62	46	18	18	18	31	516	958	504	250	98
4.....	74	77	44	16	18	18	45	488	1010	463	208	96
5.....	77	59	25	21	19	18	46	466	1100	477	191	110
6.....	70	64	15	20	18	18	42	395	1150	516	173	100
7.....	63	59	33	15	19	17	41	387	1420	585	160	89
8.....	60	55	33	14	21	17	34	400	1420	647	152	77
9.....	66	60	32	14	20	20	35	431	1190	573	144	58
10.....	57	62	36	15	20	22	38	488	1220	516	138	55
11.....	60	55	34	18	20	22	46	538	1260	458	138	59
12.....	57	64	36	19	23	25	53	556	1460	422	136	74
13.....	58	54	34	20	21	31	55	482	1240	391	140	71
14.....	98	54	32	20	25	26	63	400	1020	422	134	64
15.....	104	54	31	19	25	20	73	336	846	463	138	54
16.....	87	54	32	18	26	19	81	311	853	449	132	51
17.....	77	55	33	16	29	19	81	284	1120	435	118	45
18.....	74	52	33	16	34	20	169	260	1260	544	108	49
19.....	66	44	27	15	32	23	184	252	1160	488	100	68
20.....	64	43	29	14	26	21	156	250	1110	435	92	66
21.....	63	30	31	13	25	27	180	258	986	347	87	58
22.....	60	25	30	13	25	23	215	321	881	278	87	54
23.....	106	42	23	13	24	24	284	468	923	260	92	49
24.....	114	60	15	14	22	26	332	628	860	245	94	41
25.....	94	68	10	16	23	27	347	591	846	235	90	39
26.....	87	73	12	15	21	21	383	825	797	225	81	49
27.....	77	74	15	16	20	21	351	1070	770	215	81	39
28.....	71	66	18	19	18	22	321	818	628	222	75	38
29.....	73	62	21	20	....	23	355	818	488	225	71	36
30.....	68	57	25	20	....	24	413	846	493	222	70	36
31.....	63	....	24	18	....	23	....	874	....	208	70	....
Total	2296	1707	904	539	627	671	4510	15666	30392	12582	3980	1871
Mean...	74.1	56.9	29.2	17.4	22.4	21.6	150	505	1013	406	128	62.4
Max....	114	77	52	29	34	31	413	1070	1460	647	250	110
Min....	57	25	10	13	17	17	28	250	488	208	70	36
Acre-ft.	4550	3390	1790	1070	1240	1320	8950	31070	60280	24960	7890	3710

Total run-off for water year=150,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson at Mouth Near LaSalle, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	15	40	44	32	30	24	25	122	1.9	48	22	7.3
2.....	9.1	43	44	30	30	24	29	81	1.9	54	20	8.8
3.....	6.1	43	45	30	28	25	37	58	2.2	68	16	8.8
4.....	4.0	41	46	32	28	21	17	46	2.5	46	14	8.2
5.....	3.3	39	45	31	29	21	4.6	37	2.5	41	14	8.2
6.....	3.2	32	42	32	29	20	3.3	28	4.3	41	14	7.6
7.....	2.6	30	40	30	28	20	3.3	22	11	43	12	5.8
8.....	3.0	38	39	31	28	20	3.2	19	17	38	12	4.9
9.....	3.2	39	37	30	28	19	2.5	7.3	41	32	12	7.3
10.....	3.2	37	35	33	28	19	2.5	2.2	29	31	14	13
11.....	3.0	37	34	35	28	21	2.5	296	37	33	15	7.9
12.....	3.3	38	34	37	32	24	2.3	170	44	44	18	7.0
13.....	2.8	41	34	38	32	23	1.8	150	50	57	21	9.7
14.....	2.5	43	32	35	32	23	1.6	130	54	58	30	14
15.....	3.0	42	46	34	31	24	5.2	100	44	46	20	12
16.....	18	46	45	30	29	24	6.1	70	26	40	12	13
17.....	30	46	45	30	27	24	4.9	45	24	37	10	17
18.....	18	46	43	29	27	26	10	20	18	36	11	22
19.....	5.5	45	39	29	27	24	13	17	16	33	12	16
20.....	7.6	45	38	29	26	23	9.1	9.7	16	25	13	8.8
21.....	9.7	43	35	30	27	24	4.9	4.0	16	18	13	8.5
22.....	10	43	34	32	27	26	5.5	2.8	56	17	14	7.9
23.....	10	41	32	37	27	26	4.9	4.0	357	16	13	9.7
24.....	12	44	34	36	28	29	4.3	3.7	116	17	13	9.4
25.....	12	43	35	35	27	28	4.0	4.0	82	20	12	8.2
26.....	12	44	33	33	25	28	3.7	5.5	80	29	13	7.9
27.....	10	46	32	32	21	29	3.5	8.8	66	49	14	7
28.....	27	45	34	32	24	28	4.6	8.8	67	43	10	3.8
29.....	43	44	34	31	.....	25	22	7.3	64	32	9.7	4.6
30.....	43	44	32	32	.....	26	150	5.2	52	28	9.7	2.8
31.....	41	.....	33	30	.....	25	.....	3.5	.....	26	7.6	.....
Total	376.1	1251	1175	997	786	746	391.3	1487.8	1398.3	1149	4410	278.0
Mean.	12.1	41.7	37.9	32.2	28.1	24.1	13.0	48.0	46.6	37.1	14.2	9.27
Max..	43	46	46	38	32	29	150	296	357	68	30	22
Min..	2.5	30	32	29	24	19	1.6	2.2	1.9	16	7.6	2.8
Acre-ft.	746	2480	2330	1980	1560	1480	776	2950	2770	2280	875	551

Total run-off for water year=20,780 acre-feet.

Discharge of Big Thompson River at Mouth Near LaSalle, Colo., for Year Ending Sept. 30, 1942.

Day	Oct	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3.0	11	59	39	37	30	42	386	67	46	51	16
2.....	1.4	9.5	60	36	35	31	40	390	68	44	63	16
3.....	3.4	9.0	61	34	37	35	39	539	64	41	51	14
4.....	5.8	8.6	59	29	39	39	40	486	60	39	40	14
5.....	3.8	8.6	54	27	37	42	38	437	61	33	34	16
6.....	3.0	10	54	28	36	44	37	435	58	34	31	16
7.....	4.2	14	56	30	34	45	40	382	52	22	28	14
8.....	4.2	15	56	32	36	50	43	359	129	20	26	14
9.....	3.8	15	56	31	31	53	43	344	174	19	23	14
10.....	1.8	37	57	30	34	72	43	338	133	21	22	14
11.....	2.6	59	54	35	33	84	43	340	103	26	20	14
12.....	4.6	65	53	34	31	76	40	338	129	38	15	16
13.....	3.0	65	51	33	33	76	39	316	261	39	18	18
14.....	3.4	61	51	32	35	79	40	282	272	68	18	14
15.....	7.4	64	43	30	34	69	10	244	188	81	22	14
16.....	5.8	62	45	*29	28	64	38	200	144	86	23	14
17.....	6.2	61	45	30	24	61	38	192	144	77	22	14
18.....	5.4	61	42	32	23	56	31	199	108	67	20	24
19.....	4.2	61	42	33	24	53	59	184	138	63	22	32
20.....	2.6	59	43	34	27	49	160	173	104	72	18	28
21.....	5.8	59	42	37	31	53	210	159	110	119	18	22
22.....	14	61	38	34	33	53	190	144	109	86	19	22
23.....	5.4	56	39	34	31	52	260	104	102	76	18	22
24.....	12	58	38	38	27	52	350	91	90	72	19	24
25.....	14	62	37	40	26	52	442	78	84	76	20	17
26.....	12	62	35	39	26	48	399	73	76	66	17	17
27.....	8.2	61	*36	40	*26	46	367	56	77	59	14	19
28.....	9.0	60	37	40	27	48	303	53	73	59	15	24
29.....	12	62	40	40	.....	47	276	51	75	57	16	32
30.....	8.2	61	45	37	.....	42	290	51	59	48	15	31
31.....	9.0	.....	43	37	.....	42	.....	54	.....	51	16	.....
Total	189.2	1357.7	1471	1054	875	1643	4020	7478	3312	1765	754	566
Mean.	6.10	45.3	47.5	34.0	31.2	53.0	134	241	110	55.0	24.3	18.9
Max..	14	65	61	40	39	84	442	539	272	119	63	32
Min..	1.4	8.6	35	27	23	30	31	51	52	19	14	14
Acre-ft.	375	2690	2920	2050	1740	3260	7970	14830	6570	3380	1500	1120

Total run-off for water year=48,400 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Cache La Poudre River at Mouth of Canyon Near Fort Collins, Colo., for
Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	313	64	25	24	30	33	40	236	1670	704	187	110
2	199	66	40	20	29	34	54	253	1470	633	172	102
3	153	64	40	21	28	28	54	352	1450	633	162	187
4	146	64	37	23	29	21	44	363	1500	641	195	308
5	140	58	28	23	31	25	44	368	1430	672	191	313
6	143	40	39	21	30	28	42	337	1400	657	191	337
7	146	64	25	20	26	24	39	294	1150	626	214	327
8	131	64	34	21	27	19	35	258	1350	665	240	368
9	122	60	37	23	29	25	34	276	1080	736	206	406
10	125	58	30	20	34	17	35	419	904	712	276	413
11	125	42	27	28	39	17	37	618	958	720	298	432
12	122	18	11	27	36	21	37	438	922	641	318	413
13	110	25	9	26	35	34	50	967	834	602	284	374
14	92	30	9	29	*36	30	60	1380	958	610	249	363
15	82	46	13	*28	37	28	89	1400	1100	602	236	363
16	82	69	24	27	35	25	97	1220	1210	595	180	318
17	73	71	*26	24	33	22	89	1240	1420	451	253	156
18	69	62	27	22	31	35	97	1640	1620	395	384	113
19	66	54	29	23	30	32	66	1490	1600	337	374	89
20	62	48	31	27	28	27	56	1260	1450	347	363	80
21	58	44	29	29	32	34	52	1180	1450	458	363	77
22	58	44	28	25	35	35	52	1560	1440	492	400	92
23	58	39	30	24	36	34	54	1550	1490	451	284	110
24	56	37	31	26	34	32	54	1690	1460	445	294	116
25	54	44	26	27	33	27	52	1800	1520	426	313	116
26	54	44	25	28	30	27	54	1930	1490	471	308	102
27	54	34	25	29	31	32	60	1830	1200	506	347	100
28	58	42	27	29	32	42	143	1700	1110	478	318	92
29	64	44	28	30	....	35	294	1660	967	406	289	89
30	58	39	27	31	....	40	262	1570	834	289	176	87
31	69	....	28	34	....	44	....	1640	....	210	122	....
Total	3142	1478	845	795	896	907	2176	32919	38437	16611	8187	6553
Mean	101	49.3	27.3	25.6	32.0	29.3	72.5	1062	1281	536	264	218
Max.	313	71	40	34	39	44	294	1930	1670	736	400	432
Min.	54	18	9	20	26	17	34	236	834	210	122	77
Acre-ft.	6230	2930	1680	1580	1780	1800	4320	65290	76240	32950	16240	13000

Total run-off for water year=224,000 acre-feet.

**Discharge of Cache La Poudre River at Mouth of Canon Near Fort Collins, Colo., for Year
Ending Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	69	52	34	27	26	34	564	2170	1100	337	432
2	87	64	54	32	29	26	37	704	2350	1120	322	438
3	82	62	50	34	29	26	44	633	2320	1040	358	438
4	82	66	50	30	30	26	50	720	2380	1080	337	438
5	82	62	32	34	30	27	64	834	2420	1120	303	451
6	75	62	12	36	29	28	110	649	2380	1140	280	464
7	66	62	24	31	27	30	159	580	2460	1170	253	464
8	62	48	37	34	26	32	137	649	2530	1200	236	445
9	69	62	39	33	28	33	122	744	2240	1140	214	458
10	69	73	37	33	27	33	100	1150	2280	1050	223	438
11	66	64	48	34	28	34	162	1380	2290	1040	206	406
12	71	56	52	35	29	36	195	1410	3140	913	191	426
13	69	71	44	*35	30	*39	131	1100	2720	817	210	426
14	82	62	41	35	31	37	92	793	2270	776	236	413
15	110	60	40	34	31	36	162	672	1580	784	202	327
16	94	62	40	32	31	37	342	649	1470	868	195	280
17	80	60	40	29	31	24	191	633	1850	850	298	162
18	73	60	41	29	29	25	183	633	2360	958	327	122
19	71	48	41	29	*28	37	318	672	2220	913	318	140
20	77	25	44	28	28	30	379	825	2540	834	303	125
21	82	10	50	27	27	21	438	868	2320	704	327	128
22	84	18	50	26	26	32	520	958	2030	549	327	122
23	89	25	46	26	20	35	633	1250	1920	506	327	110
24	94	46	40	27	20	39	696	1630	1940	520	322	105
25	87	58	35	28	21	39	557	1750	1860	513	322	97
26	89	58	27	29	22	27	549	2220	1690	506	327	89
27	92	66	26	29	21	19	513	2440	1560	478	176	87
28	80	56	33	31	21	25	438	2270	1400	445	113	82
29	87	56	36	33	....	28	564	2350	1190	419	137	71
30	81	54	37	33	....	35	817	2400	1090	419	266	64
31	75	....	40	26	....	35	....	2290	....	352	389	....
Total	2502	1645	1238	966	756	957	8737	36420	62970	25324	8382	8248
Mean	80.7	54.8	39.9	31.2	27.0	30.9	291	1175	2099	817	270	275
Max.	110	73	54	36	31	39	817	2440	3140	1200	389	464
Min.	62	10	12	26	20	19	34	564	1090	352	113	64
Acre-ft.	4960	3260	2460	1920	1500	1900	17330	72240	124900	50230	16630	16360

Total run-off for water year=313,700 acre-feet.

*Discharge measurement made on this day.

**Discharge of Cache La Poudre River, Near Mouth Near Greeley, Colo., for
Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	18	37	57	43	40	38	21	7.8	13	24	8.7	8.4
2.....	19	27	57	42	39	38	18	7.5	15	19	8.4	7.2
3.....	20	11	57	40	38	38	28	10	11	16	7.8	6.9
4.....	18	12	58	40	38	38	28	18	14	34	8.4	6.6
5.....	20	12	59	46	38	38	17	17	15	35	8.4	6.3
6.....	20	6.9	60	40	39	39	7.8	16	20	32	8.7	6.3
7.....	18	7.2	60	40	40	39	6.9	15	29	34	8.7	6.9
8.....	16	9.6	58	42	39	39	6.6	12	51	23	8.7	14
9.....	17	12	57	42	38	39	6.6	6.9	54	13	8.4	16
10.....	20	11	57	40	40	37	6.6	8.7	57	19	8.1	19
11.....	28	9.6	57	39	41	36	6.6	7.0	20	14	8.7	16
12.....	52	11	57	39	43	37	6.6	18	17	13	25	16
13.....	46	6.9	51	41	43	35	6.3	8.4	20	13	17	20
14.....	38	27	50	40	43	35	6.9	8.7	18	15	9.6	24
15.....	47	63	53	40	41	36	8.1	23	18	15	11	18
16.....	48	63	56	40	40	36	9.6	35	12	13	12	20
17.....	46	62	55	39	40	35	19	27	12	24	13	13
18.....	50	63	56	37	39	35	27	20	16	35	14	10
19.....	48	63	48	40	40	35	13	20	16	41	15	10
20.....	50	60	47	40	39	34	7.8	27	13	30	16	8.7
21.....	51	62	44	40	39	34	7.2	19	10	11	14	8.1
22.....	49	62	43	40	40	35	7.2	17	13	10	15	18
23.....	42	62	44	40	40	37	7.2	22	8.7	9.6	17	23
24.....	40	60	15	39	40	39	6.9	14	11	9.6	42	24
25.....	41	60	44	38	38	40	6.9	13	11	8.7	40	23
26.....	41	60	43	38	36	40	6.9	41	27	8.7	46	21
27.....	42	59	43	38	36	41	9.6	53	44	12	108	24
28.....	42	60	43	38	37	41	13	47	49	11	72	19
29.....	40	59	43	38	.....	40	13	39	42	11	51	23
30.....	40	58	43	41	.....	41	9.0	13	22	12	44	21
31.....	37	.....	42	40	.....	40	.....	13	.....	9.0	24	.....
Total	1105	1176.2	1587	1234	1104	1165	344.3	667.0	678.7	574.6	698.6	157.4
Mean.	35.6	39.2	51.2	39.8	39.4	37.6	11.5	21.5	22.6	18.5	22.5	15.2
Max..	52	63	60	43	43	41	28	70	57	41	108	24
Min..	16	6.9	42	37	36	34	6.3	6.9	8.7	8.7	7.8	6.3
Acre-ft.	2190	2330	3150	2450	2190	2310	683	1320	1350	1140	1390	907

Total run-off for water year=21,410 acre-feet.

**Discharge of Cache La Poudre River Near Mouth Near Greeley, Colo., for Year Ending
Sept. 30, 1942**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	14	72	64	51	46	37	50	66	30	101	11	20
2.....	19	73	63	51	46	37	52	94	36	77	11	21
3.....	30	70	63	51	46	38	54	149	69	60	11	21
4.....	34	68	64	52	46	41	53	213	70	55	11	20
5.....	38	66	62	52	47	43	61	208	72	45	11	19
6.....	18	67	61	53	48	46	64	378	76	36	11	20
7.....	50	67	61	53	46	47	63	382	62	30	11	19
8.....	52	64	61	53	48	53	57	224	97	24	12	19
9.....	54	65	61	53	46	64	55	243	111	18	13	19
10.....	52	64	61	53	46	69	53	709	40	17	14	19
11.....	55	61	62	53	45	82	51	891	18	16	20	19
12.....	57	62	61	53	43	87	51	1080	41	14	20	21
13.....	58	63	60	53	46	89	48	1040	661	13	20	25
14.....	60	61	57	52	44	87	48	771	920	12	19	28
15.....	56	61	55	50	43	86	46	368	829	12	18	35
16.....	55	59	55	46	42	82	48	71	574	13	17	33
17.....	56	61	55	46	41	75	44	31	594	13	19	34
18.....	56	63	55	46	41	68	24	20	784	14	18	48
19.....	55	65	54	46	41	65	16	14	980	14	18	90
20.....	57	64	54	46	41	63	29	10	1010	13	19	88
21.....	56	64	53	47	40	62	24	11	1150	13	19	86
22.....	55	65	54	47	40	62	24	10	1280	13	19	89
23.....	55	64	56	47	40	61	16	7.4	1220	13	20	82
24.....	55	65	51	47	37	61	15	6.2	1200	12	21	78
25.....	55	66	55	47	38	64	27	6.8	1200	12	22	79
26.....	52	66	48	48	38	68	43	6.8	1200	12	20	80
27.....	62	67	51	48	37	69	61	5.6	1000	12	20	75
28.....	69	66	51	48	36	68	47	5.6	791	11	19	74
29.....	70	64	52	48	.....	67	49	7.1	385	11	19	70
30.....	72	64	51	49	.....	66	69	9.2	174	11	19	62
31.....	70	.....	51	48	.....	52	.....	23	.....	11	19	.....
Total	1625	1947	1762	1537	1198	1959	1342	7066.7	1658.4	728	521	1393
Mean.	52.4	64.9	56.5	49.6	42.8	63.2	44.7	228	553	23.5	16.8	46.4
Max..	72	73	64	53	48	89	69	1080	1280	101	22	90
Min..	14	59	46	36	37	15	5.6	18	11	11	19	5.6
Acre-ft.	3220	3860	3480	3050	2380	3890	2660	14020	32890	1440	1030	2760

Total run-off for water year=74,680 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of North Fork of Republican River Near Wray, Colo., for
Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	19	22	23	26	23	21	27	23	20	28	20
2	21	19	22	22	25	24	26	28	23	20	19	20
3	21	20	22	22	24	24	27	28	23	20	18	21
4	20	19	22	22	25	24	24	26	24	19	18	20
5	20	19	22	22	25	24	23	25	24	20	16	19
6	20	20	23	22	25	23	22	24	33	20	16	20
7	19	20	23	22	24	22	21	23	26	19	16	19
8	19	20	22	22	24	21	20	23	24	18	15	20
9	20	21	21	22	24	21	20	23	25	19	16	20
10	20	21	22	23	24	21	21	24	26	18	15	20
11	19	22	23	22	24	20	21	23	24	19	14	19
12	19	22	24	22	23	21	22	23	23	51	14	19
13	19	20	23	22	23	21	24	23	23	42	14	19
14	19	18	25	22	22	20	23	23	23	23	14	18
15	20	19	25	23	23	20	25	22	22	20	14	18
16	20	21	24	24	22	20	29	20	22	19	15	19
17	20	22	24	23	22	20	26	22	23	18	15	19
18	20	22	25	20	22	20	28	23	22	18	18	19
19	20	22	25	21	22	20	30	22	22	18	84	18
20	19	22	26	21	22	20	28	23	21	18	43	19
21	18	21	26	22	23	21	29	24	21	18	40	19
22	17	22	26	22	23	22	27	22	21	17	24	23
23	18	22	25	22	22	22	26	25	20	18	24	39
24	18	21	26	22	25	22	26	25	20	18	23	31
25	20	21	26	23	21	24	26	24	20	18	23	23
26	19	21	26	23	20	25	26	24	20	20	23	22
27	17	22	26	22	21	26	27	22	20	20	25	22
28	18	25	25	23	25	25	27	24	33	20	25	21
29	18	22	24	23	...	23	28	24	23	20	22	21
30	19	22	23	24	...	23	29	24	20	30	21	22
31	19	...	23	25	...	21	...	23	...	24	20	...
Total	596	624	741	693	645	683	752	736	694	662	688	629
Mean	19.2	20.8	23.9	22.4	23	22	25.1	23.7	23.1	21.4	22.2	21
Max.	21	22	26	25	26	26	30	28	33	51	84	39
Min.	17	18	21	20	20	20	20	20	20	17	14	18
Acre-ft.	1180	1240	1470	1370	1280	1350	1490	1460	1380	1310	1360	1250

Total run-off for water year=16,140 acre-feet.

Discharge of North Fork of Republican River Near Wray, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	24	23	23	24	25	23	32	22	16	16	20
2	21	23	23	22	23	25	22	30	22	15	17	120
3	22	23	23	*21	24	25	22	36	22	15	17	70
4	23	23	23	21	25	25	22	29	22	16	20	30
5	24	22	22	21	26	25	22	26	22	16	18	29
6	24	22	22	21	24	26	22	24	22	17	16	28
7	25	21	22	21	24	26	22	24	22	16	16	26
8	25	21	22	21	24	26	23	25	22	16	16	24
9	25	22	22	22	24	26	22	23	22	16	17	23
10	*21	21	22	22	24	26	21	24	22	16	17	21
11	21	21	21	22	24	25	22	24	22	16	18	20
12	21	22	21	*23	24	24	23	23	22	15	18	21
13	22	22	21	24	24	23	25	24	25	15	18	21
14	22	21	21	25	24	23	25	24	25	15	19	20
15	22	22	21	24	24	24	24	22	23	15	19	21
16	22	22	22	24	24	24	23	22	23	15	18	20
17	21	22	22	25	23	22	23	22	24	15	18	19
18	22	22	23	25	24	22	26	22	25	15	17	20
19	22	23	22	24	24	21	36	23	19	15	17	20
20	22	23	22	24	23	21	34	23	22	15	17	19
21	22	22	22	24	23	21	27	22	23	16	16	19
22	23	23	22	25	24	21	26	22	24	16	15	19
23	23	23	22	25	24	20	25	22	25	16	14	19
24	24	23	23	26	24	20	26	23	23	15	16	20
25	25	23	24	25	25	21	28	22	20	16	16	20
26	30	23	23	24	24	21	26	23	19	15	16	20
27	27	23	25	24	23	22	24	22	19	15	16	20
28	25	23	25	25	24	22	23	22	17	16	15	20
29	25	23	26	25	...	22	23	22	16	14	16	20
30	25	23	25	25	...	22	30	22	15	14	14	20
31	25	...	24	25	...	22	...	22	...	16	14	...
Total	722	671	701	728	672	717	738	744	651	483	517	789
Mean	23.3	22.4	22.6	23.5	24.0	23.1	24.6	24.0	21.7	15.6	16.7	26.3
Max.	30	24	26	26	26	26	36	36	25	17	20	120
Min.	21	21	21	21	23	20	21	22	15	15	14	19
Acre-ft.	1430	1330	1390	1440	1330	1420	1460	1480	1290	958	1030	1560

Total run-off for water year=16,120 acre-feet.

* Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork Republican River at Colo.-Nebr. State Line, for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	50	25	57	59	64	59	59	56	14	7.7	111	34
2.....	61	25	57	56	62	61	77	65	41	8.7	56	45
3.....	61	26	61	53	67	62	72	64	41	12	40	24
4.....	47	28	59	54	65	61	65	64	48	14	27	19
5.....	48	33	59	59	64	62	70	57	230	23	25	21
6.....	50	29	62	64	62	62	69	59	146	14	15	31
7.....	48	29	61	54	62	62	65	61	95	14	10	26
8.....	48	32	62	53	64	64	61	61	103	12	22	28
9.....	48	28	61	53	62	65	65	59	82	10	13	22
10.....	47	25	61	59	62	65	64	59	72	10	12	15
11.....	47	22	59	56	64	67	59	56	70	16	15	13
12.....	48	30	37	54	62	67	64	56	70	101	12	13
13.....	47	27	28	57	56	67	74	57	64	130	5.3	11
14.....	47	110	35	57	59	70	65	51	57	81	3.8	13
15.....	42	*86	40	57	62	70	70	47	59	65	3.6	13
16.....	41	54	45	61	54	67	76	50	51	48	3.4	14
17.....	41	56	50	57	56	69	64	50	57	45	3.4	14
18.....	40	54	50	57	61	70	70	51	34	38	7.7	10
19.....	40	56	50	57	61	65	74	50	22	32	95	9.3
20.....	40	56	*48	59	56	65	70	54	18	27	53	8.2
21.....	41	56	130	61	61	65	72	57	17	23	57	11
22.....	36	56	69	59	59	64	70	64	42	9.9	13	56
23.....	34	56	67	59	59	64	64	37	13	6.1	37	105
24.....	34	57	67	59	59	64	57	26	8.7	5.7	119	94
25.....	33	59	69	57	61	67	59	17	7.7	4.6	37	72
26.....	31	61	67	57	61	70	56	23	9.3	4.3	74	56
27.....	32	59	62	61	61	74	57	107	8.7	4.6	54	53
28.....	32	57	62	61	59	65	59	36	6.5	10	47	56
29.....	31	56	57	61	.....	62	70	18	9.3	5.3	50	65
30.....	27	56	59	65	.....	65	72	13	8.2	23	41	64
31.....	27	.....	59	69	.....	61	.....	13	.....	123	28	.....
Total	1299	1404	1810	1865	1705	2021	1989	1538	1507.4	927.9	1050.2	1013.5
Mean.	41.9	46.8	58.4	58.2	60.9	65.2	66.3	49.6	50.2	29.9	33.9	33.8
Max.	61	110	130	69	67	74	77	107	230	130	119	105
Min.	27	22	28	53	54	59	56	13	6.5	4.3	3.4	8.2
Acre-ft.	2580	2780	3590	3580	3380	4010	3950	3050	2990	1840	2080	2010

Total run-off for water year=35,840 acre-feet.

Discharge of North Fork Republican River at Colorado-Nebraska State Line for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	61	61	74	56	82	74	61	103	40	44	4.9	19
2.....	56	65	74	59	76	77	62	95	34	54	11	176
3.....	59	61	77	60	74	88	61	111	17	48	16	154
4.....	54	53	76	61	79	86	54	95	13	34	12	94
5.....	54	56	77	62	79	92	57	84	10	28	12	54
6.....	61	59	72	62	81	109	61	77	10	23	10	51
7.....	69	51	72	63	76	92	62	72	18	12	9.3	54
8.....	72	56	67	64	72	92	62	70	45	8.7	10	56
9.....	72	61	70	65	70	101	62	69	74	14	17	59
10.....	64	62	69	66	70	97	64	86	54	13	17	57
11.....	62	57	76	66	65	88	67	72	40	9.3	11	54
12.....	64	59	77	67	67	81	69	65	41	11	11	48
13.....	69	67	70	*68	64	77	67	61	48	12	14	53
14.....	64	61	62	68	62	81	77	64	53	9.3	14	50
15.....	61	62	57	68	61	72	76	65	51	8.2	15	50
16.....	62	62	61	68	57	64	70	59	50	7.7	21	51
17.....	59	65	62	68	60	67	65	57	47	7.3	17	48
18.....	53	72	61	67	63	69	86	57	47	6.5	18	50
19.....	59	67	59	64	66	72	99	65	44	6.5	15	48
20.....	53	72	65	65	*70	69	86	64	65	6.9	12	47
21.....	56	74	70	64	70	64	81	61	51	7.7	10	45
22.....	64	72	64	64	70	67	69	64	47	7.7	8.2	45
23.....	67	72	65	69	70	65	67	57	56	7.7	8.2	44
24.....	67	76	70	79	74	67	79	57	59	6.9	8.2	45
25.....	69	76	68	70	76	67	79	56	62	6.5	8.2	45
26.....	109	69	67	77	72	64	74	56	37	5.7	8.2	45
27.....	74	72	50	82	69	65	64	53	53	5.7	9.3	40
28.....	72	69	38	86	69	62	64	50	54	4.9	9.3	41
29.....	70	69	44	86	.....	67	64	51	57	4.9	9.3	38
30.....	64	74	48	82	.....	65	103	28	50	4.9	13	37
31.....	62	.....	53	81	.....	65	.....	45	.....	4.9	14	.....
Total	2002	1952	2015	2129	1964	2366	2114	2069	1327	430.9	373.1	1698
Mean.	64.6	65.1	65.0	68.7	70.1	76.3	70.5	66.7	44.2	13.9	12.0	56.6
Max.	109	76	77	86	82	109	103	111	74	54	21	176
Min.	53	51	38	56	57	62	54	28	10	4.9	4.9	19
Acre-ft.	3970	3870	4000	4220	3900	4690	4190	4100	2630	855	740	3370

Total run-off for water year=40,540 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Grizzly Creek Near Walden, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	12	16	.....	.....	.....	.....	.....	195	81	20	2.9	2.9
2	13	14	.....	.....	.....	.....	.....	208	75	20	4.4	3.2
3	14	12	.....	.....	.....	.....	.....	261	68	20	2.9	2.5
4	13	9.7	.....	.....	.....	.....	.....	346	61	20	1.4	2.3
5	13	5.8	.....	.....	.....	.....	.....	372	57	17	.6	2.1
6	14	.....	.....	.....	.....	.....	.....	290	59	16	.5	1.9
7	14	.....	.....	.....	.....	.....	.....	220	73	14	.6	1.7
8	17	.....	.....	.....	.....	.....	.....	185	84	14	1.2	1.7
9	17	.....	.....	.....	.....	.....	.....	243	98	12	3.6	2.9
10	15	.....	.....	.....	.....	.....	.....	296	121	13	14	4.0
11	20	.....	.....	.....	.....	.....	.....	310	103	9.1	16	4.4
12	20	.....	.....	.....	.....	.....	.....	304	92	6.8	10	3.6
13	16	.....	.....	.....	.....	.....	.....	286	84	5.8	12	2.9
14	14	.....	.....	.....	.....	.....	.....	296	86	4.0	16	4.0
15	12	.....	.....	.....	.....	.....	.....	280	88	2.3	13	5.1
16	11	.....	.....	.....	.....	.....	.....	192	90	1.7	13	9.1
17	9.1	.....	.....	.....	.....	.....	.....	144	94	1.7	20	9.7
18	9.1	.....	.....	.....	.....	.....	.....	150	96	6.8	22	7.4
19	9.1	.....	.....	.....	.....	.....	.....	158	88	11	22	5.5
20	8.5	.....	.....	.....	.....	.....	.....	144	70	14	18	4.7
21	8.5	.....	.....	.....	.....	.....	.....	106	62	20	14	3.6
22	7.9	.....	.....	.....	.....	.....	.....	78	58	20	13	2.9
23	7.9	.....	.....	.....	.....	.....	.....	88	60	14	11	2.9
24	7.9	.....	.....	.....	.....	.....	.....	41	91	48	11	3.6
25	8.5	.....	.....	.....	.....	.....	.....	55	106	38	8.5	7.9
26	8.5	.....	.....	.....	.....	.....	.....	72	128	41	6.2	6.8
27	9.1	.....	.....	.....	.....	.....	.....	95	163	41	4.0	5.8
28	9.7	.....	.....	.....	.....	.....	.....	128	179	34	5.1	5.5
29	11	.....	.....	.....	.....	.....	.....	184	147	26	4.0	4.7
30	11	Nov. 1	.....	.....	.....	.....	.....	188	120	22	2.3	4.4
31	11	to 5	.....	.....	.....	.....	.....	102	.....	.....	1.9	2.9
Total	372.8	57.5	763	6188	2098	326.2	281.1	128.7
Mean	12.0	11.5	109	200	69.9	10.5	9.07	4.29
Max.	20	16	188	372	121	20	22	9.7
Min.	7.9	5.8	41	78	22	1.7	.5	1.7
Acres-ft.	739	114	1510	12270	4160	647	558	255

Total runoff for period=20,250 acre-feet.

Discharge of Grizzly Creek Near Walden, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	4.4	.....	.....	.....	.....	.....	.....	113	174	11	15	2.9
2	3.6	.....	.....	.....	.....	.....	.....	110	160	12	13	2.5
3	4.0	.....	.....	.....	.....	.....	.....	120	168	14	17	2.5
4	4.4	.....	.....	.....	.....	.....	.....	131	208	15	20	2.5
5	5.5	.....	.....	.....	.....	.....	.....	168	209	14	18	2.5
6	6.8	.....	.....	.....	.....	.....	.....	190	200	15	15	2.9
7	7.9	.....	.....	.....	.....	.....	.....	158	208	13	13	4.0
8	7.4	.....	.....	.....	.....	.....	.....	185	241	13	11	4.4
9	6.8	.....	.....	.....	.....	.....	.....	208	346	13	9.7	3.6
10	6.8	.....	.....	.....	.....	.....	.....	244	271	16	8.5	2.5
11	6.8	.....	.....	.....	.....	.....	.....	284	217	19	7.4	2.5
12	6.8	.....	.....	.....	.....	.....	.....	310	230	19	7.4	3.2
13	Oct. 1	.....	.....	.....	.....	.....	.....	280	445	16	6.8	5.5
14	to 12	.....	.....	.....	.....	.....	.....	185	407	14	7.9	5.8
15	.....	.....	.....	.....	.....	.....	.....	137	225	13	7.9	5.5
16	.....	.....	.....	.....	.....	.....	.....	136	177	13	6.2	4.0
17	.....	.....	.....	.....	.....	.....	.....	152	150	13	6.2	2.9
18	.....	.....	.....	.....	.....	.....	.....	121	116	20	6.8	2.5
19	.....	.....	.....	.....	.....	.....	.....	109	109	31	6.2	3.2
20	.....	.....	.....	.....	.....	.....	.....	126	114	31	5.8	4.0
21	.....	.....	.....	.....	.....	.....	.....	133	117	26	5.8	4.7
22	.....	.....	.....	.....	.....	.....	.....	155	96	28	5.5	4.7
23	227	200	74	23	5.5	4.0
24	232	227	51	21	5.1	4.0
25	212	235	36	20	4.0	3.6
26	185	248	21	23	4.0	2.9
27	164	268	9.7	23	6.2	2.9
28	150	268	12	20	6.2	2.9
29	136	182	11	19	6.2	2.9
30	127	187	11	18	4.0	2.9
31	184	17	3.2
Total	71.2	1433	5754	4813.7	563	264.5	104.9
Mean	5.93	179	186	160	18.2	8.53	3.50
Max.	7.9	232	310	445	31	20	5.8
Min.	3.6	127	109	9.7	11	3.2	2.5
Acres-ft.	141	2840	11410	9550	1120	525	208

Total run-off for period=25,790 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Grizzly Creek at Mouth Near Hebron, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1....	11	11	.....	.....	.....	.....	.....	120	177	44	4.0	4.6
2....	12	9.2	.....	.....	.....	.....	.....	117	179	45	3.4	4.6
3....	13	9.9	.....	.....	.....	.....	.....	111	186	42	2.5	4.0
4....	15	11	.....	.....	.....	.....	.....	158	182	45	2.2	3.7
5....	19	14	.....	.....	.....	.....	.....	209	186	41	1.9	3.7
6....	33	15	.....	.....	.....	.....	.....	151	173	36	1.9	4.0
7....	28	14	.....	.....	.....	.....	.....	120	144	28	3.4	3.1
8....	22	13	.....	.....	.....	.....	.....	107	190	23	14	3.1
9....	27	13	.....	.....	.....	.....	.....	100	175	22	14	4.6
10....	32	15	.....	.....	.....	.....	.....	108	181	20	13	7.0
11....	32	.....	.....	.....	.....	.....	.....	130	136	14	16	7.0
12....	27	.....	.....	.....	.....	.....	.....	160	103	12	16	5.8
13....	22	.....	.....	.....	.....	.....	.....	230	109	12	14	5.8
14....	20	.....	.....	.....	.....	.....	.....	265	98	10	14	7.0
15....	19	.....	.....	.....	.....	.....	.....	240	114	8.8	12	2.6
16....	17	.....	.....	.....	.....	.....	.....	200	144	7.6	12	2.9
17....	16	.....	.....	.....	.....	.....	.....	165	168	8.2	17	22
18....	15	.....	.....	.....	.....	.....	.....	199	181	8.8	26	15
19....	14	19	197	168	11	23	14
20....	14	13	132	160	34	21	12
21....	12	15	91	145	49	16	10
22....	12	16	124	150	40	14	9.4
23....	11	25	166	175	33	12	9.4
24....	11	24	197	160	23	12	9.4
25....	9.9	23	248	170	17	12	10
26....	9.9	33	268	115	14	11	13
27....	11	50	315	96	10	10	14
28....	11	85	337	70	8.8	8.2	14
29....	11	125	192	56	7.0	7.0	14
30....	11	Nov. 1	120	161	47	6.4	6.4	14
31....	11	to 10	158	4.6	5.2
Total	528.8	125.1	548	5476	4338	685.2	345.1	303.2
Mean.	17.1	12.5	45.7	177	14.5	22.1	11.1	10.1
Max.	33	15	125	337	190	49	26	29
Min.	9.9	9.2	13	91	47	4.6	1.9	3.1
Acre-ft.	1050	248	1090	10860	8600	1360	684	601

Total run-off for period = 21,490 acre-feet.

Discharge of Little Grizzly Creek at Mouth Near Hebron, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1....	14	82	.....	.....	.....	.....	.....	78	201	43	14	1.5
2....	15	85	.....	.....	.....	.....	.....	101	212	50	13	0.9
3....	17	87	.....	.....	.....	.....	.....	88	224	49	18	0.6
4....	27	91	.....	.....	.....	.....	.....	75	262	36	14	0.8
5....	27	99	.....	.....	.....	.....	.....	72	236	32	11	1.2
6....	22	Nov. 1	.....	.....	.....	.....	.....	61	266	39	9.6	0.8
7....	21	to 5	.....	.....	.....	.....	.....	64	290	37	8.5	0.9
8....	22	.....	.....	.....	.....	.....	.....	86	328	34	7.5	1.2
9....	33	.....	.....	.....	.....	.....	.....	104	349	28	7.0	1.2
10....	29	.....	.....	.....	.....	.....	.....	154	286	30	6.0	0.8
11....	21	.....	.....	.....	.....	.....	.....	152	286	84	6.0	1.2
12....	19	.....	.....	.....	.....	.....	.....	120	334	40	6.0	1.5
13....	39	.....	.....	.....	.....	.....	.....	107	444	28	6.0	1.2
14....	214	.....	.....	.....	.....	.....	.....	84	250	23	5.5	2.1
15....	156	.....	.....	.....	.....	.....	.....	93	178	20	5.0	2.4
16....	131	.....	.....	.....	.....	.....	.....	92	189	24	4.5	2.1
17....	119	.....	.....	.....	.....	.....	.....	80	228	28	4.5	1.8
18....	112	.....	.....	.....	.....	.....	.....	78	254	34	4.0	1.8
19....	106	.....	.....	.....	.....	.....	.....	81	272	30	4.0	2.8
20....	101	.....	.....	.....	.....	.....	.....	86	222	25	4.5	4.0
21....	101	.....	.....	.....	.....	.....	.....	82	180	22	4.0	6.0
22....	101	to 30	95	154	23	4.0	6.0
23....	99	117	111	134	20	5.0	5.5
24....	95	104	145	123	23	5.0	5.0
25....	91	104	206	114	23	4.5	5.5
26....	91	98	264	92	20	4.0	4.5
27....	93	92	258	80	20	3.7	4.5
28....	93	72	260	78	19	3.4	4.0
29....	98	46	187	67	17	2.8	4.0
30....	95	58	191	53	16	2.1	4.0
31....	88	193	16	1.5
Total	2284	444	691	3848	6386	933	198.6	79.8
Mean.	73.7	88.8	86.4	124	213	30.1	6.4	2.66
Max.	214	99	117	264	444	84	18	6.0
Min.	14	82	46	61	53	16	1.5	0.6
Acre-ft.	4530	881	1370	7630	12670	1850	394	158

Total run-off for period = 29,480 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roaring Fork Near Walden, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	MAY	June	July	Aug.	Sept.	
1....	25	20	.....	.....	.....	.....	.....	32	106	44	29	26
2....	26	21	.....	.....	.....	.....	.....	32	119	42	26	26
3....	23	21	.....	.....	.....	.....	.....	31	122	34	26	24
4....	24	21	.....	.....	.....	.....	.....	80	130	30	24	24
5....	41	18	.....	.....	.....	.....	.....	116	130	28	24	12
6....	41	20	.....	.....	.....	.....	.....	81	106	31	30	20
7....	33	22	.....	.....	.....	.....	.....	42	98	29	39	20
8....	29	22	.....	.....	.....	.....	.....	26	127	27	42	24
9....	38	21	.....	.....	.....	.....	.....	24	108	25	40	25
10....	34	22	.....	.....	.....	.....	.....	35	104	21	44	23
11....	35	18	.....	.....	.....	.....	.....	63	70	16	54	21
12....	32	.....	.....	.....	.....	.....	.....	76	57	13	57	19
13....	30	.....	.....	.....	.....	.....	.....	145	59	12	54	20
14....	25	.....	.....	.....	.....	.....	.....	202	56	18	44	26
15....	24	.....	.....	.....	.....	.....	April 16	154	74	21	40	29
16....	22	.....	.....	.....	.....	.....	to 30	47	106	112	22	41
17....	21	.....	.....	.....	.....	.....	.....	39	72	165	25	49
18....	21	.....	.....	.....	.....	.....	.....	33	96	212	27	51
19....	20	.....	.....	.....	.....	.....	.....	23	120	224	76	59
20....	21	.....	.....	.....	.....	.....	.....	30	78	200	222	52
21....	22	.....	.....	.....	.....	.....	.....	31	50	165	96	45
22....	22	.....	.....	.....	.....	.....	.....	32	66	150	70	44
23....	21	.....	.....	.....	.....	.....	.....	40	90	150	54	41
24....	21	.....	.....	.....	.....	.....	.....	34	124	155	45	39
25....	20	.....	.....	.....	.....	.....	.....	26	163	135	41	38
26....	19	.....	.....	.....	.....	.....	.....	29	198	106	44	36
27....	20	.....	.....	.....	.....	.....	.....	34	262	84	46	36
28....	21	.....	.....	.....	.....	.....	.....	42	180	81	42	31
29....	23	.....	.....	.....	.....	.....	.....	46	112	63	40	27
30....	21	Nov. 1	.....	.....	.....	.....	.....	30	90	52	38	26
31....	20	to 11	.....	.....	.....	.....	.....	90	.....	33	25	.....
Total	795	226	516	3039	3520	1312	1216	740
Mean.	25.6	20.5	34.4	98.0	117	423	39.2	24.7
Max..	41	22	47	262	224	222	59	31
Min..	19	18	23	24	52	12	24	12
Acre-ft.	1580	448	1020	6030	6980	2600	2410	1470

Total run-off for period=22,540 acre-feet.

Discharge of Roaring Fork Near Walden, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1....	26	.....	.....	.....	.....	.....	.....	28	76	27	72	9.5
2....	26	.....	.....	.....	.....	.....	.....	32	86	29	70	10
3....	34	.....	.....	.....	.....	.....	.....	28	96	27	74	10
4....	38	.....	.....	.....	.....	.....	.....	22	110	23	68	10
5....	31	.....	.....	.....	.....	.....	.....	19	105	20	62	12
6....	31	.....	.....	.....	.....	.....	.....	18	115	22	57	12
7....	32	.....	.....	.....	.....	.....	.....	14	160	24	53	12
8....	36	.....	.....	.....	.....	.....	.....	12	230	34	49	11
9....	40	.....	.....	.....	.....	.....	.....	13	246	34	47	10
10....	31	.....	.....	.....	.....	.....	.....	14	232	39	41	9.5
11....	30	.....	.....	.....	.....	.....	.....	19	274	45	40	12
12....	30	.....	.....	.....	.....	.....	.....	27	375	24	41	13
13....	60	.....	.....	.....	.....	.....	.....	28	318	18	42	13
14....	114	.....	.....	.....	.....	.....	.....	24	178	24	38	12
15....	80	.....	.....	.....	.....	.....	.....	18	136	53	35	12
16....	62	.....	.....	.....	.....	.....	.....	17	145	66	34	12
17....	Oct. 1	.....	.....	.....	.....	.....	.....	18	206	81	32	11
18....	to 16	.....	.....	.....	.....	.....	.....	14	258	138	31	12
19....	.....	.....	.....	.....	.....	.....	.....	12	314	116	29	16
20....	.....	.....	.....	.....	.....	.....	.....	13	246	106	29	17
21....	.....	.....	.....	.....	.....	.....	.....	13	184	96	29	16
22....	.....	.....	.....	.....	.....	.....	.....	13	160	87	26	14
23....	.....	.....	.....	.....	.....	.....	Apr. 26	24	136	87	19	14
24....	.....	.....	.....	.....	.....	.....	to 30	34	116	109	18	14
25....	.....	.....	.....	.....	.....	.....	.....	56	53	92	103	13
26....	.....	.....	.....	.....	.....	.....	.....	44	98	62	95	19
27....	.....	.....	.....	.....	.....	.....	.....	39	135	56	84	17
28....	.....	.....	.....	.....	.....	.....	.....	32	95	52	76	14
29....	.....	.....	.....	.....	.....	.....	.....	16	78	42	80	13
30....	.....	.....	.....	.....	.....	.....	.....	19	70	32	81	12
31....	.....	.....	.....	.....	.....	.....	.....	70	.....	80	9.5	.....
Total	701	206	1073	4838	1926	1141.5	374.0
Mean.	43.8	34.3	34.6	161	62.2	36.8	12.5
Max..	114	56	135	375	138	74	17
Min..	26	16	12	32	18	9.5	9.5
Acre-ft.	1390	409	2130	9600	3820	2260	742

Total run-off for period=20,350 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Platte River Near Walden, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	49	46	.....	.....	.....	.....	.....	331	432	119	56	38
2....	54	46	.....	.....	.....	.....	.....	351	440	116	54	39
3....	55	48	.....	.....	.....	.....	.....	380	456	100	50	36
4....	55	45	.....	.....	.....	.....	.....	574	464	92	45	34
5....	71	22	.....	.....	.....	.....	.....	690	456	86	42	26
6....	95	35	.....	.....	.....	.....	.....	480	436	88	49	26
7....	77	40	.....	.....	.....	.....	.....	420	387	78	60	29
8....	69	45	.....	.....	.....	.....	.....	360	485	77	66	31
9....	78	45	.....	.....	.....	.....	.....	430	485	71	67	35
10....	82	43	.....	.....	.....	.....	.....	580	510	66	66	35
11....	83	40	.....	.....	.....	.....	.....	620	387	54	98	35
12....	82	.....	.....	.....	.....	.....	.....	640	311	49	89	32
13....	70	.....	.....	.....	.....	.....	.....	690	324	46	89	31
14....	66	.....	.....	.....	.....	.....	.....	690	295	51	78	37
15....	62	.....	.....	.....	.....	.....	April 16 to 30	694	295	50	74	43
16....	56	.....	.....	.....	.....	.....	.....	166	369	376	54	71
17....	51	.....	.....	.....	.....	.....	.....	160	394	448	55	83
18....	49	.....	.....	.....	.....	.....	.....	142	444	501	64	98
19....	48	.....	.....	.....	.....	.....	.....	110	501	468	78	106
20....	46	.....	.....	.....	.....	.....	.....	121	405	413	341	97
21....	41	.....	.....	.....	.....	.....	.....	114	271	358	211	84
22....	43	.....	.....	.....	.....	.....	.....	121	265	344	160	77
23....	42	.....	.....	.....	.....	.....	.....	131	362	421	148	71
24....	40	.....	.....	.....	.....	.....	.....	144	413	311	108	69
25....	39	.....	.....	.....	.....	.....	.....	154	552	452	92	63
26....	39	.....	.....	.....	.....	.....	.....	177	636	324	88	60
27....	40	.....	.....	.....	.....	.....	.....	208	771	254	84	58
28....	42	.....	.....	.....	.....	.....	.....	256	816	213	80	55
29....	44	.....	.....	.....	.....	.....	.....	331	556	164	74	49
30....	49	Nov. 1	.....	.....	.....	.....	.....	324	452	137	69	42
31....	46	to 11	.....	.....	.....	.....	.....	.....	402	.....	62	39
Total	1766	455	.....	.....	.....	.....	.....	2659	15809	11347	2911	2105
Mean.	57.0	41.4	.....	.....	.....	.....	.....	177	510	378	93.9	67.9
Max..	95	48	.....	.....	.....	.....	.....	331	816	510	341	106
Min..	39	22	.....	.....	.....	.....	.....	110	265	137	46	39
Acre-ft.	3500	902	.....	.....	.....	.....	.....	5270	31360	22510	5770	4180

Total run-off for period = 75,940 acre-feet.

Discharge of North Platte River Near Walden, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	48	.....	.....	.....	.....	.....	.....	189	492	116	105	15
2....	48	.....	.....	.....	.....	.....	.....	241	485	121	97	16
3....	56	.....	.....	.....	.....	.....	.....	265	556	121	106	16
4....	64	.....	.....	.....	.....	.....	.....	247	664	108	105	16
5....	66	.....	.....	.....	.....	.....	.....	265	652	102	97	19
6....	64	.....	.....	.....	.....	.....	.....	277	704	102	86	21
7....	63	.....	.....	.....	.....	.....	.....	216	769	111	77	22
8....	64	.....	.....	.....	.....	.....	.....	235	828	118	71	19
9....	74	.....	.....	.....	.....	.....	.....	283	1000	118	67	19
10....	71	.....	.....	.....	.....	.....	.....	331	864	121	59	17
11....	66	.....	.....	.....	.....	.....	.....	391	841	169	56	20
12....	62	.....	.....	.....	.....	.....	.....	436	960	131	58	22
13....	66	.....	.....	.....	.....	.....	.....	422	1290	97	58	22
14....	Oct. 1	.....	.....	.....	.....	.....	.....	325	1010	90	51	21
15....	to 13	.....	.....	.....	.....	.....	.....	250	640	111	50	22
16....	.....	.....	.....	.....	.....	.....	.....	250	564	126	46	19
17....	.....	.....	.....	.....	.....	.....	.....	283	616	138	43	18
18....	.....	.....	.....	.....	.....	.....	.....	235	656	219	39	18
19....	.....	.....	.....	.....	.....	.....	.....	211	724	196	38	23
20....	.....	.....	.....	.....	.....	.....	.....	230	640	175	36	26
21....	.....	.....	.....	.....	.....	.....	.....	230	532	154	37	26
22....	.....	.....	.....	.....	.....	.....	.....	241	450	140	37	26
23....	.....	.....	.....	.....	.....	.....	.....	.....	295	400	131	29
24....	.....	.....	.....	.....	.....	.....	Apr. 25 to 30	361	358	150	26	26
25....	.....	.....	.....	.....	.....	.....	.....	349	429	304	146	30
26....	.....	.....	.....	.....	.....	.....	.....	295	556	238	137	26
27....	.....	.....	.....	.....	.....	.....	.....	262	632	186	128	25
28....	.....	.....	.....	.....	.....	.....	.....	224	648	182	114	26
29....	.....	.....	.....	.....	.....	.....	.....	166	478	156	116	24
30....	.....	.....	.....	.....	.....	.....	.....	158	471	131	114	21
31....	.....	.....	.....	.....	.....	.....	.....	.....	485	.....	113	19
Total	812	.....	.....	.....	.....	.....	.....	1454	10408	17892	4033	1645
Mean.	62.5	.....	.....	.....	.....	.....	.....	242	336	596	130	53.1
Max..	74	.....	.....	.....	.....	.....	.....	349	648	1290	219	106
Min..	48	.....	.....	.....	.....	.....	.....	158	189	131	90	19
Acre-ft.	1610	.....	.....	.....	.....	.....	.....	2880	20640	35490	8000	3260

Total run-off for period = 73,150 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Platte River Near Northgate, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	131	128	86	66	50	105	250	604	647	345	171	119
2.....	143	122	90	62	52	120	290	580	638	330	164	116
3.....	147	119	94	56	52	115	300	604	647	365	150	113
4.....	131	125	98	52	54	115	310	780	674	277	134	102
5.....	150	105	100	50	56	110	330	1130	701	250	122	92
6.....	216	81	105	52	51	110	380	898	760	229	119	87
7.....	237	90	105	52	52	105	370	710	740	225	150	80
8.....	201	100	100	52	54	105	360	512	832	225	157	82
9.....	174	115	94	58	60	110	360	450	975	241	164	92
10.....	167	100	86	56	64	105	380	526	1120	233	157	100
11.....	174	82	78	56	64	110	361	604	1130	204	197	100
12.....	204	80	66	58	66	105	320	710	931	182	246	89
13.....	189	84	60	54	66	105	418	750	865	167	229	84
14.....	171	90	54	54	64	100	394	942	780	157	208	89
15.....	160	98	54	50	66	100	418	1100	750	171	182	116
16.....	150	100	58	52	64	105	464	942	931	204	174	140
17.....	143	105	62	56	64	110	431	701	1110	220	185	150
18.....	140	105	66	54	66	115	388	612	1060	282	233	137
19.....	134	105	68	52	68	*124	282	701	931	272	250	128
20.....	134	100	70	56	70	120	268	730	832	470	246	116
21.....	131	100	72	58	72	120	272	588	760	572	229	102
22.....	125	105	72	62	74	125	259	498	720	424	212	91
23.....	122	96	70	56	78	140	282	556	909	361	208	97
24.....	125	88	70	58	*84	160	361	612	876	310	193	102
25.....	119	82	72	58	88	155	378	770	1100	282	185	116
26.....	116	80	70	56	78	150	388	953	1070	259	189	128
27.....	119	82	70	*52	88	160	444	1210	832	250	208	122
28.....	122	78	70	52	92	170	533	1500	604	237	185	122
29.....	122	80	72	50	.....	185	638	1190	484	229	157	122
30.....	128	82	72	52	.....	210	656	865	394	208	134	125
31.....	125	.....	70	52	.....	200	.....	692	.....	185	125	.....
Total	4650	2910	2374	1704	1860	3969	11285	24020	24803	8306	5663	3262
Mean.	150	97	76.6	55.0	66.4	128	376	775	827	268	183	109
Max.	237	128	105	66	92	210	656	1500	1130	572	250	150
Min.	116	78	54	50	50	100	250	450	394	157	119	80
Ac.-ft.	9220	5770	4710	3380	3690	7870	22380	47640	49200	16470	11230	6470

Total run-off for water year=188,000 acre-feet.

Discharge of North Platte River Near North Gate, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	127	205	74	28	37	72	150	380	950	410	244	62
2.....	125	209	74	28	39	76	190	520	940	368	232	56
3.....	135	220	74	27	40	84	230	608	1000	356	224	56
4.....	158	240	74	27	42	80	300	592	1240	330	236	56
5.....	174	248	74	28	42	80	660	672	1420	310	228	62
6.....	170	260	74	30	42	82	1400	704	1490	287	216	70
7.....	167	244	74	32	42	80	1380	592	1590	291	198	76
8.....	174	187	74	34	41	84	1500	560	1720	325	180	78
9.....	194	184	74	35	40	88	1560	648	2060	335	170	64
10.....	209	205	72	35	40	90	1680	704	2270	315	158	54
11.....	187	194	70	35	43	90	1760	720	1890	350	148	51
12.....	177	167	68	34	45	94	1790	704	1970	335	148	60
13.....	180	180	66	33	46	90	1700	680	2800	260	151	70
14.....	269	180	66	33	45	86	1520	592	3000	224	151	66
15.....	374	190	64	33	45	84	1430	438	2140	216	140	60
16.....	310	190	64	32	46	88	1310	368	1520	240	132	54
17.....	269	190	64	31	45	92	1090	374	1290	325	130	48
18.....	240	170	64	31	43	100	1030	380	1240	544	120	43
19.....	224	150	64	30	42	110	910	335	1310	632	117	48
20.....	209	70	64	*30	44	110	768	315	1330	536	117	64
21.....	202	62	54	30	47	105	696	310	1220	459	112	76
22.....	212	56	48	30	50	110	704	305	1080	398	112	72
23.....	232	60	36	30	58	120	712	350	950	356	105	76
24.....	224	66	31	31	63	130	720	398	836	356	98	80
25.....	216	70	29	32	65	130	584	480	728	350	103	76
26.....	216	74	28	34	66	120	536	584	728	325	108	74
27.....	220	74	29	36	*67	115	473	720	536	300	105	74
28.....	224	74	30	36	69	115	438	854	512	278	94	76
29.....	236	74	30	35	.....	115	374	827	488	269	83	76
30.....	252	74	30	34	.....	*110	350	800	459	274	74	74
31.....	248	.....	29	35	.....	125	.....	863	.....	260	66	.....
Total	6554	4567	1766	989	1334	3055	27945	17377	40707	10614	4500	1955
Mean.	211	152	57.0	31.9	47.6	98.5	932	561	1357	342	145	65.2
Max.	374	260	74	36	69	130	1790	863	3000	632	244	80
Min.	125	56	28	27	37	72	150	305	459	216	66	43
Ac.-ft.	13000	9060	3500	1960	2650	6060	55430	24470	80740	21050	8930	3880

Total run-off for water year=240,700 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of North Fork of North Platte River Near Walden, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44						213	48	61	88	54	54
2	48						208	51	64	79	54	54
3	38						228	52	52	77	50	50
4	36						272	85	42	70	46	46
5	52						261	106	39	66	45	45
6	83						182	108	37	73	42	42
7	51						130	79	38	79	41	41
8	38						113	113	56	90	50	50
9	41						104	118	44	79	51	51
10	56						92	104	36	90	45	45
11	49						81	66	30	116	40	40
12	38						52	54	30	106	37	37
13	37						62	49	28	101	33	33
14	37						51	49	27	79	43	43
15	36						28	58	41	71	58	58
16	37						18	72	81	75	49	49
17	35						14	99	128	94	43	43
18	36						90	12	101	147	94	42
19	34						56	14	108	147	94	42
20	33						52	19	113	255	90	41
21	34						52	10	130	208	84	38
22	33						85	14	159	159	86	36
23	33						142	29	228	142	88	41
24	34						187	20	192	135	79	46
25	33						176	31	205	123	75	49
26	33						187	62	174	125	92	48
27	32						226	132	140	123	90	44
28	36						228	132	104	118	71	42
29	36						215	85	77	106	61	41
30	37						192	62	70	99	56	43
31	36						49	..	94	55	..	..
Total	1236						1888	2780	3112	2815	2548	1334
Mean	39.9						14.5	59.7	104	90.8	82.2	44.5
Max	83						228	272	228	255	116	58
Min	32						52	10	48	27	55	33
Acre-ft.	2450						3740	5510	6170	5580	5050	2650

Total run-off for period=31,150 acre-feet.

**Discharge of North Fork of North Platte River Near Walden, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40						87	18	40	102	29	29
2	39						137	19	40	100	30	30
3	50						118	21	40	95	30	30
4	70						116	30	36	100	31	31
5	56						104	33	33	93	34	34
6	48						97	36	31	89	38	38
7	50						85	48	40	85	37	37
8	59						89	70	57	81	27	27
9	81						85	160	54	79	22	22
10	57						71	132	61	75	19	19
11	50						75	116	64	73	20	20
12	50						62	225	40	73	24	24
13	52						31	339	31	75	21	21
14	Oct. 1						18	140	28	68	20	20
15	to 13						14	95	28	62	17	17
16							14	75	61	57	16	16
17							15	79	137	54	14	14
18							16	93	254	52	15	15
19							13	123	236	54	20	20
20							11	125	186	52	24	24
21							7.8	102	165	54	22	22
22							7.8	83	152	56	26	26
23							8.2	79	155	48	26	26
24							9.4	77	147	45	26	26
25							Apr. 27	9.8	79	128	54	26
26							to 30	11	79	118	52	24
27							104	12	75	111	45	24
28							102	18	70	109	39	24
29							87	15	66	113	36	23
30							87	14	44	116	34	22
31							17	..	109	30	..	..
Total	702						380	1388.0	2731	2920	2012	731
Mean	54.0						..	44.8	91.0	94.2	64.9	24.4
Max	81						..	137	339	254	102	38
Min	39						..	7.8	18	28	30	14
Acre-ft.	1390						..	2750	5420	5790	3990	1150

Total run-off for period=20,790 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Illinois Creek at Walden, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.5	2.2	.....	.....	.....	.....	.....	22	66	23	.9	1.2
2....	2.5	2.4	.....	.....	.....	.....	.....	16	50	20	.8	1.2
3....	2.5	2.4	.....	.....	.....	.....	.....	15	42	18	.8	.8
4....	2.5	2.9	.....	.....	.....	.....	.....	22	37	16	.7	.6
5....	3.3	.....	.....	.....	.....	.....	.....	35	39	16	.6	.6
6....	2.7	.....	.....	.....	.....	.....	.....	26	63	23	.6	.5
7....	2.5	.....	.....	.....	.....	.....	.....	14	91	22	.6	.5
8....	2.2	.....	.....	.....	.....	.....	.....	13	99	18	.6	.5
9....	2.7	.....	.....	.....	.....	.....	.....	8.2	106	15	.6	.5
10....	2.7	.....	.....	.....	.....	.....	.....	6.5	140	12	.6	.4
11....	2.5	.....	.....	.....	.....	.....	.....	5.2	140	11	1.3	.4
12....	2.5	.....	.....	.....	.....	.....	.....	4.1	122	8.2	1.6	.4
13....	2.9	.....	.....	.....	.....	.....	.....	3.5	119	6.8	2.9	.5
14....	3.3	.....	.....	.....	.....	.....	.....	3.1	99	6.2	3.5	.6
15....	3.3	.....	.....	.....	.....	.....	.....	3.3	97	6.5	3.1	.6
16....	3.7	.....	.....	.....	.....	.....	.....	40	86	6.2	2.7	1.8
17....	4.5	.....	.....	.....	.....	.....	Apr. 19	66	64	5.5	3.9	2.2
18....	5.8	.....	.....	.....	.....	.....	to 30	58	48	6.0	6.8	2.5
19....	5.8	.....	.....	.....	.....	.....	31	57	34	6.2	6.5	2.7
20....	5.5	.....	.....	.....	.....	.....	27	66	25	10	5.8	2.2
21....	6.2	.....	.....	.....	.....	.....	32	79	20	9.8	4.8	1.6
22....	6.5	.....	.....	.....	.....	.....	25	79	19	8.2	4.1	1.3
23....	7.4	.....	.....	.....	.....	.....	23	72	29	7.0	3.3	1.4
24....	8.2	.....	.....	.....	.....	.....	19	66	37	5.8	3.1	1.8
25....	7.4	.....	.....	.....	.....	.....	17	80	124	4.5	2.9	2.0
26....	6.5	.....	.....	.....	.....	.....	11	101	189	3.5	3.3	2.2
27....	8.2	.....	.....	.....	.....	.....	14	138	112	3.1	3.3	2.2
28....	9.4	.....	.....	.....	.....	.....	26	134	76	2.2	2.2	2.2
29....	8.6	.....	.....	.....	.....	.....	36	117	44	1.9	1.6	2.4
30....	9.0	.....	.....	.....	.....	.....	32	99	29	1.6	1.2	2.7
31....	5.0	.....	.....	.....	.....	.....	.....	83	.....	1.3	1.0	.....
Total	148.5	.....	.....	.....	.....	.....	293	1531.9	2246	304.5	75.7	40.5
Mean.	4.79	.....	.....	.....	.....	.....	24.4	49.4	74.9	9.82	2.44	1.35
Max..	9.4	.....	.....	.....	.....	.....	36	138	189	23	6.8	2.7
Min..	2.2	.....	.....	.....	.....	.....	11	3.1	19	1.3	.6	.4
Acre-ft.	295	.....	.....	.....	.....	.....	581	3040	4450	604	150	80

Total run-off for period—9,200 acre-feet.

Discharge of Illinois Creek at Walden, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.5	.....	.....	.....	.....	.....	.....	28	116	23	2.6	0.1
2....	2.7	.....	.....	.....	.....	.....	.....	39	98	20	2.4	0.1
3....	3.1	.....	.....	.....	.....	.....	.....	48	100	19	2.3	0
4....	3.7	.....	.....	.....	.....	.....	.....	67	142	16	2.2	0.2
5....	3.9	.....	.....	.....	.....	.....	.....	78	175	15	1.9	0.3
6....	4.3	.....	.....	.....	.....	.....	.....	74	194	13	1.5	0.3
7....	4.8	.....	.....	.....	.....	.....	.....	56	193	13	1.3	0.5
8....	5.0	.....	.....	.....	.....	.....	.....	53	205	12	0.9	0.4
9....	5.2	.....	.....	.....	.....	.....	.....	65	308	13	0.7	0.3
10....	5.4	.....	.....	.....	.....	.....	.....	67	298	12	0.6	0.4
11....	5.4	.....	.....	.....	.....	.....	.....	55	209	12	0.6	0.7
12....	5.6	.....	.....	.....	.....	.....	.....	53	210	11	0.6	0.7
13....	5.8	.....	.....	.....	.....	.....	.....	54	356	10	0.7	0.6
14....	6.0	.....	.....	.....	.....	.....	.....	54	420	9.2	0.6	0.5
15....	6.0	.....	.....	.....	.....	.....	.....	45	348	9.5	0.6	0.4
16....	5.0	.....	.....	.....	.....	.....	.....	35	183	11	0.6	0.3
17....	5.0	.....	.....	.....	.....	.....	.....	30	129	10	0.5	0.3
18....	5.0	.....	.....	.....	.....	.....	.....	31	103	14	0.4	0.6
19....	5.0	.....	.....	.....	.....	.....	.....	25	88	18	0.4	1.4
20....	5.0	.....	.....	.....	.....	.....	.....	23	90	16	0.4	2.8
21....	5.0	.....	.....	.....	.....	.....	.....	17	94	15	0.5	3.4
22....	5.0	.....	.....	.....	.....	.....	.....	15	95	14	0.3	5.2
23....	5.0	.....	.....	.....	.....	.....	.....	11	80	15	0.3	5.5
24....	5.0	.....	.....	.....	.....	.....	.....	8.8	62	13	0.4	3.8
25....	5.0	.....	.....	.....	.....	.....	Apr. 27	8.4	49	11	0.4	3.2
26....	5.0	.....	.....	.....	.....	.....	to 30	9.2	33	8.1	0.4	3.0
27....	5.0	.....	.....	.....	.....	.....	28	11	26	6.4	0.2	3.0
28....	5.0	.....	.....	.....	.....	.....	28	36	28	5.0	0.2	3.0
29....	5.0	.....	.....	.....	.....	.....	23	108	28	4.2	0.2	3.0
30....	5.0	.....	.....	.....	.....	.....	20	101	25	3.5	0.1	3.8
31....	5.0	.....	.....	.....	.....	.....	.....	113	.....	3.0	0	.....
Total	149.4	.....	.....	.....	.....	.....	.....	1418.4	4485	374.9	24.8	47.8
Mean.	4.82	.....	.....	.....	.....	.....	.....	45.8	150	12.1	0.80	1.59
Max..	.....	.....	.....	.....	.....	.....	.....	113	420	23	2.6	5.5
Min..	.....	.....	.....	.....	.....	.....	.....	8.4	25	3.0	0	0
Acre-ft.	296	.....	.....	.....	.....	.....	.....	2810	8900	744	19	95

Total run-off for period 12,890 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River Near Lindland, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	12	5.3	.....	.....	.....	.....	.....	33	109	32	16	20
2.....	9.6	5.3	.....	.....	.....	.....	.....	39	97	41	15	19
3.....	8.2	5.3	.....	.....	.....	.....	.....	46	100	54	14	17
4.....	8.2	.....	.....	.....	.....	.....	.....	52	107	52	14	16
5.....	8.9	.....	.....	.....	.....	.....	.....	46	105	44	13	15
6.....	12	.....	.....	.....	.....	.....	.....	41	100	42	14	12
7.....	8.9	.....	.....	.....	.....	.....	.....	33	90	39	14	12
8.....	8.2	.....	.....	.....	.....	.....	.....	42	109	41	13	17
9.....	9.6	.....	.....	.....	.....	.....	.....	71	92	28	12	16
10.....	11	.....	.....	.....	.....	.....	.....	100	92	20	12	16
11.....	10	.....	.....	.....	.....	.....	.....	148	81	12	13	20
12.....	8.9	.....	.....	.....	.....	.....	.....	200	71	8.9	23	23
13.....	8.9	.....	.....	.....	.....	.....	.....	266	71	7.6	24	24
14.....	8.9	.....	.....	.....	.....	.....	.....	280	76	6.9	22	34
15.....	8.9	.....	.....	.....	.....	.....	.....	225	76	7.6	24	28
16.....	7.6	.....	.....	.....	.....	.....	Apr. 18	196	81	6.9	26	24
17.....	6.9	.....	.....	.....	.....	.....	to 30	220	89	6.7	28	18
18.....	6.6	.....	.....	.....	.....	.....	7.2	232	107	7.6	30	13
19.....	6.3	.....	.....	.....	.....	.....	9.6	214	122	9.0	28	11
20.....	5.6	.....	.....	.....	.....	.....	8.2	182	120	13	26	10
21.....	5.0	.....	.....	.....	.....	.....	12	182	111	17	25	10
22.....	5.0	.....	.....	.....	.....	.....	10	192	105	19	26	10
23.....	5.0	.....	.....	.....	.....	.....	12	188	111	18	26	12
24.....	5.0	.....	.....	.....	.....	.....	9.6	178	102	16	26	10
25.....	5.0	.....	.....	.....	.....	.....	10	164	89	17	26	10
26.....	5.3	.....	.....	.....	.....	.....	12	164	78	20	27	12
27.....	5.0	.....	.....	.....	.....	.....	16	162	63	19	26	10
28.....	5.0	.....	.....	.....	.....	.....	19	142	55	18	24	12
29.....	5.0	.....	.....	.....	.....	.....	23	129	41	18	23	14
30.....	5.0	.....	.....	.....	.....	.....	30	113	32	17	22	14
31.....	5.0	.....	.....	.....	.....	.....	.....	118	.....	17	22	.....
Total	230.5	.....	.....	.....	.....	.....	178.6	4398	2682	675.2	654	479
Mean..	7.44	.....	.....	.....	.....	.....	13.7	142	89.4	21.8	21.1	16.0
Max...	12	.....	.....	.....	.....	.....	30	280	122	54	30	34
Min...	5.0	.....	.....	.....	.....	.....	7.2	33	32	6.7	12	10
Acre-ft.	457	.....	.....	.....	.....	.....	354	8720	5320	1340	1300	950

Total run-off for period—18,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River at Walden, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	22	15	.....	.....	.....	.....	.....	51	84	26	9.2	16
2....	23	14	.....	.....	.....	.....	.....	19	74	26	9.2	16
3....	19	14	.....	.....	.....	.....	.....	48	66	25	7.9	14
4....	21	13	.....	.....	.....	.....	.....	58	62	25	6.9	14
5....	25	10	.....	.....	.....	.....	.....	87	70	35	6.4	10
6....	31	14	.....	.....	.....	.....	.....	62	115	30	7.5	8.5
7....	33	16	.....	.....	.....	.....	.....	47	136	24	7.9	7.5
8....	32	16	.....	.....	.....	.....	.....	36	117	22	8.8	7.2
9....	32	17	.....	.....	.....	.....	.....	31	154	21	9.2	9.8
10....	32	16	.....	.....	.....	.....	.....	43	239	18	10	12
11....	30	.....	.....	.....	.....	.....	.....	69	188	16	14	12
12....	31	.....	.....	.....	.....	.....	.....	100	149	15	14	12
13....	30	.....	.....	.....	.....	.....	.....	154	130	14	15	13
14....	28	.....	.....	.....	.....	.....	.....	205	103	14	16	17
15....	26	.....	.....	.....	.....	.....	.....	59	245	90	16	21
16....	26	.....	.....	.....	.....	.....	.....	52	202	86	12	21
17....	25	.....	.....	.....	.....	.....	.....	42	154	84	12	32
18....	23	.....	.....	.....	.....	.....	.....	35	142	74	12	36
19....	23	.....	.....	.....	.....	.....	.....	35	156	68	14	35
20....	21	.....	.....	.....	.....	.....	.....	31	151	69	23	33
21....	18	.....	.....	.....	.....	.....	.....	30	132	74	21	28
22....	14	.....	.....	.....	.....	.....	.....	31	120	74	19	27
23....	14	.....	.....	.....	.....	.....	.....	33	132	66	16	26
24....	13	.....	.....	.....	.....	.....	.....	35	120	75	11	26
25....	12	.....	.....	.....	.....	.....	.....	31	128	124	9.2	26
26....	12	.....	.....	.....	.....	.....	.....	29	134	89	8.5	26
27....	14	.....	.....	.....	.....	.....	.....	40	190	60	8.8	25
28....	16	.....	.....	.....	.....	.....	.....	58	161	43	8.8	22
29....	15	.....	.....	.....	.....	.....	.....	72	138	30	8.8	19
30....	15	Nov. 1	.....	.....	.....	.....	.....	68	115	28	8.5	17
31....	14	to 10	.....	.....	.....	.....	.....	90	.....	.....	9.2	16
Total	690	145	.....	.....	.....	.....	.....	681	3550	2821	528.8	572.0
Mean.	22.3	14.5	.....	.....	.....	.....	.....	42.6	115	94.0	17.1	18.5
Max..	33	17	.....	.....	.....	.....	.....	72	245	239	35	36
Min..	12	10	.....	.....	.....	.....	.....	29	31	28	8.5	6.4
Acres-ft.	1370	288	.....	.....	.....	.....	.....	1350	7040	5600	1050	1130

Total run-off for period=18,720 acre-feet.

Discharge of Michigan River at Walden, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	19	31	.....	.....	.....	.....	.....	57	159	48	15	11
2....	20	29	.....	.....	.....	.....	.....	66	161	40	14	11
3....	21	34	.....	.....	.....	.....	.....	75	178	33	14	11
4....	23	35	.....	.....	.....	.....	.....	84	228	27	22	12
5....	21	32	.....	.....	.....	.....	.....	108	243	24	21	13
6....	20	35	.....	.....	.....	.....	.....	104	249	26	23	14
7....	21	Nov. 1	.....	.....	.....	.....	.....	104	252	22	20	14
8....	22	to 6	.....	.....	.....	.....	.....	130	291	21	19	13
9....	26	.....	.....	.....	.....	.....	.....	148	408	23	18	12
10....	28	.....	.....	.....	.....	.....	.....	152	294	22	18	10
11....	29	.....	.....	.....	.....	.....	.....	134	246	20	18	14
12....	31	.....	.....	.....	.....	.....	.....	113	284	15	20	17
13....	33	.....	.....	.....	.....	.....	.....	93	490	13	26	16
14....	40	.....	.....	.....	.....	.....	.....	75	505	13	24	14
15....	49	.....	.....	.....	.....	.....	.....	58	329	16	22	13
16....	47	.....	.....	.....	.....	.....	.....	45	246	12	20	11
17....	42	.....	.....	.....	.....	.....	.....	47	198	13	19	9.5
18....	37	.....	.....	.....	.....	.....	.....	42	198	20	18	9.5
19....	35	.....	.....	.....	.....	.....	.....	33	238	27	18	14
20....	35	.....	.....	.....	.....	.....	.....	24	243	30	16	16
21....	33	.....	.....	.....	.....	.....	.....	22	240	30	16	14
22....	34	.....	.....	.....	.....	.....	.....	21	202	23	15	17
23....	34	.....	.....	.....	.....	.....	.....	24	163	20	14	18
24....	31	.....	.....	.....	.....	.....	.....	29	138	21	14	17
25....	31	.....	.....	.....	.....	.....	.....	36	124	22	16	17
26....	34	.....	.....	.....	.....	.....	.....	40	96	20	22	17
27....	35	.....	.....	.....	.....	.....	.....	74	74	17	20	18
28....	36	.....	.....	.....	.....	.....	.....	44	161	79	16	18
29....	39	.....	.....	.....	.....	.....	.....	39	140	74	18	14
30....	37	.....	.....	.....	.....	.....	.....	41	136	59	18	12
31....	31	.....	.....	.....	.....	.....	.....	150	.....	16	11	.....
Total	975	196	.....	.....	.....	.....	.....	124	2525	6689	686	555
Mean.	31.5	32.7	.....	.....	.....	.....	.....	.....	81.5	223	22.1	17.9
Max..	49	35	.....	.....	.....	.....	.....	.....	161	505	48	26
Min..	19	29	.....	.....	.....	.....	.....	.....	21	59	12	11
Acres-ft.	1930	389	.....	.....	.....	.....	.....	.....	5010	13270	1360	1100

Total run-off for period=23,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River Near Cowdrey, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	19					64	59	10	3.1	15	
2	28	18					62	43	8.1	3.1	15	
3	24	18					54	29	6.1	2.6	13	
4	20	18					46	21	6.1	1.8	8.6	
5	24	14					44	18	5.6	1.1	6.1	
6	38	18					25	21	5.1	1.1	4.1	
7	40	22					11	85	6.1	1.1	3.6	
8	38	21					6.6	128	8.6	1.1	3.6	
9	40	22					3.6	139	9.4	1.0	4.6	
10	40	14					2.6	241	22	1.4	8.1	
11	34						1.4	231	32	4.1	9.4	
12	30						1.6	190	28	7.1	7.1	
13	30						2.8	177	26	8.6	8.1	
14	29						19	128	25	8.6	15	
15	28						44	110	24	9.4	22	
16	25						85	101	23	11	28	
17	23						90	79	79	21	22	26
18	22						94	66	47	17	34	23
19	22						92	69	22	17	36	19
20	22						78	72	13	28	38	15
21	21						69	79	9.4	32	35	11
22	19						62	74	11	28	34	8.1
23	18						59	71	13	23	32	9.4
24	16						57	71	19	18	29	11
25	15						55	74	94	14	29	14
26	14						51	96	152	11	30	16
27	16						47	170	115	8.1	32	16
28	17						71	173	62	6.1	26	15
29	18						90	139	32	4.6	22	15
30	20	Nov. 1					78	105	16	4.1	19	15
31	18	to 10					76	76	3.6	16	16	15
Total	771	184					993	1886.6	2405.4	480.6	500.2	384.8
Mean	24.9	18.4					70.9	60.9	80.2	15.5	16.1	12.8
Max.	40	22					94	173	241	32	38	28
Min.	14	14					47	1.4	9.4	3.6	1.0	3.6
Acre-ft.	1530	365					1970	3740	4770	953	992	763

Total run-off for period = 15,880 acre-feet.

Discharge of Michigan River Near Cowdrey, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	35					71	132	15	13	3.4	
2	20	35					98	126	12	11	3.4	
3	23						115	128	6.2	14	3.4	
4	26						126	191	6.2	18	3.4	
5	26						146	250	6.2	20	4.1	
6	25						142	312	5.5	18	4.1	
7	26						122	329	5.2	15	4.1	
8	28						113	346	5.2	11	4.4	
9	32						130	484	4.8	11	4.4	
10	35						146	605	3.8	8.8	3.4	
11	35						126	406	3.0	8.1	3.8	
12	32						98	382	2.0	8.8	4.8	
13	36						88	654	2.4	11	6.2	
14	41						79	820	3.0	13	5.5	
15	51						51	770	6.8	12	5.2	
16	52						28	456	6.2	10	4.8	
17	47						17	268	5.5	8.8	4.1	
18	14						14	200	16	7.4	4.1	
19	39						12	182	13	6.2	4.8	
20	39						8.8	198	56	6.8	8.1	
21	38						5.2	204	54	6.2	9.4	
22	38						3.0	189	44	6.2	9.4	
23	38						3.8	154	31	4.8	11	
24	38						100	3.8	109	28	4.8	12
25	39						80	3.0	75	28	4.4	11
26	41						71	2.4	58	22	4.4	11
27	43						66	1.8	26	18	6.8	10
28	44						61	5.2	13	16	5.2	12
29	49						54	49	15	16	4.1	13
30	47						58	79	21	16	3.4	13
31	43						104	104	15	3.4	15	15
Total	1132						490	1991.0	8103	502.0	285.6	201.3
Mean	36.5						70.0	64.2	270	16.2	9.21	6.71
Max.	52						100	146	820	56	20	13
Min.	17						54	1.8	13	2.0	3.4	3.4
Acre-ft.	2250						972	3950	16070	996	566	399

Total run-off for period = 25,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Canadian River at Cowdrey, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	22	18	.....	.....	.....	.....	.....	60	77	28	12	9.2	
2.....	25	16	.....	.....	.....	.....	.....	58	74	27	10	9.2	
3.....	23	17	.....	.....	.....	.....	.....	52	72	22	8.8	8.8	
4.....	20	15	.....	.....	.....	.....	.....	58	65	22	7.6	7.2	
5.....	22	.....	.....	.....	.....	.....	.....	69	76	20	7.4	7.0	
6.....	29	.....	.....	.....	.....	.....	.....	64	88	21	7.4	7.0	
7.....	29	.....	.....	.....	.....	.....	.....	51	92	20	9.2	7.0	
8.....	24	.....	.....	.....	.....	.....	.....	41	87	19	10	7.2	
9.....	23	.....	.....	.....	.....	.....	.....	37	98	18	8.0	8.0	
10.....	26	.....	.....	.....	.....	.....	.....	25	120	16	6.8	10	
11.....	24	.....	.....	.....	.....	.....	.....	37	150	14	15	10	
12.....	22	.....	.....	.....	.....	.....	.....	53	128	14	22	8.4	
13.....	19	.....	.....	.....	.....	.....	.....	64	101	14	19	7.6	
14.....	19	.....	.....	.....	.....	.....	.....	64	88	16	15	9.6	
15.....	19	.....	.....	.....	.....	.....	.....	72	98	18	14	12	
16.....	18	.....	.....	.....	.....	.....	.....	72	138	17	13	12	
17.....	18	.....	.....	.....	.....	.....	.....	63	63	242	18	17	11
18.....	17	.....	.....	.....	.....	.....	.....	55	59	134	20	22	9.2
19.....	17	.....	.....	.....	.....	.....	.....	45	65	91	19	21	8.8
20.....	16	.....	.....	.....	.....	.....	.....	35	68	67	22	18	8.4
21.....	16	.....	.....	.....	.....	.....	.....	37	63	63	24	16	7.8
22.....	16	.....	.....	.....	.....	.....	.....	30	60	61	25	16	7.4
23.....	16	.....	.....	.....	.....	.....	.....	34	60	57	21	16	7.8
24.....	17	.....	.....	.....	.....	.....	.....	41	64	60	19	15	10
25.....	16	.....	.....	.....	.....	.....	.....	39	80	75	18	15	12
26.....	16	.....	.....	.....	.....	.....	.....	39	93	68	17	16	12
27.....	17	.....	.....	.....	.....	.....	.....	47	120	50	16	17	11
28.....	18	.....	.....	.....	.....	.....	.....	61	128	41	15	14	10
29.....	16	.....	.....	.....	.....	.....	.....	70	115	35	14	12	10
30.....	19	.....	.....	.....	.....	.....	.....	70	101	31	14	10	10
31.....	16	.....	.....	.....	.....	.....	.....	.....	86	.....	14	9.2	.....
Total	615	.....	.....	.....	.....	.....	.....	666	2102	2627	582	419.4	275.6
Mean...	19.8	.....	.....	.....	.....	.....	.....	47.6	67.8	87.6	18.8	13.5	9.19
Max....	29	.....	.....	.....	.....	.....	.....	70	128	242	28	22	12
Min....	16	.....	.....	.....	.....	.....	.....	30	25	31	14	6.8	7.0
Acre-ft.	1220	.....	.....	.....	.....	.....	.....	1320	4170	5210	1150	832	547

Total run-off for period=14,450 acre-feet.

Discharge of Canadian River at Cowdrey, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	10	.....	.....	.....	.....	.....	.....	49	107	28	21	4.6
2.....	10	.....	.....	.....	.....	.....	.....	60	117	24	19	4.4
3.....	10	.....	.....	.....	.....	.....	.....	64	129	22	19	4.4
4.....	12	.....	.....	.....	.....	.....	.....	64	160	19	20	4.6
5.....	13	.....	.....	.....	.....	.....	.....	98	175	17	20	5.2
6.....	14	.....	.....	.....	.....	.....	.....	97	176	15	18	5.8
7.....	14	.....	.....	.....	.....	.....	.....	86	182	14	16	6.3
8.....	16	.....	.....	.....	.....	.....	.....	96	203	15	15	6.6
9.....	19	.....	.....	.....	.....	.....	.....	105	243	16	14	5.8
10.....	20	.....	.....	.....	.....	.....	.....	92	269	20	13	5.2
11.....	18	.....	.....	.....	.....	.....	.....	83	210	24	12	5.4
12.....	16	.....	.....	.....	.....	.....	.....	71	246	20	12	8.1
13.....	17	.....	.....	.....	.....	.....	.....	61	326	18	12	9.3
14.....	21	.....	.....	.....	.....	.....	.....	54	342	19	12	9.6
15.....	24	.....	.....	.....	.....	.....	.....	45	213	18	12	8.1
16.....	24	.....	.....	.....	.....	.....	.....	45	214	18	12	8.1
17.....	19	.....	.....	.....	.....	.....	.....	45	136	26	10	5.2
18.....	18	.....	.....	.....	.....	.....	.....	45	126	37	9.3	5.2
19.....	17	.....	.....	.....	.....	.....	.....	40	132	66	9.0	6.0
20.....	17	.....	.....	.....	.....	.....	.....	33	137	56	8.7	11
21.....	17	.....	.....	.....	.....	.....	.....	33	130	43	9.0	12
22.....	18	.....	.....	.....	.....	.....	.....	32	117	35	9.0	12
23.....	18	32	30	100	29	7.8	11
24.....	17	52	28	86	30	7.5	10
25.....	18	49	27	74	30	7.2	9.6
26.....	20	49	26	60	26	7.5	8.4
27.....	24	50	33	50	24	8.1	8.7
28.....	24	19	64	42	25	9.9	8.7
29.....	25	46	68	45	26	5.8	8.4
30.....	18	48	77	36	26	5.0	8.4
31.....	18	94	24	4.8
Total	544	343	1844	4532	814	361.6	224.0
Mean...	17.5	49.0	59.5	151	26.3	11.7	7.47
Max....	25	52	105	342	66	21	12
Min....	10	46	26	36	14	4.8	4.4
Acre-ft.	1080	680	3660	8990	1610	717	444

Total run-off for period=17,180 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Laramie River Near Glendevoy, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	50	28	.....	.....	.....	.....	19	48	92	218	76	40
2.....	47	26	.....	.....	.....	.....	19	52	82	222	70	40
3.....	46	24	.....	.....	.....	.....	17	63	77	205	65	36
4.....	41	25	.....	.....	.....	.....	16	68	86	195	62	32
5.....	44	24	.....	.....	.....	.....	18	62	89	190	58	32
6.....	55	24	.....	.....	.....	.....	19	54	88	188	63	31
7.....	47	24	.....	.....	.....	.....	18	47	79	173	65	30
8.....	43	24	.....	.....	.....	.....	20	42	110	173	67	34
9.....	46	25	.....	.....	.....	.....	18	54	95	169	57	36
10.....	54	.....	.....	.....	.....	.....	18	96	102	162	56	34
11.....	46	.....	.....	.....	.....	.....	18	123	113	154	57	33
12.....	41	.....	.....	.....	.....	.....	24	173	113	154	63	29
13.....	38	.....	.....	.....	.....	.....	27	250	107	149	70	26
14.....	36	.....	.....	.....	.....	.....	21	250	86	153	58	40
15.....	34	.....	.....	.....	.....	.....	21	178	85	151	55	43
16.....	32	.....	.....	.....	.....	.....	22	140	99	142	62	35
17.....	31	.....	.....	.....	.....	.....	21	167	102	134	70	32
18.....	31	.....	.....	.....	.....	.....	19	154	176	127	76	31
19.....	29	.....	.....	.....	.....	.....	17	134	148	120	72	31
20.....	27	.....	.....	.....	.....	.....	18	102	452	137	65	29
21.....	30	.....	.....	.....	.....	.....	18	118	433	130	61	27
22.....	32	.....	.....	.....	.....	.....	21	127	419	120	59	27
23.....	31	.....	.....	.....	.....	.....	24	118	412	113	59	31
24.....	31	.....	.....	.....	.....	.....	25	121	402	106	56	33
25.....	30	.....	.....	.....	.....	.....	26	138	516	110	53	32
26.....	29	.....	.....	.....	.....	.....	31	135	402	138	53	34
27.....	30	.....	.....	.....	.....	.....	35	147	349	117	53	30
28.....	30	.....	.....	.....	.....	.....	42	120	325	107	46	29
29.....	29	.....	.....	.....	.....	.....	48	107	278	99	43	28
30.....	32	Nov 1	.....	.....	.....	.....	46	100	242	90	42	31
31.....	32	to 9	.....	.....	.....	.....	.....	92	.....	83	41	.....
Total	1154	224	.....	.....	.....	.....	706	3580	6459	4529	1853	976
Mean	37.2	24.9	.....	.....	.....	.....	23.5	115	215	146	59.8	32.5
Max...	55	28	.....	.....	.....	.....	48	250	516	222	76	43
Min...	27	24	.....	.....	.....	.....	16	42	77	83	41	26
Acre-ft.	2290	444	.....	.....	.....	.....	1400	7100	12810	8980	3680	1940

Total run-off for period 38,640 acre-feet.

Discharge of Laramie River Near Glendevoy, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	35	31	.....	.....	.....	.....	.....	41	270	270	19	14
2.....	35	35	.....	.....	.....	.....	.....	42	280	242	22	17
3.....	38	35	.....	.....	.....	.....	.....	38	292	220	24	17
4.....	45	37	.....	.....	.....	.....	.....	45	310	110	21	17
5.....	39	35	.....	.....	.....	.....	April 7	48	310	54	19	17
6.....	37	37	.....	.....	.....	.....	to 30	47	319	47	18	18
7.....	35	35	.....	.....	.....	.....	23	58	328	42	17	18
8.....	41	33	.....	.....	.....	.....	24	76	340	46	17	17
9.....	47	32	.....	.....	.....	.....	26	90	361	59	17	17
10.....	44	30	.....	.....	.....	.....	29	100	342	41	16	16
11.....	44	31	.....	.....	.....	.....	37	114	561	35	16	18
12.....	45	31	.....	.....	.....	.....	42	117	695	29	16	21
13.....	68	31	.....	.....	.....	.....	47	100	597	28	17	23
14.....	83	30	.....	.....	.....	.....	53	85	194	29	15	21
15.....	56	31	.....	.....	.....	.....	65	80	126	14	15	20
16.....	48	31	.....	.....	.....	.....	56	81	456	34	15	19
17.....	45	31	.....	.....	.....	.....	61	81	494	31	14	18
18.....	40	31	.....	.....	.....	.....	55	72	548	46	14	20
19.....	38	31	.....	.....	.....	.....	31	69	538	32	14	24
20.....	38	.....	.....	.....	.....	.....	35	65	516	28	14	28
21.....	37	.....	.....	.....	.....	.....	53	83	448	29	13	29
22.....	36	.....	.....	.....	.....	.....	65	114	412	27	13	26
23.....	36	.....	.....	.....	.....	.....	82	121	391	25	13	23
24.....	35	.....	.....	.....	.....	.....	53	137	384	28	15	22
25.....	36	.....	.....	.....	.....	.....	41	156	364	26	17	20
26.....	35	.....	.....	.....	.....	.....	44	260	343	23	15	20
27.....	35	.....	.....	.....	.....	.....	41	310	328	25	15	20
28.....	37	.....	.....	.....	.....	.....	41	268	316	26	13	21
29.....	36	.....	.....	.....	.....	.....	46	283	255	28	13	23
30.....	34	Nov 1	.....	.....	.....	.....	48	275	252	22	12	22
31.....	31	to 19	.....	.....	.....	.....	.....	283	.....	20	12	.....
Total	1289	618	.....	.....	.....	.....	1098	3739	11970	1746	491	606
Mean	41.6	32.5	.....	.....	.....	.....	45.8	121	399	56.3	15.8	20.2
Max...	83	37	.....	.....	.....	.....	82	310	695	270	24	24
Min...	31	30	.....	.....	.....	.....	23	38	252	20	12	19
Acre-ft.	2560	1250	.....	.....	.....	.....	2180	7420	23740	3460	974	1200

Total run-off for period 42,760 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Laramie River Near Jelm, Wyoming, for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	78	46	41	35	29	33	55	98	432	360	106	72
2.....	74	45	42	32	28	38	60	104	400	360	100	72
3.....	71	44	42	31	29	35	65	124	385	330	90	69
4.....	66	45	41	32	30	35	62	137	437	305	86	64
5.....	67	40	43	31	30	36	62	121	432	295	83	61
6.....	83	37	41	33	29	36	65	110	385	295	92	63
7.....	79	43	43	33	28	35	58	92	365	272	98	61
8.....	71	45	42	34	28	34	55	88	411	263	96	67
9.....	74	45	43	34	29	37	54	100	400	245	88	78
10.....	96	45	44	34	31	35	56	152	437	231	86	74
11.....	83	39	42	35	32	39	52	310	421	217	88	74
12.....	72	33	40	33	32	36	53	390	340	210	94	66
13.....	66	34	35	33	32	37	64	640	340	206	106	63
14.....	61	37	30	33	31	34	56	797	300	203	88	74
15.....	59	40	28	32	32	32	52	604	300	220	79	90
16.....	56	44	28	32	31	33	55	390	300	206	86	76
17.....	53	45	29	33	29	37	58	489	335	178	104	67
18.....	52	46	31	31	30	42	53	610	395	175	113	64
19.....	50	45	33	31	30	*44	46	548	740	165	104	64
20.....	50	43	35	32	29	40	50	390	780	182	94	63
21.....	50	40	37	32	29	36	48	330	716	178	86	59
22.....	48	40	37	33	28	37	49	452	677	158	86	61
23.....	48	40	36	32	27	46	50	416	647	148	84	66
24.....	48	41	36	31	*28	50	56	484	632	139	81	69
25.....	48	38	36	32	28	44	56	560	805	158	74	72
26.....	48	35	35	32	26	42	64	548	662	175	76	74
27.....	48	35	35	33	28	42	74	684	543	160	83	74
28.....	48	36	36	*33	31	50	86	560	505	141	69	69
29.....	48	35	37	32	....	52	98	494	437	130	72	71
30.....	49	38	36	31	....	54	98	468	395	121	76	71
31.....	49	....	37	29	....	50	....	452	....	110	76	....
Total	1893	1219	1154	1004	824	1231	1810	11742	14354	6536	2744	2068
Mean.	61.1	40.6	37.2	32.4	29.4	39.7	60.3	379	478	211	88.5	68.9
Max.	96	46	44	35	32	54	98	797	805	360	113	90
Min.	48	33	28	29	26	32	46	88	300	110	69	59
Acre-ft.	3750	2420	2290	1990	1630	2440	3590	23290	28470	12960	5440	4100

Total run-off for water year=92,370 acre-feet.

Discharge of Laramie River Near Jelm, Wyoming, for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	74	66	45	20	21	22	42	140	1090	380	55	26
2.....	69	66	45	18	22	23	54	165	1130	365	58	29
3.....	72	63	44	16	22	23	68	180	1140	335	67	30
4.....	84	66	44	16	23	23	82	195	1100	250	66	32
5.....	81	66	43	17	23	24	84	200	1090	170	59	30
6.....	78	71	43	18	24	24	90	205	1090	141	56	31
7.....	76	69	43	19	23	25	92	210	1060	126	53	31
8.....	79	67	40	20	23	26	90	214	1130	117	50	30
9.....	88	66	40	20	22	27	92	235	1120	137	55	28
10.....	83	64	40	21	21	28	96	255	1060	126	53	26
11.....	83	64	41	21	22	28	100	280	1220	106	52	24
12.....	88	65	42	22	22	27	106	310	1540	86	52	38
13.....	119	66	42	22	23	26	94	290	1520	74	52	37
14.....	155	66	42	22	22	25	92	258	1200	67	50	33
15.....	108	66	42	20	22	25	110	245	975	94	48	29
16.....	92	65	42	20	22	25	96	230	948	96	45	26
17.....	83	65	41	21	22	25	108	220	993	98	44	25
18.....	79	65	41	21	21	26	113	210	1010	155	43	28
19.....	74	60	40	20	21	26	86	200	1010	126	41	38
20.....	72	45	42	*21	22	26	94	206	939	92	41	43
21.....	74	36	40	22	23	26	110	242	813	96	41	43
22.....	72	34	37	23	23	27	141	365	724	81	40	43
23.....	72	36	35	23	22	28	150	526	669	79	39	36
24.....	72	39	31	23	21	29	145	708	610	79	43	32
25.....	72	41	26	23	20	30	140	797	573	76	43	33
26.....	74	44	21	23	21	29	130	1150	526	69	39	33
27.....	72	46	19	23	21	28	110	1410	494	69	36	34
28.....	72	46	19	23	*22	28	102	1140	494	67	31	33
29.....	74	45	20	23	....	27	102	1200	411	71	29	33
30.....	71	45	22	22	....	*27	110	1150	350	69	28	32
31.....	66	....	21	22	....	30	....	1150	....	59	26	....
Total	2528	1703	1133	645	616	813	3029	14286	28029	3956	1435	906
Mean.	81.5	56.8	36.5	20.8	22.0	26.2	101	461	934	128	46.3	32.2
Max.	155	71	45	23	27	30	150	1410	1540	380	67	43
Min.	69	34	19	16	20	22	42	140	350	59	26	24
Acre-ft.	5010	3380	2250	1280	1220	1610	6010	28340	55590	7850	2850	1920

Total run-off for water year=117,300 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

ARKANSAS RIVER BASIN

ARKANSAS RIVER AT GRANITE, COLORADO

Location—Water stage recorder in Sec. 31, T. 11 S., R. 79 W., at Granite, just upstream from Cache Creek.

Drainage Area—431 square miles. Zero of gage is 8,914.86 feet above mean sea level, 1929 adjustment.

Records Available—April to October, 1895; May 1, 1897 to September 10, 1899; April 6, 1910 to September 30, 1942.

Maximum discharge during period 1895, 1897-1899, 1910-1942; 2,900 second feet, June 16, 1924. Gage height 4.57 feet.

Maximum Discharge—Year 1941; 2,060 second feet, June 21. Gage height 4.63 feet.

Maximum Discharge—Year 1942; 2,050 second feet, June 7. Gage height 5.94 feet.

Accuracy—Records considered good except those for period of ice effect Nov. 12-17, 1940, Dec. 13, 1940 to March 3, 1941, and Dec. 6, 1941 to April 14, 1942, which were computed on basis of four discharge measurements and comparison with records at Salida, and are fair.

Diversions for storage and irrigation above station. Sugar Loaf and Twin Lakes Reservoirs on tributaries above station, total capacities 72,120 acre-feet. The Wurtz Ditch, Ewing Ditch, Buske-Ivanhoe Tunnel, Twin Lakes Tunnel, and Fremont Pass Ditch divert water from Colorado River basin into the Arkansas River basin above the station. The following records show diversions above station into the Arkansas River basin.

Ditch or Tunnel	Stream	Diversions in Acre-feet	
		1941	1942
Buske-Ivanhoe Tunnel.....	Frying Pan River.....	3,470	566
Columbine Ditch.....	Eagle River.....	1,320	0
Ewing Ditch.....	Eagle River.....	379	0
Wurtz Ditch.....	Eagle River.....	2,110	2,080
Fremont Pass Ditch.....	Ten Mile River.....	591	0
Twin Lakes Tunnel.....	Roaring Fork.....	36,090	13,400
	Total	43,960	16,046

ARKANSAS RIVER AT SALIDA, COLORADO

Location—Water stage recorder in Sec. 31, T. 50 N., R. 9 E., at Salida, 3 miles upstream from South Arkansas River. Prior to December 3, 1936, station located at site 1½ miles downstream. Records are comparable.

Drainage Area—1,210 square miles. Zero of gage is 7,051.45 feet above mean sea level, datum of 1929.

Records Available—April 11, 1895 to October 31, 1903; November 3, 1909 to September 30, 1942.

Maximum discharge during period 1895-1903, 1909-1942; 5,100 second feet June 16, 1924. Gage height 7.2 feet, former site and datum.

Maximum Discharge—Year 1941; 3,530 second feet June 21. Gage height 4.33 feet.

Maximum Discharge—Year 1942; 3,600 second feet June 19. Gage height 4.60 feet.

Accuracy—Records considered excellent except during period of ice effect Jan. 1-6, 1942, and during period of missing gage heights Jan. 16, 18, 20, 22, 23, 25, 27, 29, 30, Feb. 1, 3-4, 16-18, 20, 22, 24, which were estimated, and are fair.

Diversions for storage and irrigation above station. Flow regulated by Clear Creek Reservoir, capacity 11,444 acre-feet, and as described, for Arkansas River station at Granite.

ARKANSAS RIVER AT CANON CITY, COLORADO

Location—Water stage recorder in Sec. 32, T. 18 S., R. 70 W., in Canon City just upstream from Sand Creek and $\frac{1}{4}$ mile above Southern Colorado power plant.

Drainage Area—3,090 square miles. Zero of gage is 5,343.87 feet above mean sea level, datum of 1929.

Records Available—May 1, 1888 to September 30, 1942.

Maximum discharge during period 1888-1942; 19,000 second feet August 2, 1921, from rating curve extended above 4,000 second feet. Gage height 10.7 feet.

Maximum Discharge—Year 1941; 11,800 second feet July 13, from rating curve extended above 5,000 second feet. Gage height 8.66 feet.

Maximum Discharge—Year 1942; 8,720 second feet August 13. Gage height 7.80 feet.

Accuracy—Records considered good except those for period of ice effect Nov. 11-16, 1940, Dec. 11-14, 1940, and those estimated April 29, 30, 1942, which are fair.

Diversions for irrigation above station. Grape Creek enters from south one mile upstream.

ARKANSAS RIVER AT PORTLAND, COLORADO

Location—Water stage recorder in Sec. 21, T. 19 S., R. 68 W., at lower edge of Portland, a short distance upstream from Hard-scrabble Creek.

Drainage Area—3,790 square miles. Zero of gage is 5,921.56 feet above mean sea level, datum of 1929.

Records Available—June 1, 1939 to September 30, 1942.

Maximum discharge during period 1939-1942; 15,980 second feet August 13, 1942. Gage height 10.40 feet.

Maximum Discharge—Year 1941; 7,580 second feet July 1, from rating curve extended above 5,000 second feet. Gage height 7.25 feet.

Maximum Discharge—Year 1942; 15,980 second feet August 13, from rating curve extended above 5,000 second feet. Gage height 10.40 feet.

Accuracy—Records considered fair.

Diversions above station for irrigation and regulation same as for stations at Salida and Granite.

ARKANSAS RIVER NEAR PUEBLO, COLORADO

Location—Water stage recorder in Sec. 34, T. 20 S., R. 65 W., at intake of South Side water works 4 miles west of center of Pueblo. Both South Side and North Side water works divert above station. Dry Creek enters a short distance downstream.

Drainage Area—4,730 square miles. Zero of gage is 4,689.82 feet above mean sea level, datum of 1929.

Records Available—May 1, 1885 to September 30, 1887; September 19, 1894 to September 30, 1942. Station was maintained at site nine miles upstream from Pueblo in 1887 and 1889.

Maximum discharge during period 1885-1887, 1894-1942; 103,000 second feet, slope area measurement, including estimated discharge of Dry Creek 19,500 second feet, June 3, 1921. Gage height 24.66 feet from gage at Pueblo.

Maximum Discharge—Year 1941; 7,560 second feet, from rating curve extended above 5,000 second feet, July 19.

Maximum Discharge—Year 1942; 10,290 second feet, June 8.

Accuracy—Records considered good except those during period of ice effect Nov. 13, 14, 1940; Dec. 14, 15, 1940; Jan. 6, 1941, and Dec. 30, 1941 to Jan. 24, 1942, and Feb. 20, 21, 1942, which are fair.

Diversions for irrigation above station. The North Side water works diverts considerable water around station, wasting the major portion back to river. Records include diversions above station by North Side water works intake since October 1, 1934, but do not include this diversion from May, 1925, to September, 1934. Regulation of flow similar to statement for stations at Salida and Granite.

ARKANSAS RIVER NEAR AVONDALE, COLORADO

Location—Water stage recorder in Sec. 1, T. 21 S., R. 63 W., 800 feet downstream from Nyberg Bridge, ½ mile upstream from Sixmile Creek, and 2½ miles west of Avondale.

Drainage Area—6,350 square miles.

Records Available—May 1, 1939 to September 30, 1942.

Maximum discharge during period 1939-1942; 18,980 second feet April 24, 1942, from rating curve extended above 7,000 second feet. Gage height 7.79 feet.

Maximum Discharge—Year 1941; 6,850 second feet July 19, from rating curve extended above 4,200 second feet. Gage height 4.35 feet.

Maximum Discharge—Year 1942; 18,980 second feet April 24. Gage height 7.79 feet.

Accuracy—Records considered good except those for period of no gage heights, Dec. 16, 17, 1940, Aug. 8, 9, 1941, Oct. 10-19, 22-31, 1941, which were estimated, and are fair.

Diversions for irrigation and storage above station.

ARKANSAS RIVER NEAR NEPESTA, COLORADO

Location—Water stage recorder in Sec. 31, T. 21 S., R. 60 W., above diversion dam of Oxford Farmers Company canal, 1¼ miles west of Nepesta. Records corrected for Oxford Farmers canal waste 1918 to 1926, not corrected from 1927 to June, 1936. Since June, 1936, records include all river flow above Oxford Farmers canal dam.

Drainage Area—9,130 square miles.

Records Available—September 8, 1897 to October 31, 1903; July 14, 1909 to November 12, 1912; January 1, 1914 to September 30, 1942. During period 1918 to June 4, 1921, station maintained at Nepesta.

Maximum discharge during period 1897-1903, 1909-1912, 1914-1942; 180,000 second feet, by slope area measurement at point nine miles upstream, June 4, 1921.

Maximum Discharge—Year 1941; 9,470 second feet August 27, from rating curve extended above 6,300 second feet. Gage height 5.85 feet.

Maximum Discharge—Year 1942; 12,000 second feet April 24. Gage height 6.29 feet.

Accuracy—Records considered good except those for period of ice effect November 12-16, 1940, Dec. 13-24, 1940, Dec. 26, 1941 to Jan. 25, 1942, which were computed from weather records, ditch diversions, and comparison with the Arkansas River station at Avondale, and are fair.

Diversions for irrigation and storage above station.

ARKANSAS RIVER AT LA JUNTA, COLORADO

Location—Water stage recorder in Sec. 2, T. 24 S., R. 55 W., at East Bridge in La Junta just upstream from King Arroya. This station has been maintained at several different sites in La Junta during period of record, but all records are equivalent.

Drainage Area—12,200 square miles. Zero of gage is 4,039.60 feet above mean sea level, datum of 1929.

Records Available—May to August, 1889; December, 1893 to December, 1895; January to December, 1901; April to October, 1903; August to November, 1908; April, 1912 to September 30, 1942.

Maximum discharge during period 1889, 1893-1895, 1901, 1903, 1908, 1912-1942; 200,000 second feet, slope area measurement June 4, 1921. Gage height 18.4 feet.

Maximum Discharge—Year 1941; 4,080 second feet July 19. Gage height 6.35 feet.

Maximum Discharge—Year 1942; 34,800 second feet April 25, from rating curve extended above 13,000 second feet. Gage height 9.96 feet.

Accuracy—Records considered good. Discharge computed during period of missing gage heights Jan. 11, 12, 1942, and are fair.

Diversions for storage and irrigation above station.

ARKANSAS RIVER AT LAS ANIMAS, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 2, T. 23 S., R. 52 W., $\frac{1}{3}$ mile downstream from highway bridge, and one mile north of Las Animas.

Drainage Area—14,500 square miles. Zero of gage is 3,874.97 feet above mean sea level, adjustment of 1929.

Records Available—May 23, 1939 to September 30, 1942.

Maximum discharge during period 1939-1942; 23,600 second feet April 25, 1942. Gage height 12.58 feet.

Maximum Discharge—Year 1941; 4,010 second feet August 27. Gage height 7.00 feet.

Maximum Discharge—Year 1942; 23,600 second feet April 25. Gage height 12.58 feet.

Accuracy—Records considered good except during period of ice effect Jan. 4-29, 1942, which are fair.

Diversions for storage and irrigation above station.

ARKANSAS RIVER AT CADDOA, COLORADO

Location—Water stage recorder in northwest corner of Sec. 4, T. 23 S., R. 49 W., just upstream from Caddoa Creek and 2 miles east of Caddoa.

Drainage Area—19,000 square miles. Zero of gage is 3,741.04 feet above mean sea level, datum of 1929.

Records Available—February 7, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; 50,000 second feet April 24, 1942, by slope area method. Gage height 10.46 feet.

Maximum Discharge—Year 1941; 12,800 second feet May 3. Gage height 6.40 feet.

Maximum Discharge—Year 1942; 50,000 second feet April 24, by slope area method. Gage height 10.46 feet.

Accuracy—Records considered good except those for period Dec. 10, 1940 to Jan. 5, 1941, which are fair.

Diversions for irrigation and storage above station. Flow controlled by Caddoa Reservoir, capacity 296,500 acre-feet, up to lip of overflow section.

ARKANSAS RIVER AT LAMAR, COLORADO

Location—Water stage recorder in Sec. 30, T. 22 S., R. 46 W., 800 feet downstream from highway bridge, 1 mile north of Lamar. Prior to June 4, 1941, at site 800 feet upstream, and at datum one foot higher. Lamar Canal diverts 1 mile upstream and at times wastes water to the river $\frac{1}{4}$ mile downstream from station.

Drainage Area—19,800 square miles. Zero of gage is 3,605.02 feet above mean sea level, datum of 1929.

Records Available—May 11, 1913 to September 30, 1942.

Maximum discharge during period 1913-1942; 165,000 second feet (slope area measurement) June 5, 1921.

Maximum Discharge—Year 1941; 12,200 second feet May 3. Gage height 5.90 feet.

Maximum Discharge—Year 1942; 40,000 second feet April 24, from rating curve extended above 15,000 second feet. Gage height 8.77 feet.

Accuracy—Records considered good except for period of no gage height January 2-20, 1942, which were estimated, and are fair.

Diversions for irrigation and storage above station.

ARKANSAS RIVER AT HOLLY, COLORADO

Location—Water stage recorder in Sec. 23, T. 23 S., R. 42 W., at highway bridge $\frac{1}{2}$ mile south of Holly. Wild Horse Creek enters river just downstream from gage.

Drainage Area—25,000 square miles. Zero of gage is 3,377.95 feet above mean sea level.

Records Available—October 15, 1907 to September 30, 1942.

Maximum discharge during period 1907-1942; 136,000 second feet (slope area measurement) October 20, 1908. Gage height 11.0 feet, former datum.

Maximum Discharge—Year 1941; 5,540 second feet, from rating curve extended above 4,000 second feet, May 4. Gage height 6.58 feet.

Maximum Discharge—Year 1942; 35,800 second feet April 25, from rating curve extended above 17,000 second feet. Gage height 11.05 feet.

Accuracy—Records considered good except those below 100 second feet, which are fair.

Diversions for irrigation and storage above station.

GRAPE CREEK NEAR WESTCLIFFE, COLORADO

Location—Water stage recorder in Sec. 36, T. 21 S., R. 73 W., at concrete control 1 mile above DeWeese-Dye Reservoir, and 3 miles northwest of Westcliffe.

Drainage Area—346 square miles. Altitude 7,800 feet above mean sea level.

Records Available—December 1, 1924 to January 30, 1928; March 25, 1930 to September 30, 1942.

Maximum discharge during period 1924-1928, 1930-1942; 1,960 second feet April 23, 1942, computed by weir formula with overflow estimated. Gage height 5.26 feet.

Maximum Discharge—Year 1941; 658 second feet June 25. Gage height 3.57 feet.

Maximum Discharge—Year 1942; 1,960 second feet April 23, computed by weir formula with overflow estimated. Gage height 5.26 feet.

Accuracy—Records considered excellent except those for period of ice effect November 11-16, 1940, November 23-28, December 2 to February 27, 1941, March 16-19, 25-27, 1941, November 21-25, 1941, December 6, 1941 to March 18, 1942; computed on basis of discharge measurements and weather reports, and are fair.

Diversions for irrigation above station.

FOUNTAIN CREEK NEAR FOUNTAIN, COLORADO

Location—Water stage recorder in Sec. 4, T. 17 S., R. 65 W., 1 mile downstream from Little Fountain Creek, and 6 miles south of Fountain, just upstream from railroad bridge.

Drainage Area—676 square miles. Zero of gage is 5,341.74 feet above mean sea level, adjustment of 1929.

Records Available—October 1, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; 22,100 second feet, by slope area method, May 28, 1940. Gage height 9.19 feet.

Maximum Discharge—Year 1941; 9,940 second feet May 22, from rating curve extended above 3,000 second feet. Gage height 6.62 feet.

Maximum Discharge—Year 1942; 4,430 second feet July 19. Gage height 5.44 feet.

Accuracy—Records considered poor.

Diversions for irrigation above station.

FOUNTAIN CREEK AT PUEBLO, COLORADO

Location—Water stage recorder in Sec. 30, T. 20 S., R. 64 W., at 8th Street bridge in Pueblo, 2 miles upstream from mouth.

Drainage Area—932 square miles. Zero of gage is 4,663.45 feet above mean sea level, adjustment of 1929.

Records Available—1922-1925; October 1, 1941 to September 30, 1942.

Maximum discharge recorded, 35,000 second feet May 30, 1935.

Maximum Discharge—Year 1942; 11,000 second feet August 14, by slope area method. Gage height 8.05 feet.

Accuracy—Records considered fair. During periods of ice effect December 25, 1941 to January 24, February 17-20, 1942, discharges were estimated.

Diversions for irrigation above station.

MONUMENT CREEK AT PIKEVIEW, COLORADO

Location—Wire weight gage in Sec. 18, T. 13 S., R. 66 W., at Pikeview, 1 mile downstream from Cottonwood Creek.

Drainage Area—204 square miles. Zero of gage is 6,203.31 feet above mean sea level, adjustment of 1912.

Records Available—October 1, 1938 to September 30, 1942.

Maximum discharge observed during period 1938-1942; 734 second feet April 23, 1942. Gage height 3.86 feet.

Maximum Discharge Observed—Year 1941; 190 second feet May 2. Gage height 2.09 feet.

Maximum Discharge Observed—Year 1942; 734 second feet April 23. Gage height 3.86 feet.

Accuracy—Records considered poor. Gage read twice daily.

Diversions above station for irrigation and storage.

ST. CHARLES RIVER NEAR PUEBLO, COLORADO

Location—Water stage recorder in Sec. 23, T. 21 S., R. 64 W., at County bridge 500 feet downstream from Bessemer Ditch syphon, 7 miles east of Pueblo, and 8 miles upstream from mouth.

Records Available—April 1 to September 30, 1942.

Maximum discharge known; 56,000 second feet June 3, 1921.

Maximum Discharge—Year 1942; 6,670 second feet April 19. Gage height 6.46 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

CHICO CREEK NEAR NORTH AVONDALE, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 31, T. 20 S., R. 62 W., on state highway No. 96, one mile upstream from mouth and one and one-half miles west of North Avondale.

Drainage Area—815 square miles.

Records Available—April 14 to September 30, 1942.

Maximum discharge recorded; 28,600 second feet June 3, 1921.

Maximum Discharge—Year 1942; 3,320 second feet September 1. Gage height 4.11 feet.

Accuracy—Records considered fair.

No diversions above station.

HUERFANO RIVER AT MANZANARES CROSSING NEAR REDWING, COLORADO

Location—Water stage recorder in Sec. 5, T. 27 N., R. 71 W., at Manzanares Crossing $3\frac{1}{2}$ miles southwest of Redwing.

Drainage Area—76 square miles.

Records Available—July 14, 1923 to September 30, 1942. No winter records prior to 1936.

Maximum discharge during period; 1923-1942; maximum gage height 4.80 feet, July 27, 1934, discharge not determined.

Maximum Discharge—Year 1941; 792 second feet July 30. Gage height 2.42 feet.

Maximum Discharge—Year 1942; 495 second feet May 9 and 11. Gage height 1.66 feet.

Accuracy—Records considered good except those during ice effect periods November 11, 1940 to December 2, December 11, 1940 to February 26, 1941, March 9-11, 1941, October 27 to November 3, November 20, 1941 to April 23, 1942. Discharges computed on basis of six discharge measurements, weather records and comparison with station at Badito, and are fair.

Diversions for irrigation above station.

HUERFANO RIVER AT BADITO, COLORADO

Location—Water stage recorder in Sec. 5, T. 27 S., R. 68 W., 0.4 of a mile above Badito and highway bridge on State Highway No. 69, 250 feet upstream from South Oak Creek.

Drainage Area—510 square miles.

Records Available—August 28 to November 30, 1912; April 1, 1923, to September 30, 1925; March 6, 1938 to September 30, 1942.

Maximum discharge during period 1912, 1923-1925, 1938-1942; 3,150 second feet August 2, 1939, from rating curve extended above 1,300 second feet. Gage height 9.01 feet. Maximum stage known, 12.8 feet, gage height from flood marks July 27 or 28, 1936, discharge 5,000 second feet, from rating curve extended above 650 second feet.

Maximum Discharge—Year 1941; 745 second feet May 14. Gage height 4.70 feet, from rating curve extended above 260 second feet.

Maximum Discharge—Year 1942; 1,440 second feet May 11, 12. Gage height 6.60 feet, from rating curve extended above 900 second feet.

Accuracy—Records considered poor.

Diversions for irrigation above station.

HUERFANO RIVER NEAR MUSTANG, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 20, T. 25 S., R. 65 W., $2\frac{1}{4}$ miles downstream from Apache Creek, and $2\frac{1}{2}$ miles southwest of Mustang.

Drainage Area—804 square miles.

Records Available—February 4, 1942 to September 30, 1942. This station is 5 miles downstream from station maintained 1924-1928. Records not equivalent as Apache Creek enters between sites.

Maximum Discharge—Year 1942; 26,000 second feet, August 14, slope area measurement. Gage height 9.60 feet.

Accuracy—Records considered fair.

Diversions for irrigation and storage above station.

HUERFANO RIVER BELOW HUERFANO VALLEY DAM
NEAR UNDERCLIFFE, COLORADO

Location—Water stage recorder in Sec. 15, T. 23 S., R. 63 W., at mouth of Canyon, $\frac{1}{2}$ mile below diversion dam for Huerfano Valley Ditch, 5 miles southwest of Undercliffe.

Drainage Area—1,710 square miles. Zero of gage is 4,872.02 feet above mean sea level.

Records Available—May 16, 1938 to September 30, 1939, at site 600 feet above diversion dam one-half mile upstream; August to December, 1908, at site one and one-half miles downstream; October, 1939 to September 30, 1942, at present site. Records equivalent for high flows only.

Maximum discharge during period 1938-1942; 15,000 second feet August 14, 1942. Gage height 7.00 feet.

Maximum Discharge—Year 1941; 3,080 second feet June 1. Gage height 4.70 feet.

Maximum Discharge—Year 1942; 15,000 second feet August 14, by slope area and weir methods. Gage height 7.0 feet. Flood of July 27-28, 1936, reached stage of 11.4 feet, gage datum of 1938. Discharge 26,600 second feet.

Accuracy—Records considered poor.

Diversions for irrigation above station.

CUCHARAS RIVER AT BOYD RANCH NEAR LA VETA,
COLORADO

Location—Water stage recorder in Sec. 24, T. 30 S., R. 69 W., at Boyd Ranch 6 miles south of La Veta.

Drainage Area—75 square miles.

Records Available—January 1, 1923 to September 30, 1942. Prior to October, 1934, station located two miles downstream. Records not comparable.

Maximum discharge during period 1934-1942; 394 second feet May 10, 1942. Gage height 3.47 feet.

Maximum Discharge—Year 1941; 315 second feet May 13. Gage height 3.04 feet.

Maximum Discharge—Year 1942; 394 second feet May 10. Gage height 3.47 feet.

Accuracy—Records considered good except those for periods of ice effect November 12, 15, December 13-24, 1940, March 12-14, 1941, November 22-25, December 6, 10, 11 and December 22, 1941 to April 1, 1942, computed on basis of discharge measurements and weather records, and which are fair.

Diversions for irrigation above station.

APISHAPA RIVER NEAR AGUILAR, COLORADO

Location—Water stage recorder in Sec. 4, T. 31 S., R. 65 W., 1½ miles southwest of Aguilar, and 2 miles downstream from Mauricio Canyon Creek.

Drainage Area—130 square miles. Zero of gage is 6,450.17 feet above mean sea level, adjustment of 1929.

Records Available—April 1, 1938 to September 30, 1939, at former site two miles downstream; October 1, 1939 to September 30, 1942.

Maximum discharge during period 1939-1942; 3,870 second feet June 17, 1941, by slope area method. Gage height 7.50 feet.

Maximum Discharge—Year 1941; 3,870 second feet June 17. Gage height 7.50 feet.

Maximum Discharge—Year 1942; 2,300 second feet April 23. Gage height 7.05 feet.

Accuracy—Records considered poor.

Diversions for irrigation above station.

APISHAPA RIVER NEAR WHITE ROCK, COLORADO

Location—Water stage recorder in SE¼ Sec. 20, T. 26 S., R. 60 W., about 3 miles upstream from Buffalo Arroya, and 6 miles south of White Rock.

Drainage Area—792 square miles.

Records Available—May 6 to September 30, 1942.

Maximum Discharge—Year 1942; 6,500 second feet August 14, by weir formula. Gage height 4.25 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

APISHAPA RIVER NEAR FOWLER, COLORADO

Location—Water stage recorder in Sec. 35, T. 22 S., R. 59 W., at concrete highway bridge 4 miles upstream from mouth and 4 miles southeast of Fowler. Oxford Farmers Canal wastes water into stream above gage.

Drainage Area—1,130 square miles.

Records Available—April 1, 1922 to September 30, 1925; May, 1939 to September 30, 1942.

Maximum discharge during period 1922-1925, 1939-1942; 50,000 second feet August 22, 1923, based on slope area measurement. Gage height 24.70 feet.

Maximum Discharge—Year 1941; discharge not determined, August 27. Gage height 7.85 feet.

Maximum Discharge—Year 1942; 14,700 second feet August 15. Gage height 16.23 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

TIMPAS CREEK NEAR ROCKY FORD, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 19, T. 24 S., R. 56 W., at Catlin ditch syphon 8 miles south of Rocky Ford.

Drainage Area—465 square miles.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 4,300 second feet August 14. Gage height 8.42 feet (slope area measurement).

Accuracy—Records considered fair. During period of ice effect December 26, 1941 to January 25, 1942, January 30-31, February 1, 8, to March 2, records computed on basis of discharge measurements and weather records.

Diversions for irrigation above station.

HORSE CREEK NEAR SUGAR CITY, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 12, T. 21 S., R. 56 W., at highway bridge 1 mile east of Sugar City.

Drainage Area—About 1,000 square miles.

Records Available—April 13, 1940 to September 30, 1942.

Maximum discharge during period 1940-1942; 5,400 second feet October 23, 1942. Gage height 6.20 feet.

Maximum Discharge—Year 1941; 1,950 second feet July 26. Gage height 4.73 feet.

Maximum Discharge—Year 1942; 5,400 second feet October 23. Gage height 6.20 feet.

Accuracy—Records considered good, except those during period ice effect January 4 to 14, 1942, which were estimated and are fair.

Diversions for irrigation above station.

PURGATOIRE RIVER AT TRINIDAD, COLORADO

Location—Water stage recorder in Sec. 13, T. 33 S., R. 64 W., at foot of State Street in Trinidad. Station maintained at various sites but records are comparable.

Drainage Area—742 square miles. Zero of gage is 5,987.17 feet above mean sea level.

Records Available—May, 1896 to July, 1899; August to December, 1905; November, 1906 to March, 1907; October, 1907 to November, 1912; April, 1916 to September 30, 1942.

Maximum discharge during period 1896-1899, 1905, 1906-1912, 1916-1942; 45,400 second feet September 30, 1904, by slope area method. Gage height 16.6 feet, from gage at Commercial Street.

Maximum Discharge—Year 1941; 9,320 second feet May 2. Gage height 7.43 feet.

Maximum Discharge—Year 1942; 36,000 second feet April 23, from slope area measurement. Gage height 14.03 feet.

Accuracy—Records considered good above 200 second feet and fair below. Gage height affected by ice during period December 25, 1941 to January 11, 1942, January 15, 16, 18-21.

Diversions for irrigation above station.

PURGATOIRE RIVER AT NINE MILE DAM NEAR HIGBEE, COLORADO

Location—Water stage recorder in Sec. 32, T. 26 S., R. 54 W., 700 feet upstream from Nine Mile diversion dam, 4 miles southwest of Higbee, 4 miles upstream from Smith Canyon and 15 miles south of La Junta.

Drainage Area—2,900 square miles. Zero of gage is 4,240.59 feet above mean sea level, datum of 1929.

Records Available—October, 1924 to September 30, 1942.

Maximum discharge during period 1924-1942; 64,500 second feet September 15, 1934, by slope area method. Gage height 12.60 feet.

Maximum Discharge—Year 1941; 19,300 second feet May 2. Gage height 7.10 feet.

Maximum Discharge—Year 1942; 50,200 second feet April 23, by slope area method. Gage height 14.03 feet.

Accuracy—Records considered fair. Discharges during periods November 2 to 17, 1940, December 12 to 22, 1940, January 3-18, 1941, February 14, March 23, June 3-15, 1941, measured through a Parshall flume. During period of ice effect December 11, 1941, January 1-17, 1942, February 17, 18, discharges computed on basis of weather records and comparison with Purgatoire River at Highland Dam.

Diversions for irrigation above station.

PURGATOIRE RIVER AT HIGHLAND (CARMEN) DAM, NEAR LAS ANIMAS, COLORADO

Location—Water stage recorder above diversion dam of Highland Ditch in Sec. 1, T. 25 S., R. 53 W., 11 miles southwest of Las Animas. Tarbox Arroya enters $\frac{1}{4}$ mile downstream.

Drainage Area—3,320 square miles.

Records Available—October 1, 1931 to September 30, 1942.

Maximum discharge during period 1931-1942; 60,500 second feet April 24, 1942, by slope area method. Gage height 13.29 feet.

Maximum Discharge—Year 1941; 17,000 second feet May 3. Gage height 9.54 feet.

Maximum Discharge—Year 1942; 60,500 second feet April 24. Gage height 13.29 feet.

Accuracy—Records considered good except those below 100 second feet, which are fair. During the period of ice effect December 13-19, 1940, January 5-7, 1941, December 24, 1941 to January 12, 1942, discharges computed on basis of weather records and related stations.

Diversions for irrigation above station.

CADDOA CREEK NEAR CADDOA, COLORADO

Location—Water stage recorder in Sec. 9, T. 23 S., R. 49 W., at county highway bridge $\frac{1}{3}$ mile east of new location of Caddoa, and 2 miles upstream from mouth.

Drainage Area—129 square miles.

Records Available—April 14, 1942 to September 30, 1942.

Maximum discharge during period 1942; 751 second feet August 14. Gage height 4.45 feet (curve extended above 270 second feet).

Accuracy—Records considered fair.

RULE CREEK NEAR CADDOA, COLORADO

Location—Water stage recorder on south line of Sec. 36, T. 23 S., R. 51 W., at county bridge 9 miles southwest of (New) Caddoa.

Drainage Area—542 square miles.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 738 second feet June 22, from rating curve extended above 252 second feet. Gage height 7.19 feet.

Accuracy—Records considered fair. Records for period of ice effect December 20, 1941 to January 18, 1942. February 17-21, computed on basis of discharge measurement and weather records.

Diversions—One small diversion above station.

MUD CREEK NEAR CADDOA, COLORADO

Location—Staff gage located in Sec. 34, T. 23 S., R. 49 W., at county bridge 4 miles southeast of (New) Caddoa, and 6 miles upstream from mouth.

Drainage Area—180 square miles.

Records Available—April 1 to September 30, 1942.

Maximum Discharge—Year 1942; 718 second feet April 19.
Gage height 5.30 feet.

Accuracy—Records considered fair. Staff gage read once a day.

Diversions above station for irrigation.

BIG SANDY CREEK ABOVE AMITY CANAL DIVERSION NEAR KORMAN, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 21, T. 21 S., R. 45 W., just above Amity Canal Diversion from Big Sandy Creek, and 9 miles northeast of Korman.

Drainage Area—3,410 square miles.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 2900 second feet September 3.
Gage height 5.63 feet.

Accuracy—Records considered poor.

WILD HORSE CREEK AT HOLLY, COLORADO

Location—Water stage recorder in Sec. 15, T. 23 S., R. 42 W., just upstream from mouth $\frac{1}{4}$ mile southeast of Holly.

Zero of gage is 3,380.36 feet above mean sea level.

Records Available—October 1, 1922 to August 28, 1935; November 17, 1938 to September 30, 1942.

Maximum discharge during period 1922-1935, 1938-1942; 22,000 second feet, by slope area measurement, August 28, 1935, at point 11 miles above station.

Maximum Discharge—Year 1941; 1,410 second feet June 25, from rating curve extended above 220 second feet. Gage height 6.30 feet.

Maximum Discharge—Year 1942; 720 second feet October 23.
Gage height 5.31 feet.

Accuracy—Records considered fair. Discharge for August 28, 1935, included in records for Arkansas River at Holly, and during period August 29, 1935, to November 10, 1938, discharge included in record for Holly Drain near Holly. Flow is mostly waste water from Amity Canal.

Diversions for irrigation above station.

HOLLY DRAIN NEAR HOLLY, COLORADO

Location—Water stage recorder in Sec. 16, T. 23 S., R. 41 W., just downstream from Cheyenne Creek, 100 yards west of Colorado-Kansas State line at Santa Fe railroad bridge $3\frac{1}{2}$ miles east of Holly.

Zero of gage is 3,351.97 feet above mean sea level.

Records Available—January 1, 1924 to September 30, 1942. Records from August 28, 1935 to November 10, 1938, include the

flow of Wild Horse Creek. During same period flow of Holly Drain above crossing of Wild Horse Creek enters Arkansas River above station at Holly.

Maximum discharge during period 1924-1942; 1,470 second feet September 3, 1938, from rating curve extended above 500 second feet on basis of slope area determination. Gage height 10.29 feet.

Maximum Discharge—Year 1941; 660 second feet June 1. Gage height 9.08 feet.

Maximum Discharge—Year 1942; 267 second feet June 29. Gage height 8.70 feet.

Accuracy—Records considered fair. During period of ice effect January 6-10, 1942, and period of missing gage heights April 7, May 26, 28, 29, August 3-7, 15-16, 24-26, September 2-5, 7-11, 16-19, 21-24, 26, 28-30, discharges were estimated.

Discharge of Arkansas River at Granite, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	232	109	109	74	64	75	85	225	658	969	352	181
2.....	232	109	111	72	61	74	75	225	622	966	393	172
3.....	216	100	103	79	67	72	70	233	647	893	487	138
4.....	197	105	105	68	72	53	77	263	730	927	602	127
5.....	191	96	98	66	77	68	83	222	708	941	586	118
6.....	166	103	100	110	76	57	83	229	679	893	650	153
7.....	159	96	96	*166	66	53	82	211	647	1010	879	525
8.....	154	96	96	166	67	51	75	214	665	1100	913	576
9.....	156	96	96	160	70	65	78	249	552	1050	900	607
10.....	161	98	98	80	71	51	85	495	467	1100	872	586
11.....	169	96	96	79	*74	51	89	559	457	763	886	525
12.....	219	84	94	84	74	50	105	672	471	540	955	207
13.....	200	78	84	83	75	58	100	862	430	535	948	127
14.....	188	78	78	89	74	68	92	820	407	505	927	149
15.....	132	81	74	69	72	57	100	576	481	492	920	492
16.....	154	90	76	60	73	54	103	831	600	482	948	496
17.....	142	100	78	58	73	60	105	790	704	478	920	456
18.....	135	120	78	59	73	57	94	892	907	422	814	174
19.....	132	114	80	65	74	63	89	957	1960	326	826	109
20.....	132	111	82	68	94	61	82	847	1980	545	801	106
21.....	132	114	86	66	130	60	85	525	1880	505	782	104
22.....	132	114	90	67	170	61	92	414	1710	409	596	126
23.....	128	111	88	64	170	65	100	404	1660	372	581	153
24.....	128	116	85	66	130	64	114	450	1760	337	338	147
25.....	123	111	82	65	80	61	125	501	1650	340	333	138
26.....	111	107	80	63	74	67	142	539	1420	380	323	135
27.....	120	132	80	62	64	77	166	614	1290	439	309	133
28.....	125	169	86	63	75	80	164	593	1190	443	306	126
29.....	118	164	82	68	.....	80	169	556	1100	447	287	127
30.....	116	140	78	79	.....	82	197	546	1050	426	202	127
31.....	114	.....	77	76	.....	85	.....	600	.....	401	186	.....
Total	4814	3238	2746	2489	2343	1980	3107	16164	29482	19376	19822	7340
Mean.	155	108	88.6	79.6	83.7	63.9	104	521	983	625	639	245
Max.	232	169	111	166	170	85	197	957	1980	1100	955	607
Min.	111	78	74	58	64	50	70	211	407	326	186	104
Acre-ft.	9550	6420	5450	4900	4650	3930	6160	32060	58480	38430	39320	14560

Total run-off for water year—223,900 acre-feet.

Discharge of Arkansas River at Granite, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	120	101	61	62	67	70	70	135	833	955	654	424
2.....	122	103	56	61	68	72	73	172	934	913	750	133
3.....	149	108	58	56	68	73	75	158	906	892	612	128
4.....	181	109	59	55	68	71	85	162	1220	808	366	149
5.....	176	109	56	57	68	70	100	160	1400	808	332	156
6.....	124	103	58	60	67	69	125	142	1550	864	321	172
7.....	117	108	62	62	67	64	115	151	1860	1000	292	183
8.....	118	101	66	62	68	66	110	167	1660	1050	282	169
9.....	115	104	66	62	68	68	110	184	1430	1050	285	154
10.....	113	103	*67	61	69	66	120	218	1310	1060	285	149
11.....	117	100	66	60	68	*64	130	248	1650	1020	336	149
12.....	120	97	63	61	*68	65	150	278	1810	850	612	144
13.....	122	103	63	60	67	65	160	215	1710	756	612	139
14.....	129	97	64	59	65	65	186	194	1410	738	366	133
15.....	124	97	65	*57	64	65	227	174	1370	720	220	131
16.....	120	97	67	58	62	65	221	169	1240	808	169	128
17.....	111	100	67	61	60	65	199	164	1510	774	186	126
18.....	106	103	64	62	58	64	158	162	1840	794	172	116
19.....	106	94	63	62	58	67	122	160	1860	1070	162	114
20.....	108	104	64	62	59	66	122	191	1650	732	154	114
21.....	113	101	66	63	63	64	155	221	1520	648	151	114
22.....	122	94	64	64	66	66	199	287	1400	642	149	116
23.....	122	96	62	67	71	69	227	388	1210	595	167	122
24.....	117	100	64	68	73	70	191	405	1290	508	175	122
25.....	117	109	62	66	72	68	151	469	1280	406	192	116
26.....	115	106	60	67	69	65	160	720	1160	358	289	112
27.....	109	160	59	70	72	63	169	859	1070	351	394	112
28.....	117	97	59	69	71	64	160	898	829	630	484	110
29.....	117	96	63	67	.....	64	147	893	720	906	584	112
30.....	109	72	61	66	.....	65	138	852	906	850	569	112
31.....	103	.....	62	65	.....	68	.....	839	.....	666	553	.....
Total	3759	3012	1937	1932	1864	2067	4349	10410	40522	24222	10875	4259
Mean.	121	100	62.5	62.3	66.6	66.7	145	336	1351	781	351	142
Max.	181	109	67	70	73	73	227	893	1860	1070	750	424
Min.	103	72	56	55	58	63	70	135	720	351	149	110
Acre-ft.	7460	5970	3340	3830	3700	4100	8630	20650	80390	48040	21570	8450

Total run-off for water year—216,600 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Salida, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	323	214	271	210	204	198	201	337	1010	1670	645	362
2....	351	204	250	194	194	204	201	351	970	1470	565	346
3....	337	201	250	188	191	198	188	382	1030	1550	638	328
4....	314	204	247	185	191	194	182	424	1200	1560	761	296
5....	300	204	239	188	198	188	178	388	1270	1590	826	275
6....	309	204	231	191	201	182	185	388	1320	1480	970	266
7....	292	201	235	198	198	175	185	377	1330	1460	1030	408
8....	279	194	235	258	204	166	182	372	1230	1700	1130	625
9....	275	201	231	266	204	175	178	414	1060	1630	1170	684
10....	292	217	239	247	204	169	182	494	842	1590	1220	668
11....	283	217	235	201	204	178	191	691	753	1470	1180	632
12....	314	214	231	210	204	182	198	777	738	1130	1250	513
13....	323	210	220	210	207	166	210	1300	753	1120	1340	300
14....	305	210	224	204	207	175	204	1710	923	1150	1460	279
15....	296	224	231	204	210	182	210	1240	990	1070	1390	414
16....	250	231	224	194	210	172	207	1310	1190	932	1360	572
17....	271	235	231	191	201	172	210	1200	1730	885	1380	585
18....	243	239	224	191	210	182	210	1320	2220	868	1240	469
19....	231	254	228	210	217	201	198	1470	2800	860	1180	279
20....	228	247	220	204	207	214	185	1410	3240	980	1140	243
21....	228	239	210	207	228	214	178	1010	3330	1020	1140	235
22....	235	247	224	198	275	214	185	625	3220	851	1000	283
23....	235	250	228	198	266	210	182	660	3100	753	860	390
24....	231	250	231	191	243	224	185	645	3280	691	681	362
25....	228	254	235	201	210	210	191	753	3220	730	558	351
26....	217	247	217	191	198	194	214	834	2930	491	526	314
27....	217	231	217	204	185	201	250	990	2680	738	475	296
28....	220	287	220	191	185	210	275	990	2540	753	469	279
29....	217	314	220	204	....	214	262	885	2260	714	482	287
30....	214	318	224	207	....	210	287	834	1940	676	440	296
31....	217	....	224	207	....	198	....	876	....	660	377	....
Total	8275	6962	7146	6343	5856	5972	6094	25457	55109	34442	28886	11645
Mean.	267	232	231	205	209	193	203	821	1837	1111	932	388
Max..	351	318	271	266	275	224	287	1710	3330	1700	1460	684
Min..	214	194	210	185	185	166	178	337	738	660	377	235
Ac.-ft.	16410	13810	14170	12580	11620	11850	12090	50490	109300	68310	57290	23100

Total run-off for water year=401,020 acre-feet.

Discharge of Arkansas River at Salida, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	289	296	265	235	252	227	224	658	1550	1820	1060	707
2....	278	303	261	231	251	224	258	686	1720	1810	1220	443
3....	360	303	268	222	250	231	289	624	1770	1730	1320	344
4....	457	306	282	212	250	227	314	433	2030	1630	968	356
5....	467	310	272	225	244	224	348	433	2210	1620	850	382
6....	462	310	265	250	234	227	373	428	2340	1650	770	396
7....	377	306	265	275	244	202	322	433	2870	1790	700	400
8....	364	296	261	292	248	202	278	443	2790	1820	672	377
9....	364	299	251	282	241	227	285	457	2470	1820	651	356
10....	368	306	251	292	241	224	289	478	2110	1810	651	340
11....	373	296	258	296	224	216	364	488	2470	1700	630	326
12....	356	292	248	289	234	216	409	493	2880	1610	810	348
13....	356	296	251	278	241	221	428	553	2880	1420	926	344
14....	409	292	251	268	238	218	525	606	2660	1380	892	348
15....	409	285	248	221	234	210	525	588	2510	1360	630	344
16....	396	285	251	250	222	207	419	564	2300	1400	457	310
17....	364	285	251	278	210	207	391	520	2650	1450	472	328
18....	348	289	248	274	200	204	368	433	3170	1390	462	317
19....	344	275	248	272	196	218	340	414	3390	1540	409	314
20....	348	255	244	270	198	213	321	438	3240	1420	386	314
21....	382	248	244	268	199	204	332	457	2930	1170	391	317
22....	405	251	251	272	215	207	396	514	2750	1020	405	321
23....	391	248	234	280	227	216	520	686	2260	1020	400	321
24....	368	241	241	275	230	227	493	926	2260	977	428	321
25....	348	255	244	262	231	218	457	1030	2430	892	443	321
26....	348	261	234	258	218	221	457	1310	2310	756	452	317
27....	336	268	234	258	231	199	509	1750	1910	756	600	317
28....	328	265	231	258	231	204	504	1630	1630	943	600	310
29....	332	265	234	258	....	204	612	1690	1580	1310	721	306
30....	328	265	227	256	....	207	665	1660	1570	1320	721	310
31....	314	....	231	255	....	210	....	1630	....	1110	714	....
Total	11369	8452	7714	8112	6434	6662	12025	23453	71690	43444	20811	10595
Mean.	367	282	250	262	230	215	401	757	2390	1401	671	353
Max..	467	310	282	296	252	231	665	1750	3390	1820	1320	707
Min..	278	241	227	212	196	199	224	414	1550	756	386	306
Ac.-ft.	22530	16760	15360	16090	12760	13210	23550	46520	142200	86170	41280	21010

Total run-off for water year=457 800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Canon City, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	270	210	386	294	251	262	330	445	1510	2240	688	361
2....	274	228	326	247	232	282	318	540	1420	1980	626	354
3....	294	243	314	240	240	266	306	590	1330	1910	603	320
4....	278	243	294	225	247	236	294	636	1520	1900	701	290
5....	266	266	286	232	262	236	274	559	1780	1900	795	268
6....	270	243	270	270	247	236	251	502	1900	1830	960	245
7....	270	251	266	274	262	228	240	518	1910	1690	980	243
8....	270	200	274	302	243	225	182	481	1970	1860	1160	479
9....	262	179	243	374	247	225	186	450	1880	1880	1290	638
10....	266	210	228	386	255	214	189	590	1520	1790	1300	650
11....	266	251	218	334	251	210	189	643	1420	1850	1340	608
12....	266	236	210	318	240	251	189	785	1250	1470	1560	565
13....	306	259	215	290	259	274	196	1330	1150	1820	1400	361
14....	294	262	235	262	247	262	214	1960	1270	1570	1440	262
15....	298	310	255	251	236	247	207	1860	1380	1480	1560	259
16....	259	318	266	251	247	225	169	1360	1540	1310	1420	452
17....	243	306	322	243	240	218	127	1560	2050	1260	1460	497
18....	255	274	394	225	232	228	127	1570	2540	1310	1450	502
19....	225	306	432	266	247	243	143	1740	3350	1320	1310	326
20....	221	342	390	274	251	266	136	1790	4180	1340	1330	243
21....	218	302	378	282	243	338	143	1560	4240	1390	1290	220
22....	214	286	378	266	286	346	156	1210	4360	1220	1260	270
23....	221	306	390	259	334	366	176	1120	4360	1030	1000	416
24....	218	322	378	255	326	338	152	934	4620	920	912	425
25....	225	322	350	266	322	326	232	997	4680	1170	638	388
26....	218	326	338	247	334	314	255	1320	4460	952	570	358
27....	225	290	322	236	302	322	326	1500	3700	888	502	323
28....	218	302	338	232	243	314	458	1570	3410	912	465	310
29....	218	382	334	247	....	310	472	1450	3100	841	456	307
30....	210	386	314	278	....	314	458	1420	2600	841	461	320
31....	214	....	302	251	....	354	....	1390	....	748	396	....
Total	7752	8361	9646	8377	7326	8476	7095	34380	76400	44622	31323	11260
Mean..	250	279	311	270	262	273	236	110	2550	1440	1010	375
Max...	306	386	432	386	334	366	472	1960	4680	2240	1560	650
Min...	210	179	210	225	232	210	127	445	1150	748	396	220
Ac.-ft.	15380	16580	19130	16620	14530	16810	14070	68190	151500	88510	62130	22330

Total run-off for water year=505,800 acre-feet.

Discharge of Arkansas River at Canon City, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	307	523	372	317	293	336	456	1880	3070	2400	1130	710
2....	290	512	372	298	296	310	620	1880	2910	2510	1340	732
3....	456	518	372	298	320	301	990	2050	2810	2390	1670	518
4....	597	518	404	248	320	296	1100	1720	2970	2250	1560	460
5....	632	497	404	276	320	284	1010	1720	3060	2180	1210	489
6....	581	488	376	284	298	296	1010	1720	3110	2170	1050	524
7....	549	488	380	330	307	298	888	2050	3710	2280	951	524
8....	452	447	388	438	307	282	795	2240	4040	2390	836	524
9....	447	425	372	484	296	310	727	2530	3770	2390	769	495
10....	430	412	368	456	298	333	734	2610	3370	2410	762	424
11....	443	408	392	434	279	317	952	2540	3480	2280	777	389
12....	425	392	376	425	298	301	1060	2390	4100	2170	861	398
13....	412	392	368	396	307	330	1080	2090	4240	1940	1360	424
14....	632	388	358	368	320	336	1230	1920	4110	1820	1310	424
15....	668	361	343	340	310	314	1230	1720	3680	1780	960	413
16....	581	376	343	317	270	298	896	1610	3410	1750	682	398
17....	538	384	354	340	256	304	694	1510	3500	1830	548	389
18....	493	384	350	317	225	298	795	1350	4200	1760	584	379
19....	465	376	340	301	245	304	788	1280	4590	1840	615	374
20....	465	336	330	304	323	330	841	1410	4490	1920	483	379
21....	497	317	336	301	340	320	872	1400	4130	1570	434	389
22....	603	354	347	304	354	330	1260	1430	3890	1280	455	403
23....	788	350	323	347	358	350	2020	1710	3370	1010	455	413
24....	748	368	333	340	330	380	1750	2070	3150	978	455	408
25....	681	400	361	320	326	372	1630	2240	3270	897	518	403
26....	675	396	317	320	336	396	1660	2620	3120	777	512	389
27....	592	384	307	323	336	365	1620	3070	2740	710	530	384
28....	581	392	298	330	354	336	1580	3600	2350	801	603	384
29....	592	376	333	354	....	336	1600	3530	2190	1370	578	365
30....	570	372	347	332	....	358	1700	3250	2120	1470	615	370
31....	554	....	347	293	....	392	....	3210	....	1270	640	....
Total	16744	12334	11011	10535	8622	10113	33588	66250	102950	54603	25253	13275
Mean..	540	411	355	340	308	326	1120	2137	3432	1761	815	442
Max...	788	523	404	484	358	396	2020	3600	4590	2510	1670	732
Min...	290	317	298	248	225	282	456	1280	2120	710	434	365
Ac.-ft.	33210	24460	21840	20900	17100	20060	66620	131400	204200	108300	50090	26330

Total run-off for water year=724,500 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Portland, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	317	205	353	283	265	256	349	647	1710	2600	749	421
2.....	320	205	301	259	256	274	342	733	1660	2120	650	397
3.....	338	214	292	232	247	265	338	773	1610	1950	598	365
4.....	314	211	292	214	247	262	324	881	2010	2050	665	320
5.....	292	229	280	214	256	256	304	824	2100	2030	797	298
6.....	292	211	268	238	247	265	298	741	2150	1940	950	286
7.....	289	211	262	250	244	259	295	765	2180	1770	980	274
8.....	268	205	262	259	235	253	223	718	2300	1880	1070	425
9.....	292	196	259	301	232	283	205	650	2190	1990	1110	672
10.....	295	223	253	314	241	307	188	710	1800	1880	1180	725
11.....	286	244	235	292	241	320	182	1000	1680	2010	1300	672
12.....	271	229	220	268	235	314	180	1110	1510	1780	2120	624
13.....	301	217	225	265	241	286	188	1480	1390	2130	1660	460
14.....	298	226	240	259	241	271	188	2090	1470	1840	1600	324
15.....	286	259	256	253	244	274	178	2180	1560	1520	1780	301
16.....	265	289	260	244	247	274	160	1600	1730	1380	1600	425
17.....	235	292	320	226	241	259	148	1740	2240	1320	1730	555
18.....	250	286	413	220	288	262	150	1740	2720	1400	1640	592
19.....	217	304	393	238	244	265	190	1940	3570	1350	1710	460
20.....	208	317	334	256	256	271	205	2080	4350	1550	1570	317
21.....	199	295	320	256	265	328	196	1820	4380	1400	1380	301
22.....	193	295	338	250	280	338	182	1570	4670	1300	1440	421
23.....	202	304	314	244	324	373	214	1570	4670	1080	1180	549
24.....	202	310	320	238	317	385	193	1330	4670	940	1060	567
25.....	202	310	328	241	317	377	238	1260	5090	1460	773	525
26.....	202	307	301	238	317	342	271	1540	4470	1220	688	485
27.....	214	283	274	235	286	373	413	1770	3790	980	630	430
28.....	217	286	286	241	244	373	890	1870	3400	950	543	405
29.....	214	342	289	244	.....	373	695	1700	2940	900	510	430
30.....	211	349	289	265	.....	385	644	1560	2400	1020	515	440
31.....	208	.....	289	265	.....	373	.....	1520	.....	834	465	.....
Total	7898	7854	9066	7802	7248	9496	8571	41902	82410	48574	34643	13466
Mean...	255	262	292	252	259	306	286	1352	2747	1567	1118	449
Max... ..	338	349	413	314	324	385	890	2180	5090	2600	2120	725
Min... ..	193	196	220	214	232	253	148	637	1390	834	465	274
Ac.-ft.	15670	15580	17980	15480	14380	18840	17000	83110	163500	96350	68710	26710

Total run-off for water year=533,300 acre-feet.

Discharge of Arkansas River at Portland, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	419	606	453	383	394	327	444	2010	3320	2400	1350	748
2....	406	594	448	364	383	317	564	2070	3270	2590	1620	756
3....	530	588	444	361	379	317	1240	2260	3290	2560	2180	530
4....	726	582	466	344	387	320	1400	2290	3540	2260	1890	475
5....	816	576	466	354	375	311	1320	2470	3760	2240	1340	524
6....	756	564	436	379	350	330	1240	2340	3700	2200	1160	519
7....	719	558	448	415	357	327	1080	2540	5520	2380	1050	504
8....	594	535	444	514	372	304	793	2620	7460	2540	916	479
9....	576	524	440	552	354	314	778	2530	5350	2590	864	453
10....	552	530	436	493	357	340	872	2790	4530	2810	856	427
11....	558	530	431	479	337	347	1140	2700	4120	2560	880	406
12....	546	519	436	479	344	333	1430	2260	4780	2350	864	440
13....	535	509	427	470	347	354	1410	2700	5200	2070	1640	453
14....	733	504	423	470	340	375	1520	2710	5080	1890	3480	436
15....	808	479	415	462	333	361	1970	2380	4370	1840	1110	436
16....	726	475	419	440	308	340	1400	2260	3870	1730	808	415
17....	673	479	427	462	308	314	1240	2140	3800	1800	680	394
18....	612	479	427	444	298	298	1320	1700	4440	1800	667	375
19....	588	488	419	410	301	314	1940	1550	5120	2180	741	387
20....	582	444	415	415	347	333	1900	1580	5180	2220	642	379
21....	588	419	423	410	375	317	1630	1610	4740	1800	612	368
22....	733	419	440	406	379	314	2320	1690	4440	1500	582	364
23....	1660	423	406	431	375	340	4870	1930	3850	1350	552	368
24....	934	410	391	444	347	379	5780	2360	3290	1320	552	364
25....	800	436	419	423	327	383	3530	2590	3480	1220	588	364
26....	808	466	391	431	350	436	3680	2730	3320	1190	558	364
27....	748	466	372	444	317	387	2900	3430	2890	1040	576	364
28....	713	466	368	431	333	350	2180	3750	2460	1090	660	357
29....	706	462	394	466	.....	364	2030	3960	2140	1510	642	344
30....	660	453	410	426	.....	364	2140	3430	2300	1730	673	333
31....	630	.....	406	391	.....	387	.....	3400	.....	1580	680	.....
Total	21435	14983	13140	13403	9774	10597	56061	76780	122550	60430	31413	13126
Mean...	691	499	424	432	349	342	1869	2477	4085	1949	1013	438
Max... ..	1660	606	466	552	394	436	5780	3960	7460	2810	3480	758
Min... ..	406	410	368	344	298	298	444	1550	2140	1040	552	333
Ac.-ft.	42520	29720	26060	26580	19390	21020	112000	152300	243100	119900	62310	26040

Total run-off for water year=880,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River Near Pueblo, Colo., for Year Ending Sept. 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	271	154	373	209	173	137	233	786	1780	2630	714	325
2....	242	148	353	212	162	134	227	827	1700	2150	625	294
3....	251	146	340	207	159	138	230	962	1460	1700	562	255
4....	263	150	308	209	130	138	218	944	2030	2150	561	217
5....	238	152	307	192	136	131	200	948	2180	2030	644	208
6....	230	169	300	154	137	134	180	870	2260	1790	724	191
7....	236	158	296	133	130	133	170	856	2200	1570	745	174
8....	215	169	278	128	144	132	141	783	2280	1510	936	218
9....	198	148	266	173	140	150	107	742	2170	1750	1040	186
10....	227	155	272	211	134	204	102	734	1800	1570	1080	504
11....	202	190	273	203	160	184	95	943	1470	1720	1590	491
12....	197	231	301	195	187	210	134	980	1260	1840	2560	454
13....	198	226	218	195	198	209	145	1150	1080	1600	1580	419
14....	219	228	149	182	176	159	143	1690	1060	2490	1390	312
15....	193	251	107	178	162	152	110	2440	1280	1530	1580	247
16....	165	286	95	178	162	154	88	1850	1640	1160	1480	258
17....	134	283	140	183	167	156	61	1710	1980	1020	1470	413
18....	144	301	192	222	153	141	55	1640	2630	1030	1740	441
19....	137	302	258	223	141	140	122	1680	3600	2110	1700	395
20....	102	347	244	195	150	143	119	1880	4380	1110	1460	266
21....	103	321	236	189	158	180	119	1830	4470	1290	1270	206
22....	98	308	266	193	158	225	103	1530	4740	1040	1270	268
23....	106	311	249	175	196	237	119	1690	4610	848	1080	360
24....	119	310	267	162	199	265	142	1400	4510	726	863	383
25....	121	314	274	185	195	273	108	1230	5010	900	679	366
26....	137	310	254	189	200	246	184	1480	4630	1240	560	357
27....	138	304	239	154	196	246	268	1570	3830	770	520	315
28....	160	290	235	152	149	247	1100	1790	3470	803	434	285
29....	161	312	218	141	....	255	1150	1940	3080	680	420	334
30....	162	360	214	167	....	263	911	2000	2590	665	406	382
31....	158	....	201	178	....	246	....	1760	....	905	362	....
Total	5525	7334	7723	5677	4552	5762	7084	42685	81180	44327	32045	9824
Mean.	178	244	249	183	163	186	236	1377	2706	1430	1034	327
Max.	271	360	373	223	200	273	1150	2440	5010	2630	2560	504
Min.	98	146	95	133	120	131	55	734	1060	665	362	174
Ac.-ft.	10960	14552	15320	11260	9030	11430	14050	81660	161000	87920	63560	19490

Total run-off for water year=503,200 acre-feet.

Discharge of Arkansas River Near Pueblo, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	359	573	468	396	376	307	389	3480	3390	2810	1170	799
2....	343	606	463	384	351	296	425	3450	3200	2620	1180	828
3....	369	584	451	366	345	296	774	3450	3270	2520	2390	547
4....	513	578	469	326	372	312	900	3410	3370	2310	2030	521
5....	609	550	474	263	345	311	926	3550	3620	2130	1540	531
6....	566	571	456	214	319	297	989	3480	3650	2040	1310	498
7....	607	570	473	265	319	297	935	3500	4150	2050	1090	452
8....	514	549	467	345	330	281	805	3710	6830	2100	1060	433
9....	507	529	473	400	315	276	752	3930	5310	2200	946	420
10....	501	521	468	474	315	306	841	4130	4500	2380	894	391
11....	489	515	460	524	310	315	988	6130	3890	2660	914	279
12....	507	514	459	523	295	314	1410	5990	4180	2070	883	356
13....	495	522	428	497	315	318	1420	3520	4520	1900	1050	343
14....	560	523	425	507	310	339	1730	3310	4520	1760	4330	331
15....	690	516	392	492	376	328	2220	3000	4110	1710	1840	309
16....	610	516	398	466	352	313	1720	2790	3620	1630	1050	308
17....	573	515	404	491	305	293	1270	2660	3530	1710	721	343
18....	552	517	415	470	284	284	1420	2520	4080	1680	776	342
19....	539	526	410	450	259	276	3450	2310	4510	1790	862	356
20....	517	526	416	445	279	289	3820	2320	4420	2140	612	341
21....	512	518	415	447	375	295	2410	2210	4420	1690	588	342
22....	589	538	431	455	341	276	2850	2180	4210	1380	555	331
23....	2680	545	409	457	351	276	5360	2380	3910	1260	556	336
24....	1060	496	406	466	326	307	7780	2930	3380	1220	556	330
25....	824	485	412	479	290	352	4980	3070	3420	1130	548	330
26....	774	493	444	464	317	353	5220	3260	3380	1190	513	303
27....	717	481	401	439	311	348	4620	3700	3100	997	439	323
28....	661	487	389	429	292	312	4010	3900	2640	978	572	323
29....	669	487	426	436	....	295	3720	3590	2310	1120	574	306
30....	633	481	416	418	....	316	3770	3660	2600	1380	706	279
31....	585	....	426	397	....	357	....	3440	....	1340	714	....
Total	20124	15832	13444	13185	9055	9535	71904	104960	116360	55895	32969	11931
Mean.	649	528	434	425	323	308	2397	3386	3879	1803	1064	398
Max.	2680	606	474	524	376	357	7780	6130	6830	2810	4330	828
Min.	343	481	389	214	259	276	389	2180	2310	978	439	279
Ac.-ft.	39920	31400	26670	26150	17960	18910	142600	208200	230800	110900	65390	23660

Total run-off for water year=942,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River Near Avondale, Colo., for Year Ending Sept. 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	350	165	455	430	303	228	294	1280	1600	1800	927	494
2....	344	188	468	377	285	249	290	1200	2660	2500	730	430
3....	339	157	418	308	294	267	308	1390	2440	2160	618	383
4....	339	153	412	245	276	249	324	1520	3110	2560	536	324
5....	313	165	412	233	267	220	329	1280	2680	2730	588	294
6....	276	180	383	271	285	204	299	1100	2660	2240	692	267
7....	271	169	372	290	271	237	280	1140	2770	1860	730	245
8....	271	150	360	329	285	233	290	1120	2580	1640	750	249
9....	258	176	372	366	276	212	241	915	2460	1960	1050	588
10....	290	169	360	412	258	267	204	814	2100	1800	1170	645
11....	329	180	344	412	245	285	188	1090	1680	1630	1260	645
12....	313	220	377	383	249	280	184	1160	1480	1730	4620	580
13....	285	233	383	360	271	294	212	1260	1520	1710	2340	529
14....	276	276	188	350	212	262	237	1470	1470	2870	1660	350
15....	262	241	303	372	216	237	216	1750	1530	2160	1900	267
16....	245	271	200	372	241	237	192	1770	1700	1640	1610	258
17....	224	285	200	360	237	245	129	1310	2180	1270	1580	389
18....	204	318	377	350	241	233	126	1450	2620	1200	1840	474
19....	216	383	474	366	237	233	180	1630	3110	2840	1860	494
20....	188	383	494	395	254	271	228	1440	3640	1640	1960	372
21....	176	395	561	395	262	290	212	1140	4320	2110	1820	258
22....	176	383	522	377	276	294	196	1010	5160	1630	1730	449
23....	153	344	522	372	271	329	192	3160	4800	1170	1660	474
24....	176	377	558	344	280	383	245	2260	4670	870	1360	508
25....	161	383	550	334	267	424	220	1640	5370	987	1130	487
26....	139	412	522	324	271	430	267	1450	4800	1790	814	461
27....	129	406	468	329	280	412	424	1560	4140	1060	2320	372
28....	129	395	474	334	249	383	1140	1940	3600	1160	962	294
29....	136	401	455	334	....	350	2060	2200	3180	1090	730	324
30....	146	443	443	344	....	344	1820	1600	2400	1020	664	383
31....	169	....	418	313	....	318	....	1130	....	1050	588	....
Total	7283	8401	12785	10781	7359	8900	11527	45170	88430	53877	42199	12287
Mean.	235	280	412	348	263	287	384	1457	2948	1738	1361	410
Max..	350	443	558	430	303	430	2060	3160	5370	2870	4620	645
Min..	129	150	188	233	212	204	126	814	1470	870	536	245
Ac.-ft.	14450	16660	25360	21380	14600	17650	22860	89610	175400	106900	83700	24370

Total run-off for water year=612,900 acre-feet.

Discharge of Arkansas River Near Avondale Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	389	1230	673	515	468	455	529	5080	3420	3640	1290	1080
2....	366	1230	612	360	508	430	596	4600	3030	3420	1300	1150
3....	372	1200	626	424	468	418	1040	4930	3070	3550	3040	790
4....	515	1070	654	437	508	430	1330	4540	3310	3270	3310	692
5....	588	1160	626	437	543	443	1310	4540	3730	2890	2770	729
6....	588	1120	654	372	550	487	1560	4880	3660	2570	1970	790
7....	565	1070	635	437	529	468	1730	5160	4320	2780	1560	684
8....	494	1060	626	508	565	480	1480	5340	8380	2500	1600	621
9....	418	1040	596	603	487	508	1480	5530	7490	2280	1580	575
10....	460	999	580	635	474	588	1630	5840	5990	2480	1470	562
11....	470	962	508	654	480	565	1840	5970	5060	3530	1410	453
12....	480	1010	618	701	522	543	2080	5710	5340	2960	1340	474
13....	470	987	635	701	522	501	2220	5140	6200	2140	1360	494
14....	560	927	626	720	487	480	2460	5110	6310	1810	6430	468
15....	740	870	618	741	455	487	3180	4820	5840	1600	4720	434
16....	700	904	626	711	443	494	2720	3900	5160	1540	1230	402
17....	660	927	654	701	389	515	2660	3640	4880	1940	997	439
18....	650	915	645	682	308	437	2620	3600	5580	2060	1040	453
19....	650	858	603	645	294	424	5500	3380	5990	2250	1360	494
20....	654	835	558	603	313	430	6620	3140	6250	2680	903	500
21....	664	730	580	573	406	443	3730	2960	6360	1860	767	458
22....	750	654	603	550	515	395	3920	2770	5940	1400	634	444
23....	4500	664	550	611	529	406	6510	3160	5160	1680	588	434
24....	2000	673	611	645	424	455	15800	4400	4620	1650	621	415
25....	1400	701	580	588	389	543	8880	4340	3830	1580	594	424
26....	1250	730	565	580	412	522	7110	4400	3780	1620	568	424
27....	1180	751	543	654	443	573	6440	4720	3460	1580	494	434
28....	1100	701	418	645	443	508	6230	5110	2950	1460	510	429
29....	1050	762	543	611	....	461	5600	5140	2770	1520	551	424
30....	1080	741	550	603	....	437	5680	4670	3350	1520	621	410
31....	1180	....	588	515	....	501	....	3920	....	1520	656	....
Total	26943	27481	18504	18162	12874	14827	114485	140440	145230	69280	47284	16580
Mean.	869	916	597	586	460	478	3816	4530	4841	2235	1525	553
Max..	4500	1230	673	741	565	588	15800	5970	8380	3640	6430	1150
Min..	366	654	418	360	294	395	529	2770	2770	1400	494	402
Ac.-ft.	53440	54510	36700	36020	25540	29410	227100	278600	288100	137400	93790	32890

Total run-off for water year=1,294,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River Near Nepesta, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	245	136	330	347	256	224	352	1410	1830	1800	698	347
2.....	219	128	314	298	213	202	364	1470	2100	2220	496	352
3.....	236	153	336	274	217	195	370	978	2800	3180	346	314
4.....	226	190	325	275	192	195	340	978	2600	3000	322	246
5.....	192	199	303	256	202	224	286	850	2740	2430	376	199
6.....	183	199	303	242	206	229	291	672	2510	1270	328	186
7.....	210	212	314	247	188	306	256	1050	2560	1140	398	150
8.....	177	193	309	301	192	291	275	994	2460	1150	423	136
9.....	160	186	314	301	179	270	213	1050	2800	1410	464	180
10.....	245	168	298	242	164	296	167	1070	2380	1370	517	264
11.....	249	171	309	270	176	358	152	1070	2280	1270	517	255
12.....	192	200	325	252	206	364	152	866	1960	1820	3790	216
13.....	169	230	300	270	306	398	167	1180	1310	1560	1690	193
14.....	136	250	715	270	206	370	202	1690	1150	3700	1390	180
15.....	108	240	230	270	176	338	206	2220	1310	1480	1330	246
16.....	92	260	195	233	173	224	152	1900	1600	1080	1070	246
17.....	136	325	185	224	170	213	134	1900	2290	866	866	209
18.....	142	269	240	210	188	185	110	2010	2010	1030	1120	159
19.....	139	336	300	204	179	164	158	2510	2350	2920	1690	177
20.....	128	314	310	265	185	195	224	2510	3180	1140	1530	193
21.....	99	309	385	275	224	233	195	2060	4270	1480	1600	556
22.....	99	314	440	265	265	265	213	1430	4980	1480	820	1040
23.....	101	341	510	247	256	317	229	3070	4430	1230	1640	674
24.....	104	330	580	224	179	423	275	2170	4400	946	850	336
25.....	110	359	726	224	188	538	275	1940	5220	882	713	325
26.....	106	347	577	224	206	608	213	1940	4650	1730	660	556
27.....	110	330	412	270	275	517	312	2510	4300	882	3640	325
28.....	110	293	427	270	265	506	1080	2710	3790	1270	1020	66
29.....	120	314	399	286	.....	439	1450	2560	3390	1120	392	202
30.....	129	330	372	286	.....	398	1390	1990	2270	1560	347	359
31.....	136	.....	352	286	.....	346	.....	1780	.....	1290	350	.....
Total	4808	7626	11465	8108	5841	9731	10203	52538	85920	49706	31423	8827
Mean.	155	254	370	262	209	314	340	1695	2864	1603	1014	296
Max.	249	359	726	347	306	608	1450	3070	5220	3700	3790	1040
Min.	92	128	185	204	164	110	672	1150	866	322	66	66
Acre-ft.	9540	15130	22740	16080	11590	19300	20240	104200	170400	98590	62330	17630

Total run-off for water year=567,800 acre-feet.

Discharge of Arkansas River Near Nepesta, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	279	598	720	580	502	510	204	5930	4400	3270	370	3040
2.....	264	674	668	420	471	471	222	5830	4110	2940	370	1710
3.....	239	810	561	440	463	442	252	5420	4010	3120	2340	464
4.....	347	992	510	460	606	413	471	5220	3700	2850	2340	439
5.....	523	1070	525	450	597	479	525	5320	3820	2290	1170	485
6.....	513	838	517	440	543	456	748	5620	3980	1990	1470	728
7.....	336	944	471	470	534	431	1300	5420	4270	1790	1920	456
8.....	379	1070	471	540	552	479	1620	5690	6830	1600	1540	660
9.....	379	976	534	640	436	486	1440	6030	6600	1670	1260	608
10.....	444	976	597	660	365	570	1420	6560	5960	2620	1320	570
11.....	347	912	510	720	385	561	1600	6840	4420	1890	1470	407
12.....	372	866	597	760	407	517	2250	7010	4520	1720	782	317
13.....	419	852	626	750	413	370	2570	6660	5050	1540	645	296
14.....	469	880	615	780	425	330	2680	6480	5250	1170	5620	286
15.....	767	944	668	800	431	360	3060	5900	5250	766	6660	301
16.....	726	1010	626	750	442	390	2160	4720	4680	1020	1890	317
17.....	781	944	646	730	436	402	1710	3920	4520	1080	834	306
18.....	700	795	646	720	413	310	1940	6800	4680	1170	423	364
19.....	609	804	626	700	486	242	7500	3180	4880	1470	390	423
20.....	545	846	615	680	636	242	9910	3060	5010	2760	528	485
21.....	575	646	636	660	924	239	6700	3300	4510	1470	464	423
22.....	609	543	615	620	748	207	6280	3240	4230	1170	850	423
23.....	4840	657	615	680	668	198	8300	3060	3880	990	1050	415
24.....	3220	636	534	695	570	213	11000	3600	3720	798	1350	370
25.....	1060	668	510	665	471	300	10700	4240	3300	720	1370	334
26.....	838	699	500	748	448	305	8270	4590	3270	1040	1310	340
27.....	713	846	498	818	517	275	7010	4950	2640	1010	713	382
28.....	444	748	480	762	419	226	6000	4750	1820	908	634	382
29.....	534	502	510	710	.....	183	5520	4300	1560	720	744	292
30.....	674	790	580	668	.....	149	5760	4690	2560	720	672	261
31.....	598	.....	600	525	.....	177	.....	4210	.....	630	660	.....
Total	23543	24536	17827	20041	14308	10933	119122	156540	127470	48902	43159	16284
Mean.	759	818	575	646	511	353	3971	5050	4249	1577	1392	543
Max.	4840	1070	720	818	924	570	11000	7010	6830	3270	6660	3040
Min.	239	502	471	420	365	149	204	3060	1560	630	370	261
Ac.-ft.	46700	48670	33360	39750	28380	21690	236300	310500	252800	97000	85600	32300

Total run-off for water year=1,235,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at La Junta Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	168	7.4	101	175	39	32	154	137	78	196	394	238
2.....	181	7.4	107	187	40	33	154	104	217	246	168	270
3.....	86	9.6	81	166	63	34	213	62	234	117	196	53
4.....	58	14	87	121	97	26	171	27	251	178	242	47
5.....	30	13	68	119	90	27	146	16	138	187	109	88
6.....	30	9.6	58	91	75	45	151	37	84	69	68	59
7.....	14	8.8	51	115	64	54	66	67	558	92	74	39
8.....	7.4	8.8	42	115	55	64	55	46	860	76	54	43
9.....	12	8.8	37	111	62	111	59	52	135	158	46	71
10.....	9.6	5.3	27	109	55	183	35	53	94	289	119	41
11.....	14	18	28	82	29	186	24	67	193	213	86	42
12.....	23	12	47	71	20	280	14	31	121	489	503	35
13.....	7.1	10	84	82	28	166	14	73	82	437	400	34
14.....	6.5	35	81	68	62	161	43	100	128	586	181	24
15.....	7.7	43	103	90	67	118	67	174	172	109	280	15
16.....	7.1	158	162	57	62	64	78	183	103	314	503	51
17.....	6.5	256	138	55	53	28	19	133	190	450	551	36
18.....	7.4	193	92	68	37	24	18	325	125	190	510	31
19.....	11	158	74	75	23	18	23	330	190	572	656	18
20.....	14	165	78	67	24	28	25	565	193	221	482	11
21.....	15	155	142	71	32	25	37	386	187	366	450	12
22.....	16	142	238	85	39	46	28	140	1060	242	251	677
23.....	14	115	251	80	49	59	40	800	628	256	187	28
24.....	48	155	309	79	47	86	42	1020	572	275	190	16
25.....	84	175	275	79	54	239	30	105	679	284	256	26
26.....	18	181	202	88	33	352	51	57	1490	119	344	20
27.....	10	160	140	104	16	364	30	84	988	87	2220	16
28.....	8.8	150	168	131	33	290	54	119	572	94	98	126
29.....	7.7	138	196	140	.....	369	104	68	628	109	69	117
30.....	7.4	109	175	146	.....	267	171	89	273	142	74	46
31.....	6.8	.....	160	51	.....	202	.....	81	.....	294	140	.....
Total	958.0	2620.7	3802	3072	1348	3981	2116	5531	11163	7457	9901	2288.6
Mean	30.9	87.4	123	99.1	48.1	128	70.5	178	372	241	319	76.3
Max.	181	256	309	187	97	369	213	1020	1490	586	2220	677
Min.	6.5	5.3	27	51	16	18	14	16	78	69	46	2
Ac.-ft.	1900	5200	7540	6090	2670	7900	4200	10970	22140	14790	19640	4510

Total run-off for water year=107,600 acre-feet.

Discharge of Arkansas River at La Junta, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	31	230	381	310	287	102	19	11700	2390	1720	604	192
2.....	30	215	381	315	231	108	23	8440	1980	1760	635	1580
3.....	37	250	313	283	246	69	78	7130	1560	1580	522	145
4.....	37	250	295	266	231	83	106	6200	1160	1470	266	84
5.....	40	255	448	166	231	88	102	6230	1070	1430	140	61
6.....	37	255	332	169	250	42	32	6230	1260	588	182	61
7.....	27	250	360	239	202	62	73	6310	1580	369	552	73
8.....	37	277	313	266	105	52	55	6200	2850	733	596	53
9.....	25	277	295	279	135	64	25	6420	6540	501	439	63
10.....	27	289	313	375	105	33	23	6420	5840	459	324	86
11.....	23	381	448	420	44	23	57	6730	4090	683	242	44
12.....	19	455	360	409	34	12	209	6230	3480	1080	185	91
13.....	19	432	260	364	23	14	1060	5460	4740	397	202	132
14.....	33	353	250	359	19	24	1070	5460	5940	271	1750	35
15.....	39	488	266	403	57	39	1180	3820	6000	132	6370	46
16.....	23	440	169	385	73	39	1560	3000	4500	157	1260	44
17.....	32	339	178	375	112	37	1140	2620	4630	522	296	42
18.....	29	353	142	266	132	28	1210	1770	5300	581	132	35
19.....	41	388	95	216	473	22	3100	1640	5700	627	148	32
20.....	62	381	86	213	275	22	11100	1780	6160	627	559	65
21.....	79	388	84	239	206	35	10500	1810	6500	804	466	77
22.....	133	346	137	182	166	24	6310	1990	6500	301	228	157
23.....	267	313	228	148	137	16	5770	1950	5420	494	132	157
24.....	4560	265	199	182	69	19	18000	2800	4500	328	86	292
25.....	1210	307	235	216	114	20	30900	3660	3680	328	57	173
26.....	605	313	206	189	73	20	15500	3730	3060	354	48	391
27.....	307	402	189	292	104	20	8490	3620	2350	473	37	409
28.....	260	395	209	119	117	16	6230	3900	1710	691	178	275
29.....	255	418	216	258	.....	19	6920	3730	1206	452	137	250
30.....	265	301	271	266	.....	18	7500	2420	1120	573	71	209
31.....	240	.....	283	271	.....	16	.....	2560	.....	674	93	.....
Total	8829	10006	7942	8431	4251	1186	138942	141960	11210	21159	16937	5654
Mean	285	334	256	272	152	38.3	4611	4579	3760	683	546	188
Max.	4560	488	488	420	473	108	30900	11700	6540	1760	6370	1580
Min.	19	215	84	119	19	12	19	1640	1076	132	37	32
Ac.-ft.	17510	19850	15750	16720	8430	2350	274160	281600	223800	11970	33590	11210

Total run-off for water year=947,200 acre feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Las Animas, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	182	11	127	149	76	24	188	66	82	170	336	227
2....	297	10	100	149	62	22	143	126	277	164	228	263
3....	147	10	104	143	55	20	185	132	270	240	108	257
4....	90	9	86	143	78	18	179	96	327	228	134	215
5....	61	10	84	132	108	12	159	65	186	316	177	99
6....	39	10	66	104	98	13	141	40	108	208	63	86
7....	30	10	51	108	76	11	138	33	233	125	40	59
8....	18	9	51	112	72	10	72	21	895	114	34	43
9....	12	10	48	110	72	11	45	18	244	84	23	45
10....	11	10	44	112	82	116	47	19	103	178	25	54
11....	9	20	40	123	78	145	37	17	117	227	47	32
12....	21	146	31	106	66	177	23	45	112	278	99	25
13....	32	25	31	110	52	239	18	16	72	478	462	20
14....	18	28	51	123	69	159	15	15	42	392	117	19
15....	23	28	61	140	127	166	41	23	108	602	110	18
16....	14	52	71	116	108	119	57	44	84	376	247	19
17....	15	195	72	94	84	62	57	26	30	678	372	24
18....	11	196	76	100	51	26	24	82	65	379	358	16
19....	10	152	72	102	44	20	36	134	52	368	363	15
20....	10	147	66	102	39	17	31	311	38	1170	552	15
21....	14	152	59	102	30	11	22	424	40	413	510	23
22....	16	138	123	100	25	10	13	464	566	344	586	926
23....	12	123	231	100	25	10	14	548	697	269	510	332
24....	17	121	289	100	30	10	14	1540	512	286	283	209
25....	31	172	307	94	30	60	12	515	423	294	239	139
26....	24	156	287	92	29	353	12	123	958	224	286	105
27....	14	161	188	104	24	374	13	97	927	301	1440	108
28....	11	147	164	132	21	319	14	86	520	185	1000	309
29....	11	134	172	141	....	319	53	80	358	177	177	314
30....	10	114	143	136	....	308	46	65	369	188	152	395
31....	10	....	152	121	....	221	....	50	....	244	123	....
Total	1220	2506	3447	3600	1711	3382	1849	5321	8815	9700	9201	4409
Mean...	39.4	83.5	111	116	61.1	109	61.6	172	294	313	297	147
Max...	297	196	307	149	127	374	188	1540	958	1170	1440	926
Min...	9	9	31	92	21	10	12	15	30	84	23	15
Ac.-ft.	2420	4970	6840	7140	3390	6710	3670	10550	17480	19240	18250	8750

Total run-off for water year=109,400 acre-feet.

Discharge of Arkansas River at Las Animas, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	166	619	471	340	703	192	28	9950	2370	2320	464	136
2....	140	553	438	348	625	198	28	8420	1900	3160	418	2190
3....	105	542	332	373	564	261	98	7770	1430	2180	1100	423
4....	94	461	309	335	461	261	195	6880	1130	2510	543	177
5....	81	461	476	300	429	373	328	9020	958	2530	183	128
6....	81	466	402	260	411	237	161	6600	1030	1740	196	139
7....	85	356	316	270	344	155	202	6310	1450	713	147	126
8....	75	336	261	330	214	166	234	5920	1800	1020	597	100
9....	75	691	247	410	224	142	98	6250	6880	660	555	96
10....	59	807	240	500	205	114	56	6550	5940	454	409	118
11....	44	754	452	540	128	75	42	6400	4540	475	320	118
12....	57	828	438	560	83	67	46	6400	3380	1080	193	116
13....	46	869	373	600	61	57	348	6250	4730	508	102	217
14....	48	948	402	660	52	59	919	5160	6670	362	2390	164
15....	105	807	411	700	65	56	919	4670	5360	196	4260	72
16....	132	679	344	670	83	50	1170	3870	4350	116	4970	62
17....	69	602	290	640	96	56	774	3230	4100	287	373	59
18....	57	697	282	590	158	52	679	2160	4560	543	311	64
19....	39	666	205	550	639	46	2540	2200	4350	673	220	61
20....	41	748	155	510	511	50	6760	2370	4940	782	291	61
21....	56	862	138	400	373	44	11900	1970	5400	1340	531	74
22....	239	761	150	290	268	61	6980	2040	6740	641	362	68
23....	162	666	364	250	208	33	6880	2170	5610	497	242	121
24....	5880	558	328	300	123	20	11000	2820	4820	585	155	114
25....	2240	761	340	400	130	23	20900	3820	4220	371	109	252
26....	869	654	328	500	155	22	19400	3570	3360	399	94	362
27....	648	558	340	600	145	17	12200	3310	2840	423	74	409
28....	461	511	324	600	135	25	9490	3690	2320	713	61	287
29....	402	511	356	700	....	52	8370	3690	1730	503	139	193
30....	398	394	360	691	....	41	7720	3230	1480	418	116	186
31....	580	....	328	643	....	33	....	3940	....	428	87	....
Total	13534	19126	10200	14940	7593	3038	130565	150540	110388	28627	20012	6693
Mean...	437	638	329	482	271	98.0	4352	4856	3680	923	646	223
Max...	5880	948	476	700	703	373	20900	8850	6880	3160	4970	2190
Min...	39	336	138	250	52	17	28	1970	958	116	61	59
Ac.-ft.	26340	37940	20230	29630	15060	6030	259000	298600	219000	56780	39690	13280

Total run-off for water year=1,022,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Caddoa, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	370	22	139	239	261	40	250	610	660	446	325	
2....	322	24	133	230	211	12	250	1030	1350	502	502	438
3....	258	25	133	220	171	42	289	6110	1260	446	519	362
4....	166	27	130	202	154	60	376	3210	1530	785	289	300
5....	103	21	108	184	176	58	343	2450	1650	1070	272	225
6....	66	27	98	171	193	47	289	1420	1530	650	225	119
7....	50	28	72	150	180	51	239	988	1280	337	125	106
8....	47	27	66	150	150	47	202	768	1590	300	109	85
9....	24	26	70	158	140	44	150	664	958	221	99	79
10....	28	26	68	147	143	47	125	615	788	163	80	75
11....	25	20	66	143	143	115	122	551	700	498	80	66
12....	22	9	72	147	122	163	106	634	610	478	125	51
13....	64	28	42	136	102	193	99	654	462	972	1770	44
14....	38	34	84	158	90	202	74	664	376	777	777	39
15....	33	35	108	261	112	184	72	644	362	1740	337	38
16....	36	45	119	266	147	184	77	693	600	1680	300	36
17....	33	136	130	184	129	129	112	736	670	1040	446	39
18....	31	278	146	154	115	82	96	757	446	700	519	48
19....	27	222	128	163	103	60	90	757	546	462	748	43
20....	27	169	122	221	93	49	102	768	600	1220	2590	39
21....	26	177	122	180	72	47	93	920	494	546	2030	47
22....	25	169	116	167	61	51	80	1240	701	564	2440	884
23....	26	152	169	158	60	58	72	1200	1260	356	1560	4020
24....	24	159	423	163	55	70	84	2580	1180	350	800	3640
25....	28	169	369	163	58	90	102	1730	1000	410	586	1510
26....	34	192	319	158	53	340	167	960	1600	846	586	779
27....	30	185	278	176	49	416	325	670	1800	733	2340	461
28....	27	204	239	171	44	403	454	670	1210	722	2250	577
29....	27	185	261	202	....	356	824	766	846	510	777	683
30....	24	156	250	225	....	343	733	680	822	537	564	725
31....	23	....	225	211	....	337	....	410	....	416	362	....
Total	2064	2980	4802	5658	3390	4350	6397	36549	28831	20691	24653	15883
Mean.	66.6	99.3	155	183	121	140	213	1179	961	667	795	529
Max..	370	278	423	266	261	416	824	6110	1800	1740	2590	4020
Min..	22	9	42	136	44	40	72	410	362	163	80	36
Acre-ft.	4090	5910	9520	11220	6720	8630	12690	72490	57190	41040	48900	31500

Total run-off for water year=309,900 acre-feet.

Discharge of Arkansas River at Caddoa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	527	1320	16	387	980	394	200	12500	3460	1730	597	147
2....	458	1350	364	331	980	368	189	13400	2610	2850	668	2680
3....	349	1150	472	299	889	315	182	11000	2080	2930	1380	5730
4....	374	1000	450	278	826	342	216	11200	1640	2710	983	4370
5....	368	932	495	255	788	368	294	9360	1280	2440	603	882
6....	429	944	592	242	713	400	336	8460	1130	2080	456	882
7....	304	920	558	225	642	362	320	8260	1210	1230	356	1200
8....	274	678	567	204	550	304	407	7760	1750	866	418	816
9....	246	816	511	167	436	283	387	7660	4040	882	561	703
10....	246	956	472	178	387	265	331	7970	6460	641	544	451
11....	233	1080	400	189	349	246	251	8200	5830	550	423	438
12....	216	1150	488	242	294	225	368	8230	4310	803	330	404
13....	204	1180	558	342	246	200	567	7790	4040	874	229	409
14....	204	1210	583	458	208	208	1050	7070	5340	486	2130	442
15....	208	1170	616	458	185	200	1520	5320	5950	375	4180	414
16....	1250	1040	600	550	171	200	1630	4420	5010	257	6340	334
17....	816	1030	542	616	160	208	1800	3850	4200	207	5520	293
18....	633	1110	495	741	113	216	1660	3350	4090	471	1180	267
19....	450	1200	443	816	119	216	4050	2800	4460	533	668	254
20....	362	1180	394	858	167	192	10500	3000	4530	732	615	248
21....	349	1170	331	826	422	171	20600	2800	5080	986	1030	232
22....	534	1240	299	807	519	174	12800	2540	6700	1560	754	218
23....	1360	1070	299	778	534	196	12200	2360	7510	933	567	221
24....	4840	944	368	741	458	196	33400	2400	7690	809	442	229
25....	4060	878	407	731	429	178	30900	3440	6190	641	304	301
26....	1930	899	394	722	422	278	29500	3910	4750	544	229	404
27....	1540	807	315	722	414	387	18400	3800	3640	544	185	433
28....	1120	816	304	826	407	362	12900	3720	2880	603	160	423
29....	778	769	278	932	....	304	10400	4000	2760	725	142	316
30....	750	357	315	956	....	255	11400	3760	1950	523	147	285
31....	1110	....	368	920	....	229	....	4150	....	550	153	....
Total	26522	30366	13294	16797	12808	8242	218758	188480	122570	32065	32294	24426
Mean.	856	1012	429	542	457	266	7292	6080	4086	1034	1042	814
Max..	4840	1350	616	956	980	400	33400	13400	7690	2930	6340	5730
Min..	204	357	16	167	113	171	182	2360	1130	207	142	147
Ac.-ft.	52610	60230	26370	33320	25400	16350	433900	373800	243100	63600	64050	48450

Total run-off for water year=1,441,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Lamar, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	5.8	1.8	1.8	8.0	1.6	11	3.2	411	68	38	20	50
2.....	9.6	1.8	1.8	5.6	1.6	11	3.2	2060	1120	143	10	30
3.....	9.2	1.8	1.7	4.6	1.6	11	3.7	5170	1170	110	8.8	18
4.....	3.6	1.8	1.7	5.6	1.6	11	3.7	3090	860	215	3.2	16
5.....	2.0	1.8	1.6	31	1.6	11	3.7	2160	801	765	2.4	16
6.....	2.0	1.7	1.6	30	1.6	10	4.2	1110	820	350	2.4	12
7.....	2.0	1.7	1.5	16	1.6	9.5	3.7	686	574	113	2.2	8.0
8.....	2.0	1.7	1.5	18	1.6	8.7	3.2	425	1130	19	3.2	6.4
9.....	2.0	1.7	1.5	16	1.6	8.0	2.7	265	880	15	1.9	7.2
10.....	2.0	1.7	1.5	32	1.6	7.2	2.7	348	444	14	28	5.6
11.....	2.0	1.8	1.5	35	1.6	6.5	1.3	270	390	53	12	4.8
12.....	2.0	1.8	1.5	40	1.6	3.7	1.3	270	260	42	55	8.8
13.....	2.0	1.8	1.5	40	6.0	3.7	2.7	255	178	190	186	12
14.....	2.0	1.8	1.5	35	13	3.7	2.7	245	73	295	194	11
15.....	2.0	1.8	1.8	24	13	3.7	2.7	89	25	432	32	8.8
16.....	2.0	2.0	1.8	24	13	4.2	2.7	81	75	639	25	8.0
17.....	2.0	2.0	1.8	15	13	4.2	2.7	81	310	720	31	7.2
18.....	2.0	2.0	1.8	15	13	4.2	2.7	33	170	487	31	7.2
19.....	2.0	2.0	1.8	24	13	1.8	2.3	18	98	140	53	8.0
20.....	2.0	2.0	1.8	24	32	1.8	2.3	16	140	494	648	5.6
21.....	1.8	2.1	1.8	6.5	26	2.3	2.3	68	53	290	910	3.6
22.....	1.8	2.1	1.8	6.5	11	2.3	2.3	676	75	174	1180	2.9
23.....	1.8	2.1	1.8	6.5	11	2.3	2.3	546	606	122	747	1370
24.....	1.8	2.1	9.2	6.5	11	2.3	2.3	1550	684	35	390	1400
25.....	1.8	2.1	41	6.5	11	2.3	2.3	1710	390	28	230	840
26.....	1.8	2.2	30	6.5	11	5.1	2.3	578	508	206	113	384
27.....	1.8	2.2	16	4.2	11	2.7	2.3	270	1080	178	456	167
28.....	1.8	2.1	11	1.6	11	2.7	2.3	118	639	320	1630	140
29.....	1.8	2.1	8.0	1.6	.....	2.7	142	162	285	53	582	255
30.....	1.8	2.0	8.0	1.6	.....	2.7	705	136	100	53	315	325
31.....	1.8	.....	8.0	1.6	.....	3.2	.....	50	.....	113	240	.....
Total	80.0	57.6	169.6	492.4	238.2	166.5	943.5	22922	14004	6846	8189.2	5164.2
Mean	2.58	1.92	5.47	15.9	8.51	5.37	31.4	739	467	221	264	172
Max.	9.6	2.2	41	40	32	11	795	5170	1170	765	1630	1400
Min.	1.8	1.7	1.5	1.6	1.6	1.8	1.3	16	23	14	2.2	3.6
Ac.-ft.	159	114	336	977	472	330	1870	45470	27780	13580	16240	10240

Total run-off for water year=117,600 acre-feet.

Discharge of Arkansas River at Lamar, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	320	850	86	128	558	202	64	10300	2410	1150	34	9.2
2.....	171	880	84	230	582	167	9.6	13200	1610	1570	16	26.9
3.....	140	675	60	150	574	182	5.6	10700	1140	1970	61	4030
4.....	113	529	68	150	522	178	2.2	8800	829	1840	658	4030
5.....	96	657	210	160	480	186	1.0	9200	578	1640	257	1520
6.....	125	630	305	158	474	245	2.6	8250	450	1570	34	420
7.....	103	598	335	156	366	225	93	8000	412	1030	14	730
8.....	79	480	300	152	330	206	98	7650	990	634	10	495
9.....	59	501	250	151	280	178	134	7160	3060	510	43	176
10.....	51	830	225	145	255	164	113	7450	5980	412	52	56
11.....	40	1010	198	155	262	155	91	7650	5520	296	74	16
12.....	24	880	170	190	155	140	86	7450	4030	215	38	14
13.....	9.6	1010	235	220	116	113	170	7060	3390	495	7.6	12
14.....	21	932	245	250	77	91	474	6130	4170	160	166	16
15.....	7.9	810	270	290	60	88	910	5120	4900	70	3020	38
16.....	450	820	285	340	59	96	1060	4260	4120	38	5120	14
17.....	462	582	280	450	35	98	1460	3300	3500	30	6130	8.4
18.....	355	684	103	530	45	100	1680	2690	3370	30	2360	10
19.....	235	693	93	700	84	86	2710	2060	3480	56	775	9.2
20.....	158	622	64	1000	116	75	6570	1810	3620	110	562	7.6
21.....	140	675	36	1170	275	62	13300	1780	4170	120	586	8.4
22.....	174	830	9.6	860	285	71	14700	1610	5150	634	666	7.6
23.....	450	174	7.2	729	230	91	11500	1440	6590	360	495	8.4
24.....	1430	501	5.6	630	170	96	21800	1460	6800	88	405	7.6
25.....	4310	522	210	614	170	88	31900	1840	5840	79	257	8.4
26.....	1580	684	230	515	134	86	33400	2320	4140	66	92	7.6
27.....	976	566	198	487	116	134	23600	2430	2970	30	19	13
28.....	729	501	335	536	146	146	14200	2370	2340	52	13	20
29.....	550	378	295	590	.....	131	11500	2630	2090	56	10	14
30.....	508	550	206	590	.....	105	10100	2560	1670	56	9.2	9.2
31.....	639	.....	206	558	.....	96	.....	2390	.....	56	9.2	.....
Tot.	14579.6	20354	5634.4	12984	6896	4081	20173.4	161170	99319	15423	21993.0	11984.6
Mean	470	678	182	419	246	132	6724	5199	3311	498	709	399
Max.	4310	1010	335	1170	582	245	33400	13200	6800	1970	6130	4030
Min.	9.6	378	5.6	128	35	62	1.0	1440	412	30	7.6	7.6
Ac.-ft.	28920	40370	11180	25750	13680	8090	400100	319700	19700	30590	43620	23770

Total run-off for water year=1,143,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Holly Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	9.1	2.3	12	25	16	23	22	444	194	272	194	355
2....	9.1	2.3	13	27	16	21	30	544	520	485	95	230
3....	9.1	2.3	12	24	16	22	29	1910	950	278	76	209
4....	9.1	2.3	12	20	16	20	23	3946	950	214	64	156
5....	7.2	2.3	12	20	16	20	23	2910	1240	720	50	119
6....	5.3	2.5	12	30	21	20	18	1730	1100	730	40	108
7....	3.9	3.0	11	40	17	20	22	1140	1020	663	29	61
8....	2.1	3.4	11	50	17	16	18	800	1150	343	25	48
9....	1.4	3.9	11	40	17	17	12	520	1620	169	21	44
10....	1.0	4.4	11	40	22	18	14	411	1080	126	18	33
11....	0.5	4.8	12	41	22	24	14	430	810	88	18	26
12....	0.7	3.9	12	44	30	21	15	373	740	108	17	28
13....	0.3	4.8	5.8	44	33	12	950	343	627	204	14	25
14....	0.3	3.9	3.0	46	31	12	301	319	437	552	169	20
15....	0.3	3.4	12	46	36	12	115	307	301	1330	66	23
16....	0.5	3.0	13	44	36	8.6	71	189	325	1360	31	28
17....	0.5	3.0	8.6	37	30	6.3	60	147	245	1220	31	27
18....	0.5	3.0	7.7	29	31	6.3	54	143	301	1000	33	23
19....	0.7	3.4	13	21	29	5.8	66	139	214	790	76	18
20....	0.7	6.7	16	23	19	6.3	71	130	143	437	209	18
21....	0.7	13	18	24	21	7.2	71	126	189	960	1160	25
22....	0.7	13	18	30	22	7.7	71	130	219	392	1010	50
23....	1.2	13	20	28	25	7.7	62	930	296	313	1070	230
24....	1.8	14	18	26	26	8.2	52	860	584	235	790	2100
25....	1.2	15	18	26	23	12	37	1690	627	156	492	2590
26....	1.2	18	54	26	28	13	34	1120	411	139	307	1240
27....	1.8	17	43	26	23	15	37	544	840	313	645	860
28....	1.8	14	30	21	24	17	50	373	800	220	2560	700
29....	1.8	13	25	16	....	17	76	337	560	307	1380	552
30....	1.8	13	27	16	....	14	272	284	343	126	780	636
31....	2.3	....	26	16	....	18	....	219	....	102	513	....
Total	78.6	211.6	517.1	946	663	448.1	2690	23782	18856	14422	11983	10585
Mean.	2.54	7.05	16.7	30.5	23.7	14.5	89.7	767	629	465	387	353
Max...	9.1	18	54	50	36	24	950	3940	1630	1360	2560	2590
Min....	0.3	2.3	3.0	16	16	5.8	12	126	143	88	14	18
Acre-ft.	156	420	1030	1880	1320	889	5340	47170	37400	28610	23770	21000

Total run-off for water year=169,000 acre-feet.

Discharge of Arkansas River at Holly, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	528	1030	568	69	934	373	184	10800	2760	1700	123	167
2....	478	1240	325	98	956	296	174	10800	2190	1290	113	167
3....	337	1200	278	94	923	307	98	13000	1700	2220	292	152
4....	385	1060	319	90	880	319	91	9700	1400	2260	430	6020
5....	361	1100	464	88	840	296	81	9420	1150	1790	806	5740
6....	301	1010	513	98	750	331	115	9150	794	1820	914	1740
7....	385	989	513	130	760	450	296	8800	688	1550	410	1030
8....	361	880	506	150	645	404	471	8200	926	1580	193	1570
9....	230	760	492	155	568	355	485	7400	5350	480	236	1030
10....	214	770	450	170	568	337	536	7300	5860	480	490	677
11....	151	1090	437	210	528	319	513	7150	5010	440	655	420
12....	160	1090	379	250	424	313	444	7150	4900	304	560	328
13....	143	956	398	245	367	1030	404	5860	4170	207	292	256
14....	147	923	506	307	325	1340	471	5860	3560	440	242	190
15....	156	880	520	437	325	1140	810	5080	5010	230	490	170
16....	189	901	560	520	240	934	1110	4080	5500	161	4490	164
17....	584	880	552	576	235	560	1300	3300	4530	146	6220	146
18....	544	850	471	654	48	444	1860	2740	4140	120	6220	128
19....	457	850	319	730	139	349	1730	2500	3510	115	2140	125
20....	367	840	272	810	219	301	3790	1840	3460	115	1120	120
21....	296	860	261	945	219	256	11400	1260	3930	155	878	95
22....	284	967	261	901	343	219	15800	1260	5010	173	938	83
23....	373	912	219	934	536	209	13500	1540	5310	600	938	81
24....	1450	770	189	945	398	179	14200	1470	7550	470	699	63
25....	4680	690	301	880	367	199	28000	1330	8150	203	644	61
26....	2460	770	331	800	367	164	33000	2080	5550	186	490	67
27....	1740	810	296	770	307	160	25200	2410	3390	130	286	83
28....	1360	663	296	810	284	240	17700	2410	2760	130	238	91
29....	1190	690	331	912	....	219	12000	2410	2440	108	183	111
30....	912	750	266	1000	....	194	11500	2760	2650	87	183	120
31....	850	....	164	1000	....	184	....	2580	....	111	167	....
Total	22073	27181	11757	15778	13495	12421	197263	161640	113348	19801	32080	21195
Mean.	712	906	379	509	482	401	6575	5214	3778	639	1035	706
Max...	4680	1240	568	1000	956	1340	33000	13000	8150	2260	6220	6020
Min....	143	663	164	69	48	160	81	1260	688	87	113	61
Ac.-ft.	43780	53910	23320	31300	26770	24640	391300	320600	224800	39270	63630	12040

Total run-off for water year=1,285,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Grape Creek Near Westcliffe, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	8.0	7.0	21	.....	.....	36	145	45	164	229	82	10
2.....	7.5	8.0	18	.....	.....	46	114	130	255	220	68	10
3.....	6.5	7.5	16	.....	.....	49	88	86	249	195	58	8.5
4.....	5.0	7.5	16	.....	.....	49	89	92	326	186	51	7.5
5.....	7.0	6.5	15	.....	.....	51	77	51	302	195	46	7.5
6.....	8.5	7.5	16	.....	.....	51	65	29	257	191	45	7.5
7.....	7.0	7.5	16	.....	.....	49	34	30	257	168	40	6.5
8.....	6.0	8.0	15	.....	.....	48	32	29	319	147	38	8.0
9.....	6.5	9.0	16	.....	.....	47	28	33	330	171	48	11
10.....	8.0	9.0	15	.....	.....	43	25	51	259	206	43	11
11.....	6.5	8.0	14	.....	.....	42	23	81	311	216	35	9.6
12.....	6.0	7.0	14	.....	.....	42	21	108	210	245	57	8.0
13.....	5.5	7.0	13	.....	.....	39	19	127	206	261	50	6.5
14.....	5.5	8.5	12	.....	.....	38	16	161	176	267	40	7.5
15.....	5.5	12	11	.....	.....	39	16	150	178	279	54	8.5
16.....	5.5	15	12	.....	.....	37	15	118	233	271	56	8.0
17.....	6.0	20	13	.....	.....	36	15	111	269	184	49	7.5
18.....	6.0	16	14	.....	.....	43	15	106	321	269	47	8.5
19.....	7.5	17	15	.....	.....	95	23	120	402	281	41	9.0
20.....	6.0	16	16	.....	.....	112	46	218	442	229	36	8.5
21.....	5.5	16	18	.....	.....	152	56	253	439	224	35	8.5
22.....	5.5	16	19	.....	.....	162	75	195	622	195	35	23
23.....	6.5	14	18	.....	.....	159	133	362	541	156	34	34
24.....	6.5	13	17	.....	.....	139	118	218	517	139	28	21
25.....	6.0	12	16	.....	.....	130	48	164	630	162	21	16
26.....	6.0	10	14	.....	.....	120	36	150	582	142	18	15
27.....	7.5	12	13	.....	.....	119	39	178	487	122	15	11
28.....	8.5	13	13	.....	.....	120	95	206	451	122	13	11
29.....	7.5	18	12	.....	.....	145	105	212	358	98	13	14
30.....	7.5	21	12	.....	.....	173	75	187	275	88	13	21
31.....	7.0	.....	13	.....	.....	127	.....	150	.....	93	11	.....
Total	204.0	349.0	463	527	644	2538	1686	4151	10368	5951	1220	343.6
Mean.	6.58	11.6	14.9	17	23	81.9	56.2	134	346	192	39.4	11.5
Max.	8.5	21	21	.....	.....	173	145	362	630	281	82	34
Min.	5.0	6.5	11	.....	.....	36	15	29	164	88	11	6.5
Acre-ft.	405	692	918	1050	1280	5030	3340	8230	20560	11800	2420	682

Total run-off for water year=56,410 acre-feet.

Discharge of Grape Creek Near Westcliffe, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	18	59	33	.....	.....	27	162	229	266	199	48	31
2.....	16	52	32	.....	.....	26	233	210	257	249	90	56
3.....	45	47	34	.....	.....	25	369	249	249	180	194	42
4.....	52	45	33	.....	.....	26	294	229	249	137	243	36
5.....	34	45	23	.....	.....	27	189	210	243	128	95	38
6.....	26	43	21	.....	.....	26	176	221	260	132	72	35
7.....	26	43	26	.....	.....	21	139	263	319	178	67	36
8.....	23	36	24	.....	.....	21	136	316	396	194	58	30
9.....	21	40	25	.....	.....	22	147	364	466	173	50	26
10.....	21	39	25	.....	.....	27	112	400	374	168	63	22
11.....	19	36	24	.....	.....	26	140	436	333	137	125	24
12.....	18	36	24	.....	.....	28	152	451	364	118	62	48
13.....	19	39	24	.....	.....	31	145	333	396	104	56	56
14.....	94	35	25	.....	.....	29	136	333	371	90	51	46
15.....	88	34	26	.....	.....	26	142	266	319	76	103	39
16.....	61	34	28	.....	.....	26	126	224	270	67	63	33
17.....	50	31	*23	.....	.....	27	104	215	266	67	54	26
18.....	42	38	21	.....	.....	28	98	202	299	66	45	21
19.....	40	33	24	.....	.....	28	39	199	309	66	46	22
20.....	44	24	23	.....	.....	30	85	232	286	67	40	22
21.....	49	21	25	.....	.....	29	267	260	266	68	34	21
22.....	61	19	24	.....	.....	34	760	302	254	71	29	18
23.....	124	17	22	.....	.....	30	1740	353	246	60	26	16
24.....	99	26	23	.....	.....	49	660	407	235	57	25	14
25.....	61	34	20	.....	.....	94	880	462	180	55	26	13
26.....	61	43	17	.....	.....	90	1070	481	134	56	22	9.6
27.....	53	51	17	.....	.....	53	527	519	106	62	19	9.6
28.....	58	43	17	.....	.....	51	396	504	95	56	18	9.6
29.....	65	36	17	.....	.....	71	270	392	85	114	14	8.8
30.....	73	47	24	.....	.....	161	273	323	144	63	12	8.8
31.....	77	.....	19	.....	.....	130	.....	289	.....	52	10	.....
Total	1547	1126	743	713	504	1259	9967	9874	8037	3310	1860	817.4
Mean.	49.9	37.5	24.0	23	18	40.6	332	319	268	107	60.0	27.2
Max.	124	59	34	.....	.....	130	1740	519	466	249	243	56
Min.	16	24	17	.....	.....	21	39	199	85	52	10	8.8
Acre-ft.	3070	2230	1470	1410	1000	2500	19770	19580	15940	6570	3690	1620

Total run-off for water year=78,850 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fountain Creek Near Fountain, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	16	6.0	5.6	12	12	2.8	10	480	175	52	51	38
2....	14	6.8	3.2	12	19	4.6	15	540	150	59	32	36
3....	12	12	2.8	12	17	12	12	380	170	61	26	35
4....	8.8	30	2.8	14	16	7.0	10	303	380	72	21	37
5....	10	30	2.8	10	12	2.2	10	314	228	18	11	37
6....	11	14	2.5	12	9.4	2.8	11	252	210	16	16	39
7....	11	16	3.6	17	7.0	6.4	12	216	170	16	23	33
8....	9.2	12	3.6	16	5.2	8.8	7.6	210	165	16	24	33
9....	10	8.8	3.2	14	4.6	8.2	8.2	175	160	9.4	18	34
10....	18	16	2.2	15	8.2	9.4	3.4	258	156	3.1	15	37
11....	19	22	4.2	19	6.4	5.2	5.2	264	142	12	24	36
12....	20	19	7.6	17	2.5	4.6	5.2	205	114	42	124	37
13....	20	10	2.0	16	3.1	1.0	7.0	175	98	98	44	38
14....	21	6.0	3.5	16	3.1	3.4	11	121	95	131	26	35
15....	20	5.0	4.0	16	3.1	1.9	11	105	95	74	34	29
16....	21	8.0	6.0	16	1.9	4.0	11	81	95	74	33	31
17....	20	15	9.0	16	3.7	3.1	5.2	65	92	42	63	34
18....	21	13	9.0	17	2.2	2.5	5.2	57	83	20	149	33
19....	22	12	12	15	0.9	1.9	11	61	68	35	142	30
20....	20	12	16	13	2.8	0.9	7.6	74	65	34	70	30
21....	20	12	18	11	3.1	7.0	5.2	83	59	70	54	29
22....	20	12	14	10	1.3	3.1	3.4	314	88	44	131	51
23....	19	15	12	9.5	0.8	2.5	4.6	258	72	31	195	63
24....	18	21	12	10	1.6	12	2.5	264	59	27	70	42
25....	12	21	10	12	1.0	11	7.6	460	118	46	48	41
26....	24	18	7.6	9.5	5.8	12	5.8	420	56	83	44	36
27....	31	20	12	8.5	7.0	15	124	380	41	195	170	31
28....	22	20	15	7.0	9.4	12	1300	292	26	81	49	30
29....	6.4	16	12	6.4	....	12	1220	270	32	79	45	36
30....	5.0	12	13	2.2	....	8.8	580	216	54	153	44	42
31....	5.0	....	13	3.1	....	10	....	210	....	77	41	....
Total	506.4	440.6	244.2	384.2	170.1	198.1	3431.7	7503	3516	1770.5	1840	1093
Mean.	16.3	14.7	7.88	12.4	6.08	6.39	114	242	118	57.1	59.4	36.4
Max.	31	30	18	19	19	15	1300	540	380	195	195	63
Min.	5	5	2	2.2	0.8	0.9	2.5	57	26	3.1	11	29
Acre-ft.	1000	874	484	762	337	393	6810	14880	7030	3510	3650	2170

Total run-off for water year=41,900 acre-feet.

Drainage of Fountain Creek Near Fountain, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	43	199	54	20	50	32	86	990	277	285	35	27
2....	32	181	62	20	58	32	62	930	245	314	238	70
3....	28	187	46	28	70	28	82	694	253	261	428	32
4....	35	175	66	25	72	25	128	790	237	213	424	35
5....	48	187	58	25	72	27	134	758	245	193	128	46
6....	37	163	43	30	70	21	134	758	213	175	66	86
7....	32	199	58	32	70	18	205	710	372	151	39	46
8....	32	151	70	34	74	50	285	758	774	145	41	46
9....	30	151	70	38	70	78	213	790	476	157	187	41
10....	27	151	82	40	70	106	193	870	404	352	199	28
11....	21	145	78	40	66	128	213	758	314	245	66	28
12....	22	157	90	38	70	134	285	970	294	163	41	46
13....	27	157	101	38	66	128	323	810	404	145	86	66
14....	66	134	90	35	64	123	294	910	332	106	464	48
15....	70	106	50	30	40	96	352	678	294	90	145	37
16....	66	101	62	29	44	84	380	630	332	62	101	28
17....	66	112	37	27	28	76	332	565	294	74	74	37
18....	62	96	66	27	26	77	694	513	380	48	240	39
19....	66	106	37	28	26	110	1230	488	314	362	140	39
20....	66	92	43	29	28	115	830	416	253	78	101	48
21....	50	86	54	30	34	101	890	370	253	37	54	41
22....	50	76	54	28	35	96	1010	380	370	24	82	39
23....	213	70	54	28	35	101	1360	380	404	15	106	32
24....	213	105	46	27	35	101	1450	380	370	11	123	32
25....	221	170	38	30	35	90	1520	392	304	20	78	37
26....	229	169	37	33	37	74	1260	361	294	21	50	27
27....	253	106	36	35	35	82	1010	380	253	27	41	25
28....	245	118	32	44	35	78	990	323	205	37	35	70
29....	237	90	36	62	....	71	810	332	205	118	27	46
30....	221	82	48	58	....	70	950	294	512	78	30	39
31....	193	....	52	51	....	86	....	294	....	39	17	....
Total	3001	4022	1770	1039	1415	2441	17705	18672	9877	4046	3886	1269
Mean.	96.8	134	57.1	33.5	50.5	78.7	590	602	329	131	125	42.3
Max.	253	199	101	62	74	134	1520	990	774	362	464	86
Min.	21	70	32	20	26	18	62	294	205	11	17	27
Acre-ft.	5950	7980	3510	2060	2810	4840	35120	37040	19590	8030	7710	2520

Total run-off for water year=137,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fountain Creek at Pueblo, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	38	160	71	56	62	46	68	1010	272	298	38	75
2.....	34	150	80	50	65	46	50	1010	191	259	38	113
3.....	24	145	56	52	65	40	46	938	134	285	285	64
4.....	28	150	44	46	65	40	65	851	153	191	485	55
5.....	38	140	48	44	80	42	77	870	143	182	311	86
6.....	44	160	46	44	77	48	71	921	162	143	285	272
7.....	32	130	44	48	59	90	145	938	259	119	172	119
8.....	26	115	56	52	68	42	145	972	1000	124	134	64
9.....	16	130	74	60	62	65	135	972	644	102	86	55
10.....	18	140	62	66	59	71	115	989	548	113	70	35
11.....	21	140	77	70	53	80	112	960	455	380	67	27
12.....	24	125	87	68	50	71	155	960	298	153	55	38
13.....	22	120	77	70	68	68	238	880	485	102	40	81
14.....	38	108	87	70	62	59	217	880	380	67	1000	64
15.....	65	108	101	62	77	87	254	822	324	38	1040	81
16.....	65	112	87	56	60	98	334	732	285	20	470	58
17.....	56	104	94	54	77	87	334	644	191	12	324	40
18.....	59	108	84	52	48	74	542	644	153	8	365	38
19.....	65	94	77	*50	44	68	1280	548	191	13	696	61
20.....	68	112	77	46	51	50	1220	470	124	134	191	58
21.....	68	94	80	40	77	62	904	410	143	92	81	46
22.....	36	101	81	40	112	56	1060	440	298	40	55	22
23.....	1040	80	53	38	98	56	1280	455	324	33	49	38
24.....	430	90	74	36	74	59	1490	395	285	26	75	58
25.....	217	125	62	34	53	71	1260	425	182	20	67	58
26.....	262	125	58	68	56	71	1400	365	191	33	46	38
27.....	246	94	50	94	50	62	1150	395	124	18	33	43
28.....	254	84	46	90	46	48	838	311	92	27	24	49
29.....	238	84	*92	80	.....	48	938	246	124	58	16	38
30.....	210	71	100	44	.....	50	989	246	425	49	11	27
31.....	198	.....	80	74	.....	59	.....	298	.....	49	11	.....
Total	3980	3499	2208	1754	1821	1914	16912	21000	8580	3188	6620	1931
Mean.	128	117	71.2	56.6	65.0	61.7	564	677	286	103	214	64.4
Max..	1040	160	101	94	112	98	1490	1010	1000	380	1040	272
Min..	16	71	44	34	44	40	46	246	92	8	11	22
Acres-ft.	7890	6940	4380	3480	3610	3800	33540	41650	17020	6320	13130	3830

Total run-off for water year=145,600 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Monument Creek at Pikeview, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	7.4	7.1	13	2.2	16	9.3	13	130	45	4.5	41	24
2.....	5.4	7.9	14	2.2	18	8.1	13	172	19	9.7	34	20
3.....	8.8	4.5	14	*2.5	10	8.4	13	135	54	9.3	24	26
4.....	9.7	3.0	14	3.8	7.1	5.8	13	135	47	8.8	22	15
5.....	8.4	3.8	15	5.4	8.8	3.8	15	122	48	8.4	19	18
6.....	10	3.2	16	5.8	8.8	4.0	14	125	12	1.9	18	16
7.....	14	3.0	16	6.6	13	4.2	16	104	38	4.9	19	18
8.....	14	2.8	14	7.1	5.4	4.2	16	82	36	4.9	20	23
9.....	11	3.2	13	7.1	6.2	6.2	15	76	35	3.0	20	23
10.....	12	4.5	14	13	9.3	4.5	17	65	35	4.0	24	21
11.....	13	6.6	15	41	16	6.2	15	59	33	10	24	24
12.....	13	7.5	14	9.0	8.4	5.8	18	59	31	47	47	18
13.....	12	7.9	15	6.8	11	6.2	20	50	34	19	31	47
14.....	5.4	7.5	13	5.0	10	8.4	18	38	24	24	28	18
15.....	3.0	6.6	4.0	4.2	9.3	8.4	23	39	25	36	33	17
16.....	2.5	7.9	3.0	4.0	7.1	7.5	14	44	24	17	33	16
17.....	4.0	7.5	3.2	5.0	5.4	5.8	14	41	18	16	47	13
18.....	3.8	8.8	3.8	6.2	4.5	9.7	13	41	12	16	47	14
19.....	2.8	5.8	5.4	6.6	8.8	5.4	15	14	12	23	45	42
20.....	4.0	8.4	5.8	4.2	5.4	5.8	13	41	12	25	45	9.7
21.....	4.2	7.9	7.5	4.5	7.5	11	9.3	39	13	23	31	10
22.....	5.4	9.3	6.6	5.4	7.9	6.2	10	47	14	22	58	17
23.....	4.5	8.4	6.6	3.5	8.4	3.5	13	19	9.7	24	34	24
24.....	7.1	12	6.2	5.8	9.7	16	9.7	49	11	30	40	24
25.....	5.8	7.9	5.0	7.1	7.5	15	8.8	52	16	62	38	20
26.....	6.6	4.0	6.2	6.2	7.1	15	11	54	11	52	50	17
27.....	5.4	3.5	7.1	7.1	6.2	8.8	25	52	9.7	71	54	14
28.....	6.6	3.5	5.4	4.0	6.2	12	62	47	12	106	44	16
29.....	8.4	6.2	3.5	13	.....	11	68	45	4.5	65	34	17
30.....	7.9	12	4.2	7.5	.....	14	128	49	5.8	71	29	16
31.....	8.8	.....	3.0	9.3	.....	13	.....	47	.....	48	24	.....
Total	234.6	192.2	286.5	197.1	249.0	253.5	652.8	2129	754.7	869.4	1057	526.7
Mean..	7.57	6.41	9.24	6.36	8.89	8.18	21.8	68.7	25.2	28.0	34.1	17.6
Max...	14	12	16	13	18	16	128	172	51	106	58	24
Min...	2.5	2.8	3.0	2.2	4.5	3.5	8.8	38	4.5	3.0	18	9.7
Acre-ft.	465	384	568	391	494	503	1290	4220	1500	1720	2100	1010

Total run-off for water year=14,670 acre-feet.

Discharge of Monument Creek at Pikeview, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	14	54	45	8.8	15	12	45	459	95	55	13	21
2.....	15	50	15	7.7	16	13	39	483	63	60	120	24
3.....	17	46	17	8.5	20	13	49	393	63	50	34	24
4.....	17	44	17	8.2	20	13	56	387	90	55	36	20
5.....	23	39	17	8.3	22	14	51	321	85	52	29	17
6.....	21	38	20	*9.1	20	16	68	399	130	55	20	15
7.....	19	37	18	9.6	24	18	58	381	140	90	18	10
8.....	21	39	19	10	24	14	58	435	200	60	22	27
9.....	22	37	18	11	19	25	66	417	160	49	24	19
10.....	21	35	19	12	17	30	66	387	130	60	29	19
11.....	20	30	19	12	16	32	73	363	110	55	27	19
12.....	20	34	20	12	15	32	215	405	120	50	20	20
13.....	20	34	21	12	14	32	220	387	100	50	26	18
14.....	26	30	21	12	13	28	244	351	80	38	17	17
15.....	36	29	23	12	14	21	274	363	77	41	22	19
16.....	32	25	27	11	11	14	230	375	74	32	27	16
17.....	30	32	26	11	8.0	6.2	185	327	50	29	20	14
18.....	31	29	20	10	8.6	4.2	268	280	66	20	16	12
19.....	32	31	23	9.8	7.4	3.0	339	268	50	19	17	12
20.....	32	31	24	9.8	*8.4	3.0	351	258	66	16	17	15
21.....	31	24	21	10	12	7.5	351	246	85	24	16	17
22.....	33	17	14	10	16	13	441	230	80	27	16	13
23.....	96	13	11	*11	14	16	637	241	72	16	16	42
24.....	78	23	10	12	12	21	689	220	66	13	11	13
25.....	66	29	9.8	13	11	24	598	220	66	14	16	16
26.....	18	25	*9.4	14	10	32	471	210	50	13	14	16
27.....	46	17	8.8	*17	10	26	441	170	55	18	16	16
28.....	48	48	8.4	19	11	33	411	165	43	16	14	11
29.....	50	17	10	18	.....	32	387	160	263	21	12	6.8
30.....	51	15	12	15	.....	26	393	110	58	27	11	8.0
31.....	52	.....	11	15	.....	38	.....	100	.....	17	10	.....
Total	1068	922	524.4	358.8	408.4	611.9	7774	9511	2787	1142	709	486.8
Mean..	34.5	30.7	16.9	11.6	14.6	19.7	259	307	92.9	36.8	22.9	16.2
Max...	96	54	27	19	24	38	689	483	263	90	120	27
Min...	14	13	8.4	7.7	7.4	3.0	39	100	43	13	10	6.8
Acre-ft.	2120	1830	1040	712	810	1210	15420	48860	5530	2270	1410	966

Total run-off for water year=52,180 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Charles River Near Pueblo, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							131	689	514	65	4.6	68
2							136	666	505	97	6.6	40
3							*159	643	420	62	226	20
4							190	*620	436	34	191	14
5							205	681	356	36	71	14
6							255	700	300	22	42	17
7							288	720	469	18	16	15
8							255	*742	590	16	9.4	12
9							312	800	372	20	11	8.6
10							*274	850	340	51	10	7.0
11							294	910	276	122	14	8.6
12							366	*968	246	37	19	13
13							381	802	276	20	14	19
14							400	636	203	17	428	15
15							533	*471	177	12	189	15
16							564	452	162	9.4	53	11
17							*408	434	226	11	40	11
18							404	416	169	9.4	25	10
19							2180	*398	156	29	40	14
20							1850	440	168	39	86	16
21							1930	482	191	24	64	12
22							2010	*525	134	16	13	12
23							*2090	672	121	11	12	11
24							1790	771	113	10	13	9.0
25							*1490	870	87	9.0	11	6.6
26							1290	894	92	9.0	8.6	6.2
27							1080	859	78	21	8.6	8.6
28							*874	661	59	9.0	5.4	11
29							*813	672	36	6.0	3.4	9.8
30							751	610	84	6.4	5.0	9.8
31								444		6.0	6.2	
Total							23703	20498	7356	854.2	1645.8	444.2
Mean							790	661	245	27.6	53.1	14.8
Max.							2180	968	590	122	428	68
Min.							131	398	36	6.0	3.4	6.2
Acre-ft.							47010	40660	14530	1690	3300	881

Total run-off for period=108,100 acre-feet.

*Discharge measurement made on this day.

Discharge of Chico Creek Near North Avondale, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0.5	0	43	0	792
2								2.0	0	28	15	74
3								0	0.2	16	3.0	12
4								12	0	2.0	0	0
5								12	0	0	0	3.0
6								0.9	0	3.0	0	0
7								0.9	0	12	0	0
8								0	0.2	5.0	0	0
9								0	0.2	0.8	0	0
10								0	6.0	0	0	0
11								0	6.0	0	0	0
12								Apr. 14	3.0	10	0	0
13								to 30	5.0	7.0	0	0
14								0.2	0.9	0.2	0	97
15								3.0	0.4	9.0	0	34
16								0.4	0	26	0	7.0
17								0.2	0.2	17	0	2.0
18								31	0	0.2	0	0.1
19								189	0	0	34	0
20								26	0	10	8.0	0
21								0.2	0	0.3	4.0	0
22								0	0	0	0.1	0
23								126	0	7.0	0	0
24								530	0	5.0	0	1.0
25								40	0	7.0	0	0.6
26								2.0	0	20	0	2.0
27								6.0	0	12	0	3.0
28								16	0.2	2.0	0	2.0
29								6.0	0	66	0	2.0
30								3.0	0	124	0	0.8
31									0		0	
Total							979.0	38.0	335.3	155.9	158.1	897.4
Mean							57.6	1.23	11.2	5.03	5.10	29.9
Max.							530	12	124	43	97	792
Min.							0	0	0	0	0	0
Acre-ft.							1940	75	665	309	314	1780

Total run-off for period=5,080 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Huerfano River at Manzanares Crossing Near Redwing, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	24	11	13	13	10	5.5	17	48	230	174	52	32
2....	21	11	14	12	9.4	4.8	15	58	220	171	66	31
3....	19	9.5	14	12	9.9	5.5	15	67	237	173	64	30
4....	18	8.5	14	11	10	7.0	15	66	244	176	58	30
5....	22	9.5	14	11	11	7.5	17	67	233	182	61	30
6....	24	9.0	14	11	9.0	7.5	15	86	226	173	60	30
7....	22	9.0	14	11	7.8	10	15	102	251	158	56	32
8....	22	9.5	14	12	8.8	12	15	130	240	155	54	35
9....	22	9.0	14	13	9.8	12	15	162	206	155	56	36
10....	23	9.0	12	13	11	11	16	206	223	149	56	32
11....	22	8.0	11	14	*11	10	15	226	177	155	58	30
12....	22	7.2	9.7	14	10	18	19	276	165	152	58	29
13....	22	7.4	8.0	13	8.0	12	21	288	165	143	58	31
14....	22	6.8	7.5	12	7.0	11	19	254	171	134	60	45
15....	22	7.6	7.2	10	7.2	10	20	247	193	140	62	39
16....	21	8.1	8.8	10	7.6	7.5	20	233	213	124	62	37
17....	20	8.7	11	11	7.4	7.0	20	240	247	120	64	35
18....	20	8.3	12	12	7.0	10	20	240	258	120	76	34
19....	21	8.0	13	12	6.4	11	20	216	276	117	56	33
20....	20	9.2	13	11	6.2	11	18	209	276	140	56	39
21....	20	9.0	14	10	6.2	12	17	190	276	146	52	47
22....	20	8.5	16	9.8	6.0	13	17	184	230	124	51	61
23....	19	8.8	18	9.2	5.8	12	17	159	251	112	46	68
24....	17	9.5	17	9.6	5.6	12	18	153	251	100	41	54
25....	17	9.0	16	*10	5.2	11	22	177	272	89	40	45
26....	16	10	16	10	5.1	14	22	233	251	95	38	42
27....	15	11	15	9.5	5.0	14	18	247	209	87	38	40
28....	14	12	15	9.8	5.0	14	30	258	226	81	35	40
29....	14	12	14	10	....	17	39	244	213	76	34	62
30....	14	13	14	10	....	15	43	223	174	80	34	62
31....	12	....	13	11	....	15	....	213	....	66	33	....
Total	607	277.1	406.2	346.9	218.4	339.3	590	5702	6804	4067	1635	1191
Mean...	19.6	9.24	13.1	11.2	7.80	10.9	19.7	184	227	131	52.7	39.7
Max....	24	13	18	14	11	18	43	288	276	182	76	68
Min....	12	6.8	7.2	9.2	5	4.8	15	48	165	66	33	29
Acres-ft.	1200	550	806	688	433	673	1170	11310	13500	8070	3240	2360

Total run-off for water year=44,000 acre-feet.

Discharge of Huerfano River at Manzanares Crossing Near Redwing, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	60	38	32	16	16	20	17	76	200	92	50	47
2....	49	39	28	15	16	20	17	86	196	83	65	50
3....	48	37	23	13	17	19	17	84	200	77	104	32
4....	49	35	*21	12	18	18	17	91	192	75	75	31
5....	40	35	20	10	18	18	17	86	185	75	61	32
6....	36	33	23	11	18	18	18	121	185	77	56	28
7....	32	31	25	12	18	18	18	191	171	81	58	23
8....	31	31	25	13	18	18	18	314	164	83	53	22
9....	30	29	24	13	16	17	*18	352	164	86	47	21
10....	30	28	24	15	13	17	18	365	157	81	45	20
11....	29	28	24	15	14	19	21	428	168	81	45	74
12....	25	28	25	15	14	19	24	333	168	81	45	63
13....	30	28	25	15	14	20	30	264	171	75	41	50
14....	46	28	24	14	15	21	35	182	164	75	42	37
15....	43	26	21	14	15	21	41	168	132	75	42	32
16....	39	26	22	13	14	19	46	160	129	72	41	29
17....	39	26	*19	13	12	18	47	157	135	68	37	26
18....	38	26	18	12	11	17	48	154	151	72	38	24
19....	35	28	19	12	13	17	52	164	151	68	40	26
20....	33	26	20	12	14	16	54	174	138	65	36	23
21....	38	23	22	12	15	16	58	178	126	59	33	20
22....	38	22	20	*12	18	16	60	323	121	56	32	21
23....	45	23	17	13	17	17	62	289	121	50	29	21
24....	43	25	18	14	17	17	63	392	116	48	26	18
25....	45	28	19	14	15	17	67	406	99	50	29	18
26....	40	31	17	13	14	17	71	429	92	47	29	18
27....	42	34	16	15	*15	17	69	285	88	44	28	19
28....	42	35	16	15	18	16	78	276	83	44	25	14
29....	41	36	17	15	....	16	86	239	77	48	26	14
30....	40	34	17	*15	....	16	80	223	83	45	24	16
31....	39	....	17	16	....	16	....	208	....	45	23	....
Total	1215	897	658	419	433	551	1267	7248	4327	2078	1325	869
Mean...	39.2	29.9	21.2	13.5	15.5	17.8	42.2	234	144	67.0	42.7	29.0
Max....	60	39	32	16	18	21	86	429	200	92	104	74
Min....	25	22	16	10	11	16	17	76	77	44	23	14
Acres-ft.	2410	1780	1310	831	859	1090	2510	14380	8580	4120	2630	1720

Total run-off for water year=42,220 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Huerfano River at Badito, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0	4.4	8.2	20	17	4.7	1.0	36	256	96	51	9.0
2.....	0.1	1.8	8.2	18	12	4.7	1.7	44	464	88	37	10
3.....	0	0.3	8.7	17	12	0	1.9	47	244	85	41	12
4.....	0	0.6	7.9	16	13	4.0	2.4	47	274	86	39	14
5.....	0	0.5	7.1	15	17	4.9	1.1	47	308	84	32	18
6.....	0.8	0.8	6.0	20	12	5.6	2.1	61	265	74	26	25
7.....	1.7	1.0	6.3	22	6.5	3.7	1.5	104	259	76	28	17
8.....	0.9	3.5	3.4	25	7.1	4.0	1.7	138	214	85	22	17
9.....	0.3	1.2	6.0	27	9.0	0	1.8	250	271	109	32	15
10.....	0.4	1.9	5.8	30	15	4.4	0.6	265	327	76	38	13
11.....	0.7	5.8	3.0	32	7.3	0	3.2	390	274	57	33	12
12.....	1.9	9.6	6.5	25	5.6	15	3.9	422	256	71	34	13
13.....	0.9	6.5	1.5	22	5.1	5.4	6.0	492	268	94	33	14
14.....	0.4	3.5	1.0	21	2.7	4.4	7.6	605	244	90	42	14
15.....	0.2	4.0	1.2	19	5.1	3.7	7.6	534	259	98	50	14
16.....	0.1	5.0	2.5	16	6.8	2.4	9.0	492	292	115	44	17
17.....	0.2	5.6	4.0	18	6.0	1.2	11	460	334	102	48	17
18.....	0	1.7	5.0	21	5.6	0.9	13	460	311	100	76	15
19.....	0.1	1.0	7.0	28	4.9	0.8	14	408	280	102	45	14
20.....	0.2	13	9.5	32	5.4	0.9	21	380	238	85	30	13
21.....	0	5.8	12	15	4.9	1.4	18	356	346	102	53	17
22.....	0	1.4	20	11	4.4	1.4	19	359	207	84	68	39
23.....	0	2.5	30	10	4.2	1.7	23	397	138	67	40	41
24.....	0	8.2	35	13	4.4	1.9	20	235	138	49	33	34
25.....	0	6.3	30	*16	6.0	2.8	22	235	136	88	34	27
26.....	0	6.0	26	20	6.0	1.0	23	238	131	85	34	22
27.....	0.4	5.6	*31	24	7.6	0.9	23	262	117	79	32	15
28.....	0.9	7.1	26	27	4.4	0.7	25	334	114	66	28	16
29.....	1.4	8.2	23	22	....	0.9	37	376	112	67	19	33
30.....	3.2	9.0	25	19	....	1.0	37	314	109	88	14	50
31.....	2.4	....	23	18	....	1.7	....	265	....	79	9.5	....
Total	17.2	131.8	389.8	639	217.0	86.1	359.1	9053	7186	2627	1145.5	587.0
Mean.	0.55	4.39	12.6	20.6	7.75	27.8	12.0	292	240	84.7	37.0	19.6
Max..	3.2	13	35	32	17	15	37	605	464	115	76	50
Min..	0	0.3	1.0	10	4.2	0	0.6	36	109	49	9.5	9.0
Acres-ft.	34	261	773	1270	430	171	712	17960	14250	5210	2270	1160

Total run-off for water year=44,500 acre-feet.

*Discharge measurement made on this day.

Discharge of Huerfano River Near Badito, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	36	45	42	26	30	52	10	394	762	148	38	21
2.....	33	46	39	25	33	53	10	402	648	122	82	31
3.....	35	45	38	25	36	44	18	442	432	81	120	45
4.....	30	42	36	28	34	48	22	464	386	67	74	53
5.....	25	46	26	26	36	49	21	510	320	69	39	38
6.....	24	41	30	28	28	44	40	580	245	67	29	30
7.....	23	37	38	29	37	43	35	684	298	67	33	40
8.....	21	35	37	31	35	44	28	816	254	66	33	42
9.....	20	41	39	33	33	44	28	792	218	66	33	41
10.....	19	39	30	35	33	40	23	822	195	74	60	46
11.....	17	39	42	37	30	40	32	804	170	67	91	36
12.....	17	38	40	35	33	39	44	864	150	60	41	26
13.....	16	38	38	37	33	36	42	888	141	54	33	23
14.....	33	35	37	35	35	35	63	590	178	46	47	26
15.....	32	35	38	34	33	30	165	496	162	41	68	26
16.....	28	33	45	37	30	30	108	555	132	36	64	25
17.....	26	30	41	36	28	29	68	510	106	32	67	21
18.....	27	33	30	34	27	28	69	437	108	28	64	21
19.....	30	32	35	33	29	29	84	370	100	25	55	20
20.....	27	29	35	36	40	26	98	565	91	37	47	22
21.....	35	28	41	38	42	24	130	840	105	31	43	24
22.....	36	29	36	39	45	26	168	984	94	29	37	24
23.....	54	32	22	40	40	22	505	672	88	25	31	22
24.....	50	40	29	40	38	20	585	906	79	22	28	21
25.....	48	53	32	39	39	18	330	780	74	28	28	18
26.....	46	58	25	36	42	17	270	515	64	35	27	17
27.....	51	55	23	39	44	18	274	816	58	36	25	15
28.....	49	53	23	40	51	15	284	816	53	36	24	15
29.....	48	49	24	39	....	14	342	684	52	34	24	14
30.....	48	42	28	29	....	14	450	720	285	34	19	14
31.....	46	....	30	26	....	11	....	648	....	33	14	....
Total	1030	1198	1049	1045	994	982	4346	20366	6048	1596	1418	817
Mean.	33.2	39.9	33.8	33.7	35.5	31.7	145	657	202	51.5	45.7	27.2
Max..	54	58	45	40	51	53	585	984	762	148	120	53
Min..	16	28	22	25	27	11	10	370	52	22	14	14
Acres-ft.	2040	2380	2080	2070	1970	1950	8620	40400	11990	3160	2810	1620

Total run-off for water year=81,090 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Huerfano River Near Mustang, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.						36	7.0	446	551	57	3.2	41
2.					Feb. 4	37	5.6	481	544	62	12	37
3.					to 28	32	5.6	614	432	56	31	35
4.						57	32	6.0	495	509	51	22
5.						51	32	6.4	516	572	49	29
6.						44	28	9.0	678	378	35	31
7.						50	33	16	838	530	46	29
8.						54	35	24	774	324	40	24
9.						46	39	32	766	384	40	28
10.						43	43	41	830	238	47	37
11.						45	41	49	734	230	40	28
12.						47	37	70	656	243	36	24
13.						49	40	96	694	198	28	24
14.						47	37	129	702	187	25	1630
15.						42	34	192	537	108	17	217
16.						37	40	288	509	131	18	115
17.						32	35	210	551	117	7.8	98
18.						30	30	225	671	100	8.6	81
19.						30	31	446	726	85	8.0	69
20.						33	30	342	766	69	7.6	59
21.						35	24	276	734	74	6.8	53
22.						39	22	318	718	69	6.8	46
23.						34	20	425	846	61	2.9	42
24.						31	17	702	814	62	2.4	37
25.						30	14	607	910	47	1.7	32
26.						31	14	572	830	46	4.6	29
27.						33	13	516	838	39	4.9	28
28.						35	11	397	790	47	5.3	27
29.							9.2	467	742	44	3.7	26
30.							8.4	586	614	47	2.9	25
31.							7.8		446		3.0	24
Total					1005	862.4	7065.6	21266	6466	724.0	2960.2	766.0
Mean.					40.2	27.8	236	686	216	23.4	95.5	25.5
Max.					57	43	702	910	572	62	1630	46
Min.					30	7.8	5.6	446	39	1.7	3.2	6.0
Acre-ft.					1990	1710	14010	42180	12830	1440	5870	1520

Total run-off for period=81,550 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Huerfano River Near Undercliffe, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	22	0	11	13	14	1.8	34	21	1050	52	31	0.1
2.....	8.9	0	11	12	13	1.2	40	45	952	54	25	0.1
3.....	4.9	0	11	10	15	0.5	28	102	545	61	23	0.1
4.....	3.8	0	11	8	15	0.5	12	110	446	12	14	0.1
5.....	2.9	0	9.8	10	16	0.9	9.8	115	490	15	9.9	0.1
6.....	2.5	0	9.5	15	4.6	1.8	8.4	139	501	19	5.8	0.1
7.....	2.0	0	8.9	20	3.0	2.4	6.2	176	402	22	4.0	0.1
8.....	1.8	0	8.6	19	3.4	2.4	5.8	246	424	17	6.2	0.1
9.....	1.5	0	8.3	16	3.8	1.8	3.0	380	372	19	6.2	0.1
10.....	1.1	0.1	8.0	17	2.8	0.8	2.2	479	332	26	6.3	0.7
11.....	1.1	0.1	2.0	13	3.0	1.6	1.0	600	340	30	8.3	1.3
12.....	1.1	0.1	0	17	3.4	4.6	1.2	691	288	81	3.3	1.5
13.....	1.1	0.1	0	12	3.0	3.8	0.8	808	224	63	2.5	1.6
14.....	1.0	0.1	0	8	5.8	9.8	0.8	756	270	168	22	1.7
15.....	1.0	0.1	0	7	6.6	10	0.8	899	224	82	2.5	1.8
16.....	0.8	0	*0	*6	7.7	7.7	1.2	873	212	63	24	2.1
17.....	0.7	0.2	0.5	5	9.1	5.8	0.8	743	236	44	26	2.3
18.....	0.7	0.2	1.0	6	6.2	5.8	5.4	589	212	39	107	2.4
19.....	0.6	0	1.5	7	3.0	2.4	5.5	652	216	52	84	2.7
20.....	0.5	0	2.0	6	3.8	1.2	6.9	678	196	20	26	2.8
21.....	0.4	0	2.5	3	3.4	3.0	5.6	704	239	23	22	6.6
22.....	0.3	0.6	3.0	6	3.8	6.2	5.1	678	125	30	41	4.4
23.....	0.2	1.5	4.0	17	2.8	6.2	5.8	782	184	16	34	3.6
24.....	0.2	1.5	5.1	19	2.2	5.0	5.1	782	200	17	15	3.5
25.....	0.2	1.5	6.2	31	2.6	5.0	4.5	534	212	26	10	3.2
26.....	0.2	1.2	7.0	32	2.0	13	44	652	156	51	8.6	3.9
27.....	0.1	1.4	6.6	28	1.8	2.6	43	860	184	56	5.5	5.4
28.....	0	2.0	5.6	26	2.0	33	35	925	125	75	2.9	7.2
29.....	0	4.2	6.8	18	.....	3.8	20	886	108	132	1.1	1.1
30.....	0	6.0	6.4	17	.....	3.1	21	834	96	110	0.3	1.1
31.....	0	.....	10	15	.....	2.8	.....	756	.....	230	0.1	.....
Total	61.5	20.9	167.30	439.0	162.8	261.2	709.4	17495	9561	1705	652.2	81.6
Mean.	1.99	0.70	5.40	14.2	5.81	8.43	23.6	564	319	55.0	21.0	2.72
Max...	22	6.0	11	32	16	38	69	925	1050	230	107	11
Min...	0	0	0	3	1.8	0.5	0.8	21	96	12	0.1	0.1
Acre-ft.	122	41	332	871	323	518	1410	34700	18960	3380	1290	162

Total run-off for water year=62,110 acre-feet.

Discharge of Huerfano River Near Undercliffe, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	13	55	27	23	34	27	65	1340	1020	145	33	75
2.....	10	55	27	22	38	29	60	1090	676	84	35	77
3.....	10	55	24	22	40	29	51	1050	470	77	151	78
4.....	11	55	27	23	43	31	49	977	470	61	70	80
5.....	12	56	36	21	43	25	55	1280	454	56	34	88
6.....	11	55	39	23	37	22	80	1540	422	52	18	94
7.....	11	55	41	24	29	25	122	1520	503	44	43	81
8.....	10	57	40	25	25	28	123	1900	580	35	58	80
9.....	10	59	39	27	24	36	122	1960	514	26	66	75
10.....	11	55	33	35	20	53	131	2010	372	29	76	72
11.....	11	55	33	45	14	59	140	1900	366	36	61	73
12.....	15	53	34	46	9.2	69	179	2070	310	32	80	78
13.....	15	51	30	45	8.8	65	213	1570	264	24	86	78
14.....	20	48	28	43	8.2	61	234	1380	264	24	1830	81
15.....	22	46	29	43	7.8	58	354	1300	206	26	1520	77
16.....	25	43	41	43	7.4	54	514	1130	147	26	184	65
17.....	27	42	38	*30	7.0	43	503	958	112	23	118	52
18.....	28	39	36	30	*6.6	36	692	1030	105	16	113	53
19.....	22	39	32	33	7.0	35	3700	939	99	16	108	55
20.....	19	37	32	38	12	38	4400	1200	88	23	98	53
21.....	33	33	31	48	18	41	2930	1150	88	20	86	52
22.....	54	29	28	72	27	41	2930	1170	89	20	80	55
23.....	52	28	28	79	24	43	4140	1130	78	18	75	56
24.....	37	33	27	67	20	43	3120	1300	65	21	74	58
25.....	41	37	23	55	20	49	2050	1680	55	29	70	55
26.....	46	32	22	47	21	51	2310	1740	55	29	68	50
27.....	47	28	22	45	24	55	2050	1630	62	32	64	50
28.....	48	28	24	42	26	54	1940	1570	74	33	62	46
29.....	46	29	26	33	.....	60	1940	1400	92	35	62	46
30.....	52	27	25	31	.....	65	2010	1200	110	35	63	40
31.....	56	.....	24	29	.....	70	.....	1050	.....	33	60	.....
Total	825	1314	946	1189	601.0	1393	37217	43164	8220	1160	5546	1973
Mean.	26.6	43.8	30.5	38.4	21.5	44.9	1241	1392	274	37.4	179	65.8
Max...	56	59	41	79	43	70	4400	2070	1030	145	1830	94
Min...	10	27	22	21	6.6	22	49	939	55	16	18	40
Acre-ft.	1640	2610	1880	2360	1190	2670	73820	85610	16300	2300	11000	3910

Total run-off for water year=205,400 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cucharas River Near La Veta, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	9.5	8.0	10	8.0	7.2	8.0	21	81	243	105	40	15
2.....	7.6	9.0	9.5	8.0	6.4	7.2	18	108	223	98	34	14
3.....	7.2	8.5	9.5	8.0	6.4	7.2	18	125	222	91	33	11
4.....	7.2	8.5	9.0	11	8.0	7.6	17	114	216	88	31	12
5.....	10	7.6	8.0	12	8.5	8.5	18	102	206	92	32	11
6.....	11	8.5	8.5	10	8.0	8.5	21	114	200	88	31	12
7.....	8.5	7.6	9.0	12	8.5	10	20	128	200	82	28	11
8.....	8.5	8.0	8.5	15	10	14	20	136	191	80	27	13
9.....	8.5	8.0	9.0	14	9.5	10	20	170	174	78	28	15
10.....	10	7.6	9.0	12	8.0	12	23	192	153	78	27	14
11.....	10	5.6	9.5	13	7.2	10	23	223	138	79	28	12
12.....	9.5	5.2	9.5	9.0	7.6	12	27	240	127	75	46	11
13.....	9.0	5.3	8.0	7.6	7.6	10	29	275	123	72	33	12
14.....	9.5	6.0	6.4	8.5	6.8	8.5	26	261	126	74	29	14
15.....	9.5	8.0	5.4	8.0	8.0	8.5	24	234	135	75	27	11
16.....	9.0	9.5	5.0	10	8.0	8.5	25	204	141	68	26	12
17.....	8.0	8.0	6.2	12	8.5	9.0	29	178	156	67	39	12
18.....	8.5	8.0	9.0	12	7.6	10	28	188	170	63	34	11
19.....	8.5	7.6	9.6	8.5	7.6	12	27	206	172	59	28	11
20.....	8.5	8.0	10	7.2	8.5	15	23	189	163	57	29	12
21.....	8.5	7.6	10	6.4	8.5	14	23	167	153	61	26	15
22.....	8.5	8.0	11	6.4	8.5	14	20	204	152	54	24	32
23.....	8.5	7.6	12	5.6	9.0	12	23	237	142	50	23	23
24.....	8.0	11	10	6.4	8.5	12	26	235	139	53	21	18
25.....	9.0	10	8.5	6.0	8.0	11	36	251	136	58	19	15
26.....	9.5	9.0	8.0	5.6	9.0	17	51	274	135	63	18	14
27.....	9.5	9.0	8.5	5.6	8.0	15	69	269	127	57	19	13
28.....	9.0	12	8.0	6.4	8.0	13	77	266	124	63	17	13
29.....	8.5	9.5	8.0	6.4	.....	14	77	274	117	45	16	18
30.....	8.5	12	8.0	6.0	.....	17	74	258	109	44	17	17
31.....	8.0	.....	8.0	6.8	.....	20	.....	250	.....	44	15	.....
Total	273.5	248.2	267.6	273.4	225.4	355.5	933	6156	4813	2161	845	427
Mean.	8.82	8.27	8.63	8.82	8.05	11.5	31.1	199	160	69.7	27.3	14.2
Max..	11	12	12	15	10	20	77	275	243	105	46	32
Min..	7.2	5.2	5.0	5.6	6.4	7.2	17	81	109	44	15	11
Acre-ft.	542	492	531	542	447	705	1850	12210	9550	4290	1680	847

Total run-off for water year=33,690 acre-feet.

Discharge of Cucharas River Near La Veta, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	15	20	11	7.0	9.0	9.0	10	146	228	67	21	39
2.....	14	20	11	6.0	9.2	11	11	148	222	65	28	28
3.....	16	17	13	5.6	9.5	11	17	155	224	61	34	19
4.....	16	17	11	5.0	9.7	10	21	182	227	61	26	16
5.....	14	18	12	5.0	9.8	9.5	25	215	220	58	21	16
6.....	11	17	11	6.0	10	9.5	25	220	206	57	19	15
7.....	11	15	13	7.0	10	9.5	21	226	209	56	20	14
8.....	11	15	12	8.0	9.5	9.7	18	234	179	56	20	12
9.....	11	15	13	8.8	9.0	10	18	251	172	60	18	12
10.....	11	14	11	8.6	9.2	10	29	358	164	60	17	10
11.....	12	14	10	8.6	9.2	10	60	330	156	53	21	14
12.....	12	15	13	8.4	9.2	10	72	304	155	49	20	14
13.....	15	14	14	8.2	9.0	10	73	242	156	45	18	12
14.....	23	13	11	8.2	8.8	10	105	215	150	42	23	13
15.....	21	14	11	8.5	8.7	9.0	109	190	139	42	24	13
16.....	18	13	10	8.6	8.5	9.0	91	182	129	40	23	13
17.....	20	12	10	8.5	7.8	9.0	79	188	127	40	21	10
18.....	21	12	10	8.4	6.0	9.0	86	184	124	37	20	11
19.....	18	9.5	11	8.2	7.0	9.0	102	185	123	35	20	15
20.....	17	16	12	8.2	8.5	9.0	120	206	122	38	19	14
21.....	20	19	9.5	*8.2	9.2	9.0	105	188	120	35	19	11
22.....	20	12	9.0	8.6	10	9.0	179	191	110	36	20	11
23.....	31	13	8.5	8.6	9.2	8.0	283	251	109	31	19	12
24.....	36	13	7.0	8.6	8.8	8.0	206	285	104	28	15	11
25.....	32	14	6.0	8.6	9.0	8.0	159	295	94	30	15	9.5
26.....	26	14	6.2	8.6	8.0	9.0	155	307	87	25	14	11
27.....	22	12	6.3	8.6	*8.5	9.0	164	311	81	22	12	11
28.....	24	14	6.8	8.7	9.0	9.0	173	274	74	22	10	9.0
29.....	25	14	6.8	8.7	.....	9.4	186	266	67	22	9.5	8.5
30.....	23	12	6.8	8.7	.....	9.6	178	255	66	21	9.0	9.5
31.....	20	.....	6.8	*8.7	.....	9.6	.....	240	.....	20	11	.....
Total	586	437.5	309.7	245.4	249.3	290.8	2880	7224	4344	1314	586.5	413.5
Mean.	18.9	14.6	9.99	7.92	8.90	9.38	96.0	233	145	42.4	18.9	13.8
Max..	36	20	14	8.8	10	11	283	358	228	67	34	39
Min..	11	9.5	6.0	5.0	6.0	8.0	10	146	66	20	9.0	8.5
Acre-ft.	1160	868	614	487	494	577	5710	14330	8620	2610	1160	820

Total run-off for water year=37,450 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Apishapa River Near Aguilar, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.2	0	0.2	0.3	0.2	0.4	11	74	46	8.8	1.5	3.3
2....	0.2	0	0.2	0.4	0.4	0.4	11	123	42	7.4	3.3	2.5
3....	0.1	0	0.2	0.5	0.4	0.2	12	135	52	5.5	2.5	1.2
4....	0.1	0	0.2	1.2	0.4	0.2	8.1	200	67	4.4	3.9	1.8
5....	0	0	0.2	0.4	0.4	1.9	6.2	255	64	4.4	1.0	3.3
6....	0	0	0.2	0.2	0.8	1.9	6.8	238	59	3.3	4.4	3.9
7....	0	0	0.2	0.2	0.8	1.2	6.8	200	51	2.5	2.8	2.8
8....	0	0	0.2	0.2	0.5	0.4	5.0	175	50	1.5	2.2	2.8
9....	0	0	0.2	0.2	0.4	0.8	1.2	182	42	0.5	1.1	1.5
10....	0	0	0.2	0.2	0.4	1.5	2.8	190	40	6.2	1.2	2.2
11....	0	0.1	0.2	0.2	0.4	0.4	6.2	159	37	5.0	0.8	1.8
12....	0	0.1	0.2	0.2	0.2	4.6	11	157	31	23	48	1.5
13....	0	0.2	0.2	0.2	0.2	3.2	6.2	180	30	8.1	19	1.1
14....	0	0.4	0.2	0.2	0.2	5.1	7.4	161	33	8.8	14	1.0
15....	0	0.4	0.2	0.2	0.2	5.1	12	115	51	48	15	0.8
16....	0	0.2	0.2	0.2	0.2	4.1	11	92	62	45	21	0.7
17....	0	0.2	0.2	0.2	0.2	3.6	9.4	80	350	28	14	1.1
18....	0	0.2	0.2	0.2	0.2	4.1	7.4	77	153	24	17	1.1
19....	0	0.2	0.2	0.2	0.2	2.2	14	74	73	17	15	1.2
20....	0	0.2	0.3	0.2	0.2	2.2	18	72	56	18	17	1.1
21....	0	0.2	0.4	0.2	0.2	7.4	17	59	50	18	22	1.2
22....	0	0.2	0.3	0.2	0.2	8.8	17	63	42	18	2.2	1.5
23....	0	0.2	0.3	0.2	0.2	6.8	29	65	32	8.1	5.0	2.3
24....	0	0.2	0.3	0.2	0.2	7.4	23	65	28	7.4	5.0	1.5
25....	0	0.2	0.2	0.2	0.2	4.4	27	64	33	18	5.5	1.4
26....	0	0.2	0.3	0.2	0.2	11	36	72	25	48	5.5	1.4
27....	0	0.2	0.4	0.2	0.2	8.1	60	73	21	46	15	1.6
28....	0	0.2	0.3	0.2	0.2	8.8	76	56	18	41	0	1.8
29....	0	0.2	0.3	0.2	....	6.2	76	54	14	41	2.8	2.2
30....	0	0.2	0.3	0.2	....	6.2	65	54	11	39	0	1.9
31....	0	....	0.3	0.2	....	7.4	....	50	....	24	0	....
Total	0.6	4.2	7.5	8.0	8.5	126.0	599.5	3614	1663	577.9	267.7	193.9
Mean.	0.02	0.14	0.24	0.26	0.30	4.06	20.0	117	55.4	18.6	8.63	6.46
Max..	0.6	0.4	0.4	1.2	0.8	11	76	255	350	48	48	23
Min..	0	0	0.2	0.2	0.2	0.2	1.2	50	11	0.5	0	0.7
Acre-ft.	1.2	8.3	15	16	17	250	1190	7170	3300	1150	531	385

Total run-off for water year=14,030 acre-feet.

Discharge of Apishapa River Near Aguilar, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	19	8.4	6.8	0.9	4.4	10	39	228	69	41	20	17
2....	18	11	5.0	0.8	6.2	13	41	208	60	36	18	21
3....	19	13	5.5	0.8	3.9	15	51	214	51	34	16	18
4....	14	13	6.8	0.8	5.0	14	52	257	44	40	14	17
5....	10	13	5.0	0.8	5.0	13	53	324	36	46	14	19
6....	6.2	11	3.3	1.2	2.8	13	60	328	33	20	14	20
7....	6.2	9.4	3.3	1.6	4.4	14	58	304	34	16	11	17
8....	6.2	6.2	3.3	2.5	7.4	16	53	286	35	22	8.7	15
9....	5.5	8.8	3.3	4.0	7.4	20	50	242	38	32	6.3	12
10....	5.0	6.8	3.3	6.0	4.4	11	51	211	37	40	5.7	9.4
11....	5.0	8.8	4.4	8.3	2.9	11	65	201	34	16	5.4	9.8
12....	3.9	7.4	5.5	9.8	2.5	11	81	186	30	13	4.2	9.4
13....	3.3	6.8	3.9	9.3	2.1	15	96	154	29	12	4.2	8.7
14....	10	8.8	3.9	8.6	1.7	13	100	136	31	12	23	7.5
15....	8.8	6.8	2.8	10	1.4	11	105	124	30	16	22	7.2
16....	8.1	6.2	5.0	11	1.1	39	109	102	29	13	14	6.6
17....	8.1	8.1	8.1	12	1.1	30	99	90	27	11	14	5.4
18....	8.1	8.1	5.0	13	1.2	44	104	95	27	10	14	5.1
19....	8.8	7.4	5.0	12	2.1	50	151	93	27	18	15	7.2
20....	8.8	6.2	5.5	11	3.5	47	218	85	26	12	14	6.0
21....	13	4.4	5.0	10	6.0	67	340	97	22	16	11	4.8
22....	3.3	2.3	3.5	11	11	56	804	106	26	14	9.4	5.7
23....	16	1.0	2.1	12	10	72	1770	113	32	15	8.7	5.4
24....	14	1.2	1.8	13	8.2	77	1090	116	22	16	8.4	5.4
25....	12	1.3	1.4	12	7.4	65	780	116	18	14	6.9	5.4
26....	11	1.5	1.2	11	7.0	54	316	116	16	11	6.6	5.2
27....	11	2.5	1.0	12	7.0	36	254	116	11	8.4	6.3	5.0
28....	11	3.9	1.1	9.0	8.0	36	254	107	12	7.8	6.3	4.7
29....	11	5.5	1.1	5.5	....	37	242	96	11	7.5	5.7	4.4
30....	10	5.0	1.3	5.0	....	35	239	88	15	6.6	6.0	4.2
31....	9.8	....	1.0	12	....	36	....	76	....	24	7.2	....
Total	304.1	203.8	115.1	236.9	135.1	981	7725	5015	912	600.3	340.0	288.5
Mean.	9.81	6.79	3.71	7.64	4.82	31.6	258	162	30.4	19.4	11.0	9.62
Max..	19	13	8.1	13	11	77	1770	328	69	46	23	21
Min..	3.3	1.0	1.0	0.8	1.1	10	39	76	11	6.6	4.2	4.2
Acre-ft.	603	404	228	470	268	1950	15320	9950	1810	1190	674	572

Total run-off for water year=33,440 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Apishapa River Near White Rock, Colo., for Year Ending Sept. 30, 1942.												
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	30	148	322	1100
2.....	26	67	278	140
3.....	18	46	282	44
4.....	May 6	8.0	30	310	20
5.....	to 31	4.8	27	300	17
6.....	272	3.8	37	295	345
7.....	237	2.4	27	288	39
8.....	237	75	16	282	19
9.....	194	11	7.4	274	15
10.....	175	4.4	3.0	266	9.8
11.....	172	2.8	21	258	6.6
12.....	198	1.8	37	254	5.0
13.....	190	1.4	39	250	3.9
14.....	172	1.3	39	707	2.8
15.....	150	1.2	36	1140	2.0
16.....	126	0.9	29	46	2.0
17.....	115	0.8	9.8	21	2.0
18.....	100	0.6	2.2	9.8	1.8
19.....	86	0.5	2.2	5.8	1.8
20.....	90	0.3	186	4.4	1.8
21.....	105	0.2	93	3.9	1.8
22.....	107	0.6	37	2.8	1.6
23.....	110	159	15	2.2	1.6
24.....	129	5.0	14	1.6	1.6
25.....	123	0.8	13	0.8	1.4
26.....	118	0.6	13	0.8	1.2
27.....	95	0.4	13	0.4	1.2
28.....	84	0.2	12	0.2	1.0
29.....	59	0.2	12	0.2	0.8
30.....	39	0.2	11	0.2	0.8
31.....	34	.....	11	0.2	.....
Total.....	3517	362.2	1053.6	5604.3	1791.5
Mean.....	135	12.1	34.0	181	59.7
Max.....	272	159	186	1140	1100
Min.....	34	0.2	2.2	0.2	0.8
Acre-ft.....	6980	718	2090	11120	3550

Total run-off for period=24,460 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Apishapa River Near Fowler, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	560	1.9	6.8	9.0	21	1.9	5.0	71	82	13	30	27
2.....	145	2.1	19	6.8	26	11	6.8	458	71	24	31	17
3.....	24	2.6	12	6.8	25	13	18	259	275	145	20	11
4.....	18	9.5	13	7.7	15	14	14	166	94	91	13	6.8
5.....	12	3.8	10	9.5	12	6.2	9.5	148	36	46	7.1	5.6
6.....	8.5	4.0	9.5	12	12	5.0	6.2	122	30	27	4.2	5.6
7.....	3.1	1.9	12	14	17	4.8	3.8	112	46	19	2.8	5.3
8.....	2.3	1.9	12	17	17	4.4	2.8	96	52	14	1.7	3.6
9.....	1.6	1.9	12	20	7.1	4.4	2.1	96	52	14	2.3	3.6
10.....	3.4	2.1	12	20	6.2	4.4	1.6	98	52	15	2.5	3.2
11.....	5.9	3.4	8.5	15	11	5.0	2.3	594	55	13	1.4	2.8
12.....	3.4	2.3	16	13	26	9.5	2.5	234	53	14	1.9	2.6
13.....	4.8	2.3	15	24	18	18	3.6	187	53	45	231	2.6
14.....	3.8	2.1	15	37	9.0	13	4.8	154	52	128	57	4.0
15.....	1.7	2.1	15	22	6.2	8.0	16	130	42	50	40	3.8
16.....	1.7	2.1	15	21	5.3	25	2.3	120	43	60	36	2.8
17.....	1.9	7.7	15	19	6.8	12	1.6	110	55	55	34	2.5
18.....	3.2	8.5	16	19	5.6	3.2	1.9	78	257	69	50	2.5
19.....	3.0	5.9	17	21	7.4	2.3	2.8	91	224	64	110	2.1
20.....	2.6	4.8	17	22	27	1.7	3.4	219	122	50	379	2.8
21.....	4.2	4.8	17	21	28	1.7	3.0	45	145	60	640	4.6
22.....	3.2	2.6	18	21	25	2.3	2.5	52	57	52	208	237
23.....	1.9	6.5	18	23	11	2.1	2.8	175	48	37	688	593
24.....	1.7	15	19	20	4.2	3.4	2.8	128	55	23	163	637
25.....	1.6	20	17	20	3.6	5.6	2.5	55	64	18	139	71
26.....	2.5	16	10	20	2.3	2.8	2.1	58	62	92	241	48
27.....	8.2	8.5	4.8	19	1.9	2.3	3.2	60	52	60	787	38
28.....	7.4	7.4	6.2	19	2.3	1.7	4.8	71	27	40	154	24
29.....	7.2	6.2	6.2	17	....	6.5	63	52	14	32	69	23
30.....	3.6	5.6	9.5	19	....	5.6	120	48	17	43	40	26
31.....	2.1	....	7.7	21	....	4.4	....	48	....	38	64	....
Total	853.8	165.5	392.2	555.8	358.9	205.2	317.7	4335	2293	1451	4247.9	1818.8
Mean.	27.5	5.52	12.7	17.9	12.8	6.62	10.6	140	76.4	46.8	137	60.6
Max...	560	20	19	31	28	25	120	594	275	145	787	637
Min...	1.6	1.9	4.8	6.8	1.9	1.7	1.6	45	14	13	1.4	2.1
Acre-ft.	1690	328	778	1100	712	407	630	8600	1550	2880	8430	3610

Total run-off for water year=33,720 acre-feet.

Discharge of Apishapa River Near Fowler, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	29	16	8.5	18	5.6	24	19	942	70	335	107	1500
2.....	26	15	8.5	17	4.8	14	22	432	64	184	138	313
3.....	26	14	8.0	15	6.0	10	21	315	54	139	355	41
4.....	26	12	47	14	15	8.5	24	298	46	109	70	38
5.....	29	11	49	12	19	8.0	22	284	49	61	73	46
6.....	32	9.5	31	11	18	9.0	23	280	38	44	28	340
7.....	43	8.5	51	9.0	15	11	38	308	8.2	29	14	155
8.....	40	8.0	44	8.0	18	7.6	38	327	36	18	24	104
9.....	34	9.5	44	6.4	19	8.5	34	327	35	34	26	71
10.....	34	8.5	42	5.2	26	6.4	25	306	23	68	15	42
11.....	23	7.6	41	3.8	10	4.4	17	266	5.8	30	10	38
12.....	21	8.5	39	3.2	7.2	2.6	16	234	16	34	10	42
13.....	19	8.5	38	2.8	8.5	1.4	18	198	41	23	18	39
14.....	32	7.6	35	2.8	9.0	15	17	167	54	14	1090	32
15.....	35	7.6	34	2.4	10	18	19	157	88	10	3140	26
16.....	35	7.2	34	2.4	8.0	21	74	133	118	7.0	150	25
17.....	39	7.6	29	2.6	6.4	20	44	112	112	6.2	82	23
18.....	36	6.8	28	2.6	6.8	17	62	100	88	5.8	54	24
19.....	31	6.4	29	2.4	6.8	14	73	98	88	8.6	30	25
20.....	26	5.2	35	2.4	4.4	21	887	95	92	154	25	29
21.....	9.1	4.8	35	2.4	7.2	15	969	95	91	49	19	31
22.....	507	4.8	42	2.4	7.6	14	1270	88	42	44	16	29
23.....	321	4.0	47	4.8	8.0	14	3090	78	41	29	24	29
24.....	78	4.0	44	5.2	8.5	9.5	3850	75	61	29	9.8	29
25.....	35	3.6	39	6.8	9.5	8.5	2080	78	66	14	6.2	32
26.....	26	3.8	36	6.8	9.5	10	977	78	59	22	7.7	35
27.....	23	5.2	31	6.4	10	10	645	98	82	19	7.0	42
28.....	21	4.8	28	8.5	14	9.5	540	109	68	14	6.2	36
29.....	19	4.8	25	16	....	17	463	85	44	12	10	26
30.....	18	6.4	23	4.4	....	18	508	80	124	11	3.4	24
31.....	17	....	21	5.2	....	18	....	70	....	15	2.7	....
Total	1690.1	231.2	1046.0	211.9	297.8	384.9	15885	6313	1804.0	1571.6	5571.0	3266
Mean.	54.5	7.71	33.7	6.84	10.6	12.4	530	204	60.1	50.7	180	109
Max...	507	16	51	18	26	24	3850	942	124	335	3140	1500
Min...	9.1	3.6	8.0	2.4	4.4	1.4	16	70	5.8	5.8	2.7	23
Acre-ft.	3350	459	2076	420	591	763	31510	12520	3580	3120	11050	6480

Total run-off for water year=75,910 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Timpas Creek Near Rocky Ford, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	132	72	50	30	48	104	98	300	52	58	16	182
2.....	126	64	58	26	51	110	90	286	49	24	20	176
3.....	121	64	103	24	50	103	74	137	46	92	81	132
4.....	124	62	109	26	46	94	72	179	52	92	36	126
5.....	129	72	134	24	58	92	101	200	68	46	72	134
6.....	124	79	112	24	76	119	109	126	66	32	132	114
7.....	103	74	109	24	81	134	145	142	96	47	170	119
8.....	119	94	159	26	96	139	194	107	129	19	72	162
9.....	132	103	167	26	78	153	72	121	170	26	27	145
10.....	121	98	170	28	67	142	16	27	121	54	41	142
11.....	112	87	159	26	64	96	39	87	176	49	28	112
12.....	90	79	98	*26	64	134	50	62	156	33	23	148
13.....	94	132	35	26	66	112	167	96	191	58	21	76
14.....	105	126	32	26	74	112	164	81	150	38	1090	109
15.....	142	121	60	26	86	229	96	58	101	26	129	121
16.....	145	116	58	26	98	197	76	56	132	21	110	121
17.....	107	103	60	24	107	170	54	42	197	16	92	142
18.....	76	90	35	22	110	156	139	68	197	12	78	137
19.....	121	85	27	*20	118	137	276	76	197	10	64	126
20.....	126	116	39	22	120	139	483	50	191	17	58	47
21.....	188	134	126	26	125	150	129	58	200	79	42	72
22.....	320	111	116	32	130	32	38	64	434	87	33	119
23.....	232	87	41	44	114	76	514	54	153	66	79	116
24.....	179	85	32	46	103	96	419	90	42	33	90	119
25.....	137	72	31	40	36	114	222	58	98	20	24	121
26.....	92	76	30	38	92	112	79	31	76	12	12	121
27.....	72	58	30	47	90	107	38	52	81	14	12	81
28.....	47	76	36	54	94	105	176	76	150	10	12	62
29.....	72	83	*39	54	.....	92	239	70	103	10	11	47
30.....	79	66	46	46	.....	87	246	62	107	10	12	50
31.....	74	.....	40	42	.....	87	.....	58	.....	11	20	.....
Total	3841	2688	2341	971	2405	3790	4615	2974	3981	1122	2707	3479
Mean.	124	89.6	75.5	31.3	85.9	122	154	95.9	133	36.2	87.3	116
Max...	320	134	170	54	130	229	514	300	434	92	1090	182
Min...	47	58	27	20	46	32	16	27	42	10	11	47
Acre-ft.	7620	5330	4640	1930	4770	7520	9150	5900	7900	2230	5370	6900

Total run-off for water year=69,260 acre-feet.
 *Discharge measurement made on this day.

Discharge of Horse Creek Near Sugar City, Colo., for Year Ending Sept. 30, 1940.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.1	6.0	0.3	0.1	0.1
2.....	0.1	2.9	0.3	0.1	0.1
3.....	0.4	1.3	0.3	0.1	0.3
4.....	0.8	0.8	0.3	0.1	0.3
5.....	0.7	0.7	0.3	0.1	0.4
6.....	0.8	0.6	0.3	0.2	0.3
7.....	1.7	0.5	0.3	0.3	0.3
8.....	3.6	0.4	0.4	0.3	0.3
9.....	0.9	0.5	0.3	0.3	0.3
10.....	0.8	0.4	0.3	0.1	0.3
11.....	0.6	0.3	0.3	0.1	0.3
12.....	April 13	0.4	0.3	0.3	0.1	0.3
13.....	to 30	6.1	0.3	0.3	0.1	0.3
14.....	0.1	0.3	0.4	0.1	0.3
15.....	0.1	0.4	0.5	0.1	0.3
16.....	0.1	0.5	0.5	0.1	0.3
17.....	0.1	5.0	0.4	0.1	0.3
18.....	0.1	2.5	0.3	0.1	0.3
19.....	0.1	0.7	0.3	0.1	0.2
20.....	0.1	0.8	0.2	0.1	0.3
21.....	0.1	1.1	0.2	14	0.3
22.....	0.1	0.8	0.1	0.4	0.4
23.....	0.1	0.8	0.1	0.1	0.3
24.....	0.1	0.8	0.1	0.1	0.3
25.....	0.1	0.8	0.1	0.1	0.3
26.....	0.1	0.8	0.1	6.9	0.3
27.....	0.1	151	0.1	357	0.3
28.....	0.1	180	0.3	13	0.3
29.....	0.1	472	0.3	2.7	0.3
30.....	0.1	74	0.3	0.6	0.1
31.....	11	.....	0.1	0
Total	1.8	1214.5	19.3	399.5	5.9
Mean.	0.10	39.2	0.64	12.9	0.19
Max...	0.4	480	6.0	357	0.4
Min...	0.1	0.1	0.1	0.1	0.1
Acre-ft.	3.6	2410	38	792	12

Total run-off for period=3,270 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Horse Creek Near Sugar City, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.1	0.1	0.2	1.5	0.5	0.2	0.2	1.1	0.3	0.3	0.6	0.1
2.....	0.1	0.1	0.2	1.5	0.2	0.3	2.2	5.0	0.2	3.4	0.5	0.1
3.....	0.2	0.1	0.2	1.5	0.3	0.3	1.1	2.0	0.1	1.8	0.5	0.1
4.....	0.1	0.1	0.3	1.5	0.3	0.2	0.6	9.7	0.1	0.1	0.3	0.1
5.....	0.1	0.1	0.3	1.1	0.3	0.3	0.5	0.1	0.1	0.1	0.3	0.1
6.....	0.1	0.1	0.3	1.1	0.3	0.3	0.2	0.1	0.1	4.2	0.7	0.1
7.....	0.1	0.2	0.2	1.1	0.6	0.2	0.1	0.1	0.1	4.5	1.5	0.1
8.....	0.1	0.2	0.2	1.1	0.6	0.2	0.2	0.1	0.1	0.1	1.1	0.2
9.....	0.1	0.3	0.2	1.1	0.5	0.2	0.1	0.1	0.1	0.1	0.7	1.8
10.....	0.1	0.5	0.2	0.7	0.5	0.5	0.1	0.1	0.3	0.1	0.7	1.8
11.....	0.1	0.7	0.3	0.7	0.5	0.3	0.1	0.1	0.2	0.1	0.7	1.8
12.....	0.1	0.5	1.1	0.6	0.5	0.5	0.1	0.1	0.2	0.1	1.1	1.1
13.....	0.1	0.6	1.1	0.5	0.3	0.3	0.1	0.1	0.1	9.5	1.5	1.1
14.....	0.1	1.5	1.1	0.3	0.2	0.5	0.1	0.1	0.1	9.6	0.7	1.1
15.....	0.1	1.5	1.1	0.6	0.2	0.3	0.1	0.1	0.2	3.7	0.5	0.3
16.....	0.1	1.1	1.1	0.7	0.3	0.2	0.1	0.1	0.3	0.6	0.5	0.1
17.....	0.1	0.2	1.1	0.6	0.2	0.3	0.1	0.1	0.2	0.1	0.3	0.1
18.....	0.1	0.1	7.8	0.6	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.1
19.....	0.1	0.1	9.0	1.1	0.2	0.2	0.2	0.1	0.3	0.1	0.1	0.1
20.....	0.1	0.1	2.6	0.6	0.5	0.1	0.1	0.1	0.3	0.1	25.3	0.2
21.....	0.1	0.1	2.6	1.1	0.3	0.2	0.1	0.1	0.2	0.1	34.5	0.6
22.....	0.1	0.1	2.6	1.5	0.3	0.2	0.1	0.2	0.3	0.1	1.5	47.6
23.....	0.1	0.1	2.6	0.6	0.3	0.2	0.2	0.5	0.3	0.1	5.2	84.5
24.....	0.1	0.3	2.2	0.6	0.5	0.5	0.1	2.6	0.5	0.1	5.2	21.0
25.....	0.1	0.2	1.8	0.6	0.5	1.1	0.1	0.1	0.5	0.5	0.1	4.1
26.....	0.1	0.2	1.8	0.7	0.6	1.8	0.1	0.1	0.5	7.9	0.5	1.7
27.....	0.1	0.1	1.8	0.6	0.3	1.5	0.2	7.6	0.6	1.1	27.0	8.4
28.....	0.1	0.2	1.8	0.6	0.5	0.7	10.9	1.1	0.6	1.1	5.3	5.2
29.....	0.1	0.2	1.8	0.3	.....	0.7	2.6	0.5	0.6	0.5	4.1	4.5
30.....	0.1	0.2	1.5	0.5	.....	0.5	1.8	0.3	0.3	0.5	0.3	2.6
31.....	0.1	.....	1.5	0.5	.....	0.3	.....	0.2	.....	0.7	0.1	.....
Total	3.2	9.9	50.6	26.1	10.5	13.5	144.1	164.1	8.0	982.1	964.0	1620.1
Mean.	0.10	0.33	1.63	0.84	0.38	0.44	4.80	5.29	0.27	31.7	31.1	54.0
Max...	0.2	1.5	9.0	1.5	0.6	1.8	10.9	7.6	0.6	7.9	34.5	84.5
Min...	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Acre-ft.	6.3	20	100	52	21	27	28.6	32.5	1.6	19.50	19.10	32.10

Total run-off for water year=7,920 acre-feet.

Discharge of Horse Creek Near Sugar City, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.8	7.8	1.0	0.4	0.3	0.4	0.3	7.3	1.5	4.2	0.6	5.7
2.....	3.5	5.7	0.9	0.4	0.3	0.4	0.5	10	1.6	2.3	0.6	62.3
3.....	2.5	4.2	0.9	0.4	0.3	0.4	0.5	12	1.8	1.8	9.6	12.3
4.....	1.8	4.2	0.9	0.4	0.3	0.4	0.6	12	1.8	1.6	2.2	2.5
5.....	1.6	3.7	0.8	0.4	0.3	0.3	0.5	7.8	2.3	1.2	0.8	1.2
6.....	1.5	3.5	0.7	0.4	0.3	0.3	0.4	4.7	2.3	0.7	0.7	6.8
7.....	1.1	3.0	0.6	0.4	0.3	1.1	0.5	3.2	1.8	1.7	0.6	4.0
8.....	1.2	2.8	0.5	0.4	0.3	0.5	0.4	3.4	3.2	2.5	0.6	3.2
9.....	1.0	2.8	0.5	0.4	0.2	0.3	0.4	4.0	3.5	1.8	0.7	3.0
10.....	1.0	2.5	0.5	0.4	0.2	0.2	0.3	4.2	2.5	1.6	0.8	4.7
11.....	0.9	2.8	0.5	0.4	0.2	0.2	0.3	4.7	2.5	2.8	0.8	5.2
12.....	0.9	2.8	0.4	0.4	0.2	0.2	0.3	4.7	2.3	1.1	0.8	5.2
13.....	1.3	2.8	0.4	0.4	0.2	0.2	0.3	4.2	3.2	0.7	1.0	3.2
14.....	3.2	2.5	0.4	0.4	0.2	0.3	0.4	5.2	3.0	2.0	1.68	2.5
15.....	3.5	2.8	0.4	0.4	0.2	0.2	0.4	4.7	3.0	0.9	6.2	2.5
16.....	5.7	2.8	0.4	0.4	0.2	0.2	0.4	5.2	2.5	1.3	2.2	2.5
17.....	5.2	2.3	0.4	0.4	1.0	0.2	0.5	5.2	2.5	1.1	1.2	2.0
18.....	2.3	2.0	0.4	0.4	1.2	0.2	0.5	4.7	2.5	0.9	7.3	2.0
19.....	1.5	2.5	0.3	0.3	0.8	0.2	0.6	5.7	2.5	1.7	4.2	2.0
20.....	1.2	2.5	0.4	0.3	0.4	0.2	1.0	4.0	2.5	4.7	4.2	1.8
21.....	1.7	2.8	0.4	0.2	0.4	0.2	3.2	3.5	2.8	1.7	4.2	1.7
22.....	8.8	1.8	0.4	0.2	0.7	0.2	0.4	3.5	3.0	4.0	2.5	1.6
23.....	17.50	2.0	0.4	0.2	0.5	0.2	9.9	3.2	3.2	3.2	1.7	1.6
24.....	6.61	2.5	0.4	0.2	1.0	0.2	36.4	1.8	3.0	1.5	1.1	2.0
25.....	9.2	3.0	0.4	0.2	0.5	0.2	17.2	1.1	3.0	1.3	0.9	1.3
26.....	19.5	2.3	1.3	0.2	1.7	0.2	4.8	3.0	3.0	1.3	0.7	0.8
27.....	5.7	2.5	0.4	0.2	0.4	0.2	2.4	3.5	3.0	0.8	0.6	0.6
28.....	21	2.5	0.4	0.3	0.3	0.2	4.7	2.8	3.0	0.6	0.4	0.6
29.....	12	2.3	0.4	0.3	.....	0.2	2.1	1.5	3.0	0.6	0.4	0.7
30.....	8.8	1.7	0.4	0.3	.....	0.2	7.8	1.3	4.0	0.6	0.4	0.8
31.....	7.8	.....	0.4	0.3	.....	0.2	.....	1.5	.....	0.6	0.4	.....
Total	2857.8	89.4	16.6	10.4	12.9	8.6	753.2	143.6	79.8	68.2	419.0	851.0
Mean.	92.2	2.98	0.54	0.34	0.46	0.28	25.1	4.63	2.66	2.20	13.5	14.5
Max...	17.50	7.8	1.3	0.4	1.7	1.1	36.4	12	4.0	1.7	1.68	6.23
Min...	0.9	1.7	0.3	0.2	0.2	0.2	0.3	1.1	1.5	0.6	0.4	0.6
Acre-ft.	5670	177	33	21	26	17	1490	285	158	135	831	1690

Total run-off for water year=10,530 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Purgatoire River at Trinidad, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	52	32	19	22	35	24	94	624	586	400	299	51
2.....	49	22	19	15	22	19	77	2520	540	355	233	44
3.....	37	22	19	4.0	22	18	67	1250	553	323	212	40
4.....	40	24	24	6.4	22	16	63	973	592	322	275	30
5.....	52	27	19	22	29	18	49	726	540	355	193	27
6.....	29	22	19	29	29	22	56	618	527	373	261	18
7.....	29	24	24	5.9	29	24	59	605	520	299	174	17
8.....	32	27	19	5.6	24	27	56	586	514	299	174	20
9.....	27	27	18	67	22	35	56	618	482	351	275	44
10.....	32	32	19	5.9	22	45	52	670	426	315	168	47
11.....	40	24	16	5.6	27	16	49	710	400	315	168	40
12.....	42	56	21	42	27	15	52	750	355	463	409	34
13.....	42	42	5.0	42	24	16	52	830	335	409	193	34
14.....	45	52	16	42	22	18	45	919	631	355	156	40
15.....	52	63	24	35	18	19	56	806	442	400	156	54
16.....	52	74	45	5.6	19	19	56	710	458	254	117	58
17.....	40	85	5.6	5.2	19	22	49	678	514	315	291	61
18.....	32	49	35	5.9	19	22	52	657	586	275	261	65
19.....	29	24	5.9	5.2	19	19	74	678	586	247	212	61
20.....	35	19	42	3.2	19	22	74	670	624	247	240	68
21.....	32	35	42	2.7	19	37	74	586	644	254	339	95
22.....	32	16	37	3.7	19	32	77	586	624	240	199	643
23.....	27	24	24	4.0	19	32	195	579	592	295	168	1690
24.....	29	35	24	2.7	19	37	205	566	644	580	122	133
25.....	27	40	18	3.5	19	45	280	572	618	436	90	47
26.....	15	37	15	3.5	19	45	320	650	650	409	76	23
27.....	19	22	18	3.2	18	74	488	686	657	391	101	11
28.....	24	18	19	2.2	22	85	579	670	634	240	174	9.5
29.....	27	35	16	4.9	....	81	494	644	562	219	79	47
30.....	24	22	2.2	4.0	....	99	566	618	472	219	101	44
31.....	27	....	2.2	2.7	....	99	....	579	....	347	51	9.5
Total	1071	1031	778.0	1178.4	623	1102	4466	23334	16308	10193	5967	3595.5
Mean..	34.5	34.4	25.1	38.0	22.2	35.5	149	753	544	329	192	120
Max...	52	85	59	67	35	99	579	2520	657	580	409	1690
Min...	15	16	5.0	4.0	18	15	45	566	335	205	51	9.5
Acree-ft.	2120	2040	1540	2340	1240	2190	8860	46280	32350	20220	11840	7130

Total run-off for water year=138,200 acre-feet.

Discharge of Purgatoire River at Trinidad, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	17	152	66	27	45	53	47	820	490	587	140	861
2.....	51	143	53	26	47	59	53	670	438	642	260	680
3.....	106	130	59	27	47	37	66	710	456	270	244	189
4.....	90	121	66	23	53	56	85	633	456	223	244	397
5.....	79	121	47	23	47	34	90	700	438	213	131	413
6.....	68	112	45	29	32	45	103	624	481	199	96	218
7.....	61	103	56	35	40	37	138	652	438	161	89	157
8.....	51	78	53	43	42	34	116	710	438	234	86	124
9.....	47	81	56	36	37	42	161	710	296	223	83	102
10.....	47	81	47	42	37	47	166	730	204	244	96	89
11.....	47	75	45	5.2	42	45	195	750	260	302	194	89
12.....	44	72	53	6.9	37	40	290	740	321	228	768	113
13.....	37	75	40	7.8	40	42	365	652	348	189	369	96
14.....	339	72	40	5.6	42	45	315	578	334	228	870	71
15.....	283	69	42	5.4	37	45	350	499	283	218	140	52
16.....	226	66	42	4.8	34	56	290	473	254	194	86	37
17.....	162	66	59	4.2	18	59	270	421	244	194	31	50
18.....	112	66	40	4.6	37	47	442	421	302	175	213	62
19.....	95	59	40	4.4	50	75	1180	404	328	421	161	71
20.....	83	40	45	5.2	56	81	1560	421	362	1140	47	71
21.....	275	34	45	2.5	99	53	2540	456	362	296	44	62
22.....	285	33	45	7.8	53	66	3980	508	383	315	62	57
23.....	195	37	29	4.7	37	121	12400	670	421	175	71	54
24.....	310	42	27	6.2	50	156	4210	680	446	161	74	50
25.....	230	81	22	5.6	45	134	2550	633	473	170	80	57
26.....	195	69	25	4.2	34	85	2210	670	516	166	74	47
27.....	166	62	24	4.2	75	50	1520	652	464	144	62	47
28.....	156	62	26	4.7	50	47	1200	606	464	131	54	40
29.....	185	69	30	4.7	....	45	1020	596	490	113	47	40
30.....	170	62	3.2	3.7	....	47	950	530	569	89	40	42
31.....	161	....	30	24	....	47	....	473	....	131	44	....
Total	4373	2333	1329	1359	1263	1830	38862	18792	11759	8176	5000	4438
Mean..	141	77.8	42.9	43.8	45.1	59.0	1295	606	392	264	161	148
Max...	339	152	66	78	99	156	12400	820	569	1140	870	861
Min...	17	33	22	23	18	34	47	404	204	89	31	37
Acree-ft.	8670	4630	2640	2700	2510	3630	77080	37270	23320	16220	9920	8800

Total run-off for water year=197,400 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Purgatoire River at Nine Mile Dam Near Higbee, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	33	5.5	26	23	163	18	120	420	450	259	171	77
2.....	33	6.0	33	22	126	11	115	6160	700	163	305	67
3.....	31	6.5	31	20	98	12	112	2680	860	112	159	56
4.....	24	7.8	26	17	73	12	91	3690	780	686	120	46
5.....	22	7.6	26	14	56	12	82	1480	800	209	98	36
6.....	19	7.3	26	15	48	12	84	1480	730	139	77	30
7.....	15	7.2	26	16	44	11	70	722	630	120	84	29
8.....	15	7.4	26	16	41	7.9	80	495	540	62	75	25
9.....	14	7.4	27	16	34	9.7	77	540	480	25	96	22
10.....	15	6.3	26	15	30	12	75	420	440	26	133	21
11.....	15	7.3	25	19	27	15	58	495	390	67	156	20
12.....	11	5.0	20	23	25	16	44	486	350	73	398	19
13.....	11	4.0	15	26	19	16	40	520	270	59	1140	18
14.....	9.4	3.5	11	36	13	13	69	580	330	264	288	16
15.....	8.2	3.5	9.4	43	9	13	69	640	430	698	123	15
16.....	7.6	7.5	10	38	17	12	47	300	551	784	70	16
17.....	7.6	9.2	11	35	14	16	44	220	382	247	52	15
18.....	7.0	15	15	32	14	17	31	230	573	171	43	15
19.....	7.0	17	19	30	14	14	50	240	840	398	428	15
20.....	7.0	25	18	22	13	13	41	300	606	171	710	14
21.....	7.0	23	21	24	13	9.2	40	350	513	123	390	15
22.....	6.5	22	24	22	14	11	82	450	477	109	522	183
23.....	6.0	22	28	33	14	29	73	580	639	98	354	2120
24.....	5.5	25	26	56	13	56	69	720	504	67	237	2650
25.....	6.5	36	26	38	13	62	228	650	333	242	179	770
26.....	6.0	44	26	46	13	53	347	460	504	242	136	347
27.....	6.0	27	27	46	13	58	495	460	333	270	183	195
28.....	5.0	24	24	50	15	61	606	580	242	264	868	152
29.....	5.5	31	25	54	....	69	758	580	326	293	531	146
30.....	5.5	28	25	69	....	82	628	380	305	139	259	149
31.....	5.5	....	24	199	....	91	....	340	....	101	129	....
Total	376.8	448.0	704.4	1115	986	843.8	4725	27648	15308	6681	8514	7239
Mean..	12.2	14.9	22.7	36.0	35.2	27.2	158	892	510	216	275	243
Max...	33	44	33	199	163	91	758	6160	860	784	1140	2650
Min...	5.0	3.5	9.4	14	9	7.9	31	220	242	25	43	14
Ac-ft.	747	889	1400	2210	1960	1670	9370	54840	30360	13250	16890	14480

Total run-off for water year=148,100 acre-feet.

**Discharge of Purgatoire River at Nine Mile Dam Near Higbee, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	191	209	57	40	32	18	60	2350	393	246	57	497
2.....	179	195	48	35	30	21	89	2020	358	543	66	9700
3.....	159	183	49	32	26	20	102	2400	340	384	216	904
4.....	187	175	53	31	26	18	140	2400	340	264	170	210
5.....	223	163	57	29	24	19	127	1700	298	210	200	119
6.....	183	156	66	34	24	19	148	1410	291	195	160	1700
7.....	175	146	60	38	24	25	185	1180	384	180	135	786
8.....	152	126	33	42	22	26	210	1090	834	165	99	410
9.....	142	118	32	42	22	24	210	1120	558	140	57	258
10.....	139	109	48	42	23	25	305	1120	312	119	40	152
11.....	139	112	90	43	24	29	558	402	277	102	33	127
12.....	126	106	96	43	21	66	646	922	252	93	33	135
13.....	118	96	57	44	22	60	850	904	234	93	66	216
14.....	129	89	63	44	19	63	940	834	340	96	786	291
15.....	617	99	80	45	17	60	738	602	240	96	3480	185
16.....	662	99	57	45	16	66	738	646	246	96	994	175
17.....	347	96	80	45	19	69	975	631	210	86	165	99
18.....	175	83	69	46	22	60	690	661	195	86	252	80
19.....	167	77	86	53	24	55	2020	706	175	83	216	80
20.....	163	66	63	46	24	46	8480	770	156	106	180	63
21.....	163	66	48	46	32	48	3560	706	152	886	156	83
22.....	361	38	57	48	20	72	5130	675	246	402	131	77
23.....	468	29	50	48	17	60	14700	646	1920	234	109	63
24.....	276	74	42	48	32	60	15200	661	754	195	93	55
25.....	299	60	32	60	26	86	9230	706	384	190	72	55
26.....	282	72	18	57	18	148	4710	722	298	160	53	55
27.....	228	86	24	72	18	99	2880	602	264	86	46	53
28.....	204	86	35	57	19	77	2290	616	264	74	35	51
29.....	199	69	40	69	....	63	2020	486	240	89	26	51
30.....	199	60	48	69	....	48	1430	410	222	119	22	49
31.....	204	....	44	44	....	66	....	375	....	83	22	....
Total	7256	3143	1682	1437	652	1616	79061	30473	11177	5901	8170	16779
Mean..	234	105	54.3	46.4	23.3	52.1	2635	983	373	190	264	559
Max...	662	209	96	72	32	148	15200	2400	1920	886	3480	9700
Min...	118	29	18	29	16	18	60	375	152	74	22	49
Ac-ft.	14390	6230	3340	2850	1290	3210	156820	60440	22170	11700	16200	33280

Total run-off for water year=331,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Purgatoire River at Highland Dam Near Las Animas, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	110	0	19	13	186	17	190	358	496	303	163	113
2.....	45	0	18	15	110	18	137	1310	750	266	342	88
3.....	30	0	19	12	71	17	132	5680	750	212	212	69
4.....	26	0	20	14	49	16	112	2970	856	634	146	41
5.....	21	0	18	12	44	16	91	1040	715	326	119	28
6.....	16	0	17	13	31	17	74	1140	750	155	92	26
7.....	14	*0	17	11	29	17	66	772	738	119	78	24
8.....	12	0	17	15	28	16	66	566	588	107	80	17
9.....	11	0	18	14	27	16	67	508	634	86	65	19
10.....	10	0	18	14	25	14	69	415	531	80	67	18
11.....	10	0	18	16	23	14	66	424	450	84	83	18
12.....	9.5	0	19	21	22	15	42	485	374	110	82	19
13.....	6.6	0	11	18	20	17	40	520	331	92	1340	19
14.....	2.8	0	20	22	20	22	30	520	296	116	390	16
15.....	1.6	0.4	26	42	19	22	61	634	334	433	218	14
16.....	1.2	4.0	28	38	18	19	81	566	424	934	155	14
17.....	0	8.0	30	34	18	20	44	350	508	326	126	13
18.....	0	6.4	32	29	18	20	43	259	476	193	126	12
19.....	0	6.8	20	28	18	22	66	225	669	358	476	11
20.....	0	6.0	16	29	17	20	59	288	542	199	1480	11
21.....	0	5.6	15	27	16	20	49	382	542	146	726	8.9
22.....	0	16	19	27	17	20	40	433	508	126	738	80
23.....	*0.1	17	29	26	16	20	115	450	520	119	508	3150
24.....	0.1	17	22	27	16	28	104	692	450	101	342	3010
25.....	0	21	22	27	16	127	161	588	382	172	206	856
26.....	0	12	21	29	16	94	318	566	704	485	159	390
27.....	0	26	20	28	16	50	415	508	424	508	1180	225
28.....	*0	21	15	29	17	57	520	508	374	318	960	167
29.....	0	17	13	28	.....	59	680	468	382	450	658	186
30.....	*0	21	12	33	.....	76	508	407	350	225	350	186
31.....	0	.....	13	25	.....	79	.....	382	.....	163	163	.....
Total	326.9	205.2	602	716	923	985	4356	25014	15851	7946	11830	8848.9
Mean...	10.5	6.84	19.4	23.1	33.0	31.8	145	807	528	256	382	295
Max...	110	26	32	42	186	127	680	5680	856	934	1480	3150
Min...	0	0	11	11	16	14	30	225	296	80	65	8.9
Ac.-ft.	648	407	1190	1420	1830	1950	8640	49610	31440	15760	23460	17550

Total run-off for water year=153,900 acre-feet.

*Discharge measurement made on this day.

Discharge of Purgatoire River at Highland Dam Near Las Animas, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	193	244	84	72	53	49	49	2190	244	193	47	83
2.....	193	251	80	60	42	46	159	1610	251	390	105	10000
3.....	155	266	80	52	45	54	155	1370	251	542	468	3450
4.....	138	231	86	47	42	41	218	2090	205	86	266	900
5.....	206	218	90	41	38	38	205	1190	193	206	244	200
6.....	142	212	103	45	30	37	193	895	225	146	180	500
7.....	116	206	96	48	42	54	244	761	442	122	122	1610
8.....	113	180	83	52	35	53	205	852	715	113	105	334
9.....	103	176	70	50	32	56	244	807	807	99	72	274
10.....	103	155	71	52	34	34	296	807	554	94	54	212
11.....	92	135	72	55	39	32	424	761	468	78	46	303
12.....	84	172	107	58	32	44	520	807	382	70	40	135
13.....	80	151	94	60	25	132	738	869	311	67	44	132
14.....	86	135	110	74	32	107	807	577	374	66	1250	199
15.....	390	129	129	99	34	103	680	520	281	54	2770	165
16.....	715	105	110	96	26	113	658	476	311	49	1100	132
17.....	398	107	78	113	24	129	577	468	281	44	374	82
18.....	266	116	84	90	19	113	658	476	231	42	259	76
19.....	212	126	72	86	21	103	1420	450	193	49	176	71
20.....	193	407	86	86	20	94	9750	415	155	49	281	67
21.....	186	101	72	99	36	116	5200	450	122	382	266	60
22.....	218	103	53	103	53	105	5550	485	199	281	167	58
23.....	895	146	36	100	65	107	7620	450	1180	142	142	57
24.....	334	105	36	105	31	92	25800	531	715	119	119	53
25.....	334	90	31	82	67	186	9300	634	390	103	99	46
26.....	288	84	32	82	64	193	4800	669	296	90	90	44
27.....	251	110	32	71	42	138	3250	623	251	76	83	44
28.....	218	110	37	72	40	103	2850	433	218	54	74	44
29.....	225	103	56	78	.....	72	1880	398	180	59	67	42
30.....	251	90	78	78	.....	59	1640	303	176	65	61	42
31.....	244	.....	78	67	.....	50	.....	281	.....	76	52	.....
Total	7422	4464	2322	2273	1063	2653	86090	23648	10601	4006	9253	19415
Mean...	239	149	74.9	73.3	38.0	85.6	2870	763	353	129	298	647
Max...	895	266	129	113	67	193	25800	2190	1180	542	2770	10000
Min...	80	84	30	41	19	32	49	281	122	42	40	42
Ac.-ft.	14720	8850	4610	4510	2110	5260	170800	46910	21030	7950	18350	38510

Total run-off for water year=341,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rule Creek Near Caddoa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.4	0.4	0.4	0.4	0.6	0.8	0.8	2.8	0.4	0.7	0.6	0.3
2.....	0.5	0.4	0.4	0.4	0.6	0.8	0.7	2.2	0.4	0.8	0.6	0.3
3.....	0.4	0.4	0.4	0.5	0.6	0.8	0.7	2.1	0.4	0.9	0.8	0.3
4.....	0.4	0.4	0.4	0.3	0.5	0.8	0.6	2.0	0.4	1.0	1.7	0.4
5.....	0.4	0.4	0.4	0.3	0.6	0.8	0.6	2.0	0.4	0.9	3.0	0.3
6.....	0.4	0.4	0.4	0.6	0.5	0.8	0.6	1.9	0.4	1.0	1.8	0.2
7.....	0.4	0.4	0.4	0.7	0.5	0.7	0.9	1.8	0.4	0.6	1.4	0.3
8.....	0.4	0.4	0.4	0.9	0.5	0.7	0.9	1.8	1.0	0.6	1.2	1.6
9.....	0.4	0.4	0.4	0.9	0.4	0.7	0.9	1.8	2.5	0.6	0.8	1.9
10.....	0.4	0.4	0.5	1.0	0.4	0.7	0.9	1.6	1.6	0.6	0.8	0.8
11.....	0.4	0.4	0.5	1.0	0.4	0.7	0.9	1.5	1.0	0.6	0.8	0.6
12.....	0.4	0.4	0.5	*1.1	0.4	0.7	0.9	1.4	0.9	0.6	0.8	0.5
13.....	0.4	0.4	0.5	1.0	0.4	0.7	0.9	1.4	0.8	0.6	0.8	0.4
14.....	0.5	0.4	0.5	0.9	0.4	0.7	0.9	1.4	0.8	0.6	5.0	0.4
15.....	0.5	0.4	0.5	0.8	0.4	0.6	0.9	1.3	0.8	0.6	7.0	0.4
16.....	0.5	0.4	0.5	0.8	0.3	0.7	0.9	1.2	0.7	0.6	2.0	0.3
17.....	0.5	0.4	0.5	0.9	0.3	0.7	0.9	1.1	0.8	0.6	1.5	0.3
18.....	0.4	0.4	0.5	0.8	0.3	0.7	2.9	1.1	0.8	0.6	1.2	0.3
19.....	0.4	0.4	0.5	0.8	0.4	0.6	1.5	1.0	0.8	0.7	1.4	0.3
20.....	0.4	0.4	0.5	0.8	0.4	0.7	1.7	0.9	0.8	0.7	0.5	0.3
21.....	0.4	0.4	0.5	0.8	0.4	0.6	7.0	0.8	0.8	0.6	0.3	0.3
22.....	0.4	0.4	0.6	0.7	0.5	0.6	4.4	0.7	19.2	0.6	0.2	0.3
23.....	0.6	0.4	0.6	0.7	0.6	0.6	3.2	0.6	9.0	0.6	0.2	0.3
24.....	0.5	0.4	0.7	0.7	0.6	0.6	2.8	0.6	7.7	0.6	0.2	0.3
5.....	0.4	0.4	0.7	0.7	0.6	0.6	2.9	0.5	9.7	0.6	0.3	0.3
26.....	0.4	0.4	0.8	0.7	0.6	0.6	2.8	0.5	3.0	0.4	0.3	0.2
27.....	0.4	0.4	0.8	0.7	0.6	0.6	2.1	0.5	1.4	0.4	0.3	0.2
28.....	0.4	0.4	0.8	0.7	0.8	0.7	1.8	0.5	1.0	0.6	0.2	0.2
29.....	0.4	0.4	0.9	0.7	.....	0.6	1.9	0.5	1.4	0.6	0.2	0.2
30.....	0.4	0.4	0.9	0.7	.....	0.8	4.6	0.5	0.8	0.6	0.2	0.2
31.....	0.4	.....	0.7	0.7	.....	0.8	.....	0.4	.....	0.6	0.2	.....
Total	13.2	12.0	17.1	22.7	13.6	21.5	82.3	38.4	393.2	20.1	92.1	12.7
Mean.	0.43	0.4	0.55	0.73	0.49	0.69	2.74	1.24	13.1	0.65	2.97	0.42
Max...	0.6	0.4	0.9	1.1	0.8	0.8	17	2.8	19.2	1.0	5.0	1.9
Min...	0.4	0.4	0.4	0.3	0.3	0.6	0.6	0.4	0.4	0.4	0.2	0.2
Acre-ft.	26	24	34	45	27	43	163	76	780	40	183	25

Total run-off for water year=1,470 acre-feet.

*Discharge measurement made on this day.

Discharge of Caddoa Creek Near Caddoa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.8	0.2	2.1	0.1	0.2
2.....	2.0	0.2	1.6	1.2	0.2
3.....	1.8	0.2	1.5	1.5	0.2
4.....	1.6	0.2	1.5	1.1	0.2
5.....	1.4	0.2	1.6	0.2	0.3
6.....	1.4	0.2	1.5	0.1	1.8
7.....	1.1	0.7	1.0	0.1	8.4
8.....	1.0	3.2	0.5	0.1	2.8
9.....	1.2	3.6	0.3	0.1	1.1
10.....	1.4	4.4	0.2	0.1	0.2
1.....	1.2	2.0	0.2	0.1	0.2
2.....	0.8	1.2	0.2	0.1	0.3
3.....	Apr. 14 to 30	0.8	1.0	0.2	0.1	0.3
4.....	0.1	0.7	0.8	0.2	234
5.....	0.1	0.8	0.8	0.6	16
6.....	0.1	0.7	1.1	0.5	3.8
7.....	0.1	0.8	1.0	0.6	2.4
8.....	7.3	1.1	1.0	0.7	1.8
9.....	27	0.8	0.7	0.7	1.5
0.....	16	0.6	0.6	0.6	1.2
1.....	14	0.6	0.8	0.5	1.1
2.....	3.8	0.3	9.6	0.5	1.1
3.....	2.6	0.2	5.9	0.3	1.1
4.....	2.0	0.2	3.6	0.2	0.8
5.....	1.5	0.3	1.4	0.2	0.3
6.....	1.4	0.2	0.5	0.3	0.2
7.....	1.2	0.3	0.2	0.2	0.2
8.....	0.6	0.3	0.2	0.2	0.3
9.....	0.7	0.2	1.4	0.2	0.5
0.....	5.6	0.2	3.4	0.2	0.6
1.....	0.2	0.2	0.1	0.2	.....
Total	84.1	27.0	62.9	19.2	285.6	19.5
Mean.	4.95	0.87	2.10	0.62	9.21	0.65
Max...	27	2.8	14	2.1	234	8.4
Min...	0.1	0.2	0.2	0.1	0.1	0.1
Acre-ft.	167	54	125	38	566	39

Total run-off for period=989 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mud Creek Near Caddoa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....							0	0	0	0	0	0.1
2.....							0	0	0	0	0	0.1
3.....							0	0	0	0	113	0.1
4.....							0	0	0	0	5.0	0.1
5.....							0	0	0	0	0	0.1
6.....							0	0	0	0	0	0.1
7.....							0	0	0	0	0	0.1
8.....							0	0	0	0	0	0.1
9.....							0	0	70	0	0	0.1
10.....							0	0	3.5	0	0	0.1
11.....							0	0	0	0	0	0.1
12.....							0	0	0	0	0	0.1
13.....							0	0	0	0	0	0.1
14.....							0	0	0	0	193	0.1
15.....							0	0	0	0	8.0	0.1
16.....							0	0	0	0	3.5	0.1
17.....							0	0	0	0	0.1	0.1
18.....							0	0	0	0	0.1	0.1
19.....							310	0	0	0	0.1	0.1
20.....							114	0	0	0	0.1	0.1
21.....							20	0	3.0	0	0.1	0.1
22.....							7.0	0	0	0	0.1	0.1
23.....							0	0	0	0	0.1	0.1
24.....							0	0	0	0	0.1	0.1
25.....							0	0	0	0	0.1	0.1
26.....							0	0	0	0	0.1	0.1
27.....							0	0	0	0	0.1	0.1
28.....							0	0	0	0	0.1	0.1
29.....							0	0	1.9	0	0.1	0.1
30.....							0	0	0	0	0.1	0.1
31.....							0	.....	0	0.1	.....
Total.....							451.0	0	78.4	0	324.0	3.6
Mean.....							15.0	0	2.61	0	10.5	0.10
Max.....							310	0	70	0	193	0.1
Min.....							0	0	0	0	0	0.1
Acre-ft.....							895	0	0	0	643	6.0

Total run-off for period=1700 acre-feet.

Discharge of Big Sandy Creek Above Amity Canal Diversion Near Korman, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	6.4	1.8	1.4	0.3	0	3.1	19	99	1.6	1.6	0.1	1.7
2.....	3.8	2.4	1.8	0.1	1.3	5.3	9.3	71	1.7	1.3	0.2	2.1
3.....	2.0	2.4	1.8	0	1.3	4.9	2.1	82	1.4	1.0	0.8	1443
4.....	6.0	3.1	2.3	.....	0.4	5.3	2.3	244	1.7	0.7	0.5	2060
5.....	2.4	3.8	2.4	.....	0.4	3.8	2.0	182	2.0	0.6	789	435
6.....	2.1	4.9	2.0	.....	0.6	1.8	2.0	139	2.1	0.4	312	155
7.....	1.6	3.8	1.8	.....	0.4	2.0	5.6	58	5.3	0.3	78	108
8.....	1.4	4.9	1.7	.....	0.5	2.3	5.6	45	3.0	0.1	42	89
9.....	1.6	6.4	1.6	0.1	1.0	6.0	5.6	35	3.3	0.1	47	62
10.....	1.6	6.0	1.2	0.3	0.9	0.6	3.1	24	3.0	0.7	75	39
11.....	1.4	8.0	1.0	0.6	*0.8	1.0	3.1	18	1.9	0.2	36	30
12.....	1.4	8.0	1.5	0.8	0.7	5.59	3.1	14	8.8	0	31	25
13.....	1.6	6.8	1.3	*1.0	0.6	1600	3.1	8.8	1.7	.....	10	23
14.....	2.0	8.4	1.7	1.1	0.5	1630	2.8	6.4	24	.....	18	24
15.....	2.1	8.4	2.2	1.2	0.6	1120	2.8	3.8	12	.....	52	22
16.....	2.4	8.4	3.0	1.3	0.2	575	3.1	2.4	8.0	.....	136	11
17.....	2.0	8.8	2.5	1.1	0	360	4.9	1.4	4.6	.....	525	15
18.....	1.7	11	2.3	1.0	.....	188	2.0	1.3	7.2	.....	168	12
19.....	1.4	10	2.8	0.9	.....	107	3.0	1.6	32	0.5	64	8.4
20.....	1.3	9.6	2.7	1.0	0.2	70	28	0.9	65	0.6	37	7.2
21.....	1.7	1.5	2.9	1.1	0.3	44	26	1.0	43	1.4	35	6.0
22.....	1.8	0.9	2.3	1.2	0.6	42	22	1.0	21	0.6	26	6.4
23.....	45	1.0	1.6	1.3	0.9	35	24	1.0	14	.....	17	4.2
24.....	15	4.6	1.3	1.2	0.7	35	28	0.9	12	.....	7.6	2.3
25.....	8.0	1.7	1.2	1.0	0.6	35	41	0.9	8.8	0.1	4.6	1.8
26.....	9.2	2.1	1.0	0.8	0.5	28	481	0.8	4.2	.....	3.5	1.0
27.....	3.5	2.0	0.8	0.9	0.8	24	530	0.5	2.0	.....	2.8	1.0
28.....	3.1	2.0	0.8	0.9	1.6	22	236	0.5	1.6	0.2	1.8	0.6
29.....	3.5	2.0	0.8	0.9	.....	21	133	0.4	1.6	.....	1.0	0.3
30.....	2.4	1.7	0.8	0.3	.....	19	102	1.0	1.6	.....	0.8	0.2
31.....	1.4	.....	0.6	0.1	.....	19	.....	1.1	.....	0.5	0.9	.....
Total.....	140.8	146.4	53.1	20.5	16.4	6569.1	1780.5	1044.7	436.2	10.9	2522.6	4596.2
Mean.....	4.54	4.88	1.71	0.66	0.59	212	59.4	33.7	14.5	0.35	81.4	153
Max.....	45	11	3.0	1.3	1.6	1630	530	244	65	1.6	789	2060
Min.....	1.3	0.9	0.6	0	0	0.6	2.0	0.4	1.4	0	0.1	0.2
Acre-ft.....	279	290	105	41	33	13030	3530	2070	865	22	5000	9120

Total run-off for water year=34,380 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Wild Horse Creek at Holly, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.5	0	0	1.5	0.1	4.3	11	51	229	244	2.6	202
2.....	2.5	0	0	1.2	0	3.8	13	30	175	112	0.2	147
3.....	1.1	0	0	1.0	0	3.5	3.3	14	95	111	0	137
4.....	1.4	0.2	0	2.4	1.1	3.6	1.2	9.3	84	192	0	89
5.....	1.8	0	0	0	2.8	3.6	3.2	0	3.2	149	0.1	13
6.....	0.7	0	0	0	4.1	3.6	0.9	30	2.3	104	0	0
7.....	0.4	0	0	0	6.2	5.2	0	198	1.5	69	0	3.2
8.....	0.5	0	*0	0	8.8	5.0	0	215	98	99	0	0
9.....	0.2	0	0	2.5	11	2.8	6.0	224	10	119	0	0
10.....	0	0.4	0	1.0	12	1.7	2.9	154	0.2	49	0	0
11.....	0	3.6	0	0	13	1.6	1.3	27	0.2	5.8	0	0.2
12.....	0	3.1	0	0	10	0.3	0	4.2	1.2	2.1	0	0
13.....	0	2.5	0	0.4	0	0.3	212	7.9	1.2	84	0	0
14.....	0	2.5	0	1.7	0.1	0.2	7.6	43	1.8	19	0	0
15.....	0	2.5	0	2.8	1.2	0	0.2	63	8.6	78	0	0
16.....	0	2.8	0	2.1	0	1.6	0	95	350	98	0.3	0
17.....	0	2.1	0	0.7	5.5	1.5	0	133	16	136	0	0
18.....	0	0.9	0	0.2	8.0	0.3	0	76	93	157	8.2	0
19.....	0	1.1	0.2	2.5	8.3	0.8	0	34	100	129	2.9	0
20.....	0.2	0.1	0.2	0.9	5.7	0	0.9	29	92	175	3.3	0
21.....	0.3	0	0	1.0	5.0	0	0	40	116	150	10.2	0
22.....	0	0	0	0	5.7	0	0.2	113	158	70	138	5.2
23.....	0	0.6	0.3	0	4.3	0.4	2.6	27	27	101	172	15
24.....	0	0	0.7	0	3.9	3.2	0.9	0	56	53	227	33
25.....	0	0	4.3	0.4	6.4	4.5	0.3	0	94	12	217	65
26.....	0	0	0.8	0	5.9	5.8	0.3	10	160	87	168	110
27.....	0	0	0	0	3.8	6.2	0.9	74	79	11	220	130
28.....	0	0	0	*0	4.6	7.0	14	69	105	15	168	114
29.....	0	0	0.9	0.5	.....	7.5	170	83	72	16	150	150
30.....	0	0	0.4	0	.....	9.2	168	102	110	9.0	149	125
31.....	0	.....	0.4	0.2	.....	13	.....	99	.....	0.9	190	.....
Total	11.6	22.4	8.2	23.0	137.5	100.5	620.7	2054.4	2339.2	2656.8	1974.4	1338.6
Mean.	0.37	0.75	0.26	0.74	4.91	3.24	20.7	66.3	78.0	85.7	63.7	44.6
Max.	2.5	3.6	4.3	2.8	13	13	212	224	350	244	227	202
Min.	0	0	0	0	0	0	0	0	0.2	0.9	0	0
Acre-ft.	23.0	44.4	16.3	45.6	273	199	1230	4070	4640	5270	3920	2660

Total run-off for water year=22,390 acre-feet.

Discharge of Wild Horse Creek Near Holly, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	123	10	68	38	0	22	1.0	1	0	34	0	0
2.....	132	9.3	24	45	0	4.3	1.4	0	0	24	0	0
3.....	108	9.2	14	45	0	4.3	0	0	5.5	40	8.5	0
4.....	128	9.3	58	45	0	13	18	0	0	70	10	8.8
5.....	138	30	60	45	0	25	7.6	0	14	70	6.4	113
6.....	110	9.0	30	25	0	71	6.4	0	0	70	33	88
7.....	79	7.9	16	25	0	9.1	65	0	16	30	65	76
8.....	31	6.8	18	87	0	0	62	67	64	45	114	65
9.....	46	5.5	7.2	87	0	0	8.5	85	123	34	108	107
10.....	71	5.8	0.3	87	2.4	0	2.3	66	65	70	161	95
11.....	119	3.2	10	87	7.6	0	0	66	99	75	135	74
12.....	114	0.2	12	78	7.6	0	0	66	87	70	123	82
13.....	120	0.1	13	57	31	0	0	1.8	78	62	162	64
14.....	182	84	12	14	54	0	0	0	61	80	178	54
15.....	164	196	8.6	6.5	52	0	0	0	108	70	155	29
16.....	120	292	6.8	4.2	108	0	0	10	86	30	170	30
17.....	110	277	9.0	8.6	117	0	0.7	7.0	74	10	51	13
18.....	112	203	12	2.9	117	0	37	18	4.0	0	85	12
19.....	114	170	93	2.9	117	0	37	10	0.6	0	85	16
20.....	108	147	182	2.9	120	0	38	0.5	72	0	96	11
21.....	123	150	186	6.2	110	0	24	0.0	223	0	18	9.8
22.....	125	150	180	6.2	93	0	*12	4.0	94	0	85	9.1
23.....	143	202	181	6.2	99	0	*3	5.8	166	27	54	3.4
24.....	210	188	136	6.2	68	3.1	3	0.5	42	0	51	0
25.....	75	181	96	4.8	*3	3.1	3	0.5	9.4	0	51	0.7
26.....	40	212	96	5.2	6	2.2	3	0	9.4	0	32	0.4
27.....	36	182	70	3.5	4	1.0	3	0	9.4	0	117	2.2
28.....	45	193	27	0	4	0	3	0	9.4	0	73	26
29.....	27	165	24	0	.....	0	2	0	9.4	0	5.8	49
30.....	10	138	20	0	.....	0	1	4.2	144	0	0	57
31.....	10	.....	21	0	.....	3.1	.....	0	.....	0	0	.....
Total	3073	3216.4	1690.9	831.3	1120.6	161.2	341.9	413.3	1673.1	911	2232.7	1095.4
Mean.	99.1	107	54.5	26.8	40.0	5.20	11.4	13.3	55.8	29.4	72.0	36.5
Max.	213	292	186	87	120	71	65	85	223	80	178	113
Min.	10	0.1	0.3	0	0	0	0	0	0	0	0	0
Acre-ft.	6100	6380	3350	1650	2220	320	678	820	3320	1810	4430	2170

Total run-off for water year=33,250 acre-feet.

* Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Holly Drain Near Holly, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	46	12	10	12	33	5.9	14	67	92	27	29	35
2.....	30	12	10	9.8	33	5.9	32	66	128	49	26	29
3.....	29	12	10	8.2	29	5.7	25	58	42	53	21	28
4.....	28	12	10	7.6	23	5.4	23	49	53	42	20	30
5.....	25	13	10	7.6	23	5.7	23	42	40	43	25	26
6.....	23	12	9.8	8.2	12	5.7	23	45	30	54	19	30
7.....	19	12	9.4	12	9.1	5.7	31	51	27	52	18	28
8.....	19	12	9.4	12	8.5	5.9	28	49	78	62	19	24
9.....	18	13	9.8	9.4	7.3	5.9	16	42	30	55	19	22
10.....	17	11	10	13	5.9	5.9	13	49	22	44	20	23
11.....	15	11	10	17	5.1	6.2	14	64	20	42	22	25
12.....	14	9.8	11	18	4.2	7.9	18	57	19	33	22	25
13.....	12	7.9	10	18	9.1	20	168	48	18	61	21	22
14.....	12	11	10	22	28	22	44	40	19	54	22	20
15.....	12	16	10	23	9.1	22	19	36	22	69	26	18
16.....	12	17	10	24	8.5	18	18	30	38	90	27	10
17.....	12	16	10	16	8.2	15	15	23	13	85	22	7.4
18.....	12	15	10	18	7.9	15	14	25	17	59	27	10
19.....	13	14	10	34	7.1	13	15	24	20	46	30	17
20.....	13	14	10	42	6.5	14	15	38	17	57	28	19
21.....	14	13	10	45	6.5	15	38	56	25	53	59	27
22.....	16	13	11	32	5.9	15	42	78	46	50	69	35
23.....	17	14	12	26	5.9	12	35	52	28	45	77	37
24.....	15	13	12	23	6.2	11	32	40	27	39	83	41
25.....	14	13	13	22	5.9	11	28	38	62	30	59	34
26.....	14	11	13	18	5.9	11	25	32	118	49	58	34
27.....	14	12	14	18	5.9	10	27	34	30	34	56	34
28.....	13	12	13	22	5.9	7.1	24	33	21	42	45	34
29.....	12	11	12	26	.....	7.6	52	40	19	40	45	37
30.....	13	11	11	31	.....	11	121	37	19	34	40	35
31.....	13	.....	9.1	33	.....	13	.....	40	.....	27	38	.....
Total	536	375.7	329.5	627.8	325.6	334.5	992	1383	1140	1520	1092	796.4
Mean...	17.3	12.5	10.6	20.3	11.6	10.8	33.1	44.6	38.0	49.0	35.2	26.5
Max....	46	17	14	45	33	22	168	78	128	90	83	41
Min....	12	7.9	9.1	7.6	4.2	5.4	13	23	13	27	18	7.4
Acre-ft.	1060	745	654	1250	646	663	1970	2740	2260	3010	2170	1580

Total run-off for water year=18,750 acre-feet.

Discharge of Holly Drain at State Line Near Holly, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	26	18	24	20	13	24	18	20	51	89	30	24
2.....	26	16	17	16	14	20	15	19	59	77	28	24
3.....	25	16	16	16	14	21	7.3	18	61	68	29	25
4.....	26	17	21	16	14	19	5.2	18	63	58	30	27
5.....	25	16	23	16	14	18	50	16	50	49	31	56
6.....	24	16	17	16	14	17	86	16	42	38	33	71
7.....	28	16	16	16	14	18	45	16	54	38	37	70
8.....	30	16	18	15	14	17	23	15	110	38	40	70
9.....	24	16	20	15	13	16	63	27	145	87	47	68
10.....	23	16	20	15	15	15	68	74	66	83	64	67
11.....	22	17	22	15	16	14	62	84	54	82	88	66
12.....	22	17	22	15	14	14	50	66	50	76	71	66
13.....	22	17	22	16	13	14	50	57	48	66	73	68
14.....	22	17	24	16	15	13	47	69	43	60	73	63
15.....	20	17	24	15	14	13	45	36	38	46	71	62
16.....	19	19	24	16	13	13	52	39	33	38	67	61
17.....	18	20	24	16	17	13	63	49	30	32	64	60
18.....	18	21	24	16	16	13	89	30	71	28	60	53
19.....	18	22	22	16	17	14	78	26	61	26	54	50
20.....	17	20	22	16	17	14	48	32	36	22	50	44
21.....	17	22	22	16	18	13	41	66	39	21	45	42
22.....	18	23	22	16	19	13	29	52	30	19	35	39
23.....	35	21	22	16	19	13	25	52	26	24	43	37
24.....	26	22	22	16	20	13	26	50	28	26	40	34
25.....	26	23	24	16	21	12	35	53	66	24	33	33
26.....	22	23	24	16	21	10	76	53	54	26	29	34
27.....	21	23	21	16	23	11	114	53	48	24	25	35
28.....	22	22	21	15	24	12	57	52	41	23	39	35
29.....	21	23	22	14	.....	13	24	51	100	22	26	35
30.....	19	35	22	14	.....	12	22	59	89	26	22	35
31.....	18	.....	22	13	.....	14	.....	51	.....	32	24	.....
Total	700	587	666	486	456	456	1413.5	1310	1686	1368	1401	1454
Mean...	22.6	19.6	21.5	15.7	16.3	14.7	47.1	42.3	56.2	44.1	45.2	48.5
Max....	35	35	24	20	24	24	114	84	145	89	88	71
Min....	17	16	16	13	13	10	5.2	15	26	19	22	24
Acre-ft.	1390	1160	1320	964	904	904	2800	2600	3310	2710	2780	2880

Total run-off for water year = 23,750 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

RIO GRANDE RIVER BASIN

RIO GRANDE RIVER AT THIRTY MILE BRIDGE, NEAR CREEDE, COLORADO

Location—Water stage recorder in Sec. 13, T. 40 N., R. 4 W., 500 feet upstream from Squaw Creek, $\frac{3}{4}$ mile downstream from Rio Grande Reservoir, and 20 miles southwest of Creede.

Drainage Area—163 square miles. Altitude 9,380 feet above mean sea level.

Records Available—June 18, 1909 to September 30, 1923; May 16, 1925 to September 30, 1942.

Maximum discharge during period 1909-1923, 1925-1942; 7,500 second feet June 28, 1927. Gage height 7.03 feet.

Maximum Discharge—Year 1941; 2,680 second feet June 19. Gage height 5.08 feet.

Maximum Discharge—Year 1942; 2,050 second feet June 8. Gage height 4.59 feet.

Accuracy—Records considered good except those for periods of ice effect November 10, 1940 to March 31, 1941, and from November 24, 1941 to April 16, 1942, which were computed on basis of reservoir gate openings.

Diversions for storage above station. Flow regulated by Rio Grande Reservoir, capacity 45,800 acre-feet, just above station.

RIO GRANDE RIVER AT WASON, BELOW CREEDE, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 8, T. 41 N., R. 1 E., at Wason, 1 $\frac{1}{2}$ miles downstream from Willow Creek, and 3 miles southeast of Creede.

Drainage Area—705 square miles. Altitude 8,591 feet above mean sea level.

Records Available—April 24, 1907 to September 30, 1942.

Maximum discharge during period 1907-1942; 9,750 second feet June 28, 1927. Gage height 7.76 feet.

Maximum Discharge—Year 1941; 5,200 second feet June 19. Gage height 5.00 feet.

Maximum Discharge—Year 1942; 4,750 second feet June 9. Gage height 4.59 feet.

Accuracy—Records considered good except those for periods of ice effect November 30, 1940, to December 5, and December 31, 1941 to March 7, 1942, which were computed on basis of discharge measurements, weather reports, and comparison with record at Del Norte, and are fair.

Diversions for irrigation above station. Flow regulated by three reservoirs, total capacity 117,600 acre-feet.

RIO GRANDE RIVER NEAR DEL NORTE, COLORADO

Location—Water stage recorder in Sec. 29, T. 40 N., R. 5 E., 5 miles upstream from Pinos Creek, and 6 miles west of Del Norte, at State Bridge. From 1889 to September, 1907, station maintained at site four miles downstream, records are comparable.

Drainage Area—1,320 square miles. Zero of gage is 7,982.21 feet above mean sea level, datum of 1929.

Records Available—October 11, 1889 to September 30, 1942.

Maximum discharge during period 1889-1942; 18,000 second feet October 5, 1911, from rating curve extended above 6,000 second feet. Gage height 6.80 feet.

Maximum Discharge—Year 1941; 7,960 second feet June 19. Gage height 5.56 feet.

Maximum Discharge—Year 1942; 7,150 second feet May 27. Gage height 5.09 feet.

Accuracy—Records considered excellent except those for periods of ice effect, November 11, 1940 to March 31, 1941, April 2-4, December 22, 1941 to April 1, 1942, April 3-5, 7, 1942, which were computed on basis of eight and five discharge measurements, weather records, and are fair.

Diversions for irrigation above station. Flow regulated by three reservoirs above station, total capacity 117,600 acre feet, and by several smaller ones.

RIO GRANDE RIVER NEAR MONTE VISTA, COLORADO

Location—Water stage recorder at west line of Sec. 19, T. 39 N., R. 8 E., where Gunbarrel Highway crosses river 2 miles north of Monte Vista.

Drainage Area—1,590 square miles (revised). Zero of gage is 7,654.54 feet above mean sea level, datum of 1929.

Records Available—May 1, 1926 to September 30, 1942.

Maximum discharge during period 1926-1942; 18,500 second feet June 30, 1927. Gage height 7.85 feet.

Maximum Discharge—Year 1941; 5,240 second feet June 25. Gage height 6.22 feet.

Maximum Discharge—Year 1942; 5,420 second feet June 9. Gage height 5.96 feet.

Accuracy—Records considered excellent except those for periods of ice effect December 5, 1940 to March 6, 1941, and from November 14, 1941 to April 1, 1942, which were estimated, and are fair.

Diversions for irrigation above station. Flow regulated by three main reservoirs, total capacity 117,600 acre-feet, and by several small reservoirs.

RIO GRANDE RIVER AT ALAMOSA, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 4, T. 37 N., R. 10 E., $\frac{1}{4}$ mile northwest of Alamosa, and 7 miles upstream from Alamosa Creek. Prior to November 6, 1935, at site at highway bridge in Alamosa.

Drainage Area—1,710 square miles (revised). Zero of gage is 7,532.66 feet above mean sea level, datum of 1929. Datum lowered 1.00 foot, July 1, 1942.

Records Available—May 15, 1912 to September 30, 1942.

Maximum discharge during period 1912-1942: 14,000 second feet July 1, 1927. Gage height 8.37 feet.

Maximum Discharge—Year 1941; 4,910 second feet June 26. Gage height 7.81 feet.

Maximum Discharge—Year 1942; 3,800 second feet June 10. Gage height 7.63 feet.

Accuracy—Records considered good except those for periods of ice effect November 16, 1940 to March 20, 1941, November 24, 1941 to March 24, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

RIO GRANDE RIVER ABOVE MOUTH OF TRINCHERA CREEK NEAR LA SAUSES, COLORADO

Location—Water stage recorder in Sec. 35, T. 36 N., R. 11 E., $\frac{1}{4}$ mile upstream from Trinchera Creek and 5 miles north of Las Sauses.

Drainage Area—5,740 square miles (includes 2,940 square miles in closed basin).

Records Available—May, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; that of June 28, 1941.

Maximum Discharge—Year 1941; 4,740 second feet June 28, from rating curve extended above 4,000 second feet. Gage height 8.77 feet.

Maximum Discharge—Year 1942; 3,870 second feet June 12. Gage height 7.97 feet.

Accuracy—Records considered good except those for periods of ice effect November 17, 1940 to March 20, 1941, and December 18, 1941 to March 25, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

RIO GRANDE RIVER NEAR LOBATOS, COLORADO

Location—Water stage recorder in Sec. 22, T. 33 N., R. 11 E., 6 miles north of Colorado-New Mexico State line, 7 miles downstream from Culebra Creek, at highway bridge 10 miles east of Lobatos.

Drainage Area—7,700 square miles (includes 2,940 square miles in closed basin). Zero of gage is 7,426.79 feet above mean sea level, datum of 1929.

Records Available—June 28, 1899 to September 30, 1942.

Maximum discharge during period 1899-1942; 13,100 second feet June 8, 1905, from rating curve extended above 8,000 second feet.

Maximum Discharge—Year 1941; 8,090 second feet May 16. Gage height 6.83 feet.

Maximum Discharge—Year 1942; 5,580 second feet May 13. Gage height 5.50 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 20-22, December 13, 1940 to February 6, 1941, March 1-5, and December 19, 1941 to March 13, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station. Flow regulated by many reservoirs on headwaters.

CLEAR CREEK BELOW CONTINENTAL RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 22, T. 42 N., R. 3 W., 1,000 feet downstream from Continental Reservoir, and 15 miles west of Creede.

Drainage Area—49 square miles.

Records Available—May 1, 1929 to September 30, 1942.

Maximum discharge during period 1929-1942; 313 second feet May 4, 1937. Gage height 3.41 feet.

Maximum Discharge—Year 1941; 264 second feet July 3. Gage height 3.23 feet.

Maximum Discharge—Year 1942; 251 second feet May 23. Gage height 2.89 feet.

Accuracy—Records considered good except those during winter period, and period of missing gage heights October 4-7, 1940, July 13, 14, 29 to August 2, 1941, and October 20 to November 2, 1941, September 24-30, 1942, which were computed on basis of gate openings at Continental Reservoir above station, and are fair.

Flow regulated by Continental Reservoir above station, capacity 26,700 acre-feet.

GOOSE CREEK NEAR WAGON WHEEL GAP, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 26, T. 40 N., R. 1 E., 2 miles downstream from Humphrey Reservoir, 1 $\frac{1}{2}$ miles downstream from Roaring Fork, and 6 miles south of Wagon Wheel Gap.

Drainage Area—51 square miles.

Records Available—October 1, 1939 to September 30, 1942.

Maximum discharge during period 1939-1942; that of June 23, 1941.

Maximum Discharge—Year 1941; 780 second feet June 23, from rating curve extended above 500 second feet. Gage height 2.99 feet.

Maximum Discharge—Year 1942; 548 second feet June 11. Gage height 2.40 feet.

Accuracy—Records considered good except those for periods of ice effect December 17, 1940 to April 1, 1941, and those for periods of missing gage heights July 2-5, August 19-27, 1941, October 15-20, 1941, Sept. 21-24, 1942, which were estimated.

No diversions for irrigation above station. Flow is not regulated as Humphrey Reservoir is used for fish pond, and is not regulated.

SOUTH FORK OF RIO GRANDE RIVER AT SOUTH FORK, COLORADO

Location—Water stage recorder in Sec. 4, T. 39 N., R. 3 E., $1\frac{1}{4}$ miles upstream from mouth, and $1\frac{1}{2}$ miles southwest of South Fork. From 1910 to 1922 station maintained at site 1 mile downstream, records are comparable.

Drainage Area—216 square miles. Zero of gage is 8,221.79 feet above mean sea level, datum of 1929.

Records Available—August, 1910 to September 30, 1922; May 4, 1936 to September 30, 1942.

Maximum discharge during period 1910-1922, 1936-1942; 8,000 second feet October 5, 1911, from rating curve extended above 1,500 second feet. Gage height 9.70 feet from flood marks, present site and datum.

Maximum Discharge—Year 1941; 2,220 second feet June 23, from rating curve extended above 1,700 second feet. Gage height 5.84 feet.

Maximum Discharge—Year 1942; 1,730 second feet May 26. Gage height 5.18 feet.

Accuracy—Records considered excellent except those for periods of ice effect, November 6, 1940 to March 29, 1941, and December 12, 1941 to April 8, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation and several small storage reservoirs above station.

PINOS CREEK NEAR DEL NORTE, COLORADO

Location—Water stage recorder and Parshall Flume in Sec. 29, T. 39 N., R. 5 E., just downstream from Bennett Creek, and 8 miles southwest of Del Norte.

Drainage Area—53 square miles.

Records Available—May, 1919 to September, 1924; May, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; 720 second feet by slope area measurement August 3, 1936. Gage height 4.19 feet.

Maximum daily discharge during period 1919-1924, 1936-1942; 2,400 second feet June 3, 1922.

Maximum Discharge—Year 1941; 416 second feet August 6. Gage height 2.86 feet.

Maximum Discharge—Year 1942; 443 second feet May 26. Gage height 3.33 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 11, 1940 to March 27, 1941, and April 1-7, 1942, which were estimated, and are fair.

One small diversion for irrigation above station.

SAN FRANCISCO CREEK NEAR DEL NORTE, COLORADO

Location—Water stage recorder in Sec. 31, T. 39 N., R. 6 E., $1\frac{1}{2}$ miles downstream from East Fork and 6 miles south of Del Norte.

Drainage Area—13.1 square miles.

Records Available—April, 1936 to September 30, 1942. (Discontinued.)

Maximum discharge during period 1936-1942; 364 second feet (slope area method) July 27, 1936. Gage height 1.47 feet.

Maximum Discharge—Year 1941; 357 second feet June 24. Gage height 1.48 feet.

Maximum Discharge—Year 1942; 75 second feet May 26. Gage height 0.97 feet.

Accuracy—Records considered good except those for periods of ice effect November 4-6, 12, 1940, to April 8, 1942, and May 1-3, 1942, which were computed on basis of three discharge measurements, and are fair.

Small diversions for irrigation above station.

ROCK CREEK NEAR MONTE VISTA, COLORADO

Location—Water stage recorder and eight-foot Parshall Flume in SE $\frac{1}{4}$ Sec. 36, T. 38 N., R. 6 E., 3 miles downstream from North Fork, and 9 miles southwest of Monte Vista. During period April, 1919, to September, 1924, water stage recorder at site $1\frac{1}{2}$ miles downstream.

Drainage Area—33.6 square miles.

Records Available—April, 1919 to September, 1924; May, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 161 second feet May 13. Gage height 2.63 feet.

Maximum Discharge—Year 1942; 136 second feet May 26. Gage height 2.36 feet.

Accuracy—Records considered excellent except those estimated April 1-5, 1942.

Diversions for irrigation above station.

ALAMOSA RIVER ABOVE TERRACE RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 8, T. 36 N., R. 6 E., 3 miles upstream from Terrace Reservoir Dam, and 15 miles northwest of Capulin.

Drainage Area—107 square miles.

Records Available—September, 1911 to June, 1912; April, 1914 to October, 1919; October, 1923 to September, 1927; October, 1934 to September 30, 1942.

Maximum discharge during period 1911-1912, 1914-1919, 1923-1927, 1934-1942; 5,200 second feet October 5, 1911, computed by weir formula. Gage height 11.0 feet, datum then in use, from flood marks.

Maximum Discharge—Year 1941; 1,800 second feet May 13, from rating curve extended above 1,100 second feet. Gage height 4.20 feet.

Maximum Discharge—Year 1942; 1,310 second feet May 27. Gage height 3.74 feet.

Accuracy—Records considered good except those during periods October 26 to 31, 1940, April 1-20, 1941, September 7, 8, 15, 16, 20, 21, 22, 23, 29, 30, 1941, October 5-8, 14-16, 20-23, 27-31, 1941, which were estimated and are fair.

No diversions above station.

ALAMOSA RIVER BELOW TERRACE RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 23, T. 36 N., R. 6 E., in canyon $\frac{1}{2}$ mile downstream from Terrace Reservoir Dam, and 11 miles northwest of Capulin.

Drainage Area—116 square miles. Altitude 8,400 feet above mean sea level.

Records Available—April 18, 1909 to September 30, 1912; April 1, 1915 to October 31, 1915; February 1, 1917 to October 31, 1920; April 1, 1922 to September 30, 1942.

Maximum daily discharge during period 1909-1912, 1915, 1917-1920, 1922-1942; 1,450 second feet June 16-17-18, 1917.

Maximum Discharge—Year 1941; 1,240 second feet June 20. Gage height 5.47 feet.

Maximum Discharge—Year 1942; 1,060 second feet May 28. Gage height 4.76 feet.

Accuracy—Records considered good. Winter flows estimated

on basis of reservoir gate openings from November 12, 1940 to March 28, 1941; November 17, 1941 to March 28, 1942. Discharge estimated during period of missing gage heights September 18-30, 1942.

Diversions for storage above station. Flow regulated by Terrace Reservoir, capacity 17,700 acre-feet.

LA JARA CREEK AT GALLEGOS RANCH, NEAR CAPULIN, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 32, T. 34 N., R. 7 E., 2 miles upstream from old station called "La Jara Creek near Capulin" (records not comparable), 2 $\frac{1}{4}$ miles upstream from Canyon del Rancho, 11 miles southwest of Capulin, and 11 $\frac{1}{2}$ miles downstream from La Jara Reservoir.

Drainage Area—79 square miles.

Records Available—May 1, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; 653 second feet April 15, 1937. Gage height 5.94 feet.

Maximum Discharge—Year 1941; 538 second feet May 13. Gage height 5.39 feet.

Maximum Discharge—Year 1942; 542 second feet April 14. Gage height 5.37 feet.

Accuracy—Records considered good except those during periods of no gage-height April 1-8, 1941, which are fair. No records during winter.

Diversions for storage and irrigation above station. Flow regulated by La Jara Reservoir, capacity 14,040 acre-feet.

TRINCHERA CREEK ABOVE TURNER'S RANCH NEAR FT. GARLAND, COLORADO

Location—Water stage recorder in Sec. 2, T. 31 S., R. 71 W., upstream from Turner's Ranch and 7 miles southeast of Ft. Garland. Station just downstream from confluence of North and South Forks.

Drainage Area—45 square miles.

Records Available—April 1, 1923 to September 30, 1942.

Maximum discharge during period 1923-1942; that of May 27, 1942.

Maximum Discharge—Year 1941; 478 second feet May 15, from rating curve extended above 200 second feet. Gage height 2.16 feet.

Maximum Discharge—Year 1942; 689 second feet May 27, from rating curve extended above 220 second feet. Gage height 3.32 feet.

Accuracy—Records considered good except those during pe-

riod of missing gage heights April 1-15, 1941, and November 9-30, 1941, which were estimated, and are fair.

No diversions above station.

TRINCHERA CREEK ABOVE MOUNTAIN HOME RESERVOIR, NEAR FT. GARLAND, COLORADO

Location—Water stage recorder in Sec. 31, T. 30 S., R. 71 W., 1½ miles upstream from Mountain Home Reservoir dam, and 4 miles southeast of Ft. Garland.

Drainage Area—61 square miles.

Records Available—May 1, 1923 to September 30, 1942.

Maximum discharge during period 1923-1942; that of May 27, 1942.

Maximum Discharge—Year 1941; 332 second feet May 14, from rating curve extended above 160 second feet. Gage height 2.41 feet.

Maximum Discharge—Year 1942; 391 second feet May 27, from rating curve extended above 220 second feet. Gage height 3.83 feet.

Accuracy—Records considered good except those during period of ice effect November 5-7, 1940, November 15, 1940 to March 25, 1941, and during periods of missing gage heights October 17-31, 1941, November 22-30, 1941, which were estimated, and are fair.

Diversions for irrigation above station.

TRINCHERA CREEK BELOW SMITH RESERVOIR NEAR BLANCA, COLORADO

Location—Water stage recorder in Sec. 5, T. 31 S., R. 73 W., 1 mile downstream from Smith Reservoir, 5 miles southwest of Blanca, and downstream from bridge on Blanca-San Acacia highway.

Drainage Area—396 square miles.

Records Available—October 1, 1929 to September 30, 1942.

Maximum daily discharge during period; 1,340 second feet May 11, 1942.

Maximum Daily Discharge—Year 1941; 640 second feet May 15.

Maximum Daily Discharge—Year 1942; 1,340 second feet May 11.

Accuracy—Records considered good except those for period of no gage-height October 15 to November 30, 1940, May 12-24, 1941, November 27-30, 1941, May 8-22, 1942, May 26-29, July 16, September 30, 1942, which were computed on basis of discharge measurements, and are fair.

Diversions for irrigation and storage above station. Flow regulated by Smith Reservoir, capacity 5,335 acre-feet.

SANGRE DE CRISTO CREEK NEAR FORT GARLAND, COLORADO

Location—Water stage recorder in Sec. 23, T. 30 S., R. 72 W., $1\frac{1}{2}$ miles east of Ft. Garland, and 4 miles upstream from confluence of Ute Creek.

Drainage Area—187 square miles.

Records Available—March 15 to October 9, 1916; May 1, 1923 to September 30, 1942.

Maximum discharge during period 1916, 1923-1942; 1,520 second feet, by slope area method, August 31, 1936. Gage height 6.10 feet.

Maximum Discharge—Year 1941; 756 second feet May 12, from rating curve extended above 450 second feet. Gage height 6.46 feet.

Maximum Discharge—Year 1942; 1,090 second feet May 10. Gage height 7.65 feet.

Accuracy—Records considered good except those during periods of ice effect November 5-7, 1940, November 11, 1940 to March 25, 1941, which were computed on basis of four discharge measurements and weather records, and those during periods of missing gage-height May 9-12, 1942, which are fair.

Diversions for irrigation above station.

UTE CREEK AT FORKS (UPPER STATION) NEAR FT. GARLAND, COLORADO

Location—Water stage recorder in Sec. 12, T. 29 S., R. 72 W., 500 feet downstream from Forks, and 9 miles northeast of Ft. Garland.

Drainage Area—23.3 square miles.

Records Available—May 4 to July 27, 1936; October 1, 1939 to September 30, 1941 (discontinued).

Maximum discharge during period 1936, 1939-1941; that of May 15, 1941.

Maximum Discharge—Year 1941; 686 second feet May 15, from rating curve extended above 175 second feet. Gage height 3.39 feet.

Accuracy—Records considered good except those for period of no gage-height and those from May 14 to June 17, which are fair.

No diversions above station.

UTE CREEK NEAR FT. GARLAND, COLORADO

Location—Water stage recorder in Sec. 2, T. 30 S., R. 72 W., $2\frac{1}{2}$ miles north of Ft. Garland, and 6 miles upstream from mouth.

Drainage Area—32 square miles.

Records Available—March 16 to October 8, 1916; May 1, 1923 to September 30, 1942.

Maximum daily discharge during period 1916, 1923-1942; 630 second feet May 15, 1941.

Maximum Discharge—Year 1941; 630 second feet May 15.

Maximum Discharge—Year 1942; 148 second feet May 11. Gage height 2.35 feet.

Accuracy—Records considered excellent except those during periods of ice effect November 11, 1940 to March 29, 1941, and during period of missing gage-height May 14, 1941 to May 23, and April 1, 2, 1942, which were estimated, and are fair.

Diversions for irrigation above station.

CONEJOS RIVER AT PLATORO, COLORADO

Location—Water stage recorder in Sec. 22, T. 36 N., R. 4 E., $\frac{1}{2}$ mile east of Platoro, and 5 miles downstream from Adams Fork.

Drainage Area—44.4 square miles.

Records Available—April 1, 1937 to September 30, 1942.

Maximum discharge during period 1937-1942; 1,310 second feet June 25, 1941, from rating curve extended above 850 second feet. Gage height 3.15 feet.

Maximum Discharge—Year 1941; 1,310 second feet June 25. Gage height 3.15 feet.

Maximum Discharge—Year 1942; 1,000 second feet June 17, from rating curve extended above 850 second feet. Gage height 2.78 feet.

Accuracy—Records considered good except those estimated during period of missing gage-height June 1, 2, August 2-7, 1942, which are fair.

No diversions above station.

CONEJOS RIVER NEAR MOGOTE, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 34, T. 33 N., R. 7 E., $\frac{3}{4}$ mile downstream from Fox Creek, $5\frac{1}{2}$ miles northwest of Mogote at Broyles Bridge 12 miles west of Antonito.

Drainage Area—282 square miles. Altitude 8,300 feet above mean sea level.

Records Available—September 1, 1899 to March 31, 1900; April 17, 1903 to October 31, 1905, at a point one mile downstream from present site, from March 21, 1907 to October 5, 1911, at site three miles upstream, from January 1, 1912 to September 30, 1942, at present site.

Maximum discharge during period 1899-1900, 1903-1905, 1907-1942; 9,000 second feet (revised) October 5, 1911, from rating curve extended above 3,500 second feet. Gage height 8.50 feet, site and datum then in use.

Maximum Discharge—Year 1941; 3,740 second feet May 14.

from rating curve extended above 3,000 second feet. Gage height 5.08 feet.

Maximum Discharge—Year 1942; 2,780 second feet May 27. Gage height 4.72 feet.

Accuracy—Records considered good except those during periods of ice effect from November 13, 1940 to March 3, 1941, and November 21, 1941 to March 14, 1942, which were computed on basis of six and three discharge measurements respectively, and weather records, and are fair.

No diversions or regulations above station.

CONEJOS RIVER NEAR LA SAUSES, COLORADO

Location—Water stage recorders on two channels in Sec. 2, T. 35 N., R. 11 E., $\frac{1}{2}$ mile upstream from mouth, and 2 miles north of La Sausés. Stream enters Rio Grande River through two channels and published record is combined flow.

Drainage Area—887 square miles. Zero of gage (North Channel) is 7,495.02 feet above mean sea level.

Records Available—March 29, 1921 to September 30, 1942.

Maximum discharge during period 1921-1942; that of May 15, 1941.

Maximum Discharge—Year 1941; 3,890 second feet May 15.

Maximum Discharge—Year 1942; 2,390 second feet May 13.

Accuracy—Records considered good.

Diversions for irrigation above station.

SAN ANTONIO RIVER AT ORTIZ, COLORADO

Location—Water stage recorder in New Mexico, in Sec. 19, T. 32 N., R. 9 E., $\frac{1}{4}$ mile south of Colorado-New Mexico State line, $\frac{1}{2}$ mile south of Ortiz, and $\frac{1}{2}$ mile upstream from Los Pinos Creek.

Drainage Area—110 square miles.

Records Available—January 1 to October 31, 1915; May 1, 1919 to October 31, 1920; October 1, 1924 to September 30, 1942.

Maximum discharge during period 1915, 1919-1920, 1924-1942; 1,750 second feet April 15, 1937, from rating curve extended above 1,100 second feet. Gage height 5.38 feet.

Maximum Discharge—Year 1941; 1,380 second feet May 13, from rating curve extended above 1,100 second feet. Gage height 4.75 feet.

Maximum Discharge—Year 1942; 720 second feet April 23. Gage height 3.50 feet.

Accuracy—Records considered good except those estimated during winter periods November 2, 1940 to April 6, 1941, and November 22, 1941 to April 11, 1942, which are fair.

Small diversions for irrigation above station.

SAN ANTONIO RIVER AT MOUTH NEAR MANASSA, COLORADO

Location—Water stage recorder in Sec. 21, T. 34 N., R. 10 E., 1 mile upstream from mouth, and $2\frac{1}{2}$ miles east of Manassa near highway crossing.

Drainage Area—348 square miles.

Records Available—April 1, 1923 to September 30, 1942.

Maximum discharge during period 1923-1942; that of May 14, 1941.

Maximum Discharge—Year 1941; 2,620 second feet May 14, from rating curve extended above 2,200 second feet. Gage height 6.26 feet.

Maximum Discharge—Year 1942; 1,440 second feet May 12. Gage height 5.72 feet.

Accuracy—Records considered good except those for periods of ice effect November 20, 1940 to March 25, 1941, December 7, 1941 to April 10, 1942, which were based on discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

LOS PINOS RIVER NEAR ORTIZ, COLORADO

Location—Water stage recorder in New Mexico in $N\frac{1}{2}$ Sec. 34, T. 32 N., R. 8 E., 1 mile south of Colorado-New Mexico State line, 2 miles southwest of Ortiz and $2\frac{1}{2}$ miles upstream from mouth.

Drainage Area—167 square miles. Altitude 8,100 feet above mean sea level.

Records Available—January 1, 1914 to November 30, 1920; October 1, 1924 to September 30, 1942.

Maximum discharge during period 1914-1920, 1924-1942; that of May 12, 1941.

Maximum Discharge—Year 1941; 3,160 second feet May 12, from rating curve extended above 1,610 second feet. Gage height 5.77 feet.

Maximum Discharge—Year 1942; 2,000 second feet May 21. Gage height 4.68 feet.

Accuracy—Records considered good except those for periods of ice effect November 2, 1940 to April 1, 1941, and December 14, 1941 to April 5, 1942, which were computed on basis of discharge measurements and weather records, and are fair. Discharges were estimated during periods of missing gage heights June 22-28, 1941, July 20-23, Aug. 1, 2, 1942, Aug. 17-24, 1942.

Diversions for irrigation above station.

CULEBRA RIVER AT SAN LUIS, COLORADO

Location—Water stage recorder in Sec. 35, T. 3 N., R. 72 W., (Beaubien Grant survey) 1 mile southeast of San Luis and $1\frac{1}{2}$

miles upstream from Rito Seco. 12 ft. Parshall flume since May 1, 1931.

Drainage Area—220 square miles.

Records Available—May 1, 1909 to September 2, 1919; April 1, 1927 to September 30, 1942.

Maximum discharge during period 1909-1919, 1927-1942; that of May 30, 1942.

Maximum Discharge—Year 1941; 411 second feet June 24. Gage height 3.84 feet.

Maximum Discharge—Year 1942; 595 second feet May 30. Gage height 4.84 feet.

Accuracy—Records considered good except those for periods of ice effect January 8-14, 1941, January 5-12, 1942, which were estimated, and are fair; and those during periods of missing gage heights June 13 to July 7, 1942, which were computed on basis of two discharge measurements and records of Culebra River below Mill, and are fair.

Diversions for irrigation and storage above station. Flow regulated by Sanchez Reservoir, capacity 103,100 acre-feet.

CULEBRA RIVER BELOW SAN LUIS, COLORADO

Location—Water stage recorder in Sec. 27, T. 3 N., R. 72 W., (Beaubien Grant survey) 500 feet below bridge on State Highway No. 159, 600 feet downstream from Rito Seco, and $\frac{1}{4}$ mile southwest of San Luis. The tail-race from Mill enters immediately upstream.

Drainage Area—255 square miles.

Records Available—August 13, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; that of May 30, 1942.

Maximum Discharge—Year 1941; 630 second feet May 16, from rating curve extended above 300 second feet. Gage height 3.85 feet.

Maximum Discharge—Year 1942; 866 second feet May 30, from rating curve extended above 400 second feet. Gage height 4.54 feet.

Accuracy—Records considered good except those for periods of ice effect November 11-17, 21-24, 26-30, 1940, and December 1, 1940 to March 25, 1941, December 7, 1941 to April 13, 1942, and those for periods of missing gage heights May 6-22, 1942, which were computed on basis of discharge measurements, weather records and comparison with record of Culebra River above San Luis, and are fair.

Diversions for irrigation and storage above station.

CLOSED BASIN IN SAN LUIS VALLEY, COLORADO**LA GARITA CREEK NEAR LA GARITA, COLORADO**

Location—Water stage recorder in Sec. 10, T. 41 N., R. 6 E., at Curby Ranch 4 miles southwest of La Garita postoffice. Gage moved $\frac{1}{4}$ mile upstream November 14, 1935, and set to independent datum. Records comparable.

Drainage Area—61 square miles.

Records Available—April 1, 1919 to September 30, 1942.

Maximum discharge during period 1919-1942; that of May 16, 1941.

Maximum Discharge—Year 1941; 457 second feet May 16, from rating curve extended above 220 second feet. Gage height 5.11 feet.

Maximum Discharge—Year 1942; 282 second feet May 9, Gage height 2.63 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

CARNERO CREEK NEAR LA GARITA, COLORADO

Location—Water stage recorder in Sec. 26, T. 42 N., R. 6 E., 3 miles northwest of La Garita at O'dell Ranch.

Drainage Area—117 square miles.

Records Available—April 1, 1919 to September 30, 1942.

Maximum discharge during period 1919-1942; that of April 14, 1942.

Maximum Discharge—Year 1941; 350 second feet May 14, from rating curve extended above 180 second feet. Gage height 2.21 feet.

Maximum Discharge—Year 1942; 435 second feet April 14, from rating curve extended above 180 second feet. Gage height 2.29 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

SAGUACHE CREEK NEAR SAGUACHE, COLORADO

Location—Water stage recorder in Sec. 11, T. 45 N., R. 6 E., at Ward's Ranch, 10 miles northwest of Saguache.

Drainage Area—595 square miles.

Records Available—August 7, 1910 to September 23, 1912; June 1, 1914 to September 30, 1942.

Maximum discharge during period 1910-1912, 1914-1942; that of May 27, 1942.

Maximum Discharge—Year 1941; 602 second feet May 15,

from rating curve extended above 500 second feet. Gage height 2.54 feet.

Maximum Discharge—Year 1942; 693 second feet May 27, from rating curve extended above 500 second feet. Gage height 2.97 feet.

Accuracy—Records considered good except those for period of missing gage heights October 16-22, 1940, October 25-November 5, November 13, 14, 1940, and during periods of ice effect November 21, 1940 to March 25, 1941, and November 20, 1941 to April 1, 1942, which were estimated, and are fair.

Diversions for irrigation above station.

KERBER CREEK AT ASHLEY RANCH NEAR VILLA GROVE, COLORADO

Location—Water stage recorder in Sec. 7, T. 46 N., R. 8 E., at Ashley Ranch 10 miles west of Villa Grove.

Drainage Area—38 square miles.

Records Available—June, 1923 to September, 1926; May, 1936 to September 30, 1942.

Maximum discharge during period 1923-1926, 1936-1942; that of May 14, 1941.

Maximum Discharge—Year 1941; 407 second feet May 14, from rating curve extended above 150 second feet. Gage height 3.88 feet.

Maximum Discharge—Year 1942; 291 second feet May 27. Gage height 3.34 feet.

Accuracy—Records considered good except those during periods of ice effect November 11, 1940 to March 25, 1941, and those during periods of missing gage heights July 11, 1941 to August 9, which were estimated, and are fair.

No diversions above station.

NORTH CRESTONE CREEK NEAR CRESTONE, COLORADO

Location—Water stage recorder in Sec. 5, T. 43 N., R. 12 E., 1½ miles upstream from Crestone and 3 miles upstream from confluence with South Crestone Creek.

Drainage Area—10.7 square miles.

Records Available—1915, May, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; 735 second feet by slope area method, August 6, 1936. Gage height 4.33 feet.

Maximum Discharge—Year 1941; 375 second feet June 22. Gage height 2.90 feet.

Maximum Discharge—Year 1942; 270 second feet May 26. Gage height 2.54 feet.

Accuracy—Records considered fair.

No diversions above station.

**Discharge of Rio Grande River at Thirty Mile Bridge Near Creede, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	210	51	3	3	3	3	46	296	688	1240	811	384
2.....	190	60	3	3	3	3	46	321	392	1340	732	360
3.....	169	60	3	3	3	3	16	318	14	1400	673	329
4.....	139	53	3	3	3	3	46	318	16	1430	590	321
5.....	177	32	3	3	3	3	47	314	18	1430	564	321
6.....	248	80	3	3	3	3	37	314	20	1360	624	318
7.....	207	47	3	3	3	3	30	202	23	1500	718	229
8.....	188	55	3	3	3	3	30	27	25	974	779	134
9.....	169	3.3	3	3	3	3	30	3.3	53	1160	740	132
10.....	154	3	3	3	3	3	30	4.2	193	1200	740	139
11.....	139	3	3	3	3	3	30	5.4	314	1230	718	116
12.....	128	3	3	3	3	3	30	6.8	392	1240	652	106
13.....	125	3	3	3	3	3	28	7.6	468	1220	603	106
14.....	107	3	3	3	3	3	27	9.2	590	974	484	106
15.....	112	3	3	3	3	3	27	10	725	610	448	106
16.....	107	3	3	3	3	3	27	12	956	577	514	104
17.....	102	3	3	3	3	3	27	14	1790	624	610	119
18.....	95	3	3	3	3	3	37	16	2310	659	645	172
19.....	92	3	3	3	3	3	52	239	2480	695	532	223
20.....	80	3	3	3	3	3	54	835	2250	803	484	348
21.....	86	3	3	3	3	3	55	1160	2160	763	372	107
22.....	84	3	3	3	3	3	55	1310	2210	688	337	164
23.....	86	3	3	3	3	3	55	1290	2250	725	281	27
24.....	78	3	3	3	3	3	55	1290	2250	695	268	7.6
25.....	80	3	3	3	3	3	55	1290	1920	748	329	8.0
26.....	84	3	3	3	3	3	57	886	1940	763	360	8.4
27.....	73	3	3	3	3	3	97	673	2030	827	360	8.8
28.....	64	3	3	3	3	3	177	673	2000	869	360	9.2
29.....	67	3	3	3	.....	3	220	680	1820	779	356	9.8
30.....	80	3	3	3	.....	20	239	680	1240	718	380	9.6
31.....	48	.....	3	3	.....	25	.....	688	.....	811	388	.....
Total	3768	504.3	93	93	84	132	1792	13892.5	33537	29852	16482	4532.4
Mean..	122	16.8	3.0	3.0	3.0	4.26	59.7	448	1118	963	532	151
Max...	248	80	3	3	3	25	239	1310	2480	1430	811	384
Min...	48	3	3	3	3	3	27	3.3	14	577	268	7.6
Acre-ft.	7470	1000	184	184	167	262	3550	27560	66520	59210	32690	8990

Total run-off for water year=207,800 acre-feet.

**Discharge of Rio Grande River at Thirty Mile Bridge Near Creede, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	9.5	232	.....	.....	.....	.....	41	350	1320	875	728	235
2.....	12	224	.....	.....	.....	.....	42	302	1280	843	765	162
3.....	15	219	.....	.....	.....	.....	44	252	1350	875	772	155
4.....	17	214	.....	.....	.....	.....	46	219	1310	942	803	155
5.....	18	212	.....	.....	.....	.....	50	209	1330	1070	803	102
6.....	33	207	.....	.....	.....	.....	49	204	1420	1040	706	80
7.....	25	200	.....	.....	.....	.....	45	209	1670	950	607	79
8.....	50	192	.....	.....	.....	.....	40	230	1920	884	462	79
9.....	46	188	.....	.....	.....	.....	42	258	1810	867	428	80
10.....	42	185	.....	.....	.....	.....	44	298	1720	818	467	80
11.....	38	183	.....	.....	.....	.....	47	346	1770	735	530	80
12.....	35	183	.....	.....	.....	.....	47	391	1810	735	542	93
13.....	32	180	.....	.....	.....	.....	49	391	1770	843	562	110
14.....	31	173	.....	.....	.....	.....	52	362	1700	875	568	117
15.....	29	171	.....	.....	.....	.....	56	338	1550	892	524	115
16.....	28	168	.....	.....	.....	.....	54	324	1420	908	467	106
17.....	26	168	.....	.....	.....	.....	53	320	1490	900	400	89
18.....	26	166	.....	.....	.....	.....	54	324	1560	1040	382	84
19.....	25	162	.....	.....	.....	.....	56	346	1600	967	370	83
20.....	26	158	.....	.....	.....	.....	58	391	1590	795	374	83
21.....	30	151	.....	.....	.....	.....	61	477	1540	742	405	83
22.....	31	147	.....	.....	.....	.....	68	621	1400	692	400	83
23.....	31	143	.....	.....	.....	.....	145	735	1230	677	391	83
24.....	43	154	.....	.....	.....	.....	243	908	1040	649	391	83
25.....	86	148	.....	.....	.....	.....	327	1150	574	635	335	72
26.....	141	140	.....	.....	.....	.....	324	1360	772	628	291	63
27.....	183	130	.....	.....	.....	.....	370	1670	1020	677	294	46
28.....	214	120	.....	.....	.....	.....	366	1570	1160	684	309	42
29.....	230	100	.....	.....	.....	.....	335	1600	1120	706	316	37
30.....	232	95	.....	.....	.....	.....	350	1520	976	706	312	48
31.....	232	.....	.....	.....	.....	.....	.....	1410	.....	699	309	.....
Total	2046.5	5115	1705	1395	980	1240	3558	19085	42222	25349	15013	2806
Mean..	66.0	170	55	45	35	40	119	616	1407	818	484	93.5
Max...	232	232	.....	.....	.....	.....	370	1670	1920	1070	803	235
Min...	9.5	95	.....	.....	.....	.....	40	204	574	628	291	37
Acre-ft.	4060	10150	3380	2770	1940	2460	7060	37850	83750	50280	29780	5570

Total run-off for water year=239,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River at Wason Below Creede, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	535	172	75	52	51	107	228	740	1990	2500	1500	748
2.....	463	188	74	51	48	86	185	785	1990	2550	1430	710
3.....	415	204	74	65	62	92	188	895	1530	2620	1410	606
4.....	365	207	74	72	65	93	188	839	1500	2700	1310	548
5.....	427	151	78	77	88	86	201	863	1470	3220	1290	523
6.....	688	175	80	77	90	95	166	1080	1460	2780	1410	523
7.....	535	194	80	85	93	97	157	1220	1640	2500	1610	580
8.....	457	188	78	88	95	90	169	1090	1710	2250	1730	568
9.....	427	188	78	93	90	97	178	1120	1490	2070	1680	481
10.....	390	142	78	95	95	92	194	1350	1390	2140	1640	457
11.....	352	70	63	97	111	105	175	1700	1400	2200	1570	380
12.....	329	86	60	92	105	93	188	2120	1420	2310	1430	295
13.....	312	77	52	88	109	101	182	2990	1520	2220	1310	307
14.....	299	90	70	86	105	88	182	2670	1700	1940	1210	405
15.....	278	107	90	85	101	88	194	2100	1950	1610	1250	347
16.....	262	99	97	81	88	95	201	1840	2280	1470	1320	329
17.....	250	92	91	80	99	99	198	1910	3270	1480	1350	324
18.....	238	86	57	80	86	95	191	2100	4350	1610	1380	390
19.....	224	75	58	77	85	97	191	2120	4850	1640	1310	499
20.....	221	72	62	71	88	101	204	2100	4690	1710	1220	652
21.....	224	71	72	68	92	111	218	2310	4580	1590	1130	808
22.....	221	101	77	65	97	107	211	2600	4580	1430	1030	548
23.....	218	77	81	58	103	105	207	2530	4690	1380	938	847
24.....	211	71	80	57	95	101	221	2620	4830	1450	800	511
25.....	207	77	72	57	86	85	242	2840	4440	1490	808	451
26.....	204	71	72	56	93	95	266	2770	4210	1490	863	100
27.....	246	67	86	58	88	103	312	2450	4070	1430	847	365
28.....	194	101	85	58	93	105	499	2260	3940	1420	831	342
29.....	214	99	92	63	.....	111	626	2100	3530	1370	823	433
30.....	221	81	67	63	.....	103	718	2020	2820	1410	770	469
31.....	194	.....	56	52	.....	111	.....	1940	.....	1450	762	.....
Total	9821	3479	2309	2247	2501	3034	7280	58072	85290	59430	37972	14846
Mean...	317	116	74.5	72.5	89.3	97.9	243	1873	2843	1917	1225	495
Max...	688	207	97	97	111	111	718	2990	4850	3220	1730	847
Min...	194	67	52	51	48	85	157	740	1390	1370	762	295
Ac.-ft.	19480	6900	4580	4460	4960	6020	14440	115200	169200	117900	75320	29450

Total run-off for water year = 567,900 acre-ft.

Discharge of Rio Grande River at Wason Below Creede, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	400	725	266	110	95	100	188	778	3400	1770	1430	815
2.....	385	710	228	110	95	100	218	770	3260	1670	1530	493
3.....	600	688	211	110	98	100	250	695	3310	1630	1520	395
4.....	632	672	182	108	105	105	329	688	3200	1690	1550	390
5.....	554	658	154	107	110	104	415	792	3260	1760	1520	400
6.....	499	639	142	107	105	90	421	823	3490	1750	1490	314
7.....	445	600	157	105	105	*78	303	929	4050	1650	1330	307
8.....	433	568	157	100	105	85	266	1040	4430	1580	1170	291
9.....	415	606	151	100	100	93	316	1150	4300	1530	1060	278
10.....	400	568	148	105	93	99	427	1360	3900	1480	1080	270
11.....	395	535	148	105	93	113	511	1450	4160	1470	1120	395
12.....	395	523	137	110	98	107	451	1480	4280	1350	1190	360
13.....	755	529	139	110	93	118	535	1280	4010	1420	1300	356
14.....	904	499	131	110	88	120	710	1130	3800	1550	1290	347
15.....	732	499	131	105	82	134	688	1060	3360	1590	1190	334
16.....	658	493	126	100	78	139	639	1020	3330	1680	1120	312
17.....	613	499	126	94	75	148	740	1030	3530	1700	1100	291
18.....	568	487	115	94	73	142	580	1020	3600	1710	1090	266
19.....	568	493	113	92	75	139	481	1090	3760	1740	1110	258
20.....	606	463	115	91	84	151	493	1230	3600	1550	1110	254
21.....	778	439	115	90	94	145	561	1490	3330	1420	1070	250
22.....	808	410	120	90	100	151	725	1800	3090	1380	1010	246
23.....	762	405	95	88	98	163	895	2060	2800	1350	1020	242
24.....	732	433	111	86	96	166	855	2560	2600	1340	1020	238
25.....	839	415	118	85	100	157	800	3010	2020	1350	980	235
26.....	847	385	107	90	87	148	839	3360	1820	1330	938	221
27.....	823	347	105	90	92	139	792	3960	2020	1340	938	214
28.....	839	320	99	86	100	145	823	3780	1990	1410	938	194
29.....	823	307	115	*86	.....	151	778	3710	2060	1400	920	194
30.....	778	282	111	88	.....	157	770	3530	1820	1320	920	188
31.....	732	.....	111	95	.....	169	.....	3290	.....	1190	887	.....
Total	19718	15197	4284	3047	2617	3956	16799	53365	97580	47100	35941	9350
Mean...	636	507	138	93.3	93.5	128	560	1721	3253	1519	1159	312
Max...	904	725	266	110	110	169	895	3960	4430	1770	1550	815
Min...	385	282	95	85	73	78	188	688	1820	1190	887	188
Ac.-ft.	39110	30140	8500	6040	5190	7850	33320	105800	193500	93120	71290	18550

Total run-off for water year = 612,700 acre-ft.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Near Del Norte, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	682	270	141	185	155	172	338	1280	4110	4110	1810	834
2....	604	261	140	174	150	178	331	1290	4110	3990	1690	826
3....	556	274	141	*140	*145	175	340	1590	3860	3970	1660	762
4....	503	287	*150	150	148	*173	338	1520	3780	4010	1530	682
5....	543	244	150	150	150	180	380	1460	3700	4710	1450	650
6....	1100	229	160	155	150	180	326	1980	3620	4240	1630	642
7....	838	249	164	160	150	185	308	2370	3950	3800	1830	666
8....	711	240	160	160	152	190	308	2410	4410	3680	2080	698
9....	653	244	154	160	154	185	332	2640	3900	3290	2030	650
10....	590	240	164	165	156	180	386	3020	3480	3250	1980	596
11....	543	159	170	170	160	175	356	3580	3290	3250	1890	554
12....	497	158	174	170	165	170	362	4320	3190	3340	1740	470
13....	465	137	170	175	165	170	368	5600	3190	3290	1620	440
14....	447	*137	165	170	168	180	356	5810	3380	2970	1490	642
15....	417	159	160	160	168	190	380	5170	3680	2550	1690	596
16....	400	170	150	145	170	210	404	4520	4070	2260	1590	519
17....	378	149	*150	150	165	240	410	4630	5030	2260	1600	505
18....	367	140	168	150	*162	260	380	4980	6380	2520	1630	554
19....	342	154	170	150	163	*280	350	4820	7590	2430	1530	690
20....	332	178	168	*155	160	300	344	4280	7620	2570	1390	810
21....	322	118	170	155	165	315	374	4180	7360	2370	1340	1220
22....	327	144	174	160	165	295	368	4490	7280	2140	1210	834
23....	327	170	178	155	162	295	362	4430	7360	2030	1120	1210
24....	327	149	182	150	165	280	362	4560	7510	2100	960	894
25....	313	132	190	150	168	250	398	4960	7050	2100	894	746
26....	304	117	192	155	165	225	446	5240	6670	2050	949	666
27....	367	158	188	155	165	210	540	4960	6280	1940	927	610
28....	337	154	185	155	168	215	706	4820	6060	1890	894	568
29....	304	158	185	160	....	218	938	4490	5440	1770	905	666
30....	318	135	190	165	....	222	1180	4220	4760	1770	883	834
31....	318	....	193	160	....	234	....	4010	....	1740	861	....
Total	14532	5515	5194	4914	4479	6734	12771	117630	152110	88390	44803	21034
Mean.	469	184	168	159	160	217	426	3795	5070	2851	1445	701
Max.	1100	287	193	185	170	315	1180	5810	7620	4710	2080	1220
Min.	304	117	140	140	145	170	308	1280	3190	1740	861	440
Ac.-ft.	28820	10940	10310	9750	8880	13360	25330	233300	301700	175300	88870	41720

Total run-off for water year=948,300 acre-feet.

Discharge of Rio Grande River Near Del Norte, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	706	1140	356	164	140	140	374	1270	5510	2520	1570	905
2....	650	1140	280	158	147	142	547	1340	5400	2390	1630	706
3....	938	1070	270	154	150	145	603	1260	5280	2320	1630	540
4....	1,160	1030	280	152	160	151	666	1320	5280	2300	1620	505
5....	982	993	225	149	170	149	746	1620	5190	2360	1550	526
6....	905	960	186	148	160	142	861	1700	5330	2370	1560	491
7....	802	894	235	144	154	*145	642	2020	5740	2270	1450	446
8....	794	826	260	143	152	150	498	2360	4890	2190	1280	416
9....	770	872	220	143	148	170	618	2630	4960	2100	1140	398
10....	730	834	220	146	137	200	738	3170	5650	1970	1100	386
11....	722	786	240	150	140	215	1080	3270	5970	1920	1150	477
12....	714	754	178	153	144	210	1070	3340	6180	1760	1180	596
13....	1360	786	200	155	138	220	1030	2720	5880	1730	1330	512
14....	2050	730	178	158	127	235	1530	2320	5650	1840	1330	470
15....	1560	722	166	145	123	255	1600	2220	5030	1870	1240	464
16....	1410	706	178	138	117	245	1380	2210	4960	1980	1180	446
17....	1300	722	178	137	105	230	1520	2240	5140	2050	1160	422
18....	1210	722	170	137	99	245	1270	2140	5210	2020	1140	398
19....	1170	658	154	136	100	290	960	2270	5330	2050	1160	374
20....	1190	596	147	135	112	290	927	2540	5070	1830	1150	362
21....	1360	533	154	135	170	265	1030	3100	4710	1660	1140	350
22....	1550	512	166	135	178	270	1360	3700	4390	1620	1050	344
23....	1450	422	162	132	170	280	1970	4050	3970	1600	1050	344
24....	1390	440	150	132	166	280	1780	4850	3720	1590	1060	344
25....	1530	526	152	132	154	270	1590	5440	3150	1570	1060	332
26....	1550	526	142	135	150	250	1600	5860	2790	1550	1020	326
27....	1420	477	145	138	147	245	1460	6670	2860	1550	1000	314
28....	1430	440	149	142	141	265	1490	6280	2720	1600	993	302
29....	1370	416	156	*145	....	330	1430	6230	2860	1590	971	285
30....	1270	386	162	145	....	340	1340	6160	2590	1530	971	280
31....	1180	....	167	153	....	360	....	5510	....	1340	938	....
Total	36623	21619	6026	4469	3999	7124	33710	101810	141410	59040	37803	13061
Mean.	1181	721	194	144	143	230	1124	3284	4714	1905	1219	435
Max.	2050	1140	356	164	178	360	1970	6670	6180	2520	1630	905
Min.	650	386	142	132	99	140	374	1260	2590	1340	938	280
Ac.-ft.	72640	42880	11950	8860	7930	14130	66860	201900	280500	117100	74980	25910

Total run-off for water year=925,600 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Near Monte Vista, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	65	41	217	204	165	178	108	413	2150	3010	444	35
2....	35	26	220	195	160	182	111	439	2080	2510	392	26
3....	32	18	217	180	155	182	74	646	1950	2440	318	24
4....	31	15	213	170	157	182	36	550	1730	2400	232	26
5....	26	31	219	168	160	182	34	281	1600	2670	140	26
6....	104	28	219	170	160	188	26	429	1500	2850	84	15
7....	148	22	219	175	160	195	15	764	1670	2060	151	19
8....	69	21	208	175	160	210	12	968	2500	1660	309	38
9....	42	17	191	172	165	206	12	1060	2620	1300	613	93
10....	51	22	193	175	165	192	15	1220	2180	1140	550	106
11....	28	31	202	182	170	206	23	1710	1970	1060	494	80
12....	23	69	219	182	172	210	19	2330	1790	1300	397	80
13....	21	123	215	181	172	206	15	3210	1680	1580	326	78
14....	26	140	209	180	172	185	12	3860	1770	1340	232	80
15....	34	162	200	175	175	192	12	3670	1960	1020	344	159
16....	30	178	195	164	177	202	12	2850	2240	715	354	78
17....	40	217	*184	160	175	199	11	2600	*2850	500	413	51
18....	40	210	187	160	172	213	11	2840	3940	556	434	54
19....	35	195	187	160	*167	192	19	2880	4760	575	382	67
20....	26	185	185	170	170	185	13	2260	5130	667	309	111
21....	19	182	187	170	170	192	11	1870	5080	607	258	478
22....	16	172	195	165	172	178	13	1960	4950	402	199	455
23....	18	172	205	165	172	188	18	2500	4890	318	143	506
24....	21	210	210	*155	172	178	9.5	2510	4930	363	108	562
25....	28	210	215	158	172	133	12	2860	5210	556	65	289
26....	30	188	215	159	170	111	15	3310	5050	653	43	217
27....	25	182	213	160	170	111	12	3280	4860	543	44	185
28....	26	185	208	160	175	120	31	3100	4700	512	36	182
29....	19	210	208	165	....	116	125	2790	4440	382	36	266
30....	49	224	211	170	....	104	296	3040	3890	413	42	556
31....	44	....	215	165	....	99	....	2160	....	413	40	....
Total	1201	3686	6381	5290	4702	5417	1132.5	64370	96070	36515	7932	4942
Mean.	38.7	123	206	171	168	175	37.8	2076	3202	1178	256	165
Max..	148	224	220	204	177	213	296	3860	5210	3010	613	562
Min..	16	15	184	155	155	99	9.5	281	1500	318	36	15
Ac-ft.	2380	7310	12660	10490	9330	10740	2250	127700	190600	72430	15730	9800

Total run-off for water year=471,400 acre-feet.

*Discharge measurement made on this day.

Discharge of Rio Grande River Near Monte Vista, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	477	1090	....	....	....	....	246	1170	3470	524	143	82
2....	392	1090	....	....	....	....	249	1140	3370	574	189	89
3....	600	1030	....	....	....	....	415	1030	3830	560	233	50
4....	981	981	....	....	....	....	431	1010	3640	524	240	39
5....	925	953	....	....	....	....	583	1150	3470	529	237	46
6....	820	876	....	....	....	....	628	1220	3690	534	240	38
7....	738	841	....	....	....	....	547	1360	4180	463	227	38
8....	694	766	....	....	....	....	480	1600	4750	388	141	29
9....	650	827	....	....	....	....	403	1740	5150	380	76	23
10....	595	820	....	....	....	....	542	2240	4770	431	55	21
11....	547	778	....	....	....	....	754	2560	4650	502	82	20
12....	547	749	....	....	....	....	876	2600	4900	529	53	76
13....	1200	749	....	....	....	....	890	1860	4790	475	43	70
14....	1930	760	....	....	....	....	1130	1290	4500	455	36	57
15....	1580	750	....	....	....	....	1440	1020	3910	488	41	39
16....	1340	750	....	....	....	....	1260	904	3410	516	35	29
17....	1210	740	....	....	....	....	1290	890	3540	529	53	23
18....	1130	740	....	....	....	....	1310	738	3740	542	57	19
19....	1050	740	....	....	....	....	932	637	3790	556	59	18
20....	1050	715	....	....	....	....	848	665	3620	498	55	16
21....	1150	695	....	....	....	....	848	1020	3150	376	59	15
22....	1420	670	....	....	....	....	1090	1480	2710	324	57	15
23....	1380	630	....	....	....	....	1700	1760	2120	291	64	15
24....	1330	620	....	....	....	....	1850	2650	1790	249	61	15
25....	1380	640	....	....	....	....	1760	3440	1260	212	64	14
26....	1510	645	....	....	....	....	1610	3900	614	181	70	11
27....	1380	620	....	....	....	....	1400	4580	650	165	48	10
28....	1350	600	....	....	....	....	1320	4670	592	178	48	9.6
29....	1320	580	....	....	....	....	1250	4350	637	162	57	9.6
30....	1230	560	....	....	....	....	1200	4120	588	146	64	9.6
31....	1170	....	....	....	....	....	....	3720	....	121	68	....
Total	33076	23005	9300	6200	5040	6200	29282	62514	95281	12402	2955	945.8
Mean.	1067	767	300	200	180	200	976	2017	3176	400	95.3	31.5
Max..	1930	1090	....	....	....	....	1850	4670	5150	574	240	89
Min..	392	560	....	....	....	....	246	637	588	121	35	9.6
Ac-ft.	65610	45630	18450	12300	10000	12300	58980	124000	189000	24600	5860	1880

Total run-off for water year=567,700 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River at Alamosa, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	19	5.0	.....	.....	.....	190	173	38	1320	2850	46	34
2.....	21	5.0	.....	.....	.....	200	154	89	1270	2100	44	33
3.....	19	4.2	.....	.....	.....	210	161	103	1170	1650	45	32
4.....	17	4.2	.....	.....	.....	240	141	180	1050	1600	46	28
5.....	17	5.8	.....	.....	.....	245	110	186	854	1860	49	27
6.....	17	5.0	.....	.....	.....	242	87	101	722	2280	51	26
7.....	17	5.0	.....	.....	.....	242	78	118	625	2490	44	26
8.....	16	4.2	.....	.....	.....	242	72	334	863	1910	49	26
9.....	16	4.2	.....	.....	.....	246	68	436	1500	1440	57	25
10.....	15	4.2	.....	.....	.....	250	64	523	1700	904	92	25
11.....	15	4.2	.....	.....	.....	252	63	701	1430	684	75	27
12.....	15	3.8	.....	.....	.....	262	59	1050	1180	632	66	28
13.....	15	3.4	.....	.....	.....	272	59	1330	1050	836	59	26
14.....	15	3.8	.....	.....	.....	285	54	1750	940	845	55	27
15.....	16	26	.....	.....	.....	300	51	2680	1040	648	54	26
16.....	15	32	.....	.....	.....	320	48	2750	1080	475	64	27
17.....	8.1	41	.....	.....	.....	346	45	2110	1230	330	76	26
18.....	8.1	50	.....	.....	.....	368	41	1730	1580	246	58	25
19.....	8.1	58	.....	.....	.....	*362	43	1730	2210	206	52	25
20.....	7.3	62	.....	.....	.....	282	43	1710	3490	162	49	25
21.....	6.5	65	*172	.....	.....	285	36	1250	4520	144	51	25
22.....	5.0	70	.....	.....	.....	300	32	935	4730	127	48	35
23.....	4.2	80	.....	.....	.....	313	31	1120	4560	107	45	48
24.....	4.2	110	*166	.....	.....	309	30	1380	4390	89	43	136
25.....	3.8	154	.....	.....	*175	294	30	1450	4520	80	42	181
26.....	3.8	158	.....	.....	.....	256	29	1730	4870	72	41	113
27.....	4.2	152	.....	.....	.....	228	29	2100	4710	63	40	72
28.....	5.8	118	.....	.....	.....	217	29	2260	4320	53	39	54
29.....	5.8	142	.....	.....	.....	215	28	2180	4010	53	38	57
30.....	5.0	142	.....	.....	.....	208	29	1900	3600	52	36	161
31.....	5.0	.....	.....	.....	.....	195	.....	1570	.....	50	35	.....
Total	349.9	1552.0	4960	5115	4760	8176	1917	37524	70534	25038	1589	1426
Mean.	11.3	51.7	160	165	170	264	63.9	1210	2351	808	51.3	47.5
Max.....	21	158	.....	.....	.....	368	173	2750	4870	2850	92	181
Min.....	3.8	3.4	.....	.....	.....	190	28	38	625	50	35	25
Ac.-ft.	694	3080	9840	10150	9440	16220	3800	74430	139900	49660	3150	2830

Total run-off for water year=323,200 acre-feet.

Discharge of Rio Grande River at Alamosa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	329	1180	280	190	155	190	325	1330	2550	177	36	31
2.....	316	1120	280	190	155	185	304	1250	2260	137	49	66
3.....	310	1110	280	190	155	190	323	1200	2120	130	62	67
4.....	513	1050	280	190	155	200	440	1100	1860	108	45	57
5.....	757	1000	280	190	155	195	430	1020	2160	100	27	44
6.....	754	950	280	190	155	210	492	1100	2160	90	17	43
7.....	726	890	280	190	155	200	543	1140	2290	78	16	42
8.....	645	844	280	190	155	190	561	1220	2670	65	16	45
9.....	603	796	280	190	155	200	462	1350	3190	49	15	43
10.....	561	866	280	190	155	230	452	1470	3630	48	14	49
11.....	513	866	280	190	155	270	543	1680	3340	48	13	51
12.....	485	820	280	190	155	280	736	1870	3020	40	14	27
13.....	445	799	280	190	155	300	897	1890	3190	41	*14	40
14.....	756	813	289	190	155	340	939	1500	3100	46	14	40
15.....	1340	764	280	190	155	320	1150	1090	2880	46	14	36
16.....	1360	746	280	190	155	300	1280	834	2430	48	14	26
17.....	1250	712	280	190	155	330	1230	673	2080	41	14	26
18.....	1160	704	280	190	155	350	1320	612	2060	39	15	24
19.....	1080	704	280	190	155	350	1300	462	2240	44	15	20
20.....	1020	690	280	190	155	350	1060	386	2300	46	15	18
21.....	1020	698	280	190	155	340	932	376	2200	42	15	18
22.....	1120	597	280	190	155	330	918	600	1860	35	15	18
23.....	1300	455	280	190	155	350	1120	932	1540	34	15	18
24.....	1310	400	280	190	155	372	1570	1140	1220	33	15	18
25.....	1290	430	280	190	155	323	1820	1500	922	33	16	18
26.....	1320	450	280	190	155	275	1850	1860	504	39	18	17
27.....	1380	460	280	190	155	228	1740	2300	300	44	19	18
28.....	1340	470	280	190	155	241	1560	2920	306	44	19	18
29.....	1330	430	280	190	.....	321	1460	3290	249	43	19	16
30.....	1310	410	280	190	.....	344	1400	3140	239	40	19	16
31.....	1240	.....	280	190	.....	340	.....	2900	.....	35	19	.....
Total	28883	22204	8680	5890	4340	8644	29157	44135	60870	1843	628	965
Mean.	932	740	280	190	155	279	972	1424	2029	59.5	20.3	32.2
Max.....	1380	1180	.....	.....	.....	372	1850	3290	3630	177	62	66
Min.....	310	400	.....	.....	.....	185	304	376	239	33	13	16
Ac.-ft.	57290	44040	17220	11680	8610	17150	57830	87540	120700	3660	1250	1910

Total run-off for water year=428,900 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Rio Grande River Above Mouth of Trinchera Creek Near Las Sauces, Colo.,
for Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	17	15	.....	.....	*186	260	358	180	2120	3920	175	104
2.....	20	15	.....	.....	.....	270	318	259	1890	3320	159	102
3.....	28	15	.....	.....	.....	280	295	355	1790	2480	148	100
4.....	36	14	.....	*175	.....	300	290	410	1760	2010	114	97
5.....	31	18	.....	.....	.....	310	270	504	1590	1930	94	91
6.....	55	14	.....	.....	.....	305	248	495	1390	1970	91	83
7.....	28	14	.....	.....	.....	300	226	468	1280	2250	84	75
8.....	23	14	.....	.....	.....	300	206	572	1330	2260	81	70
9.....	22	13	.....	.....	.....	300	187	814	1720	1860	79	66
10.....	20	15	.....	.....	.....	295	176	910	2110	1420	126	64
11.....	20	16	.....	.....	.....	295	174	1040	2110	1110	179	64
12.....	20	19	.....	.....	.....	300	163	1370	1880	965	161	68
13.....	19	20	.....	.....	.....	310	167	1920	1710	946	145	70
14.....	19	20	.....	.....	.....	320	161	2320	1550	1110	128	80
15.....	19	22	.....	.....	.....	*330	151	2770	1430	1020	117	81
16.....	19	24	.....	.....	.....	355	143	3280	1530	902	111	79
17.....	18	62	.....	.....	.....	400	131	3370	1560	777	130	97
18.....	18	66	.....	.....	.....	440	112	2830	1760	646	148	79
19.....	17	66	.....	.....	.....	470	112	2510	2040	541	128	72
20.....	15	66	.....	.....	.....	480	115	2600	2570	496	138	77
21.....	15	72	.....	.....	.....	460	112	2380	3220	425	143	81
22.....	15	82	.....	.....	.....	462	114	1930	3780	448	152	93
23.....	15	140	.....	.....	.....	474	115	1710	4280	402	152	171
24.....	15	170	.....	.....	.....	486	108	1890	4370	358	142	188
25.....	15	*184	.....	*191	.....	486	105	2020	4340	318	128	310
26.....	15	185	.....	.....	.....	495	106	2120	4420	298	117	313
27.....	15	184	.....	.....	.....	492	99	2350	4650	265	110	242
28.....	16	165	.....	.....	.....	468	108	2680	4680	255	111	188
29.....	15	155	.....	.....	.....	442	117	2880	4480	228	108	209
30.....	16	150	.....	.....	.....	418	129	2770	4240	205	111	220
31.....	15	.....	.....	.....	.....	385	.....	2450	.....	194	107	.....
Total	631	2015	5270	5735	5880	11688	5116	54157	77580	35329	3917	3634
Mean..	20.4	67.2	170	185	210	377	171	1747	2586	1140	126	121
Max...	55	185	.....	.....	.....	495	358	3370	4680	3920	179	313
Min...	15	13	.....	.....	.....	260	99	180	1280	194	79	64
Ac.-ft.	1250	4000	10450	11380	11660	23180	10150	107400	153900	70070	7770	7210

Total run-off for water year = 418,400 acre-feet.

*Discharge measurement made on this day.

**Discharge of Rio Grande River Above Mouth of Trinchera Creek Near Las Sauces, Colo.,
for Year Ending Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	426	1490	850	.....	.....	.....	470	1830	3260	440	58	56
2.....	522	1420	810	.....	.....	.....	449	1710	2950	378	62	77
3.....	522	1380	820	.....	.....	.....	423	1600	2670	328	66	78
4.....	562	1340	815	.....	.....	.....	474	1510	2600	302	68	80
5.....	790	1280	845	.....	.....	.....	586	1420	2400	300	66	83
6.....	935	1230	850	.....	.....	.....	630	1410	2540	292	64	88
7.....	925	1160	825	.....	.....	.....	720	1500	2380	268	61	88
8.....	895	1110	765	.....	.....	*264	780	1560	2690	230	57	87
9.....	830	1050	735	.....	.....	.....	830	1700	2950	185	54	87
10.....	785	1030	820	.....	.....	.....	705	1880	3290	154	49	79
11.....	745	1060	740	.....	.....	.....	725	2080	3650	148	43	76
12.....	700	1040	710	.....	.....	.....	850	2330	3770	177	44	72
13.....	685	980	795	.....	.....	.....	1040	2550	3460	183	62	67
14.....	760	970	760	.....	.....	.....	1180	2490	3430	165	55	65
15.....	1120	960	750	.....	.....	355	1290	2010	3480	133	51	75
16.....	1460	915	725	.....	.....	.....	1530	1530	3300	148	47	70
17.....	1450	895	690	.....	.....	.....	1650	1280	2910	133	47	64
18.....	1390	870	685	.....	.....	.....	1700	1130	2550	122	48	62
19.....	1320	850	680	.....	.....	.....	1880	1000	2460	122	48	63
20.....	1270	805	670	.....	.....	.....	1760	884	2570	117	47	57
21.....	1226	820	670	.....	.....	.....	1490	838	2610	112	45	53
22.....	1240	890	680	.....	.....	.....	1360	884	2510	102	43	52
23.....	1370	905	650	.....	.....	.....	1480	1070	2210	89	43	52
24.....	1490	850	610	.....	.....	.....	1770	1290	1780	81	41	51
25.....	1540	790	560	.....	.....	534	2210	1500	1670	74	41	52
26.....	1540	805	530	.....	.....	474	2390	1840	1020	72	42	52
27.....	1590	880	500	.....	.....	423	2420	2180	733	70	46	52
28.....	1630	940	470	.....	.....	390	2260	2540	576	66	46	50
29.....	1610	910	440	.....	.....	426	2060	2930	572	62	44	48
30.....	1600	875	430	.....	.....	466	1960	3350	490	59	44	48
31.....	1570	.....	425	.....	.....	482	.....	3410	.....	56	46	.....
Total	34492	30500	21305	8030	6440	11713	39072	55236	73481	5168	1578	1984
Mean..	1113	1017	687	260	230	378	1302	1782	2449	167	50.9	66.1
Max...	1630	1490	850	.....	.....	.....	2420	3410	3770	440	68	88
Min...	426	790	425	.....	.....	.....	423	838	490	56	41	48
Ac.-ft.	68410	60500	42260	15990	12770	23230	77500	109600	145700	10250	3130	3940

Total run-off for water year = 573,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande River Near Lobatos, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	36	46	*185	230	220	305	537	460	4390	5650	247	143
2....	39	51	185	230	210	315	501	682	4100	4910	209	134
3....	42	46	180	210	205	340	447	928	3960	3940	186	134
4....	44	49	180	*200	200	360	440	1190	4010	3150	159	127
5....	58	42	185	195	*200	410	421	1390	3880	2940	123	123
6....	58	49	190	200	195	*420	389	1520	3610	3210	110	120
7....	93	51	195	200	200	400	364	1840	3270	3580	130	116
8....	74	49	198	*205	205	380	324	2310	3480	3720	116	110
9....	68	44	205	205	205	370	302	2820	4200	3260	143	96
10....	61	44	220	215	*210	350	302	3480	4390	2750	130	93
11....	58	39	224	220	215	340	313	3930	4090	2140	213	93
12....	61	46	224	225	220	341	313	4540	3560	1970	223	96
13....	61	66	220	230	220	389	308	5440	3160	1980	204	106
14....	61	71	210	230	220	414	308	6360	2790	2050	172	120
15....	58	85	195	225	220	*408	282	7430	2580	1970	155	127
16....	61	79	200	*220	225	460	276	7890	2620	1800	151	123
17....	58	79	195	205	*225	522	266	7600	2610	1580	177	127
18....	58	85	200	200	225	588	232	6610	2850	1370	223	138
19....	56	79	220	195	240	619	237	6140	3300	1250	209	116
20....	51	99	225	200	250	674	266	6300	3960	1130	177	113
21....	54	186	*215	205	260	690	252	5600	4810	1180	190	130
22....	56	215	200	210	270	698	247	4540	6420	1120	186	120
23....	54	220	210	210	280	698	252	4010	6150	1040	200	218
24....	46	237	220	220	*300	730	247	3940	6420	901	186	266
25....	44	241	225	215	310	730	237	4220	6480	780	168	313
26....	46	233	215	205	315	755	242	4540	6610	682	151	414
27....	54	252	210	205	310	755	237	5030	7180	580	138	353
28....	54	219	205	200	305	730	237	5540	7180	494	138	282
29....	56	185	220	205	....	674	292	5950	6810	421	138	287
30....	51	181	225	205	....	611	359	5610	6240	364	138	318
31....	42	....	230	210	....	573	....	4960	....	308	143	....
Total	1713	3368	6411	6530	6660	16049	9430	132310	134110	62220	5233	5056
Mean.	55.3	112	207	211	238	518	314	4284	4470	2007	169	169
Max.	93	252	230	230	315	755	537	7890	7180	5650	247	414
Min.	36	39	180	195	195	305	232	460	2580	308	110	93
Acre-ft.	3400	6680	12720	12950	13210	31830	18700	263400	266000	123400	10380	10030

Total run-off for water year=772,700 acre-feet.

Discharge of Rio Grande River Near Lobatos, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	440	1830	964	470	310	390	588	2920	4860	530	68	71
2....	658	1750	937	465	310	380	588	2730	4510	447	66	93
3....	690	1690	937	435	310	370	573	2640	4150	402	74	85
4....	746	1660	937	415	310	370	611	2500	4250	370	76	88
5....	919	1600	955	400	310	380	805	2480	4170	364	88	106
6....	1110	1530	928	395	310	340	892	2710	4070	359	76	110
7....	1120	1470	892	390	310	320	1050	3000	4090	341	74	106
8....	1090	1390	848	390	310	*360	1040	3400	4320	287	74	110
9....	1040	1330	822	390	310	400	1040	3850	4520	261	68	110
10....	991	1270	866	390	310	470	955	4280	4950	218	66	106
11....	955	1280	831	390	250	510	946	4800	5050	195	58	106
12....	910	1270	822	400	250	600	1140	5240	5410	190	63	103
13....	892	1220	805	350	250	682	1410	5410	5080	204	63	90
14....	1000	1160	840	330	250	698	1550	4800	4910	195	82	82
15....	1510	1150	788	325	250	690	1860	3990	4960	177	71	79
16....	1910	1090	780	305	250	603	2270	3260	4570	151	68	82
17....	1920	1050	797	290	250	666	2610	2720	4120	155	63	79
18....	1850	1040	772	275	250	596	2860	2520	3610	147	66	71
19....	1780	1010	740	270	250	627	2970	2360	3420	134	61	63
20....	1700	973	730	250	250	642	2710	2330	3430	130	61	66
21....	1640	946	720	230	290	603	2270	2430	3430	123	61	61
22....	1630	946	730	225	290	603	2160	2680	3320	116	58	58
23....	1720	857	730	220	290	642	2820	3160	2970	99	54	58
24....	1850	788	700	200	290	698	3750	3610	2480	90	56	58
25....	1900	857	670	205	290	706	4020	3860	1960	85	54	58
26....	1890	901	640	220	290	635	3690	4340	1510	79	61	58
27....	1910	937	560	235	290	558	3540	4610	1050	74	66	58
28....	1950	991	510	*260	290	515	3350	5080	780	74	63	58
29....	1920	1010	470	265	290	522	3100	5030	714	68	56	58
30....	1900	982	460	270	....	573	3040	5270	580	66	54	58
31....	1890	....	460	300	....	603	....	5170	....	63	54	....
Total	43431	35978	23641	9955	7920	16752	60208	113180	107244	6194	2023	2389
Mean.	1401	1199	763	321	283	540	2007	3651	3575	200	65.3	79.6
Max.	1950	1830	964	470	....	706	4020	5410	5410	530	88	110
Min.	440	788	460	200	....	320	573	2330	580	63	54	58
Ac.-ft.	86140	71360	46890	19750	15710	33230	119400	224500	212700	12290	4010	4740

Total run-off for water year=850,700 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek Below Continental Reservoir, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	....	....	....	....	12	14	35	179	70	50	21
2....	14	....	....	....	....	12	14	36	179	159	50	16
3....	12	....	....	....	....	12	14	37	212	262	43	13
4....	12	....	....	....	....	12	14	38	232	260	41	9.7
5....	12	....	....	....	....	12	14	39	231	262	45	9.7
6....	12	....	....	....	....	12	14	*39	231	144	41	9.7
7....	14	....	....	....	....	12	14	50	237	29	42	5.6
8....	16	....	....	....	....	12	14	90	237	27	43	2.2
9....	16	....	....	....	....	12	14	97	234	28	47	2.2
10....	15	....	....	....	....	12	14	103	234	28	50	2.2
11....	14	....	....	....	....	13	15	104	235	28	52	2.2
12....	14	....	....	....	....	13	16	112	197	28	53	2.2
13....	14	....	....	....	....	13	17	128	156	28	41	2.2
14....	13	....	....	....	....	13	18	150	147	28	30	2.2
15....	13	....	....	....	....	13	19	203	147	28	36	2.2
16....	14	....	....	....	....	13	20	242	148	28	38	2.5
17....	12	....	....	....	....	13	21	257	149	18	42	2.5
18....	12	....	....	....	....	13	22	244	167	11	42	2.5
19....	12	....	....	....	....	13	23	211	143	12	47	3.2
20....	12	....	....	....	....	13	25	208	101	13	42	3.6
21....	11	....	....	....	....	14	25	196	102	12	40	6.4
22....	11	....	....	....	....	14	26	190	147	11	41	11
23....	10	....	....	....	....	14	27	188	179	11	38	16
24....	9.4	....	....	....	....	14	28	203	181	41	36	18
25....	9.4	....	....	....	....	14	29	129	78	59	28	18
26....	12	....	....	....	....	14	30	82	18	52	21	19
27....	14	....	....	....	....	14	31	85	18	59	22	18
28....	12	....	....	....	....	14	32	88	18	66	21	18
29....	12	....	....	....	....	*14	33	88	18	60	19	18
30....	14	....	....	....	....	14	34	147	18	60	24	17
31....	6.1	....	....	....	....	14	....	179	....	50	25	....
Total	387.9	180	217	248	280	404	631	3998	4573	1972	1190	276
Mean.	12.5	6	7	8	10	13.0	21.0	129	152	63.6	38.4	9.20
Max..	16	....	....	....	....	14	34	257	237	262	53	21
Min..	6.1	....	....	....	....	12	14	35	18	11	19	2.2
Acre-ft.	769	357	430	492	555	801	1250	7930	9070	3910	2360	547

Total run-off for water year=28,470 acre-feet.

*Discharge measurement made on this day.

Discharge of Clear Creek Below Continental Reservoir, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	16	11	20	20	20	20	20	20	96	65	61	41
2....	16	16	20	20	20	20	20	20	44	54	60	40
3....	16	22	20	20	20	20	20	20	17	54	64	40
4....	13	24	20	20	20	20	20	20	17	53	67	33
5....	11	24	20	20	20	20	20	20	17	52	63	31
6....	11	24	20	20	20	20	20	9.3	18	54	63	31
7....	11	24	20	20	20	20	20	3.6	18	56	63	31
8....	12	24	20	20	20	20	20	26	19	55	64	25
9....	11	24	20	20	20	20	20	83	17	54	67	23
10....	11	24	20	20	20	20	20	115	16	55	63	23
11....	12	23	20	20	20	20	20	157	16	63	59	23
12....	11	23	20	20	20	20	20	182	16	58	67	24
13....	11	23	20	20	20	20	20	187	16	56	67	23
14....	12	23	20	20	20	20	20	171	16	75	61	22
15....	11	23	20	20	20	20	20	117	16	80	63	22
16....	11	22	20	20	20	20	20	71	17	82	66	22
17....	11	22	20	20	20	20	20	71	16	82	66	22
18....	11	22	20	20	20	20	20	89	65	83	66	23
19....	11	22	20	20	20	20	20	124	173	82	66	24
20....	11	22	20	20	20	20	20	178	171	84	61	18
21....	11	21	20	20	20	20	20	205	163	84	59	15
22....	11	21	20	20	20	20	20	229	150	75	60	6.3
23....	11	21	20	20	20	20	20	249	142	72	59	3.5
24....	11	21	20	20	20	20	20	148	142	72	59	3.5
25....	11	21	20	20	20	20	20	20	142	67	59	3.5
26....	11	20	20	20	20	20	20	35	144	66	58	3.5
27....	11	20	20	20	20	20	20	47	112	66	51	3.5
28....	11	20	20	20	20	20	20	53	75	64	39	3.5
29....	11	20	20	20	....	20	20	59	67	63	44	3.5
30....	11	20	20	20	....	20	20	82	71	60	40	3.5
31....	11	....	20	20	....	20	....	95	....	61	39	....
Total	361	647	620	620	560	620	600	29069	2009	2047	1844	5903
Mean.	11.6	21.6	20	20	20	20	20	93.8	67.0	66.0	59.5	19.7
Max..	16	24	....	....	....	....	....	249	173	84	67	41
Min..	11	11	....	....	....	....	....	3.6	16	52	39	3.5
Acre-ft.	716	1280	1230	1230	1110	1230	1190	5770	3980	4060	3660	1170

Total run-off for water year=26,630 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Goose Creek Near Wagon Wheel Gap, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	50	19	16	.....	.....	.....	11	53	246	410	94	32
2....	46	21	16	.....	.....	.....	12	56	255	398	85	31
3....	44	22	16	.....	.....	.....	15	71	313	400	79	29
4....	39	21	16	.....	.....	*20	16	65	318	415	74	27
5....	82	16	16	.....	.....	.....	18	74	304	470	74	27
6....	82	20	16	.....	.....	.....	17	97	304	398	72	29
7....	57	19	16	.....	.....	.....	18	122	343	366	70	24
8....	51	19	15	.....	.....	.....	19	158	337	340	79	26
9....	48	18	15	.....	.....	.....	20	198	272	292	81	26
10....	45	18	16	.....	.....	.....	22	227	238	296	72	23
11....	39	14	16	.....	.....	.....	20	272	212	283	67	22
12....	38	16	16	.....	.....	.....	18	348	198	310	61	21
13....	36	14	13	.....	.....	.....	19	457	195	261	60	23
14....	34	16	13	.....	.....	.....	19	463	205	225	60	*40
15....	29	19	14	.....	.....	.....	23	380	231	204	96	36
16....	28	20	15	.....	.....	.....	23	337	272	194	70	29
17....	26	19	15	.....	.....	.....	23	364	369	208	63	30
18....	24	19	15	.....	.....	.....	23	396	514	261	58	36
19....	23	18	15	.....	.....	.....	19	364	532	222	57	41
20....	23	18	15	*16	.....	.....	19	255	592	222	54	58
21....	22	16	15	.....	.....	.....	20	205	580	197	55	76
22....	23	16	15	.....	.....	.....	18	198	611	184	55	63
23....	23	16	15	.....	.....	.....	18	202	679	175	53	72
24....	23	16	15	.....	.....	.....	18	235	587	166	52	60
25....	22	16	15	.....	.....	.....	21	285	561	154	49	55
26....	23	16	15	.....	.....	.....	23	327	580	146	45	50
27....	25	16	15	.....	.....	.....	28	343	568	132	40	48
28....	23	16	15	.....	.....	.....	38	318	523	122	37	45
29....	22	16	15	.....	.....	.....	45	272	469	113	29	61
30....	22	16	15	.....	.....	.....	53	242	433	105	35	58
31....	20	.....	15	.....	.....	.....	.....	231	.....	100	35	.....
Total	1092	526	470	165	448	527	656	7615	11841	7769	1911	1194
Mean..	35.2	17.5	15.2	15	16	17	21.9	246	395	251	61.6	39.8
Max... 82	22	.....	.....	.....	.....	.....	53	463	679	470	96	76
Min... 20	14	.....	.....	.....	.....	.....	11	58	195	100	29	21
Acre-ft.	2170	1040	932	922	889	1050	1300	15100	23490	15410	3790	2370

Total run-off for water year=68,460 acre-feet.

*Discharge measurement made on this day.

Discharge of Goose Creek Near Wagon Wheel Gap, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	52	65	.....	.....	.....	.....	.....	.....	310	172	67	24
2....	55	60	.....	.....	.....	.....	.....	.....	320	169	60	26
3....	100	56	.....	.....	.....	.....	.....	.....	335	163	65	28
4....	81	55	.....	.....	.....	.....	.....	.....	330	154	58	24
5....	65	50	.....	.....	.....	.....	.....	.....	355	149	49	21
6....	61	.....	.....	.....	.....	.....	.....	.....	404	146	48	19
7....	58	.....	.....	.....	.....	.....	.....	.....	457	143	46	19
8....	56	.....	.....	.....	.....	.....	.....	.....	451	140	43	52
9....	55	.....	.....	.....	.....	.....	.....	.....	415	128	38	38
10....	53	.....	.....	.....	.....	.....	.....	.....	388	117	37	35
11....	53	.....	.....	.....	.....	.....	.....	.....	457	107	36	29
12....	53	.....	.....	.....	.....	.....	.....	.....	463	100	36	25
13....	115	.....	.....	.....	.....	.....	.....	.....	427	94	42	24
14....	124	.....	.....	.....	.....	.....	.....	.....	398	92	43	27
15....	109	.....	.....	.....	.....	.....	.....	.....	345	88	40	20
16....	91	.....	.....	.....	.....	.....	.....	.....	388	88	37	18
17....	76	.....	.....	.....	.....	.....	.....	May 19	427	92	36	19
18....	69	.....	.....	.....	.....	.....	.....	to 31	451	94	32	16
19....	68	.....	.....	.....	.....	.....	.....	128	433	83	28	16
20....	96	.....	.....	.....	.....	.....	.....	149	388	76	30	15
21....	115	.....	.....	.....	.....	.....	.....	181	350	72	30	15
22....	113	.....	.....	.....	.....	.....	.....	208	315	69	27	15
23....	105	.....	.....	.....	.....	.....	.....	234	283	63	30	15
24....	102	.....	.....	.....	.....	.....	.....	274	283	63	30	14
25....	113	.....	.....	.....	.....	.....	.....	301	248	60	30	13
26....	103	.....	.....	.....	.....	.....	.....	350	222	53	35	13
27....	88	.....	.....	.....	.....	.....	.....	376	204	53	29	13
28....	85	.....	.....	.....	.....	.....	.....	345	184	63	27	13
29....	78	.....	.....	.....	.....	.....	.....	355	175	61	22	12
30....	70	Nov. 1	.....	.....	.....	.....	.....	325	172	56	23	12
31....	67	to 5	.....	.....	.....	.....	.....	301	.....	52	23	.....
Total	2529	284	.....	.....	.....	.....	.....	3527	10378	3060	1177	630
Mean..	81.6	56.8	.....	.....	.....	.....	.....	271	346	98.7	38.0	21.0
Max... 124	65	.....	.....	.....	.....	.....	.....	376	463	172	67	52
Min... 52	50	.....	.....	.....	.....	.....	.....	128	172	52	22	12
Acre-ft.	5016	563	.....	.....	.....	.....	.....	7000	20580	6070	2330	1250

Total run-off for period=42,810 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of South Fork of Rio Grande River at South Fork Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	131	50	.....	.....	.....	.....	119	351	1200	1100	217	71
2.....	107	53	.....	.....	.....	.....	99	406	1230	1030	200	68
3.....	95	55	.....	*34	.....	.....	89	458	1290	1010	191	65
4.....	86	55	*47	.....	.....	.....	86	422	1310	971	182	64
5.....	208	40	.....	.....	.....	.....	91	462	1330	1160	176	59
6.....	273	.....	.....	.....	.....	.....	83	631	1310	948	242	56
7.....	166	.....	.....	.....	.....	.....	80	778	1380	881	284	55
8.....	138	.....	.....	.....	.....	.....	81	929	1330	886	302	59
9.....	121	.....	.....	.....	.....	.....	87	1100	1370	816	287	63
10.....	110	.....	.....	.....	.....	.....	108	1260	1180	752	253	58
11.....	98	.....	.....	.....	.....	.....	98	1420	1030	742	240	56
12.....	88	.....	.....	.....	.....	.....	103	1630	954	757	245	54
13.....	84	.....	.....	.....	.....	.....	106	1830	925	686	242	62
14.....	79	*27	.....	.....	.....	.....	110	1820	948	608	222	191
15.....	73	.....	.....	.....	.....	.....	120	1660	983	549	324	131
16.....	69	.....	.....	.....	.....	.....	125	1540	1060	511	210	99
17.....	66	.....	.....	.....	.....	.....	120	1560	1250	502	182	101
18.....	62	.....	.....	.....	*12	.....	104	1590	1520	641	165	111
19.....	59	.....	.....	.....	.....	*44	96	1540	1700	567	142	136
20.....	57	.....	.....	.....	.....	.....	91	1250	1820	567	140	202
21.....	54	.....	.....	.....	.....	.....	91	1060	1830	482	140	196
22.....	53	.....	.....	.....	.....	.....	86	1050	1870	442	127	158
23.....	52	.....	.....	.....	.....	.....	86	1050	1970	406	111	178
24.....	51	.....	.....	.....	.....	.....	89	1140	1940	399	103	156
25.....	50	.....	.....	.....	.....	.....	104	1280	1850	365	98	134
26.....	52	.....	.....	.....	.....	.....	129	1400	1750	330	89	122
27.....	68	.....	.....	.....	.....	.....	169	1610	1650	305	81	111
28.....	56	.....	.....	.....	.....	.....	219	1390	1540	278	76	108
29.....	59	.....	.....	.....	.....	.....	281	1270	1360	256	77	210
30.....	64	.....	.....	.....	.....	.....	337	1190	1200	240	99	196
31.....	50	.....	.....	.....	.....	.....	96	-1160	.....	229	81	.....
Total	2782	1110	1333	1362	1260	1457	3578	36228	42080	19416	5528	3327
Mean...	89.7	37	43	42	45	47	119	1169	1403	626	178	111
Max....	273	.....	.....	.....	.....	.....	337	1830	1970	1160	324	210
Min....	50	.....	.....	.....	.....	.....	80	351	925	229	76	54
Ac-ft.	5520	2200	2640	2580	2500	2890	7100	71860	83460	38510	10960	6600

Total run-off for water year=236,800 acre-feet.

*Discharge measurement made on this day.

**Discharge of South Fork Rio Grande River at South Fork, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	169	231	60	.....	.....	.....	94	233	1240	392	171	44
2.....	163	224	60	.....	.....	.....	101	244	1220	385	131	41
3.....	267	211	58	.....	.....	.....	111	246	1290	368	114	39
4.....	246	204	44	.....	.....	.....	140	289	1360	342	98	46
5.....	220	196	54	.....	.....	.....	195	344	1330	336	85	60
6.....	217	190	40	.....	.....	.....	210	395	1330	339	85	58
7.....	202	176	48	.....	.....	.....	190	446	1370	328	97	50
8.....	204	161	60	.....	.....	.....	155	493	1350	314	79	45
9.....	198	172	56	.....	.....	.....	156	557	1260	297	74	39
10.....	188	161	48	.....	.....	.....	169	664	1190	274	70	36
11.....	188	156	55	.....	.....	.....	204	702	1310	258	68	120
12.....	184	149	51	.....	.....	.....	213	664	1290	242	74	103
13.....	538	154	48	.....	.....	.....	255	508	1220	231	76	86
14.....	592	145	47	.....	.....	.....	342	449	1090	222	68	62
15.....	446	143	46	.....	.....	.....	377	442	960	217	62	54
16.....	404	141	46	.....	.....	.....	362	464	1010	206	68	48
17.....	380	145	47	.....	.....	.....	377	471	1070	235	72	44
18.....	353	131	46	.....	.....	.....	328	467	1110	222	68	41
19.....	333	129	45	.....	.....	.....	267	485	1060	198	78	40
20.....	330	115	45	.....	.....	.....	260	549	973	180	67	38
21.....	353	109	46	.....	.....	.....	289	678	876	171	61	38
22.....	359	112	43	.....	.....	.....	377	783	799	184	58	38
23.....	347	106	41	.....	.....	.....	482	887	757	228	62	36
24.....	333	110	42	.....	.....	.....	404	1060	702	233	67	35
25.....	374	112	43	.....	.....	.....	353	1130	605	226	73	34
26.....	350	115	40	.....	.....	.....	316	1290	530	215	70	34
27.....	311	102	39	.....	.....	.....	292	1440	493	204	55	44
28.....	297	94	39	.....	.....	.....	276	1340	453	202	50	35
29.....	279	79	40	.....	.....	.....	267	1390	416	184	50	33
30.....	255	76	41	.....	.....	.....	244	1310	392	174	47	33
31.....	244	.....	42	.....	.....	.....	.....	1230	.....	159	44	.....
Total	9324	4349	1460	1240	1036	1860	7806	21650	30056	7767	2342	1457
Mean...	301	145	47.1	40.0	37.0	60.0	260	698	1002	251	75.5	48.6
Max....	592	231	60	.....	.....	.....	482	1440	1370	392	171	120
Min....	163	76	39	.....	.....	.....	94	233	392	159	44	33
Ac-ft.	18490	8630	2900	2160	2050	3690	15480	42940	59620	15410	4650	2890

Total run-off for water year=179,200 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second

Discharge of Pinos Creek Near Del Norte, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.0	16	....	....	....	....	8.8	35	176	159	38	25
2....	5.3	11	....	....	....	....	9.9	40	174	148	36	22
3....	4.4	8.8	....	....	....	....	8.4	48	183	140	36	20
4....	4.2	8.1	....	....	....	....	8.1	50	185	137	36	16
5....	8.1	8.8	....	....	....	....	7.7	50	194	139	36	16
6....	9.5	11	....	....	....	....	7.0	82	196	129	42	15
7....	6.0	10	....	....	....	....	8.1	113	209	117	27	15
8....	5.3	9.2	....	....	....	....	8.1	161	227	110	33	16
9....	5.3	7.7	....	....	....	....	8.1	225	223	102	38	17
10....	5.0	8.8	....	....	....	....	9.2	267	214	95	32	17
11....	4.4	8.0	....	....	....	....	8.4	284	196	96	28	16
12....	4.4	6.0	....	....	....	....	9.5	363	187	101	28	15
13....	4.2	5.0	....	....	....	....	9.9	429	181	90	26	17
14....	4.4	*4.4	....	....	....	....	9.5	289	179	82	39	26
15....	4.4	4.0	....	....	....	....	10	269	174	79	47	18
16....	5.0	4.0	....	....	....	....	11	251	185	71	34	16
17....	4.7	4.0	....	....	....	....	12	262	198	68	34	17
18....	4.7	4.0	....	....	*4.5	....	11	284	229	78	35	17
19....	4.7	4.0	....	....	....	....	9.5	247	271	76	32	17
20....	4.7	4.0	....	....	....	....	9.9	196	278	75	32	18
21....	4.7	4.0	....	....	....	....	9.2	154	284	64	31	16
22....	5.0	4.0	....	....	....	....	8.8	170	278	57	30	18
23....	5.0	4.0	....	....	....	....	9.2	212	286	50	26	20
24....	4.7	4.0	....	....	....	....	9.5	240	282	47	23	16
25....	4.7	4.0	....	....	....	....	11	253	275	47	22	14
26....	4.7	4.0	....	....	....	....	14	240	256	48	21	13
27....	6.0	4.0	....	....	....	*6.5	19	242	236	47	19	17
28....	5.3	4.0	....	....	....	7.0	23	225	223	43	18	17
29....	7.0	4.0	....	....	....	7.4	30	196	187	41	18	28
30....	9.5	4.0	....	....	....	11	34	179	165	39	20	20
31....	16	....	....	....	....	10	....	168	....	39	20	....
Total	178.3	186.8	124.0	124	112	180	351.8	6224	6531	2614	937	535
Mean.	5.75	6.22	4.0	4.0	4.0	5.81	11.7	201	218	84.3	30.2	17.8
Max....	16	....	....	....	....	....	34	429	286	159	47	28
Min....	4.2	....	....	....	....	....	7.0	35	165	39	18	13
Acre-ft.	354	371	246	246	222	357	698	12350	12950	5180	1860	1060

Total run-off for water year=35,890 acre-feet.

*Discharge measurement made on this day.

Discharge of Pinos Creek Near Del Norte, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	14	22	....	....	....	....	10	68	227	74	41	9.5
2....	14	24	....	....	....	....	11	71	212	74	32	9.5
3....	29	22	....	....	....	....	13	74	242	71	26	9.9
4....	23	22	....	....	....	....	18	100	249	61	23	11
5....	19	21	....	....	....	....	21	140	245	58	18	13
6....	18	21	....	....	....	....	17	165	240	56	18	13
7....	16	17	....	....	....	....	13	190	247	54	19	14
8....	18	18	....	....	....	....	14	198	231	52	17	12
9....	17	20	....	....	....	....	18	209	218	50	15	11
10....	15	18	....	....	....	....	31	207	207	47	15	10
11....	15	17	....	....	....	....	38	198	227	46	15	15
12....	16	18	....	....	....	....	38	194	229	41	14	13
13....	42	18	....	....	....	....	49	144	212	37	14	13
14....	42	17	....	....	....	....	50	131	192	35	17	11
15....	32	17	....	....	....	....	100	133	168	38	15	11
16....	30	16	....	....	....	....	81	140	183	40	15	11
17....	28	16	....	....	....	....	80	144	192	42	15	11
18....	26	14	....	....	....	....	62	148	196	38	15	11
19....	26	12	....	....	....	....	45	214	192	35	15	11
20....	25	....	....	....	....	....	46	190	183	30	15	11
21....	28	....	....	....	....	....	54	234	172	28	13	11
22....	28	....	....	....	....	....	104	240	157	26	13	11
23....	29	....	....	....	....	....	140	267	148	24	14	11
24....	28	....	....	....	....	....	100	297	144	23	11	10
25....	29	....	....	....	....	....	76	308	113	22	11	9.2
26....	27	....	....	....	....	....	78	328	104	23	11	8.8
27....	25	....	....	....	....	....	78	322	95	26	9.5	8.8
28....	26	....	....	....	....	....	78	280	82	25	9.2	9.5
29....	26	....	....	....	....	....	75	282	66	23	9.5	9.5
30....	25	Nov. 1	....	....	....	....	73	251	64	22	9.2	9.5
31....	22	to 19	....	....	....	....	....	231	....	22	8.4	....
Total	758	350	....	....	....	....	1611	6098	5431	1243	492.8	329.2
Mean.	24.5	18.4	....	....	....	....	53.7	197	181	40.1	15.9	11.0
Max....	42	24	....	....	....	....	140	328	249	74	41	15
Min....	14	12	....	....	....	....	10	68	64	22	8.4	8.8
Acre-ft.	1500	694	....	....	....	....	3200	12100	10770	2470	977	653

Total run-off for period=32,360 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Francisco Creek Near Del Norte, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.9	1.2	.....	.....	.....	.....	1.7	5.5	25	18	6.8	4.7
2....	1.7	1.9	.....	.....	.....	.....	1.7	7.2	25	15	6.4	4.7
3....	1.7	0.8	.....	.....	.....	.....	1.7	7.9	25	16	5.9	3.8
4....	1.5	0.8	.....	.....	.....	.....	1.7	8.6	24	16	5.9	3.4
5....	1.5	1.0	.....	.....	.....	.....	1.7	11	25	18	5.5	3.0
6....	1.5	2.5	.....	.....	.....	.....	1.8	13	24	15	5.5	2.8
7....	1.5	2.3	.....	.....	.....	.....	1.8	12	25	14	5.5	2.8
8....	1.6	1.2	.....	.....	.....	.....	*1.8	13	28	14	6.4	2.6
9....	1.6	1.7	.....	.....	.....	.....	1.9	13	30	14	7.9	2.6
10....	1.7	2.3	.....	.....	.....	.....	1.9	17	25	13	6.4	2.6
11....	1.5	2.1	.....	.....	.....	.....	1.7	22	23	15	5.9	2.6
12....	1.5	1.6	.....	.....	.....	.....	2.6	53	20	17	5.9	2.6
13....	1.5	1.2	.....	.....	.....	.....	2.6	83	19	17	5.5	3.0
14....	1.5	*0.4	.....	.....	.....	.....	2.1	63	19	15	5.9	3.4
15....	1.5	1.5	.....	.....	.....	.....	2.1	44	19	15	6.8	3.0
16....	1.0	1.5	.....	.....	.....	.....	2.1	40	20	13	5.9	2.8
17....	1.2	1.5	.....	.....	.....	.....	*2.1	42	23	12	7.2	2.8
18....	1.2	1.5	.....	.....	*1.6	.....	3.4	49	28	11	7.2	2.8
19....	1.2	1.5	.....	.....	.....	.....	3.4	40	32	11	7.2	2.6
20....	1.2	1.5	.....	.....	.....	.....	5.1	35	31	11	7.2	2.8
21....	1.2	1.5	.....	.....	.....	.....	3.0	30	31	11	7.2	2.6
22....	1.2	1.5	.....	.....	.....	.....	2.1	31	31	9.2	6.8	4.3
23....	0.8	1.5	.....	.....	.....	.....	1.9	32	32	8.6	6.4	4.7
24....	1.0	1.5	.....	.....	.....	.....	1.9	31	44	8.6	6.4	3.0
25....	1.0	1.5	.....	.....	.....	.....	2.1	36	28	8.6	6.4	2.6
26....	1.0	1.5	.....	.....	.....	.....	2.6	36	29	9.2	5.9	2.3
27....	0.8	1.5	.....	.....	.....	.....	3.0	28	28	9.2	5.9	2.1
28....	0.6	1.5	.....	.....	.....	.....	3.4	26	24	9.2	5.9	2.6
29....	0.7	1.5	.....	.....	.....	.....	5.1	24	22	8.6	5.9	4.7
30....	0.7	1.5	.....	.....	.....	.....	6.4	21	19	7.9	5.5	3.0
31....	0.7	.....	.....	.....	.....	.....	.....	21	.....	6.8	5.1	.....
Total	39.2	45.0	46.5	46.5	42.0	62.0	76.4	895.2	778	386.9	194.3	93.3
Mean.	1.26	1.5	1.5	1.5	1.5	2.0	2.55	28.9	25.9	12.5	6.27	3.11
Max..	1.9	2.5	.....	.....	.....	.....	6.4	83	44	18	7.9	4.7
Min..	0.6	0.4	.....	.....	.....	.....	1.7	5.5	19	6.8	5.1	2.1
Acre-ft.	78	89	92	92	83	123	152	1780	1540	767	385	185

Total run-off for water year=5,370 acre-feet.

*Discharge measurement made on this day.

Discharge of San Francisco Creek Near Del Norte, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.3	2.8	.....	.....	.....	.....	.....	5.2	25	12	9.2	3.4
2....	2.8	2.3	.....	.....	.....	.....	.....	5.4	22	11	7.2	3.0
3....	4.7	1.7	.....	.....	.....	.....	.....	5.5	23	11	5.9	3.0
4....	2.8	1.7	.....	.....	.....	.....	.....	5.5	23	9.9	4.7	3.4
5....	2.8	1.9	.....	.....	.....	.....	.....	4.7	26	9.9	5.1	3.8
6....	2.6	1.7	.....	.....	.....	.....	.....	9.9	28	9.2	5.5	3.8
7....	2.3	3.4	.....	.....	.....	.....	.....	13	24	8.6	5.1	3.4
8....	2.6	6.4	.....	.....	.....	.....	.....	14	21	7.9	5.1	3.0
9....	2.6	3.4	.....	.....	.....	.....	.....	21	20	7.9	4.7	2.8
10....	2.3	2.6	.....	.....	.....	.....	.....	35	16	7.9	4.3	2.6
11....	2.3	2.6	.....	.....	.....	.....	.....	40	21	7.9	4.3	2.8
12....	2.6	2.6	.....	.....	.....	.....	.....	36	29	7.2	4.7	2.8
13....	4.7	1.0	.....	.....	.....	.....	.....	34	26	7.2	4.3	2.6
14....	4.7	1.5	.....	.....	.....	.....	.....	22	23	7.2	4.3	2.3
15....	3.4	0.8	.....	.....	.....	.....	.....	19	21	7.2	4.3	2.3
16....	3.4	0.8	.....	.....	.....	.....	.....	20	21	7.2	3.8	2.3
17....	2.8	0.7	.....	.....	.....	.....	.....	19	21	7.2	3.8	2.3
18....	2.8	0.6	.....	.....	.....	.....	.....	20	21	6.8	3.4	2.1
19....	2.8	.....	.....	.....	.....	.....	.....	22	20	6.4	3.4	2.3
20....	2.6	.....	.....	.....	.....	.....	.....	25	19	5.9	3.0	2.8
21....	2.8	.....	.....	.....	.....	.....	.....	25	17	5.5	3.0	2.8
22....	2.8	.....	.....	.....	.....	.....	.....	28	16	5.5	3.0	2.6
23....	3.4	.....	.....	.....	.....	.....	.....	31	16	5.5	3.4	2.3
24....	3.0	.....	.....	.....	.....	.....	.....	36	16	5.5	3.4	2.6
25....	3.0	.....	.....	.....	.....	.....	.....	38	14	4.7	3.8	2.3
26....	2.3	.....	.....	.....	.....	.....	.....	47	13	4.7	3.8	1.7
27....	2.6	.....	.....	.....	.....	.....	.....	38	13	4.7	3.4	1.7
28....	2.8	.....	.....	.....	.....	.....	.....	32	13	4.7	3.4	1.9
29....	2.3	.....	.....	.....	.....	.....	.....	28	12	4.3	3.0	1.9
30....	1.7	Nov. 1	.....	.....	.....	.....	.....	25	11	4.3	3.0	1.9
31....	1.9	to 18	.....	.....	.....	.....	.....	24	.....	3.8	3.0	.....
Total	88.5	38.5	.....	.....	.....	.....	.....	728.2	591	218.7	132.3	78.5
Mean.	2.85	2.14	.....	.....	.....	.....	.....	23.5	19.7	7.05	4.27	2.62
Max..	4.7	6.4	.....	.....	.....	.....	.....	47	29	12	9.2	3.8
Min..	1.7	0.6	.....	.....	.....	.....	.....	4.7	11	3.8	3.0	1.7
Acre-ft.	176	76	.....	.....	.....	.....	.....	1440	1170	434	262	156

Total run-off for period=3,710 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rock Creek Near Monte Vista, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	3.6	2.8	.....	.....	.....	.....	3.8	16	68	48	14	6.8
2.....	3.6	3.0	.....	.....	.....	.....	3.6	18	69	46	13	6.4
3.....	3.4	.....	.....	.....	.....	.....	3.6	21	63	43	11	6.1
4.....	3.2	.....	.....	.....	.....	.....	4.0	22	66	40	11	6.1
5.....	3.4	.....	.....	.....	.....	.....	4.3	22	69	41	11	5.8
6.....	3.4	.....	.....	.....	.....	.....	4.3	34	66	39	11	5.1
7.....	2.8	.....	.....	.....	.....	.....	5.1	45	69	34	9.8	4.9
8.....	2.8	.....	.....	.....	.....	.....	4.3	57	74	37	11	5.8
9.....	2.8	.....	.....	.....	.....	.....	5.1	78	64	34	16	6.4
10.....	2.6	.....	.....	.....	.....	.....	6.4	96	63	32	13	5.8
11.....	2.6	.....	.....	.....	.....	.....	5.8	107	68	32	11	5.4
12.....	2.6	.....	.....	.....	.....	.....	6.8	121	61	31	13	4.9
13.....	2.6	.....	.....	.....	.....	.....	7.7	137	55	30	12	4.9
14.....	2.6	.....	.....	.....	.....	.....	7.4	140	54	28	11	7.4
15.....	2.5	.....	.....	.....	.....	.....	8.1	117	58	26	13	5.4
16.....	2.5	.....	.....	.....	.....	.....	8.4	109	61	24	11	4.9
17.....	2.5	.....	.....	.....	.....	.....	9.5	105	66	22	14	5.1
18.....	2.3	.....	.....	.....	.....	.....	8.1	109	75	22	13	5.8
19.....	2.1	.....	.....	.....	.....	.....	6.8	101	90	28	11	5.4
20.....	2.3	.....	.....	.....	.....	.....	8.4	84	90	26	11	5.4
21.....	2.3	.....	.....	.....	.....	.....	7.1	64	89	22	11	5.1
22.....	2.1	.....	.....	.....	.....	.....	6.1	67	83	19	10	6.1
23.....	2.1	.....	.....	.....	.....	.....	6.1	70	84	18	9.5	8.4
24.....	2.1	.....	.....	.....	.....	.....	5.8	81	86	17	8.8	6.1
25.....	2.1	.....	.....	.....	.....	Nov. 27	6.4	86	78	17	8.1	5.4
26.....	2.1	.....	.....	.....	.....	to 31	7.1	90	73	17	8.1	4.9
27.....	1.7	.....	.....	.....	.....	2.6	9.5	86	70	17	7.7	4.7
28.....	2.1	.....	.....	.....	.....	2.5	11	82	64	16	7.4	4.9
29.....	2.5	.....	.....	.....	.....	2.5	12	71	56	15	8.1	9.8
30.....	3.2	.....	.....	.....	.....	2.8	14	66	50	14	8.4	6.8
31.....	2.5	.....	.....	.....	.....	3.2	.....	66	.....	15	7.4	.....
Total	81.0	.....	.....	.....	.....	.....	206.6	2368	2082	850	335.3	176.0
Mean.	2.61	.....	.....	.....	.....	.....	6.89	76.4	69.4	27.4	10.8	5.87
Max..	3.6	.....	.....	.....	.....	.....	14	140	90	48	16	9.8
Min..	1.7	.....	.....	.....	.....	.....	2.5	3.6	16	50	14	7.4
Acres-ft.	161	27	410	4700	4130	1690	665	349

Total run-off for period=12,130 acre-feet.

Discharge of Rock Creek Near Monte Vista, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	5.8	9.5	.....	.....	.....	.....	3.7	34	69	27	11	5.4
2.....	5.4	9.8	.....	.....	.....	.....	4.2	37	61	27	14	4.9
3.....	9.5	9.5	.....	.....	.....	.....	5.0	40	63	25	11	4.5
4.....	8.4	9.5	.....	.....	.....	.....	6.2	50	65	24	9.1	5.1
5.....	7.1	9.5	.....	.....	.....	.....	7.0	60	67	22	8.8	7.4
6.....	7.1	8.1	.....	.....	.....	.....	6.1	66	66	21	9.5	5.8
7.....	6.8	7.1	.....	.....	.....	.....	4.5	71	69	20	9.1	6.4
8.....	8.1	7.7	.....	.....	.....	.....	4.7	72	65	19	8.1	5.1
9.....	7.7	9.8	.....	.....	.....	.....	8.4	81	64	19	7.7	4.7
10.....	7.1	8.4	.....	.....	.....	.....	15	97	61	18	7.7	4.5
11.....	6.8	7.4	.....	.....	.....	.....	22	97	63	16	8.1	5.4
12.....	6.8	6.4	.....	.....	.....	.....	21	89	61	14	7.7	5.4
13.....	11	8.1	.....	.....	.....	.....	23	66	59	13	7.7	5.1
14.....	16	6.8	.....	.....	.....	.....	34	54	56	13	6.8	4.5
15.....	12	6.8	.....	.....	.....	.....	40	52	51	14	6.4	4.5
16.....	12	6.8	.....	.....	.....	.....	39	53	50	14	6.8	4.0
17.....	11	6.8	.....	.....	.....	.....	37	52	49	16	6.8	3.8
18.....	11	5.4	.....	.....	.....	.....	26	53	49	14	6.1	3.8
19.....	11	3.6	.....	.....	.....	.....	20	55	46	15	6.4	4.0
20.....	11	.....	.....	.....	.....	.....	19	60	44	13	5.8	4.3
21.....	12	.....	.....	.....	.....	.....	24	61	42	11	5.1	4.3
22.....	12	.....	.....	.....	.....	.....	43	68	39	11	5.1	4.3
23.....	14	.....	.....	.....	.....	.....	56	80	36	9.5	4.9	4.3
24.....	14	.....	.....	.....	.....	.....	42	91	34	9.5	4.9	3.8
25.....	14	.....	.....	.....	.....	.....	36	94	31	8.8	5.1	3.6
26.....	14	.....	.....	.....	.....	.....	36	104	30	9.5	4.9	3.2
27.....	13	.....	.....	.....	.....	.....	39	98	28	9.8	4.3	3.2
28.....	13	.....	.....	.....	.....	.....	41	83	28	9.8	4.0	3.2
29.....	13	.....	.....	.....	.....	.....	39	85	27	9.1	3.8	3.4
30.....	12	Nov. 1	.....	.....	.....	.....	36	75	27	8.1	3.8	3.4
31.....	9.8	to 19	.....	.....	.....	.....	.....	72	.....	7.7	4.0	.....
Total	322.4	147.0	.....	.....	.....	.....	737.8	2150	1500	467.8	214.5	135.3
Mean.	10.4	7.74	.....	.....	.....	.....	24.6	69.4	50.0	15.1	6.92	4.51
Max..	16	9.8	.....	.....	.....	.....	56	104	69	27	14	7.4
Min..	5.4	3.6	.....	.....	.....	.....	3.7	34	27	7.7	3.8	3.2
Acres-ft.	639	292	.....	.....	.....	.....	1460	4260	2980	928	425	268

Total run-off for period=11,250 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Alamosa River Above Terrace Reservoir, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	48	.....	.....	.....	.....	.....	26	107	709	634	139	57
2.....	47	.....	.....	.....	.....	.....	25	114	782	612	129	55
3.....	41	.....	.....	.....	.....	.....	25	137	864	612	120	53
4.....	40	.....	.....	.....	.....	.....	26	143	872	618	108	52
5.....	42	.....	.....	.....	.....	.....	27	156	872	657	116	49
6.....	91	.....	.....	.....	.....	.....	26	239	811	579	124	46
7.....	77	.....	.....	.....	.....	.....	25	319	774	513	132	46
8.....	66	24	.....	.....	.....	.....	26	420	695	540	154	45
9.....	60	24	.....	.....	.....	.....	*27	586	548	496	186	46
10.....	56	.....	.....	.....	.....	.....	29	767	476	464	139	46
11.....	52	.....	.....	.....	.....	.....	34	896	425	464	134	43
12.....	45	.....	.....	.....	.....	.....	32	1070	420	464	124	41
13.....	41	.....	.....	.....	.....	.....	31	1330	452	442	112	44
14.....	40	.....	.....	.....	.....	.....	29	1290	512	395	124	97
15.....	37	.....	.....	.....	.....	.....	31	1040	554	370	258	82
16.....	36	.....	.....	.....	.....	.....	35	880	592	330	154	76
17.....	34	.....	.....	.....	.....	.....	39	1030	796	339	144	72
18.....	32	.....	.....	.....	.....	.....	40	1100	1020	486	136	69
19.....	31	.....	.....	.....	.....	.....	38	1020	1290	458	118	80
20.....	30	.....	.....	.....	.....	.....	37	724	1210	447	110	90
21.....	29	.....	.....	.....	.....	.....	35	518	1200	385	104	92
22.....	28	.....	.....	.....	.....	.....	35	512	1170	385	97	92
23.....	27	.....	.....	.....	.....	.....	34	524	1200	326	89	88
24.....	27	.....	.....	.....	.....	.....	33	599	1170	308	79	83
25.....	25	.....	.....	.....	.....	.....	38	753	1180	276	73	80
26.....	26	.....	.....	.....	.....	.....	42	936	1060	244	69	73
27.....	27	.....	.....	.....	.....	.....	56	928	928	215	66	68
28.....	26	.....	.....	.....	.....	.....	69	767	896	192	62	68
29.....	25	.....	.....	.....	.....	.....	91	612	744	174	62	67
30.....	26	.....	.....	.....	.....	.....	95	586	657	160	69	67
31.....	25	.....	.....	.....	.....	.....	.....	606	.....	144	62	.....
Total	1240	620	558	572	392	496	1136	20709	24879	12729	3593	1967
Mean.	40.0	20.7	18	12	14	16	37.9	668	829	411	116	65.6
Max..	91	.....	.....	.....	.....	.....	95	1330	1290	657	258	97
Min..	25	.....	.....	.....	.....	.....	25	107	420	144	62	41
Acre-ft.	2460	1230	1110	738	778	984	2250	41080	49350	25250	7130	3900

Total run-off for water year=136,300 acre-feet.

*Discharge measurement made on this day.

Discharge of Alamosa River Above Terrace Reservoir, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	72	95	.....	.....	.....	.....	30	143	826	279	101	28
2.....	84	93	.....	.....	.....	.....	45	154	840	283	95	28
3.....	133	92	.....	.....	.....	.....	56	151	833	262	84	27
4.....	124	90	.....	.....	.....	.....	57	191	770	234	84	28
5.....	119	85	.....	.....	.....	.....	65	246	805	223	71	31
6.....	116	80	.....	.....	.....	.....	59	318	888	223	73	28
7.....	109	71	.....	.....	.....	.....	31	332	926	210	68	30
8.....	108	.....	.....	.....	.....	.....	41	374	864	223	61	28
9.....	103	.....	.....	.....	.....	.....	50	430	872	223	58	25
10.....	99	.....	.....	.....	.....	.....	56	536	812	207	56	23
11.....	93	.....	.....	.....	.....	.....	81	548	960	185	53	44
12.....	90	.....	.....	.....	.....	.....	81	524	944	170	51	41
13.....	242	.....	.....	.....	.....	.....	92	359	848	159	51	37
14.....	300	.....	.....	.....	.....	.....	145	310	744	140	49	30
15.....	270	.....	.....	.....	.....	.....	182	318	620	140	44	27
16.....	200	.....	.....	.....	.....	.....	194	336	668	143	44	26
17.....	176	.....	.....	.....	.....	.....	197	354	731	162	43	24
18.....	176	.....	.....	.....	.....	.....	143	369	770	154	43	23
19.....	167	.....	.....	.....	.....	.....	122	388	724	145	41	22
20.....	163	.....	.....	.....	.....	.....	105	458	656	122	41	21
21.....	165	.....	.....	.....	.....	.....	113	590	596	109	37	21
22.....	165	34	179	650	536	103	37	21
23.....	164	41	220	731	506	99	37	21
24.....	162	37	176	833	476	93	36	20
25.....	156	34	148	920	403	92	34	20
26.....	140	29	140	976	364	92	32	19
27.....	132	43	133	1000	346	88	30	18
28.....	125	35	138	872	301	93	28	18
29.....	115	66	138	928	279	86	27	18
30.....	105	Nov. 1	23	133	812	270	79	27	18
31.....	100	to 7	26	757	74	26
Total	4473	606	368	3350	5908	20188	4895	1562	765
Mean.	144	86.6	36.8	112	513	673	158	50.4	25.5
Max..	300	220	1000	960	283	101	44
Min..	72	30	143	270	74	26	18
Acre-ft.	8870	1200	730	6640	31550	40040	9710	3100	1520

Total run-off for period=103,400 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

THIRTY-FIRST BIENNIAL REPORT

Discharge of Alamosa River Below Terrace Reservoir, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	44	23	3	3	3	3	3.4	108	742	501	342	150
2....	46	23	3	3	3	3	9.6	112	738	509	342	153
3....	53	24	3	3	3	3	16	112	738	517	334	162
4....	58	24	3	3	3	3	16	130	738	521	296	156
5....	57	23	3	3	3	3	15	145	724	529	292	153
6....	69	23	3	3	3	3	15	191	657	590	292	147
7....	83	23	3	3	3	3	21	219	662	585	289	142
8....	85	23	3	3	3	3	26	290	652	565	306	131
9....	85	23	3	3	3	3	26	313	453	565	314	119
10....	85	22	3	3	3	3	26	296	303	565	314	111
11....	83	21	3	3	3	3	28	326	240	569	310	91
12....	81	20	3	3	3	3	29	430	240	545	296	69
13....	79	20	3	3	3	3	31	564	240	465	286	69
14....	61	20	3	3	3	3	44	756	244	417	261	69
15....	49	19	3	3	3	3	49	778	244	377	258	69
16....	49	18	3	3	3	3	54	796	389	272	240	69
17....	49	18	3	3	3	3	57	815	517	298	237	69
18....	44	18	3	3	3	3	57	810	865	357	240	81
19....	39	18	3	3	3	3	57	810	1060	361	240	87
20....	39	3	3	3	3	3	57	688	1170	385	237	87
21....	33	3	3	3	3	3	55	639	1120	417	224	85
22....	28	3	3	3	3	3	55	639	1100	441	198	78
23....	28	3	3	3	3	3	55	634	1100	445	195	78
24....	28	3	3	3	3	3	55	639	1130	441	192	79
25....	28	3	3	3	3	3	57	639	1110	441	189	83
26....	28	3	3	3	3	3	57	675	925	429	189	83
27....	26	3	3	3	3	3	57	724	855	417	189	83
28....	26	3	3	3	3	3	57	765	648	393	189	79
29....	26	3	3	3	....	3.1	85	760	545	385	177	76
30....	24	3	3	3	....	2.8	85	760	545	385	177	76
31....	23	....	3	3	....	3.1	....	752	....	342	153	....
Total	1547	451	93	93	84	93.0	1225.0	16343	20526	13982	7865	2977
Mean.	49.9	15.0	3	3	3	3.0	40.8	527	684	451	254	99.2
Max.	85	24	3	3	3	3.1	85	815	1170	590	342	162
Min.	23	3	3	3	3	2.8	3.4	108	240	272	153	69
Acre-ft.	3070	895	184	184	167	184	2430	32420	40710	27730	15600	5900

Total run-off for water year=129,500 acre-feet.

Discharge of Alamosa River Below Terrace Reservoir, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	71	78	10	10	10	10	30	180	875	469	144	91
2....	71	78	10	10	10	10	30	180	711	437	142	61
3....	69	83	10	10	10	10	30	177	662	405	142	60
4....	69	85	10	10	10	10	29	174	666	289	142	61
5....	69	85	10	10	10	10	29	174	670	286	144	61
6....	71	83	10	10	10	10	29	174	675	303	147	54
7....	69	83	10	10	10	10	36	233	680	303	147	50
8....	66	81	10	10	10	10	49	275	680	306	134	48
9....	66	83	10	10	10	10	49	324	675	306	121	48
10....	67	83	10	10	10	10	50	353	675	310	121	56
11....	67	83	10	10	10	10	55	417	684	306	137	55
12....	67	83	10	10	10	10	64	477	796	303	139	55
13....	69	83	10	10	10	10	78	489	810	300	142	49
14....	71	83	10	10	10	10	87	489	810	268	142	46
15....	72	79	10	10	10	10	87	489	698	264	142	42
16....	72	64	10	10	10	10	99	417	675	268	139	33
17....	71	60	10	10	10	10	115	361	680	272	137	28
18....	71	60	10	10	10	10	113	361	680	272	117	25
19....	71	50	10	10	10	10	113	361	684	264	117	23
20....	72	10	10	10	10	10	117	361	684	258	117	22
21....	72	10	10	10	10	10	119	361	684	247	111	22
22....	74	10	10	10	10	10	142	361	680	247	101	22
23....	74	10	10	10	10	10	150	361	666	217	101	20
24....	74	10	10	10	10	10	150	433	634	217	101	20
25....	74	10	10	10	10	10	174	616	598	198	99	22
26....	76	10	10	10	10	10	180	801	557	189	97	18
27....	76	10	10	10	10	10	180	940	521	192	97	18
28....	76	10	10	10	10	10	180	1040	521	198	99	18
29....	76	10	10	10	....	27	180	975	509	201	101	18
30....	78	10	10	10	....	28	180	960	469	189	99	18
31....	78	....	10	10	....	29	....	960	....	150	95	....
Total	2219	1577	310	310	280	364	2924	14274	20009	8434	3814	1164
Mean.	71.6	52.6	10	10	10	11.7	97.5	460	667	272	123	38.8
Max.	78	85	....	....	....	29	180	1040	875	469	147	91
Min.	66	10	....	....	....	29	174	469	150	95	18	....
Acre-ft.	4400	3130	615	615	555	722	5800	28310	39690	16730	7560	2310

Total run-off for water year=110,400 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of La Jara Creek at Gallegos Ranch Near Capulin, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	7.9	6.6	....	....	....	....	8.7	33	54	11	11	8.3
2....	7.2	6.9	....	....	....	....	8.4	47	49	10	9.8	8.3
3....	6.9	7.2	....	....	....	....	8.2	55	49	9.8	10	8.0
4....	6.9	7.2	....	....	....	....	8.0	62	47	9.5	10	7.7
5....	7.2	5.5	....	....	....	....	9.2	92	39	10	10	8.6
6....	8.2	6.6	....	....	....	....	9.0	152	36	14	10	8.9
7....	7.9	6.6	....	....	....	....	8.3	273	41	11	11	8.6
8....	7.9	*7.0	....	....	....	....	8.8	238	118	10	12	8.6
9....	7.6	....	....	....	....	....	8.9	300	90	16	27	9.2
10....	7.6	....	....	....	....	....	10	341	77	13	28	9.2
11....	7.6	....	....	....	....	....	9.2	349	68	12	30	9.5
12....	7.2	....	....	....	....	....	8.3	324	63	13	30	9.5
13....	7.2	....	....	....	....	....	9.5	347	58	13	25	9.5
14....	7.2	....	....	....	....	....	8.6	300	48	13	25	10
15....	7.2	....	....	....	....	....	9.2	228	45	13	24	9.8
16....	6.9	....	....	....	....	....	9.8	162	46	13	21	10
17....	6.9	....	....	....	....	....	11	149	45	13	13	10
18....	6.9	....	....	....	....	....	10	167	34	13	13	11
19....	6.9	....	....	....	....	....	9.5	140	29	13	11	11
20....	7.2	....	....	....	....	....	9.2	126	25	16	11	11
21....	7.2	....	....	....	....	....	10	100	22	16	10	11
22....	7.2	....	....	....	....	....	9.5	156	21	15	11	11
23....	7.2	....	....	....	....	....	11	131	19	13	10	14
24....	6.9	....	....	....	....	....	9.5	105	18	12	10	12
25....	7.2	....	....	....	....	....	10	101	18	12	10	11
26....	7.2	....	....	....	....	....	10	96	16	12	10	11
27....	8.2	....	....	....	....	....	11	91	14	12	9.2	11
28....	7.9	....	....	....	....	....	13	94	13	9.8	9.2	11
29....	7.6	....	....	....	....	....	19	83	13	9.5	8.9	15
30....	8.2	Nov. 1	....	....	....	....	24	77	12	10	8.9	13
31....	7.2	to 8	....	....	....	....	....	60	....	11	8.6	....
Total	228.5	53.6	....	....	....	....	308.8	4979	1227	378.6	447.6	306.7
Mean..	7.37	6.7	....	....	....	....	10.3	161	40.9	12.2	14.4	10.2
Max...	8.2	7.2	....	....	....	....	24	349	118	16	30	15
Min...	6.9	5.5	....	....	....	....	8.0	33	12	9.5	8.6	7.7
Acre-ft.	453	106	....	....	....	....	612	9880	2430	751	888	608

Total run-off for period=15,730 acre-feet.

*Discharge measurement made on this day.

**Discharge of La Jara Creek at Gallegos Ranch Near Capulin, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	12	....	....	....	....	18	97	30	9.5	30	15
2....	11	12	....	....	....	....	26	126	29	14	33	12
3....	12	11	....	....	....	....	35	117	29	14	36	9.0
4....	11	10	....	....	....	....	43	134	48	11	36	9.0
5....	11	11	....	....	....	....	56	154	27	11	34	11
6....	10	11	....	....	....	....	60	155	24	9.5	35	9.0
7....	10	10	....	....	....	....	23	176	22	7.0	35	9.0
8....	9.8	....	....	....	....	....	17	178	22	8.0	35	9.0
9....	9.5	....	....	....	....	....	23	198	19	8.0	35	10
10....	9.5	....	....	....	....	....	35	192	17	8.0	40	10
11....	9.5	....	....	....	....	....	79	205	14	8.5	40	14
12....	9.5	....	....	....	....	....	81	173	11	8.0	44	13
13....	9.8	....	....	....	....	....	114	103	10	8.0	45	10
14....	16	....	....	....	....	....	242	93	9.0	8.0	38	8.5
15....	13	....	....	....	....	....	245	94	9.5	8.0	38	9.0
16....	12	....	....	....	....	....	213	85	9.0	8.5	37	10
17....	11	....	....	....	....	....	188	93	8.5	9.0	36	10
18....	11	....	....	....	....	....	116	96	7.0	8.5	36	10
19....	11	....	....	....	....	....	69	94	6.5	9.0	29	11
20....	11	....	....	....	....	....	60	100	6.0	8.5	26	13
21....	11	....	....	....	....	....	79	104	6.5	8.5	19	15
22....	12	....	....	....	....	....	152	104	7.0	9.0	18	14
23....	13	....	....	....	....	....	179	93	7.5	9.0	18	13
24....	15	....	....	....	....	....	109	85	7.5	9.0	22	11
25....	14	....	....	....	....	....	102	84	7.5	23	18	9.5
26....	14	....	....	....	....	....	86	73	7.0	24	18	9.0
27....	13	....	....	....	....	....	71	62	7.0	24	20	8.5
28....	13	....	....	....	....	....	83	45	7.0	23	21	8.5
29....	13	....	....	....	....	....	92	38	6.0	30	20	8.5
30....	12	Nov. 1	....	....	....	....	80	37	6.0	28	21	8.5
31....	13	to 7	....	....	....	....	....	33	....	29	20	....
Total	361.6	77	....	....	....	....	2776	3421	426.5	400.5	933	317.0
Mean..	11.7	11	....	....	....	....	92.5	110	14.2	12.9	30.1	10.6
Max...	16	12	....	....	....	....	245	205	48	30	45	15
Min...	9.5	10	....	....	....	....	17	33	6.0	7.0	13	8.5
Acre-ft.	717	153	....	....	....	....	5510	6790	846	791	1850	629

Total run-off for period=17,290 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Trincher Creek Above Turner's Ranch Near Fort Garland, Colo., for Year
Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	14	9.1	.....	.....	.....	.....	10	21	162	129	39	18
2.....	12	9.8	.....	.....	.....	.....	10	25	148	122	39	17
3.....	12	11	.....	.....	.....	.....	10	27	155	116	38	15
4.....	11	11	.....	.....	.....	.....	10	27	158	110	38	15
5.....	14	11	.....	.....	.....	.....	10	27	162	104	36	15
6.....	14	11	.....	.....	.....	.....	10	37	166	96	34	14
7.....	13	11	.....	.....	.....	.....	10	51	169	88	33	13
8.....	12	11	.....	.....	.....	.....	10	70	158	85	33	14
9.....	11	11	.....	.....	.....	.....	10	87	162	82	33	15
10.....	12	12	.....	.....	.....	.....	10	104	176	77	33	15
11.....	12	.....	.....	.....	.....	.....	10	129	172	75	32	14
12.....	13	.....	.....	.....	.....	.....	10	142	166	75	32	14
13.....	13	.....	.....	.....	.....	.....	10	236	162	70	32	15
14.....	13	.....	.....	.....	.....	.....	11	310	162	70	30	20
15.....	13	.....	.....	.....	.....	.....	11	320	166	65	28	15
16.....	13	.....	.....	.....	.....	.....	11	246	172	63	28	15
17.....	13	.....	.....	.....	.....	.....	11	217	169	60	27	15
18.....	13	.....	.....	.....	.....	.....	11	209	155	58	26	14
19.....	12	.....	.....	.....	.....	.....	13	191	138	54	23	14
20.....	12	.....	.....	.....	.....	.....	13	141	155	54	24	16
21.....	11	.....	.....	.....	.....	.....	9.8	138	158	52	24	16
22.....	11	.....	.....	.....	.....	.....	9.8	135	155	48	23	21
23.....	11	.....	.....	.....	.....	.....	9.8	126	162	48	23	20
24.....	11	.....	.....	.....	.....	.....	9.8	119	169	45	22	16
25.....	11	.....	.....	.....	.....	.....	11	122	166	45	21	15
26.....	11	.....	.....	.....	.....	.....	12	141	158	45	21	14
27.....	12	.....	.....	.....	.....	.....	14	176	158	43	20	14
28.....	11	.....	.....	.....	.....	.....	14	191	155	43	18	14
29.....	9.8	.....	.....	.....	.....	.....	16	169	144	41	20	33
30.....	11	.....	.....	.....	.....	.....	18	158	138	41	20	26
31.....	11	.....	.....	.....	.....	.....	.....	144	.....	41	18	.....
Total	372.8	240	.....	.....	.....	.....	355.2	4236	4796	2145	868	492
Mean	12.0	8.6	.....	.....	.....	.....	11.2	137	160	69.2	28.0	16.4
Max.	14	.....	.....	.....	.....	.....	18	320	176	129	39	33
Min.	9.8	.....	.....	.....	.....	.....	9.8	21	138	41	18	13
Acre-ft.	739	476	.....	.....	.....	.....	665	8400	9510	4250	1720	976

Total run-off for period = 26,740 acre-feet.

**Discharge of Trincher Creek Above Turner's Ranch Near Fort Garland, Colo., for Year
Ending Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	22	23	.....	.....	.....	.....	30	45	291	84	31	23
2.....	21	23	.....	.....	.....	.....	17	43	297	82	28	18
3.....	22	22	.....	.....	.....	.....	17	43	291	76	28	16
4.....	24	21	.....	.....	.....	.....	13	50	314	71	27	14
5.....	21	21	.....	.....	.....	.....	14	63	320	67	27	14
6.....	21	21	.....	.....	.....	.....	15	75	297	66	25	14
7.....	20	21	.....	.....	.....	.....	14	122	281	63	24	14
8.....	20	*20	.....	.....	.....	.....	16	144	260	62	24	13
9.....	18	21	.....	.....	.....	.....	13	172	254	60	23	12
10.....	16	22	.....	.....	.....	.....	13	169	244	61	22	11
11.....	16	21	.....	.....	.....	.....	18	228	236	55	24	14
12.....	15	20	.....	.....	.....	.....	20	220	240	53	21	14
13.....	21	20	.....	.....	.....	.....	20	213	236	50	20	14
14.....	32	21	.....	.....	.....	.....	30	206	222	49	19	14
15.....	26	21	.....	.....	.....	.....	38	187	204	50	19	15
16.....	23	21	.....	.....	.....	.....	38	176	189	48	19	15
17.....	22	20	.....	.....	.....	.....	38	172	177	45	18	14
18.....	22	21	.....	.....	.....	.....	36	169	177	43	18	14
19.....	22	18	.....	.....	.....	.....	33	172	174	41	17	15
20.....	22	11	.....	.....	.....	.....	34	180	170	39	16	16
21.....	24	11	.....	.....	.....	.....	33	172	160	39	17	17
22.....	23	10	.....	.....	.....	.....	43	213	151	38	16	17
23.....	26	10	.....	.....	.....	.....	60	277	142	37	16	16
24.....	26	10	.....	.....	.....	Mar. 26	54	290	139	37	16	15
25.....	26	9	.....	.....	.....	to 31	43	375	124	36	17	14
26.....	26	9	.....	.....	.....	.....	41	39	404	114	33	16
27.....	26	9	.....	.....	.....	.....	48	41	428	104	31	14
28.....	27	9	.....	.....	.....	.....	39	41	356	96	31	13
29.....	27	9	.....	.....	.....	.....	45	332	87	31	12	13
30.....	26	9	.....	.....	.....	.....	47	297	84	28	12	15
31.....	24	.....	.....	.....	.....	.....	.....	276	.....	27	12	.....
Total	707	504	.....	.....	.....	217	913	6269	6075	1533	611	446
Mean	22.8	16.8	.....	.....	.....	36.2	30.4	202	202	49.5	19.7	14.9
Max.	32	23	.....	.....	.....	.....	60	428	320	84	31	23
Min.	15	9	.....	.....	.....	.....	13	43	84	27	12	11
Acre-ft.	1400	1000	.....	.....	.....	430	1810	12430	12050	3040	1210	885

Total run-off for period = 34,260 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Trincher Creek Above Mountain Home Reservoir Near Fort Garland, Colo.,
for Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	8.3	9.2	6.8	7.6	6.6	7.8	11	16	161	94	20	7.7
2.....	8.3	7.0	7.0	7.0	6.4	8.0	11	21	159	87	19	7.7
3.....	8.3	7.0	7.0	6.4	6.3	8.2	10	23	159	82	19	7.2
4.....	8.8	7.0	7.2	6.2	6.0	8.2	10	22	153	79	19	6.4
5.....	9.2	7.4	7.2	6.2	5.8	8.2	11	21	154	83	18	6.4
6.....	9.7	8.4	7.2	6.8	5.8	8.0	11	25	162	81	19	5.9
7.....	8.8	*9.2	7.4	6.8	6.0	7.8	11	40	168	75	19	6.4
8.....	8.8	9.2	7.4	7.0	6.0	7.6	9.7	60	176	68	20	6.8
9.....	8.8	8.8	7.4	7.0	5.8	7.6	9.7	99	162	59	20	7.7
10.....	8.8	8.3	7.4	7.4	5.8	7.6	9.7	139	148	56	17	7.2
11.....	8.8	6.3	8.0	7.6	6.0	7.8	9.7	190	137	54	16	5.4
12.....	8.8	5.5	8.2	7.6	6.0	8.0	10	237	124	53	14	5.4
13.....	8.3	5.5	8.2	7.4	6.0	8.2	11	266	113	50	14	5.6
14.....	8.8	5.5	8.0	7.2	6.2	8.6	10	312	114	47	14	7.5
15.....	8.8	7.0	7.0	*7.0	6.2	9.0	10	320	119	44	14	6.7
16.....	8.8	8.5	5.8	6.6	6.4	8.8	10	298	119	38	13	7.5
17.....	8.3	7.8	6.4	6.4	*6.4	8.6	11	276	126	36	14	6.5
18.....	8.3	7.4	6.8	6.4	6.6	8.4	11	226	146	35	15	6.4
19.....	8.8	7.0	6.6	6.8	6.8	8.4	11	203	162	33	14	6.7
20.....	8.8	6.8	6.4	7.0	7.0	8.8	10	157	173	33	12	7.7
21.....	8.3	7.2	6.4	7.0	7.0	9.2	11	137	169	30	12	8.0
22.....	7.4	7.6	6.4	6.6	7.2	9.4	11	120	148	29	12	11
23.....	7.8	7.8	6.8	6.4	7.6	9.6	11	120	148	27	12	11
24.....	7.8	8.0	7.6	6.2	8.0	9.4	11	124	151	26	12	8.5
25.....	8.8	8.2	7.8	6.0	8.2	*9.0	11	131	145	26	13	8.2
26.....	8.8	7.0	7.2	6.2	8.2	9.7	12	148	137	26	14	7.7
27.....	8.8	6.6	6.4	6.4	8.0	9.2	13	157	130	25	11	7.9
28.....	9.2	6.4	6.6	6.6	7.6	9.7	13	161	122	24	8.0	8.8
29.....	8.8	6.6	7.0	6.6	.....	10	13	157	114	24	7.9	16
30.....	8.8	6.8	7.4	6.6	.....	11	15	151	104	22	8.0	19
31.....	9.7	.....	7.6	6.8	.....	11	.....	156	.....	21	7.9	.....
Total	268.5	221.0	220.6	209.8	185.9	270.8	328.8	451.3	430.3	1467	447.8	240.5
Mean..	8.6	7.37	7.12	6.77	6.64	8.74	11.0	146	143	47.3	14.4	8.03
Max...	9.7	9.2	8.2	7.6	8.2	11	15	320	176	94	20	19
Min...	7.4	5.5	5.8	6.0	5.8	7.6	9.7	16	104	21	7.9	5.4
Acre-ft.	533	438	438	416	369	537	652	8950	8530	2910	888	478

Total run-off for water year=25,140 acre-feet.

*Discharge measurement made on this day.

**Discharge of Trincher Creek Above Mountain Home Reservoir Near Fort Garland, Colo.,
for Year Ending Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	20	22	.....	.....	.....	.....	10	80	240	73	21	11
2.....	18	22	.....	.....	.....	.....	11	80	240	76	19	11
3.....	18	22	.....	.....	.....	.....	14	75	236	70	20	9.3
4.....	20	22	.....	.....	.....	.....	14	81	238	66	19	9.3
5.....	20	22	.....	.....	.....	.....	14	103	228	64	17	11
6.....	20	20	.....	.....	.....	.....	18	128	218	63	17	12
7.....	19	20	.....	.....	.....	.....	14	138	210	62	18	13
8.....	19	17	.....	.....	.....	.....	13	159	193	53	17	13
9.....	17	21	.....	.....	.....	.....	14	181	190	48	16	12
10.....	17	22	.....	.....	.....	.....	13	183	174	62	15	12
11.....	17	20	.....	.....	.....	.....	18	214	168	64	16	13
12.....	16	19	.....	.....	.....	.....	20	226	176	61	16	13
13.....	19	20	.....	.....	.....	.....	20	197	179	59	17	12
14.....	36	20	.....	.....	.....	.....	25	174	183	57	18	11
15.....	30	20	.....	.....	.....	.....	43	149	171	47	18	10
16.....	28	20	.....	.....	.....	.....	46	137	162	40	17	10
17.....	25	19	.....	.....	.....	.....	54	142	159	38	17	9.9
18.....	23	20	.....	.....	.....	.....	52	143	162	35	16	9.9
19.....	23	17	.....	.....	.....	.....	42	145	166	35	15	10
20.....	22	10	.....	.....	.....	.....	47	162	159	33	14	11
21.....	23	11	.....	.....	.....	.....	46	186	154	33	15	11
22.....	22	10	.....	.....	.....	.....	59	212	146	32	14	11
23.....	24	10	.....	.....	.....	.....	96	259	137	27	14	11
24.....	25	10	.....	.....	.....	.....	86	270	138	25	14	11
25.....	25	10	.....	.....	.....	.....	75	308	126	24	14	10
26.....	25	10	.....	.....	.....	.....	67	327	114	22	14	11
27.....	25	10	.....	.....	.....	.....	68	346	105	22	12	11
28.....	26	9	.....	.....	.....	.....	66	315	92	20	11	11
29.....	26	9	.....	.....	.....	.....	70	306	83	21	9.6	11
30.....	25	9	.....	.....	.....	.....	83	281	75	19	9.3	11
31.....	23	.....	.....	.....	.....	.....	.....	265	.....	18	9.0	.....
Total	696	493	.....	.....	.....	.....	1218	5972	5022	1369	478.0	332.4
Mean..	22.5	16.4	.....	.....	.....	.....	40.6	192	167	44.2	15.4	11.1
Max...	36	22	.....	.....	.....	.....	96	346	240	76	21	13
Min...	16	9	.....	.....	.....	.....	10	75	75	18	9	9.3
Acre-ft.	1380	978	.....	.....	.....	.....	2420	11850	9960	2720	950	659

Total run-off for period=30,920 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Trinchera Creek Below Smith Reservoir Near Blanca, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.7	....	....	....	....	....	1.1	169	433	97	5.6	0.9
2....	0.7	....	....	....	....	....	2.8	214	406	80	5.6	1.2
3....	0.7	....	....	....	....	....	10	253	387	67	4.7	1.2
4....	0.7	....	....	....	....	....	22	274	373	60	4.4	1.2
5....	0.9	....	....	....	....	....	28	316	346	54	4.4	1.2
6....	0.8	....	....	....	....	....	40	343	332	47	4.4	1.2
7....	0.7	*0.6	....	....	....	....	44	395	320	47	4.1	1.0
8....	0.7	....	....	....	....	....	46	417	355	52	3.8	1.0
9....	0.7	....	....	....	....	....	48	417	326	55	3.8	1.2
10....	0.7	....	....	....	....	....	48	419	298	56	3.2	1.2
11....	0.7	....	....	....	....	....	54	421	275	57	2.8	1.0
12....	0.8	....	....	....	....	....	55	435	259	60	2.8	1.0
13....	1.0	....	....	....	....	....	56	495	244	61	2.5	1.2
14....	1.4	....	....	....	....	....	57	540	228	60	2.0	1.2
15....	0.8	....	....	....	....	....	57	640	219	64	1.8	0.9
16....	0.8	....	....	....	....	....	56	630	209	66	1.8	1.0
17....	0.8	....	....	....	....	....	58	590	200	65	1.2	1.8
18....	0.8	....	....	....	....	....	63	580	189	64	0.9	1.5
19....	0.8	....	....	....	....	....	68	590	194	65	0.8	2.2
20....	0.8	....	....	....	....	....	68	560	194	68	1.0	3.0
21....	0.8	....	....	....	....	....	66	515	188	71	0.9	2.5
22....	0.8	....	....	....	....	....	67	480	188	60	1.0	2.2
23....	0.8	....	....	....	....	....	68	470	185	57	1.2	2.2
24....	0.8	....	....	....	....	....	61	*480	185	57	0.9	2.2
25....	0.8	....	....	....	....	....	61	485	186	46	0.9	2.0
26....	0.8	....	....	....	....	....	70	475	178	24	1.0	2.0
27....	0.8	....	....	....	....	....	79	480	155	23	1.0	2.2
28....	0.8	....	....	....	....	....	95	481	142	22	1.0	2.2
29....	0.8	....	....	....	....	1.4	123	472	128	21	1.0	2.0
30....	0.8	....	....	....	....	1.2	139	470	112	13	1.2	2.2
31....	0.8	....	....	....	....	1.0	....	454	....	5.9	1.0	....
Total	24.8	....	....	....	....	....	1710.9	13960	7434	1644.9	72.7	47.8
Mean..	0.8	0.6	....	....	....	....	57.0	450	248	53.1	2.35	1.59
Max...	0	....	....	....	....	....	139	640	433	97	5.6	3.0
Min...	0	....	....	....	....	....	1.1	169	112	5.9	0.8	0.9
Acre-ft.	49	36	....	....	....	....	3390	27690	14750	3260	144	95

Total run-off for period=49,410 acre-feet.

Discharge of Trinchera Creek Below Smith Reservoir Near Blanca, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1....	2.2	68	....	....	....	....	39	512	445	28	1.4	1.3
2....	2.2	64	....	....	....	....	41	501	405	23	1.4	1.3
3....	2.2	62	....	....	....	....	49	503	369	16	1.4	1.3
4....	3.0	63	....	....	....	....	57	526	380	12	1.3	1.3
5....	2.8	63	....	....	....	....	64	608	384	8.5	1.3	1.3
6....	2.0	61	....	....	....	....	83	812	366	6.0	1.3	1.3
7....	2.2	57	....	....	....	....	76	877	343	6.0	*1.3	1.3
8....	2.2	54	....	....	....	....	84	925	332	8.9	1.3	1.3
9....	10	52	....	....	....	....	76	1040	313	8.9	1.3	1.3
10....	14	51	....	....	....	....	71	1200	289	8.2	1.3	1.3
11....	15	52	....	....	....	....	73	*1340	253	7.8	1.3	1.3
12....	14	52	....	....	....	....	95	1200	208	6.6	1.3	1.3
13....	14	49	....	....	....	....	118	1020	179	5.7	1.3	1.3
14....	17	50	....	....	....	....	164	900	167	4.9	1.3	1.3
15....	29	51	....	....	....	....	242	780	162	4.6	1.3	1.3
16....	38	49	....	....	....	....	319	670	153	4.0	1.3	*1.3
17....	47	47	....	....	....	....	283	610	139	3.5	1.3	1.3
18....	54	46	....	....	....	....	274	580	121	3.0	1.3	1.3
19....	56	47	....	....	....	....	277	550	102	2.5	1.3	1.3
20....	58	46	....	....	....	....	236	540	88	2.0	1.3	1.3
21....	59	45	....	....	....	....	224	550	78	1.5	1.3	1.2
22....	62	46	....	....	....	....	236	585	69	1.5	1.3	1.2
23....	62	41	Mar. 25	382	659	49	1.5	1.3	1.2
24....	63	37	to 31	565	675	41	1.5	1.3	1.2
25....	67	37	45	561	675	34	1.5	1.3	1.2
26....	67	37	45	464	675	38	1.5	1.3	1.2
27....	66	36	43	407	660	47	1.5	1.3	1.2
28....	64	36	43	385	620	40	1.5	1.3	1.2
29....	69	35	40	399	560	35	1.5	1.3	1.2
30....	71	35	40	479	517	30	1.4	1.3	1.2
31....	68	39	485	1.4	1.3
Total	1102.8	1469	295	6823	22355	5659	186.4	40.6	38.0
Mean..	35.6	49.0	42.1	227	721	189	6.01	1.31	1.27
Max...	71	68	45	565	1340	445	28	1.4	1.3
Min...	2.0	35	39	39	485	30	1.4	1.3	1.2
Acre-ft.	2190	2910	585	13530	44340	11220	370	81	75

Total run-off for period=75,300 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Sangre De Cristo Creek Near Ft. Garland, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.9	4.6	.....	.....	.....	14	34	245	267	76	32	13
2....	3.9	4.6	.....	.....	.....	14	32	250	256	73	30	13
3....	2.6	4.6	.....	.....	.....	14	32	256	236	68	28	10
4....	2.3	4.4	.....	.....	.....	14	30	291	230	65	28	9.0
5....	2.4	4.4	.....	.....	.....	14	34	264	216	63	27	9.6
6....	3.4	4.4	.....	.....	.....	15	37	340	205	65	23	9.6
7....	4.4	4.4	.....	.....	.....	15	38	460	204	62	23	8.0
8....	3.4	4.4	.....	.....	.....	15	39	522	228	57	23	8.5
9....	1.8	4.6	.....	.....	.....	15	41	597	229	54	23	13
10....	2.3	4.9	.....	.....	.....	15	50	631	194	55	25	13
11....	2.4	4.4	.....	.....	.....	15	48	702	195	59	23	11
12....	2.6	3.7	.....	.....	.....	15	43	709	187	74	21	11
13....	3.6	3.7	.....	.....	.....	15	53	709	176	63	27	11
14....	3.4	3.7	.....	.....	.....	15	45	718	169	66	28	16
15....	2.9	3.7	.....	*2.1	.....	15	52	656	162	67	26	15
16....	3.4	3.7	.....	.....	.....	15	54	544	166	64	23	13
17....	3.4	3.7	.....	.....	*9.2	15	64	460	174	58	22	12
18....	3.4	3.7	.....	.....	.....	15	67	416	160	59	31	11
19....	3.6	3.7	.....	.....	.....	15	56	377	144	48	23	12
20....	3.6	3.7	.....	.....	.....	15	55	353	134	45	23	16
21....	3.6	3.7	.....	.....	.....	15	49	306	129	48	25	23
22....	3.4	3.7	.....	.....	.....	15	46	347	127	46	22	30
23....	3.4	3.7	.....	.....	.....	15	54	432	118	40	21	35
24....	3.4	3.7	.....	.....	.....	15	52	442	116	35	18	26
25....	3.6	3.7	.....	.....	.....	*20	68	435	114	37	17	20
26....	3.6	3.7	.....	.....	.....	17	83	418	103	45	16	18
27....	3.9	3.7	.....	.....	.....	16	128	393	93	40	14	16
28....	4.9	3.7	.....	.....	.....	20	146	380	91	39	14	15
29....	4.9	3.7	.....	.....	.....	20	176	355	83	37	14	31
30....	4.6	3.7	.....	.....	.....	23	218	315	79	32	14	40
31....	5.2	.....	.....	.....	.....	25	.....	281	.....	32	13	.....
Total	108.2	120.0	93	62.0	182	496	1924	13604	4985	1672	697	488.7
Mean.	3.49	4.0	3.0	2.0	6.5	16	64.1	439	166	53.9	22.5	16.3
Max..	5.2	.....	.....	.....	.....	.....	218	718	267	76	32	40
Min..	1.8	.....	.....	.....	.....	.....	30	245	79	32	13	8.0
Acre-ft.	215	238	184	123	361	984	3820	26980	9890	3320	1380	969

Total run-off for water year=48,460 acre-feet.

*Discharge measurement made on this day.

Discharge of Sangre de Cristo Creek Near Ft. Garland, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	27	34	.....	.....	.....	.....	13	376	360	80	42	24
2....	22	34	.....	.....	.....	.....	24	399	326	95	32	29
3....	20	34	.....	.....	.....	.....	41	392	314	87	41	22
4....	26	33	.....	.....	.....	.....	45	451	329	74	38	18
5....	27	32	.....	.....	.....	.....	49	613	294	72	30	18
6....	22	31	.....	.....	.....	.....	88	671	272	66	28	18
7....	20	31	.....	.....	.....	.....	33	759	249	65	30	21
8....	18	20	.....	.....	.....	.....	30	771	229	64	28	19
9....	18	.....	.....	.....	.....	.....	36	820	217	60	25	16
10....	17	.....	.....	.....	.....	.....	42	1020	197	67	24	13
11....	16	.....	.....	.....	.....	.....	87	1010	183	57	28	19
12....	16	.....	.....	.....	.....	.....	116	940	170	51	24	20
13....	18	.....	.....	.....	.....	.....	126	871	161	45	23	17
14....	40	.....	.....	.....	.....	.....	184	743	163	43	24	16
15....	40	.....	.....	.....	.....	.....	330	648	161	42	26	14
16....	35	.....	.....	.....	.....	.....	304	601	147	40	24	13
17....	36	.....	.....	.....	.....	.....	184	556	139	39	22	13
18....	34	.....	.....	.....	.....	.....	202	520	133	38	20	11
19....	31	.....	.....	.....	.....	.....	122	494	124	37	18	11
20....	30	.....	.....	.....	.....	.....	114	491	115	35	17	12
21....	29	.....	.....	.....	.....	.....	142	516	107	39	16	13
22....	34	.....	.....	.....	.....	.....	200	523	99	41	16	12
23....	38	.....	.....	.....	.....	.....	463	582	96	35	16	12
24....	49	.....	.....	.....	.....	.....	402	628	90	35	16	11
25....	42	.....	.....	.....	.....	.....	306	628	84	35	15	11
26....	43	.....	.....	.....	.....	.....	286	640	76	34	13	11
27....	39	.....	.....	.....	.....	.....	281	632	72	32	13	12
28....	38	.....	.....	.....	.....	.....	292	582	70	33	13	12
29....	43	.....	.....	.....	.....	.....	342	527	69	30	13	11
30....	38	Nov. 1	.....	.....	.....	.....	494	476	69	28	11	12
31....	35	to 8	.....	.....	.....	.....	.....	412	.....	26	12	.....
Total	941	249	.....	.....	.....	.....	5378	19292	5115	1525	698	461
Mean.	30.4	31.1	.....	.....	.....	.....	179	622	170	49.2	22.5	15.4
Max..	49	34	.....	.....	.....	.....	494	1020	360	95	42	29
Min..	16	20	.....	.....	.....	.....	13	376	69	26	11	11
Acre-ft.	1870	494	.....	.....	.....	.....	10670	33270	10150	3020	1380	914

Total run-off for period=66,770 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Ute Creek at Forks Upper Station Near Ft. Garland, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	16	.....	.....	.....	.....	.....	.....	59	165	152	69	30
2.....	16	.....	.....	.....	.....	.....	.....	72	165	140	64	27
3.....	15	.....	.....	.....	.....	.....	.....	79	172	131	63	25
4.....	14	.....	.....	.....	.....	.....	.....	82	158	131	59	23
5.....	18	.....	.....	.....	.....	.....	.....	102	150	133	59	22
6.....	20	.....	.....	.....	.....	.....	.....	147	148	128	57	21
7.....	18	88.1	.....	.....	.....	.....	.....	161	160	120	57	21
8.....	16	.....	.....	.....	.....	.....	.....	176	142	115	56	22
9.....	16	.....	.....	.....	.....	.....	.....	190	132	120	55	22
10.....	16	.....	.....	.....	.....	.....	.....	193	120	122	57	22
11.....	15	.....	.....	.....	.....	.....	.....	204	111	124	56	21
12.....	14	.....	.....	.....	.....	.....	.....	188	101	126	62	20
13.....	14	.....	.....	.....	.....	.....	.....	116	97	122	57	23
14.....	13	.....	.....	.....	.....	.....	.....	398	103	120	62	43
15.....	13	.....	.....	.....	.....	.....	.....	503	120	133	62	33
16.....	12	.....	.....	.....	.....	.....	.....	405	145	126	57	26
17.....	12	.....	.....	.....	.....	.....	.....	384	175	120	75	24
18.....	12	.....	.....	.....	.....	.....	.....	346	219	115	88	23
19.....	12	.....	.....	.....	.....	.....	.....	311	249	111	63	23
20.....	11	.....	.....	.....	.....	.....	.....	256	231	115	56	33
21.....	11	.....	.....	.....	.....	.....	.....	205	216	113	52	48
22.....	11	.....	.....	.....	.....	.....	.....	185	202	107	46	50
23.....	11	.....	.....	.....	.....	.....	.....	145	219	99	42	58
24.....	10	.....	.....	.....	.....	.....	.....	145	259	89	39	42
25.....	10	.....	.....	.....	.....	.....	.....	162	249	86	36	36
26.....	9.9	.....	.....	.....	.....	.....	.....	216	216	89	35	33
27.....	11	.....	.....	.....	.....	.....	.....	225	207	84	34	31
28.....	10	.....	.....	.....	.....	.....	.....	188	199	80	32	30
29.....	10	.....	.....	.....	.....	.....	.....	160	180	77	33	54
30.....	10	.....	.....	.....	.....	.....	50	160	168	74	32	68
31.....	10	.....	.....	.....	.....	.....	.....	162	.....	70	30	.....
Total	406.90	234	.....	.....	.....	.....	.....	6325	5178	3472	1646	954
Mean	13.1	7.8	.....	.....	.....	.....	.....	204	173	112	53.1	31.8
Max.	20	.....	.....	.....	.....	.....	.....	503	259	152	88	68
Min.	9.9	.....	.....	.....	.....	.....	.....	59	97	70	30	20
Acre-ft.	807	464	.....	.....	.....	.....	.....	12550	10270	6890	3260	1890

Total run-off for period—36,130 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ute Creek Near Ft. Garland, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	14	5.8	.....	.....	.....	7.0	18	55	140	130	42	26
2.....	13	5.4	.....	.....	.....	7.0	15	70	140	129	37	25
3.....	12	4.8	.....	.....	.....	7.0	16	73	147	123	36	25
4.....	11	4.8	.....	.....	.....	7.0	17	73	144	123	35	26
5.....	12	4.8	.....	.....	.....	7.0	25	74	135	126	37	24
6.....	18	4.8	.....	.....	.....	7.0	22	100	131	121	36	22
7.....	16	4.8	.....	.....	.....	7.0	18	132	155	108	35	19
8.....	16	5.8	.....	.....	.....	7.0	18	163	158	102	32	18
9.....	14	7.6	.....	.....	.....	7.0	18	222	135	109	31	19
10.....	14	7.6	.....	.....	.....	7.0	18	232	117	113	33	15
11.....	13	.....	.....	.....	.....	7.0	17	241	109	123	35	13
12.....	12	.....	.....	.....	.....	8.0	18	262	98	118	40	13
13.....	9.2	.....	.....	.....	.....	8.0	23	277	94	107	36	17
14.....	7.0	.....	.....	.....	.....	8.0	20	490	95	107	40	36
15.....	7.0	.....	.....	*7.1	.....	8.0	20	490	109	126	38	26
16.....	8.6	.....	.....	.....	.....	8.0	20	490	131	107	35	22
17.....	9.7	.....	.....	.....	.....	8.0	20	445	162	101	52	18
18.....	9.7	.....	.....	.....	.....	8.0	20	400	176	100	92	16
19.....	9.7	.....	.....	.....	.....	8.0	20	360	184	96	56	15
20.....	9.2	.....	.....	.....	.....	8.0	20	290	186	108	51	29
21.....	9.2	.....	.....	.....	.....	8.0	19	230	186	99	45	43
22.....	9.2	.....	.....	.....	.....	8.0	18	180	173	86	39	49
23.....	8.6	.....	.....	.....	.....	8.0	18	130	177	77	38	52
24.....	8.6	.....	.....	*5.1	.....	8.0	16	123	188	68	38	38
25.....	8.1	.....	.....	.....	.....	8.0	19	138	207	63	36	33
26.....	8.1	.....	.....	.....	.....	8.0	22	173	196	69	35	30
27.....	8.6	.....	.....	.....	.....	8.0	27	177	182	62	34	26
28.....	9.2	.....	.....	.....	.....	8.0	29	175	172	56	33	26
29.....	8.1	.....	.....	.....	.....	8.0	33	155	152	53	31	58
30.....	7.0	.....	.....	.....	.....	12	46	141	135	51	29	66
31.....	6.2	.....	.....	.....	.....	15	.....	132	.....	45	26	.....
Total	326.0	180.2	186.0	186.0	168.0	248.0	631	6833	4514	3006	1213	845
Mean...	10.5	6.01	6.0	6.0	6.0	8.0	21.0	220	150	97.0	39.1	28.2
Max....	18	.....	.....	.....	.....	.....	46	630	207	130	92	66
Min....	6.2	.....	.....	.....	.....	.....	15	55	94	45	26	13
Acres-ft.	647	357	369	369	333	492	1250	13550	8950	5960	2410	1680

Total run-off for period=36,370 acre-feet.

*Discharge measurement made on this day.

Discharge of Ute Creek Near Ft. Garland, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	48	30	.....	.....	.....	.....	3.1	62	79	56	36	31
2.....	38	30	.....	.....	.....	.....	3.4	67	76	59	30	35
3.....	33	30	.....	.....	.....	.....	7.0	66	80	58	44	22
4.....	33	30	.....	.....	.....	.....	14	75	89	50	34	18
5.....	33	30	.....	.....	.....	.....	18	87	80	49	27	17
6.....	30	30	.....	.....	.....	.....	21	97	78	49	22	15
7.....	26	29	.....	.....	.....	.....	11	111	79	52	22	16
8.....	24	22	.....	.....	.....	.....	7.4	123	75	50	22	14
9.....	22	.....	.....	.....	.....	.....	9.9	134	73	51	22	12
10.....	20	.....	.....	.....	.....	.....	14	139	71	47	21	9.2
11.....	18	.....	.....	.....	.....	.....	26	138	79	38	19	36
12.....	18	.....	.....	.....	.....	.....	26	126	78	35	19	38
13.....	18	.....	.....	.....	.....	.....	27	106	75	32	19	30
14.....	31	.....	.....	.....	.....	.....	43	89	75	30	27	22
15.....	30	.....	.....	.....	.....	.....	53	76	59	30	21	17
16.....	30	.....	.....	.....	.....	.....	46	70	59	31	20	15
17.....	30	.....	.....	.....	.....	.....	40	68	65	30	18	13
18.....	30	.....	.....	.....	.....	.....	41	65	75	32	18	11
19.....	30	.....	.....	.....	.....	.....	35	68	75	30	15	9.9
20.....	30	.....	.....	.....	.....	.....	48	75	71	30	14	11
21.....	30	.....	.....	.....	.....	.....	46	81	68	30	14	8.8
22.....	30	.....	.....	.....	.....	.....	61	93	60	30	11	7.4
23.....	31	.....	.....	.....	.....	.....	117	107	56	26	9.9	7.9
24.....	31	.....	.....	.....	.....	.....	101	112	55	27	9.2	7.0
25.....	30	.....	.....	.....	.....	.....	85	110	52	28	12	6.1
26.....	30	.....	.....	.....	.....	.....	71	107	48	23	9.9	6.6
27.....	30	.....	.....	.....	.....	.....	63	111	43	21	7.9	6.6
28.....	30	.....	.....	.....	.....	.....	59	99	38	22	7.9	5.7
29.....	31	.....	.....	.....	.....	.....	62	91	41	23	7.4	6.6
30.....	30	Nov. 1	.....	.....	.....	.....	66	85	46	23	7.9	7.9
31.....	30	to 8	.....	.....	.....	.....	.....	78	.....	31	7.9	.....
Total	905	231	.....	.....	.....	.....	1224.8	291.6	1988	1123	575.0	462.7
Mean...	29.2	28.9	.....	.....	.....	.....	40.8	94.1	66.6	36.2	18.5	15.4
Max....	48	30	.....	.....	.....	.....	117	139	89	59	44	38
Min....	18	22	.....	.....	.....	.....	3.1	62	38	21	7.4	5.7
Acres-ft.	1800	458	.....	.....	.....	.....	2430	5780	3960	2230	1140	918

Total run-off for period=18,720 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River at Platoro, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	61	24	17	....	....	....	16	44	506	775	176	47
2....	54	23	17	....	....	....	16	48	572	781	159	44
3....	63	21	17	....	....	....	20	63	653	787	140	40
4....	54	15	16	....	....	....	27	77	670	824	126	36
5....	169	22	18	....	....	....	24	104	664	896	132	33
6....	166	20	12	....	....	....	27	166	625	799	150	30
7....	121	17	16	....	....	....	34	240	681	733	134	28
8....	104	19	13	....	....	....	30	317	593	757	143	34
9....	90	17	11	....	....	....	30	408	446	693	150	34
10....	77	13	12	....	....	....	27	516	366	659	153	32
11....	67	23	11	....	....	....	27	604	334	670	137	28
12....	60	19	8.4	....	....	....	23	733	334	670	118	26
13....	54	20	....	....	....	....	24	855	344	636	118	52
14....	48	16	....	....	....	....	28	793	380	567	143	195
15....	44	15	....	....	....	....	30	659	432	516	260	118
16....	40	15	....	....	....	....	40	604	490	480	156	97
17....	37	14	....	....	....	....	30	670	642	521	162	104
18....	34	14	....	....	....	....	27	704	836	625	146	116
19....	29	14	....	....	....	....	29	583	993	614	124	143
20....	28	15	....	....	....	....	30	441	1010	636	108	221
21....	26	16	....	....	....	....	22	380	1040	541	104	180
22....	24	15	....	....	....	....	22	370	1010	531	90	150
23....	23	15	....	....	....	....	26	394	1040	451	82	150
24....	22	14	....	....	....	....	34	470	1040	427	73	124
25....	21	16	....	....	....	....	27	552	1090	380	65	106
26....	20	29	....	....	....	....	22	631	1040	344	60	92
27....	14	34	....	....	....	....	26	647	993	300	54	84
28....	19	17	....	....	....	....	29	531	958	264	52	84
29....	30	18	....	....	....	....	33	456	824	244	56	162
30....	24	13	Dec. 1	....	....	....	42	441	775	202	67	156
31....	26	....	to 12	....	....	....	....	446	....	187	54	....
Total	1649	541	168.4	....	....	....	824	13947	21381	17510	3692	2746
Mean..	53.2	18	14	....	....	....	27.5	450	713	565	119	91.5
Max..	169	34	18	....	....	....	42	855	1090	896	260	221
Min...	14	13	8.4	....	....	....	16	44	334	187	52	26
Ac.-ft.	3270	1070	334	....	....	....	1630	27660	42410	34730	7320	5450

Total run-off for period=123,900 acre-feet.

Discharge of Conejos River at Platoro, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	135	86	....	....	....	....	....	....	480	326	92	15
2....	129	86	....	....	....	....	....	....	530	313	88	16
3....	187	80	....	....	....	....	....	....	631	287	84	14
4....	156	73	....	....	....	....	....	....	583	248	82	17
5....	143	73	....	....	....	....	....	....	604	256	65	20
6....	126	71	....	....	....	....	....	....	670	252	57	17
7....	126	60	....	....	....	....	....	....	698	252	51	19
8....	121	60	....	....	....	....	....	....	664	256	50	15
9....	113	61	....	....	....	....	....	....	670	225	45	13
10....	108	58	....	....	....	....	....	....	693	199	40	11
11....	102	56	....	....	....	....	....	....	775	191	37	86
12....	111	52	....	....	....	....	....	....	763	176	39	52
13....	384	56	....	....	....	....	....	....	716	159	39	42
14....	330	50	....	....	....	....	....	....	642	143	34	29
15....	268	50	....	....	....	....	....	....	567	143	27	23
16....	244	50	....	....	....	....	....	....	647	137	29	20
17....	233	50	....	....	....	....	....	....	733	180	28	17
18....	221	24	....	....	....	....	....	....	787	162	32	14
19....	206	....	....	....	....	....	....	....	763	129	27	13
20....	195	....	....	....	....	....	....	....	693	111	29	12
21....	191	....	....	....	....	....	....	....	642	99	27	11
22....	172	....	....	....	....	....	....	....	604	92	23	11
23....	176	....	....	....	....	....	....	....	583	90	23	9.6
24....	159	....	....	....	....	....	....	....	516	77	21	9.0
25....	153	....	....	....	....	....	....	....	441	73	21	9.0
26....	140	....	....	....	....	....	....	....	403	69	20	8.4
27....	126	....	....	....	....	....	....	....	375	65	19	7.8
28....	121	....	....	....	....	....	....	....	321	84	17	7.2
29....	116	....	....	....	....	....	....	....	304	77	15	6.6
30....	104	Nov. 1	....	....	....	....	....	....	304	67	14	6.6
31....	92	to 18	....	....	....	....	....	....	61	14	....	....
Total	5188	1096	....	....	....	....	3450	13795	17802	4999	1189	551.2
Mean..	167	60.9	....	....	....	....	115	445	593	161	38.4	18.4
Max..	384	86	....	....	....	....	....	....	787	326	92	86
Min...	92	24	....	....	....	....	....	....	304	61	14	6.6
Ac.-ft.	10290	2170	....	....	....	....	6840	27360	35310	9920	2360	1090

Total run-off for period=95,340 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River Near Mogote, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	194	78	*54	50	50	56	130	378	1920	2050	378	133
2....	173	83	52	50	47	60	114	399	2010	1960	361	125
3....	173	84	50	48	48	58	116	526	2190	1910	328	118
4....	173	84	50	*46	49	57	111	556	2100	1940	294	109
5....	198	65	50	45	50	72	133	628	2150	2090	294	102
6....	548	78	52	46	48	57	114	938	1950	2100	313	98
7....	367	78	51	46	48	62	109	1210	2200	1780	298	92
8....	297	79	51	47	48	54	121	1430	2230	1720	294	86
9....	266	78	52	47	48	58	138	1700	1780	1710	453	98
10....	232	76	53	47	50	55	176	2040	1460	1460	429	94
11....	202	50	54	46	52	56	150	2400	1260	1480	366	88
12....	180	64	53	47	55	64	133	2810	1250	1420	361	82
13....	163	66	50	48	52	69	136	3340	1260	1460	302	84
14....	147	67	48	49	*51	63	114	3350	1310	1260	334	228
15....	136	75	46	49	51	62	127	3050	1450	1140	608	248
16....	124	69	*44	47	54	57	147	2720	1490	1050	429	200
17....	116	71	42	45	48	65	160	2720	1800	1020	350	167
18....	109	80	46	*44	52	69	138	2920	2200	1220	366	186
19....	102	68	47	44	55	71	119	2810	2580	1090	302	206
20....	95	67	46	45	56	76	107	2180	2760	1350	260	260
21....	92	66	44	45	58	81	114	1610	2800	1180	248	424
22....	86	69	42	46	59	76	109	1570	2800	1050	248	289
23....	83	69	42	47	58	76	107	1500	2640	900	208	355
24....	81	77	44	44	59	76	93	1700	2700	820	186	289
25....	78	74	45	45	60	65	111	1920	2770	750	169	244
26....	76	59	46	45	58	68	121	2230	2910	692	156	208
27....	90	63	46	45	55	75	170	2500	2700	632	143	186
28....	76	67	44	46	54	78	216	2270	2650	548	137	174
29....	78	60	45	48	....	84	292	1940	2370	498	133	289
30....	95	60	48	49	....	83	326	1870	2100	441	158	395
31....	84	....	49	50	....	95	....	1800	....	406	149	....
Total	4914	2124	1486	1446	1473	2098	4252	59015	63790	39127	9055	5657
Mean..	159	70.8	47.9	46.6	52.6	67.7	142	1904	2126	1262	292	189
Max..	548	84	54	50	60	95	326	3350	2910	2100	608	424
Min..	76	50	42	44	47	54	93	378	1250	406	133	82
Ac.-ft.	9750	4210	2950	2870	2920	4160	8430	117100	126500	77610	17960	11220

Total run-off for water year=385,680 acre-feet.

Discharge of Conejos River Near Mogote, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	318	211	78	37	33	38	104	350	1990	740	214	77
2....	277	206	69	40	34	39	137	401	2050	800	211	81
3....	344	191	73	40	35	40	174	378	2120	730	252	70
4....	389	186	70	39	36	41	191	453	2080	615	252	72
5....	339	179	45	37	37	38	244	592	1980	578	186	74
6....	318	172	*49	36	34	37	248	692	2080	592	174	74
7....	268	154	69	36	36	30	197	840	2290	555	163	74
8....	298	139	70	38	38	*31	163	977	2080	570	154	69
9....	281	149	69	39	39	40	181	1170	2120	578	145	61
10....	252	141	72	44	38	48	208	1400	2010	533	137	57
11....	236	133	70	48	36	60	313	1520	2200	498	137	100
12....	220	123	53	50	36	72	361	1460	2240	477	129	167
13....	453	133	52	50	35	78	366	1080	2090	441	123	131
14....	740	123	55	49	34	78	512	933	2010	424	120	102
15....	562	123	48	46	31	74	658	944	1590	418	109	88
16....	498	121	50	42	27	72	658	911	1760	401	107	78
17....	470	123	59	40	24	69	674	944	1840	453	111	72
18....	441	116	52	39	24	69	555	999	1990	435	104	65
19....	424	82	54	37	25	84	418	1090	1920	401	102	61
20....	412	79	54	37	27	65	366	1280	1760	334	102	59
21....	401	84	60	34	28	65	412	1540	1620	302	96	58
22....	401	78	51	31	30	70	666	1780	1450	277	92	57
23....	401	73	46	29	32	78	810	1890	1320	252	88	55
24....	401	65	41	28	34	85	592	1840	1260	252	86	53
25....	389	74	35	29	36	91	464	2090	1060	240	85	52
26....	344	86	40	31	38	79	424	2160	933	236	81	52
27....	334	86	37	32	39	75	389	2370	880	232	75	51
28....	318	79	33	*33	41	74	384	2060	780	220	72	50
29....	285	84	31	33	....	75	389	2160	692	281	68	49
30....	260	78	32	32	....	81	355	2030	666	220	66	49
31....	236	....	35	32	....	91	....	1910	....	197	64	....
Total	11310	3671	1653	1168	937	1967	11613	40244	50861	13282	3905	2158
Mean..	365	122	53.3	37.7	33.5	63.5	387	1293	1695	428	126	71.9
Max..	740	211	78	50	41	91	810	2370	2290	800	252	167
Min..	220	65	31	28	24	30	104	350	666	197	64	49
Ac.-ft.	22430	7280	3280	2320	1860	3900	23030	79820	100900	26340	7750	4280

Total run-off for water year=283,200 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River Near La Sausas, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	18	32	56	73	73	103	169	280	1920	1280	43	21
2....	16	27	58	72	70	113	161	457	1920	1160	29	20
3....	14	27	58	66	69	122	142	602	1900	1010	16	20
4....	13	27	58	66	72	131	130	820	2010	957	13	18
5....	13	29	58	66	75	152	121	878	1890	1040	10	18
6....	14	30	59	60	78	136	120	1050	1820	1300	11	18
7....	19	28	57	64	71	135	101	1540	1680	1370	12	17
8....	27	22	58	64	69	122	89	1980	1970	1230	12	16
9....	29	23	56	67	72	115	90	2340	2310	1200	21	17
10....	32	36	60	67	72	104	103	2680	1880	1080	25	18
11....	30	36	64	62	74	108	117	2990	1510	977	31	17
12....	33	37	65	69	77	107	104	3170	1280	993	30	16
13....	33	38	65	72	81	106	104	3430	1130	1030	25	17
14....	33	40	63	71	84	110	108	3720	996	984	24	24
15....	32	38	64	71	84	128	83	3820	946	900	24	25
16....	33	39	59	72	86	150	81	3760	944	818	32	26
17....	33	39	54	69	88	167	70	3510	952	730	46	30
18....	33	40	56	65	93	194	65	3310	1090	651	44	30
19....	31	42	55	65	93	237	73	3350	1320	630	40	29
20....	32	42	60	68	93	264	67	3370	1570	628	40	24
21....	34	40	58	67	95	289	53	2680	1760	724	38	22
22....	35	40	64	66	93	286	52	2180	1780	613	39	47
23....	28	46	64	66	98	271	54	2120	1820	547	41	52
24....	29	51	66	65	99	276	53	1950	1740	474	37	69
25....	31	53	68	68	107	273	49	2100	1810	409	32	69
26....	34	53	68	69	114	297	52	2330	1880	344	29	71
27....	35	55	71	68	110	283	57	2540	1920	276	28	64
28....	38	55	69	69	103	253	83	2770	1820	230	27	59
29....	34	57	65	70	....	217	139	2760	1730	188	23	77
30....	26	55	73	72	....	194	209	2420	1520	132	23	129
31....	27	....	74	71	....	180	....	2100	....	85	....	....
Total	869	1177	1923	2100	2393	5623	2899	73007	48818	23990	867	1080
Mean.	28.0	39.2	62.0	67.1	85.5	181	96.6	2355	1627	774	28.0	36.0
Max..	38	57	74	73	114	297	209	3820	2310	1370	46	129
Min..	13	22	54	60	69	103	49	280	944	85	10	16
Ac.-ft.	1720	2330	3810	4170	4750	11150	5750	144800	96830	47580	1720	2140

Total run-off for water year=326,750 acre-feet.

Discharge of Conejos River Near La Sausas, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	207	302	86	92	57	55	97	669	1190	67	3.6	19
2....	192	285	83	85	56	57	101	618	1100	72	3.4	20
3....	194	277	83	73	58	60	112	593	1070	68	3.8	20
4....	253	261	86	73	58	63	166	575	1310	66	3.4	22
5....	253	256	67	72	62	52	240	726	1360	60	3.4	21
6....	230	246	71	61	56	65	304	903	1200	60	3.4	22
7....	224	236	79	61	61	57	322	1060	1240	54	3.6	23
8....	207	226	84	68	64	55	286	1320	1400	52	3.6	23
9....	210	215	82	70	64	64	224	1580	1310	51	3.8	23
10....	204	198	83	65	56	81	229	1780	1300	49	3.8	23
11....	191	195	79	77	52	86	299	2080	1240	41	4.6	25
12....	189	190	77	73	52	92	427	2270	1270	31	4.8	25
13....	183	170	74	73	52	108	525	2140	1260	27	5.9	25
14....	374	159	75	76	48	113	605	1430	1210	23	7.5	26
15....	514	151	69	77	44	107	891	1120	1180	21	12	26
16....	451	144	69	77	41	97	1030	1000	986	16	12	26
17....	413	136	73	62	37	102	1140	923	896	15	12	24
18....	391	134	71	59	35	105	1240	898	850	14	12	25
19....	370	123	64	56	35	105	1010	934	838	11	13	25
20....	362	95	65	54	40	103	755	1050	773	8.6	13	25
21....	358	91	72	51	46	104	643	1240	695	7.0	12	25
22....	362	84	82	47	50	92	826	1490	613	5.5	11	27
23....	357	75	78	39	51	102	1500	1720	525	5.5	11	28
24....	370	72	85	40	51	114	1810	1860	444	5.5	11	28
25....	351	72	64	44	53	123	1320	1840	351	5.5	12	29
26....	368	74	71	46	56	120	935	1940	265	5.1	11	29
27....	357	79	69	47	56	101	808	1900	224	5.1	12	30
28....	353	83	62	56	63	103	746	2030	200	5.3	13	30
29....	360	88	54	59	....	100	722	1660	172	4.6	13	30
30....	338	88	59	59	....	97	746	1540	82	4.3	15	30
31....	321	....	62	56	....	97	....	1330	....	5.7	15	....
Total	9507	4805	2278	1942	1454	2780	20059	42219	26554	863.7	268.6	754
Mean.	307	160	73.5	62.6	51.9	89.7	669	1362	885	27.9	8.66	25.1
Max..	514	302	86	92	64	123	1810	2270	1400	72	15	30
Min..	183	72	54	39	35	52	97	575	82	3.7	3.4	19
Ac.-ft.	18860	9530	4520	3850	2880	5510	39790	83710	52670	1710	533	1500

Total run-off for water year=225,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Antonio River at Ortiz, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3.4	4.7	*3.3	.....	.....	.....	8	320	114*	7.4	3.0	0
2.....	4.7	*2.1	.....	.....	.....	.....	19	367	105	6.9	1.4	0
3.....	2.0	2.1	.....	.....	.....	.....	18	461	93	5.9	1.1	0
4.....	2.6	2.1	.....	.....	.....	.....	23	424	88	3.8	0.9	0
5.....	3.8	2.0	.....	.....	.....	.....	41	458	70	2.6	0.9	0
6.....	6.9	2.1	.....	.....	.....	.....	39	589	59	5.1	3.4	0
7.....	7.4	2.4	.....	.....	.....	.....	34	640	58	4.7	2.2	0
8.....	4.2	2.5	.....	.....	.....	.....	34	677	83	3.4	1.7	0
9.....	3.0	*2.5	.....	.....	.....	.....	49	751	113	3.4	3.4	0
10.....	2.6	2.4	.....	.....	.....	.....	69	778	95	2.6	4.7	0
11.....	2.0	2.3	.....	.....	.....	.....	55	823	88	3.0	4.7	0
12.....	1.9	2.2	.....	.....	.....	.....	69	922	80	3.0	3.0	0
13.....	1.9	2.0	.....	.....	.....	.....	58	1050	70	4.2	10	0
14.....	2.0	2.0	.....	.....	*0	.....	38	970	61	9.2	8.6	0
15.....	2.0	2.0	.....	.....	.....	*0.2	47	810	54	4.7	2.6	0.1
16.....	2.0	2.0	.....	.....	.....	.....	58	652	58	6.9	1.7	1.2
17.....	1.9	2.0	.....	.....	.....	.....	77	585	47	6.9	15	0.8
18.....	1.9	2.0	.....	.....	.....	.....	59	578	40	7.4	10	0.6
19.....	1.6	2.0	.....	.....	.....	.....	47	492	30	5.5	3.8	0.5
20.....	1.6	3.0	.....	.....	.....	.....	38	314	24	13	2.2	0.6
21.....	1.7	3.5	.....	.....	.....	.....	40	281	22	11	1.9	1.3
22.....	1.9	4.0	.....	.....	.....	.....	39	342	21	16	3.8	3.1
23.....	1.9	4.0	.....	.....	.....	.....	39	308	20	9.2	2.6	2.6
24.....	1.9	3.8	.....	.....	.....	*2.2	36	327	21	3.8	1.9	1.2
25.....	2.0	3.8	.....	.....	.....	.....	50	370	24	4.2	1.2	5.5
26.....	1.1	3.5	.....	.....	.....	.....	77	324	21	2.0	0.8	3.0
27.....	1.9	3.5	.....	.....	.....	.....	120	284	17	3.4	0.5	1.9
28.....	7.4	3.5	.....	.....	.....	.....	181	284	14	3.0	0.3	1.6
29.....	5.9	3.5	.....	.....	.....	.....	215	230	10	1.7	0.2	4.2
30.....	3.8	3.5	*2.0	.....	.....	.....	248	183	8.0	1.6	0.1	16
31.....	5.5	.....	.....	.....	.....	*9.7	.....	143	.....	1.4	0.1	.....
Total	94.4	83.0	77.5	35.0	14.0	164.3	1925	15737	1611	166.9	95.7	79.0
Mean..	3.05	2.77	2.5	1.13	0.5	5.30	64.2	508	53.7	5.38	3.09	2.63
Max...	7.4	4.7	.....	.....	.....	.....	248	1050	117	16	.....	26
Min...	1.1	2.0	.....	.....	.....	.....	8.0	143	8.0	1.4	0.1	0
Acre-ft.	187	165	154	69	28	326	3810	31210	3200	331	190	157

Total run-off for water year=39,840 acre-feet.

Discharge of San Antonio River at Ortiz, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	8.0	10	.....	.....	.....	.....	56	145	69	2.6	0.0	0.0
2.....	5.1	9.7	.....	.....	.....	.....	62	154	58	4.2	0.0	4.7
3.....	4.7	12	.....	.....	.....	.....	68	134	52	6.3	0.0	5.5
4.....	5.9	11	.....	.....	.....	.....	76	174	98	9.2	5.4	3.4
5.....	6.3	11	.....	.....	.....	.....	88	243	58	5.1	8.6	2.2
6.....	5.1	11	*3.0	.....	.....	.....	82	254	49	3.0	4.2	2.6
7.....	3.8	11	.....	.....	.....	.....	74	320	43	2.6	1.7	1.9
8.....	3.4	13	.....	.....	.....	.....	82	370	38	1.9	1.2	1.2
9.....	3.4	14	.....	.....	.....	.....	102	392	32	1.6	1.1	1.4
10.....	2.2	11	.....	.....	.....	.....	150	441	27	1.6	1.1	1.1
11.....	2.0	9.2	.....	.....	.....	.....	270	424	24	1.4	1.2	1.2
12.....	1.9	8.6	.....	.....	.....	.....	273	405	22	0.9	1.7	1.4
13.....	1.9	5.9	.....	.....	.....	.....	275	273	19	0.6	1.9	6.9
14.....	9.7	5.9	.....	.....	.....	.....	364	220	19	0.4	1.4	4.2
15.....	14	5.5	.....	.....	.....	.....	376	238	17	0.4	1.6	2.2
16.....	7.1	5.1	.....	.....	.....	.....	351	218	13	0.2	1.7	1.7
17.....	5.1	4.7	.....	.....	.....	.....	370	220	12	0.3	1.5	1.2
18.....	3.8	6.9	.....	.....	.....	.....	281	228	11	0.2	1.3	0.6
19.....	3.0	10	.....	.....	.....	.....	178	243	9.7	0.4	1.1	0.4
20.....	3.0	1.7	.....	.....	.....	.....	137	248	8.6	0.4	0.9	0.4
21.....	3.4	6.3	.....	.....	.....	.....	205	270	9.2	0.3	0.7	0.3
22.....	6.9	6.0	.....	.....	.....	.....	345	273	7.4	0.2	0.5	0.2
23.....	8.0	5.0	.....	.....	.....	.....	172	254	5.5	0.2	0.3	0.3
24.....	9.2	4.5	.....	.....	.....	.....	254	218	5.5	0.0	0.0	0.3
25.....	8.6	4.0	.....	.....	.....	.....	190	220	4.2	0.0	0.0	0.4
26.....	11	4.2	.....	.....	.....	.....	174	198	3.4	0.0	0.0	0.4
27.....	10	4.0	.....	.....	.....	.....	181	181	2.6	0.0	0.0	0.4
28.....	11	3.9	.....	*1.7	.....	.....	183	141	2.2	0.0	0.0	0.4
29.....	12	3.6	.....	.....	.....	.....	193	124	2.2	0.0	0.0	0.4
30.....	14	3.2	.....	.....	.....	.....	183	102	2.0	0.0	0.0	0.5
31.....	13	.....	.....	.....	.....	.....	.....	88	.....	0.0	0.0	.....
Total	206.8	221.9	80.6	62.0	61.6	201.5	6095	7413	723.5	44.0	39.1	60.1
Mean..	6.67	7.40	2.6	2.0	2.2	6.5	203	239	24.1	1.42	1.26	2.01
Max...	14	14	.....	.....	.....	.....	472	441	98	9.2	8.6	14
Min...	1.9	1.7	.....	.....	.....	.....	56	88	2.0	0	0	0
Acre-ft.	410	440	160	123	122	400	12090	14700	1440	87	78	120

Total run-off for water year=30,170 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second

THIRTY-FIRST BIENNIAL REPORT

Discharge of San Antonio River at Mouth Near Manassa, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0	0	0	.....	.....	10	32	315	976	291	3.8	18
2....	0	0	0	.....	.....	10	31	447	900	258	2.5	20
3....	0	0	0	.....	.....	11	30	574	848	210	1.3	17
4....	0	0	0	.....	.....	12	29	732	860	180	0.8	15
5....	0	0	0	.....	.....	13	33	750	756	198	0.4	12
6....	0	0	0	.....	.....	13	31	996	680	230	3.4	8.6
7....	0	0	0	.....	.....	13	31	1290	704	218	3.4	4.8
8....	0	0	0	.....	.....	12	32	1490	916	182	3.8	1.7
9....	0	0	0	.....	.....	11	40	1630	956	166	9.2	0
10....	0	0	0	.....	.....	12	56	1790	722	138	12	0
11....	0	0	0	.....	.....	12	64	1870	644	128	17	0
12....	0	0	0	.....	.....	15	60	2040	592	138	15	0
13....	0	0	0	.....	.....	17	70	2250	529	138	16	0
14....	0	0	0	.....	*9.4	20	59	2380	490	129	12	2.5
15....	0	0	0	.....	.....	25	51	2080	477	123	8.0	2.1
16....	0	0	*	.....	.....	30	53	1840	474	105	2.9	0
17....	0	0	0	.....	.....	40	64	1710	477	93	2.8	0
18....	0	0	0	.....	.....	48	64	1740	484	84	2.4	0
19....	0	0	0	.....	.....	54	49	1780	490	68	2.4	0.8
20....	0	0.1	0	.....	.....	62	37	1540	518	71	2.6	3.8
21....	0	0.1	0	.....	.....	72	37	1270	515	71	2.8	14
22....	0	0.1	0	.....	.....	70	34	1290	501	68	3.5	19
23....	0	0.1	0	.....	.....	68	37	1270	501	65	5.5	28
24....	0	0.1	0	.....	.....	*66	36	1290	501	59	4.2	25
25....	0	*0.1	0	.....	.....	69	37	1360	582	50	11	23
26....	0	0.1	0.1	.....	.....	68	47	1410	568	41	14	19
27....	0	0.1	0.1	.....	.....	55	59	1450	515	37	12	14
28....	0	0.1	0.1	.....	.....	47	85	1480	477	36	7.4	8.6
29....	0	0.1	0.1	.....	.....	39	144	1350	426	25	8.6	8.6
30....	0	0.1	*0.1	.....	.....	34	198	1190	354	15	10	8.0
31....	0	.....	0.1	.....	.....	31	.....	1040	.....	9.2	14	.....
Total	0	1.1	0.6	62	252	1059	1630	43644	18433	3624.2	214.7	273.5
Mean.	0	0.04	0.02	2.0	9.0	34.2	54.3	1408	614	117	6.93	9.12
Max.	0	0.1	0.1	.....	.....	72	198	2380	976	291	17	28
Min.	0	0	0	.....	.....	10	29	315	354	9.2	0.4	0
Acre-ft.	0	2.2	1.2	123	500	2100	3230	86570	36560	7190	426	542

Total run-off for water year=137,200 acre-feet.

Discharge of San Antonio River at Mouth Near Manassa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	60	34	12	9	40	80	323	578	14	0	0
2....	10	53	30	12	9	40	82	299	537	17	0	0
3....	10	52	31	12	9	40	84	275	516	24	0	0
4....	11	50	28	12	9	40	98	293	760	26	0	0
5....	12	51	30	12	9	40	150	422	620	24	0	0
6....	11	49	22	12	9	40	145	509	516	20	0	0
7....	14	44	21	12	9	40	135	659	483	20	0	0
8....	18	38	22	12	9	40	140	885	470	15	0	0
9....	18	37	24	12	9	40	158	1030	428	10	0	0
10....	19	39	25	12	9	40	*170	1170	407	7.7	0	0
11....	20	38	26	12	9	40	232	1290	389	5.6	0	0
12....	27	32	26	12	9	40	299	1330	374	3.2	0	0
13....	38	32	25	12	9	40	329	1150	356	2.3	0	0
14....	43	32	23	12	9	40	434	881	356	2.3	0	0
15....	46	27	22	12	9	40	620	785	353	2.3	0	0
16....	44	27	20	12	9	40	652	722	299	2.3	0	0
17....	30	26	21	12	9	40	793	690	262	1.4	0	0
18....	26	27	21	12	9	40	805	708	245	1.2	0	0
19....	22	24	20	12	9	40	564	782	218	1.0	0	0
20....	21	22	19	12	9	40	392	893	185	0.8	0	0
21....	26	14	18	12	9	40	350	990	175	0.6	0	0
22....	29	18	17	12	9	40	561	1080	168	0.4	0	0
23....	26	20	17	12	9	40	1060	1130	130	0.4	0	0
24....	26	17	18	12	9	40	977	1020	113	0	0	0
25....	36	19	17	12	9	40	620	1040	89	0.2	0	0
26....	40	24	16	12	9	40	440	1030	61	0	0	0
27....	40	26	17	12	9	40	383	1060	51	0	0	0
28....	45	30	17	12	9	40	377	877	38	0	0	0
29....	60	32	17	12	.....	40	371	817	28	0	0	0
30....	64	32	17	12	.....	40	383	740	17	0	0	0
31....	61	.....	17	12	.....	40	.....	642	.....	0	0	.....
Total	904	992	678	372	252	1240	11884	25522	9222	2017	0	0
Mean.	29.2	33.1	21.9	12	9	40	396	823	307	6.51	0	0
Max.	64	60	34	.....	.....	.....	1060	1330	760	26	0	0
Min.	10	14	16	.....	.....	.....	80	275	17	0	0	0
Acre-ft.	1790	1970	1340	738	500	2460	23570	50620	18290	400	0	0

Total run-off for water year=101,700 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Los Pinos River Near Ortiz, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	37	19	*13	.....	.....	22	52	303	892	389	42	24
2.....	30	*19	.....	.....	.....	24	45	370	845	366	38	24
3.....	26	.....	.....	.....	.....	25	46	503	857	334	36	22
4.....	36	.....	.....	.....	.....	26	45	558	800	317	34	20
5.....	27	.....	.....	.....	.....	26	50	652	724	320	34	20
6.....	71	.....	.....	.....	.....	25	50	875	682	303	36	18
7.....	37	.....	.....	.....	.....	24	48	1080	806	276	60	18
8.....	27	.....	.....	.....	.....	22	55	1290	875	247	38	18
9.....	24	*22	.....	.....	.....	20	68	1360	703	234	77	21
10.....	24	.....	.....	.....	.....	18	79	1430	632	210	77	20
11.....	21	.....	.....	.....	.....	16	70	1590	604	196	53	19
12.....	20	.....	.....	.....	.....	20	68	2040	554	190	46	17
13.....	19	.....	.....	.....	.....	26	70	2410	541	182	46	18
14.....	19	.....	.....	.....	.....	29	60	2270	536	176	48	52
15.....	17	.....	.....	.....	*16	*32	66	1830	536	173	60	42
16.....	17	.....	.....	.....	.....	32	70	1580	545	163	53	30
17.....	17	.....	.....	.....	.....	28	77	1620	572	173	52	27
18.....	16	.....	.....	.....	.....	28	68	1780	637	158	53	26
19.....	16	.....	.....	.....	.....	29	60	1540	682	132	42	24
20.....	16	.....	.....	.....	.....	31	57	1160	703	150	37	42
21.....	16	.....	.....	.....	.....	33	58	1010	682	120	36	79
22.....	16	.....	.....	.....	.....	34	57	1140	650	160	48	42
23.....	16	.....	.....	.....	.....	34	57	1150	640	137	36	70
24.....	15	.....	.....	.....	.....	*34	55	1260	650	85	31	55
25.....	15	.....	.....	.....	.....	31	68	1360	680	83	27	37
26.....	15	.....	.....	.....	.....	30	75	1440	620	77	26	30
27.....	17	.....	.....	.....	.....	30	100	1460	560	71	24	27
28.....	16	.....	.....	.....	.....	32	140	1320	500	64	22	26
29.....	20	.....	.....	.....	.....	34	173	1150	477	57	22	81
30.....	25	.....	*21	.....	.....	32	237	1040	416	50	27	100
31.....	21	.....	.....	.....	.....	29	.....	968	.....	45	25	.....
Total	709	540	496	496	504	856	2224	39539	19602	5638	1286	1049
Mean.	22.9	18.0	16.0	16	18	27.6	74.1	1275	653	182	41.5	35.0
Max..	71	.....	.....	.....	.....	34	237	2410	893	389	77	100
Min..	15	.....	.....	.....	.....	16	45	303	416	45	22	17
Acre-ft.	1410	1070	984	984	1000	1700	4410	78420	38880	11180	2550	2080

Total run-off for water year=144,700 acre-feet.

Discharge of Los Pinos River Near Ortiz, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	57	77	12	11	13	28	70	302	731	144	30	22
2.....	47	79	12	11	13	28	79	315	695	155	30	28
3.....	46	70	12	11	13	28	94	308	819	141	29	20
4.....	51	72	12	11	13	28	110	390	890	111	29	20
5.....	51	75	12	11	13	28	123	502	695	100	29	19
6.....	55	68	*12	11	13	28	123	589	652	88	28	17
7.....	46	65	12	11	13	28	94	786	656	79	28	17
8.....	53	58	12	11	13	28	81	964	598	77	26	15
9.....	50	64	12	11	13	28	92	1140	576	79	25	15
10.....	45	60	12	11	13	28	108	1310	551	70	25	14
11.....	44	58	12	11	13	28	217	1390	559	60	25	39
12.....	42	53	12	11	13	28	237	1240	542	55	24	39
13.....	57	58	12	11	13	28	268	797	510	48	23	32
14.....	164	51	12	11	13	28	400	670	479	45	22	21
15.....	111	54	12	11	13	28	479	680	421	44	22	18
16.....	104	53	12	11	13	28	563	638	410	43	22	16
17.....	96	54	12	11	13	28	589	680	400	41	22	14
18.....	86	43	12	11	13	28	456	770	387	43	21	13
19.....	86	24	12	11	13	28	342	902	370	34	21	15
20.....	100	20	12	11	13	28	298	1120	336	34	20	15
21.....	98	38	12	11	13	28	370	1330	312	34	20	14
22.....	98	32	12	11	13	28	666	1360	274	33	20	14
23.....	98	35	12	11	13	28	819	1200	251	32	19	14
24.....	111	35	12	11	13	28	530	1180	230	32	19	13
25.....	113	31	12	11	13	28	404	1220	198	32	18	13
26.....	113	28	12	11	13	28	356	1250	170	32	17	13
27.....	106	26	12	11	13	28	339	1110	155	32	16	13
28.....	104	24	12	*11	13	28	342	950	138	32	15	13
29.....	96	22	12	11	.....	28	353	938	123	32	14	12
30.....	88	20	12	11	.....	28	332	819	116	31	14	12
31.....	88	.....	12	11	.....	28	.....	764	.....	30	15	.....
Total	2504	1447	372	341	364	868	9334	27614	13244	1843	688	540
Mean.	80.8	48.2	12	11	13	28	311	891	441	59.5	22.2	18.0
Max..	164	79	.....	.....	.....	.....	819	1390	890	155	30	39
Min..	42	20	.....	.....	.....	.....	70	302	116	30	14	12
Acre-ft.	4970	2870	738	676	722	1720	18510	54770	26270	3660	1360	1070

Total run-off for water year=117,300 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

THIRTY-FIRST BIENNIAL REPORT

Discharge of Culebra River at San Luis, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	22	29	30	23	25	26	30	58	284	220	48
2	23	22	29	30	11	14	23	30	61	268	179	56
3	23	14	29	29	26	30	22	26	117	224	154	50
4	22	21	29	29	26	30	23	26	148	118	218	51
5	26	20	29	30	22	31	14	20	138	227	280	60
6	18	30	29	30	21	30	14	25	123	202	300	56
7	32	29	25	27	23	30	21	24	101	250	306	43
8	27	26	12	28	21	26	23	27	85	282	261	50
9	27	25	28	26	10	13	25	29	74	272	209	44
10	26	12	29	26	25	29	27	27	50	247	115	38
11	24	29	29	32	26	30	22	18	44	248	139	32
12	20	30	29	26	26	30	22	33	35	282	126	30
13	20	30	19	30	26	30	14	45	43	230	140	31
14	23	29	20	29	26	30	23	46	50	226	150	40
15	25	29	16	29	23	26	20	59	47	220	100	44
16	24	29	14	22	11	14	23	82	122	194	84	41
17	23	29	32	24	27	30	23	71	250	222	53	38
18	21	29	30	24	29	33	22	74	251	220	90	39
19	20	30	29	27	29	34	24	78	314	214	113	41
20	22	29	29	29	29	33	16	61	316	147	118	40
21	25	29	26	26	30	33	22	62	259	231	109	41
22	24	29	12	26	26	30	26	57	276	243	97	42
23	29	29	29	26	14	19	27	51	309	231	77	45
24	29	29	25	29	30	29	26	47	351	211	59	41
25	30	29	15	27	30	27	29	44	298	226	96	38
26	30	29	28	27	30	28	30	73	335	193	80	39
27	32	29	29	27	29	25	26	82	298	158	78	38
28	32	29	29	29	29	27	21	60	279	202	72	38
29	28	29	28	27	29	20	20	55	244	257	58	50
30	24	29	29	27	29	16	23	54	258	282	55	41
31	24	29	30	26	29	18	29	66	257	272	32	32
Total	776	807	795	814	678	820	677	1482	5334	7083	4168	1285
Mean.	25.0	26.9	25.6	27.2	24.2	26.5	22.6	47.8	178	228	134	42.8
Max.	32	30	32	30	30	34	30	82	351	284	306	60
Min.	18	12	12	22	10	13	14	18	35	118	32	30
Acro-ft.	1540	1609	1580	1670	1340	1630	1340	2940	10580	11050	8270	2550

Total run-off for water year=49,090 acre-feet.

Discharge of Culebra River at San Luis, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	33	35	35	30	32	36	71	479	230	286	68
2	36	34	37	35	31	34	37	60	396	150	251	45
3	35	32	36	35	33	36	37	53	428	110	251	43
4	37	42	36	34	34	36	39	50	362	80	259	43
5	36	66	35	34	34	36	39	48	282	68	239	42
6	37	67	35	34	34	36	39	53	280	98	250	42
7	37	68	35	33	35	36	43	58	306	*150	218	42
8	36	58	35	33	34	36	44	57	199	227	161	42
9	35	32	35	33	35	37	43	66	271	228	144	42
10	35	34	35	32	34	38	40	68	322	238	166	42
11	35	34	35	32	34	38	40	80	387	210	182	45
12	36	35	35	32	34	38	40	95	414	91	178	45
13	40	36	35	32	33	38	40	98	355	266	147	47
14	52	35	34	32	33	37	41	82	330	316	134	45
15	42	34	35	32	33	36	40	64	305	314	89	45
16	36	32	35	31	32	36	44	66	*300	305	67	44
17	35	41	35	31	30	35	55	61	292	309	92	43
18	35	48	34	31	30	35	58	79	272	281	103	42
19	35	33	33	31	30	36	57	78	255	265	112	42
20	34	32	33	31	31	35	51	97	230	276	112	42
21	36	31	34	31	32	35	45	61	210	285	107	40
22	35	33	34	31	32	35	44	67	225	278	106	40
23	35	30	35	31	32	37	86	120	250	299	91	40
24	35	33	33	31	33	38	80	120	270	272	93	40
25	38	33	33	31	33	37	62	186	300	242	107	39
26	33	36	33	31	32	33	57	318	295	218	105	39
27	37	40	33	32	32	38	56	276	282	250	96	38
28	38	40	34	32	33	37	52	202	260	273	93	38
29	38	38	34	32	32	37	50	348	265	272	74	38
30	35	32	35	32	32	37	54	455	260	278	73	38
31	35	32	35	31	32	37	54	469	274	274	75	38
Total	1137	1172	1071	998	913	1122	1449	4006	9082	7153	4461	1281
Mean.	36.7	39.1	34.5	32.2	32.6	36.2	48.3	129	303	231	144	42.7
Max.	52	68	37	35	35	38	86	469	479	316	286	68
Min.	33	30	33	31	30	32	36	48	199	68	67	38
Acro-ft.	2260	2320	2120	1980	1810	2230	2870	7950	18010	14190	8850	2540

Total run-off for water year=67,130 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Culebra River Below San Luis, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	30	.....	.....	.....	39	51	44	115	266	248	44
2	39	31	.....	.....	.....	37	48	51	120	248	199	53
3	38	25	.....	.....	.....	27	46	45	160	216	164	48
4	38	31	.....	.....	.....	38	48	45	211	117	234	48
5	42	27	.....	.....	.....	11	39	36	205	219	302	62
6	30	40	.....	.....	.....	40	37	44	170	205	326	57
7	42	37	.....	.....	.....	10	40	16	147	231	320	44
8	37	40	.....	.....	.....	38	42	19	129	290	293	50
9	40	39	.....	.....	.....	30	42	70	111	290	263	44
10	37	26	.....	.....	.....	37	19	62	74	251	131	38
11	37	40	.....	.....	.....	11	42	71	62	248	147	30
12	30	39	.....	.....	.....	41	41	120	57	278	126	30
13	31	39	.....	.....	.....	41	33	160	57	240	142	36
14	33	38	.....	.....	.....	40	40	205	66	245	150	42
15	34	37	.....	*11	.....	35	40	311	61	228	100	46
16	34	37	.....	.....	.....	29	40	470	111	202	78	49
17	33	37	.....	.....	*13	36	40	361	240	222	51	42
18	32	38	.....	.....	.....	39	40	254	254	225	77	42
19	30	41	.....	.....	.....	43	40	242	323	225	113	48
20	33	40	.....	.....	.....	45	40	228	326	157	120	48
21	34	39	.....	.....	.....	44	39	214	284	242	109	49
22	33	39	.....	.....	.....	43	41	194	302	251	98	48
23	36	39	.....	.....	.....	36	45	160	311	242	76	57
24	39	39	.....	.....	.....	48	41	106	380	228	55	54
25	42	40	.....	.....	.....	*62	41	104	317	254	96	55
26	39	40	.....	.....	.....	60	48	129	358	222	78	55
27	42	40	.....	.....	.....	55	41	150	314	167	77	55
28	46	40	.....	.....	.....	57	37	113	305	225	74	54
29	39	40	.....	.....	.....	51	37	100	216	281	57	78
30	33	40	.....	.....	.....	46	39	94	257	314	51	64
31	34	.....	.....	.....	.....	46	.....	122	.....	308	30	.....
Total	1125	1108	1085	1333	1120	1305	1250	4403	6034	7337	4385	1470
Mean	36.3	36.9	35.0	43.0	40.0	42.1	41.7	142	201	237	141	49.0
Max.	46	41	.....	.....	.....	62	51	470	380	314	326	78
Min.	30	25	.....	.....	.....	27	33	36	57	117	30	30
Acre-ft.	2230	2200	2150	2640	2220	2590	2480	8730	11970	14550	8700	2920

Total run-off for water year=63,380 acre-feet.

Discharge of Culebra River Below San Luis, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	48	44	.....	.....	.....	45	89	682	284	290	78
2	55	46	51	.....	.....	.....	45	77	560	211	245	58
3	58	49	50	.....	.....	.....	47	67	516	131	248	58
4	61	60	50	.....	.....	.....	48	65	409	104	263	55
5	58	80	48	.....	.....	.....	48	68	364	77	237	53
6	55	80	48	.....	.....	.....	50	73	342	133	245	54
7	54	82	45	.....	.....	.....	54	72	367	194	216	54
8	57	72	45	.....	.....	.....	58	78	245	219	162	51
9	53	60	45	.....	.....	.....	55	88	415	222	142	54
10	50	54	45	.....	.....	.....	*55	104	406	242	150	51
11	51	48	44	.....	.....	.....	55	114	443	237	164	55
12	53	48	44	.....	.....	.....	55	125	460	211	186	55
13	58	48	44	.....	.....	.....	55	125	410	272	150	58
14	65	48	44	.....	.....	.....	57	105	380	329	133	57
15	63	46	44	.....	.....	.....	55	92	351	339	87	51
16	54	42	44	.....	.....	.....	61	89	367	326	70	49
17	51	48	44	.....	.....	.....	70	84	351	336	85	44
18	49	57	44	.....	.....	.....	77	120	332	296	98	44
19	54	42	44	.....	.....	.....	74	120	332	284	106	45
20	49	44	44	.....	.....	.....	64	155	290	296	104	46
21	54	41	41	.....	.....	.....	53	100	248	302	98	44
22	51	41	44	.....	.....	.....	55	145	272	284	98	45
23	51	37	44	.....	.....	.....	120	194	311	320	91	46
24	50	44	44	.....	.....	.....	113	208	311	287	87	45
25	53	42	44	.....	.....	.....	82	281	358	254	100	45
26	46	48	41	.....	.....	.....	72	505	354	216	100	45
27	48	50	41	.....	.....	.....	68	460	345	248	91	44
28	54	50	44	.....	.....	.....	64	336	299	275	89	41
29	53	53	44	.....	.....	.....	62	509	314	275	72	41
30	50	44	44	.....	.....	.....	72	678	311	275	72	42
31	48	.....	44	.....	.....	.....	.....	662	.....	260	74	.....
Total	1666	1555	1395	1271	1092	1333	1889	5988	11145	7739	4353	1508
Mean	53.7	51.8	45	41	39	43	63.0	193	372	250	140	50.3
Max.	65	82	.....	.....	.....	.....	120	678	682	339	290	78
Min.	46	37	.....	.....	.....	.....	45	65	245	77	70	41
Acre-ft.	3300	3080	2770	2520	2170	2640	3750	11880	22110	15350	8630	2990

Total run-off for water year=81,190 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Garita Creek Near La Garita, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.8	1.8	....	....	....	3.2	6.7	32	122	54	14	7.4
2....	3.3	2.2	....	....	....	3.2	5.6	36	120	49	12	7.4
3....	2.5	2.8	....	....	....	3.2	5.0	41	132	45	11	7.1
4....	2.5	2.7	....	....	....	3.2	7.1	56	128	44	10	6.8
5....	2.6	2.6	....	....	....	3.2	8.6	51	130	43	10	6.4
6....	4.0	*3.5	....	....	....	3.2	6.3	76	133	44	14	6.1
7....	3.8	3.5	....	....	....	3.2	6.3	9.2	139	40	13	5.8
8....	3.3	3.5	....	....	....	3.2	6.7	122	156	34	15	5.7
9....	3.0	3.0	....	....	....	3.2	8.6	141	118	36	26	5.6
10....	2.8	2.5	....	....	....	3.2	10	125	99	39	31	5.6
11....	2.6	0.9	....	....	....	3.2	8.6	166	99	33	17	5.7
12....	2.3	0.9	....	....	....	3.2	10	222	88	36	16	5.8
13....	2.3	1.0	....	....	....	3.2	10	286	82	33	21	6.1
14....	2.3	1.3	....	....	....	3.2	8.6	348	82	32	12	6.8
15....	2.3	1.3	....	....	....	3.2	11	388	86	27	12	6.4
16....	2.3	1.3	....	....	....	3.2	10	398	91	25	14	5.8
17....	2.5	1.3	....	....	....	3.2	10	392	103	22	14	6.1
18....	2.5	1.3	....	....	....	3.2	10	392	116	22	16	6.4
19....	2.5	1.3	....	....	*3.2	3.2	8.2	368	127	24	12	6.1
20....	2.5	1.3	....	....	....	3.2	7.1	297	110	24	10	6.1
21....	2.5	1.4	....	....	....	3.2	8.2	230	102	19	12	6.1
22....	2.5	1.4	....	....	....	3.2	7.9	190	96	18	14	7.1
23....	2.5	1.4	....	....	....	3.2	7.9	205	114	18	12	11
24....	2.1	1.4	....	....	....	3.2	8.6	195	114	16	10	8.7
25....	2.1	1.4	....	....	....	3.2	10	160	97	18	10	7.4
26....	2.0	1.4	....	....	....	3.2	16	143	95	22	8.7	6.8
27....	2.6	1.4	....	....	....	6.3	19	140	87	18	9.0	6.1
28....	2.3	1.4	....	....	....	4.7	21	139	78	17	8.7	5.5
29....	1.6	1.4	....	....	....	5.0	28	144	69	14	9.5	6.4
30....	2.1	1.4	....	....	....	4.7	29	134	61	14	10	11
31....	1.8	....	....	....	....	5.0	....	121	....	14	8.4	....
Total	79.8	54.0	46.5	62	70	108.9	320.0	5830	3174	894	412.3	201.3
Mean.	2.57	1.8	1.5	2.0	2.5	3.51	10.7	188	106	28.8	13.3	6.71
Max..	4.0	....	....	....	....	....	29	398	156	54	31	11
Min..	1.6	....	....	....	....	....	5.0	32	61	14	8.4	5.5
Acre-ft.	158	107	92	123	139	216	635	11560	6300	1770	818	399

Total run-off for water year=22,320 acre-feet.

Discharge of La Garita Creek Near La Garita, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	8.7	9.5	....	....	....	....	17	55	89	28	15	5.0
2....	7.7	9.3	....	....	....	....	19	62	86	27	15	5.0
3....	10	9.1	....	....	....	....	21	61	87	27	13	5.2
4....	15	8.8	....	....	....	....	25	83	82	27	12	5.5
5....	12	8.8	....	....	....	....	27	90	80	27	12	6.0
6....	11	*8.7	....	....	....	....	33	100	77	25	14	6.7
7....	9.5	8.7	....	....	....	....	25	124	78	26	12	6.8
8....	8.4	8.7	....	....	....	....	23	143	76	24	12	6.0
9....	7.7	7.4	....	....	....	....	23	181	77	26	11	5.4
10....	7.1	8.4	....	....	....	....	26	176	70	23	11	5.4
11....	6.8	8.0	....	....	....	....	28	161	78	22	11	6.1
12....	6.8	7.4	....	....	....	....	*32	129	76	20	11	7.4
13....	7.4	7.4	....	....	....	....	44	103	71	20	11	7.0
14....	12	7.7	....	....	....	....	64	94	67	19	11	6.5
15....	12	....	....	....	....	....	66	93	60	20	10	6.1
16....	10	....	....	....	....	....	60	95	58	19	10	5.6
17....	9.5	....	....	....	....	....	55	96	59	21	9.8	5.6
18....	8.0	....	....	....	....	....	50	93	58	18	9.8	5.8
19....	7.4	....	....	....	....	....	44	102	57	15	10	5.8
20....	7.4	....	....	....	....	....	42	117	55	14	11	5.8
21....	7.7	....	....	....	....	....	52	134	52	13	10	5.8
22....	11	....	....	....	....	....	67	132	49	12	9.8	5.7
23....	12	....	....	....	....	....	74	141	44	12	9.4	5.7
24....	13	....	....	....	....	....	49	138	42	11	9.0	5.6
25....	14	....	....	....	....	....	55	138	39	11	8.4	5.6
26....	14	....	....	....	....	....	55	131	36	10	8.0	5.6
27....	12	....	....	....	....	....	54	111	34	10	7.6	5.6
28....	11	....	....	....	....	....	60	98	32	13	7.2	5.6
29....	10	....	....	....	....	....	64	104	29	16	6.5	5.6
30....	10	Nov. 1	....	....	....	....	62	95	28	14	6.0	5.6
31....	9.8	to 14	....	....	....	....	....	90	....	18	5.4	....
Total	308.9	117.9	....	....	....	....	1316	3470	1826	588	318.9	175.1
Mean.	9.96	8.42	....	....	....	....	43.9	112	60.9	19.0	10.3	5.84
Max..	15	....	....	....	....	....	74	181	89	28	15	7.4
Min..	6.8	....	....	....	....	....	17	55	28	10	5.4	5.0
Acre-ft.	613	234	....	....	....	....	2610	6880	3620	1170	633	347

Total run-off for period=16,110 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Carnero Creek Near La Garita, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7	2.4					7.0	25	107	34	19	7.4
2	3.0	2.6					6.4	30	102	31	18	6.8
3	2.5	2.6					6.0	38	96	25	14	6.1
4	2.3	2.5					9.0	41	100	23	14	5.6
5	2.3	1.9					9.8	43	88	23	13	5.2
6	2.8	2.2					8.4	55	86	22	23	5.2
7	2.8	2.5					9.0	68	94	23	20	4.8
8	2.5	2.5					10	88	142	22	14	4.8
9	2.4	2.2					12	121	116	24	20	4.6
10	2.4	2.3					11	147	114	26	23	4.6
11	2.4	1.6					11	178	121	24	18	4.4
12	2.3	2.2					11	201	94	32	16	4.4
13	2.4	2.3					13	254	86	32	16	4.4
14	2.4	1.6					11	261	84	30	13	4.6
15	2.4	1.6					10	222	86	30	13	4.8
16	2.4	1.6					8.7	181	80	27	13	4.6
17	2.3	1.6					9.4	166	82	26	14	4.8
18	2.3	1.6					8.4	172	86	22	14	5.2
19	2.4	1.6			*1.2		7.1	139	82	22	13	5.2
20	2.3	1.6					8.0	139	77	22	12	5.6
21	2.2	1.6					6.8	114	74	19	13	6.1
22	2.3	1.6					6.4	126	67	18	13	6.1
23	2.3	1.6					5.8	147	58	18	12	14
24	2.3	1.6					6.1	144	77	17	13	9.0
25	2.3	1.6					6.4	139	88	19	12	7.7
26	2.3	1.6				*1.3	9.4	131	68	23	10	7.1
27	3.2	1.6					14	124	58	23	9.4	6.8
28	2.8	1.6					16	124	53	22	8.7	6.4
29	2.4	1.6					19	134	45	20	9.4	13
30	2.7	1.6					26	116	39	19	7.4	15
31	2.5							102		18	7.1	
Total	76.6	57.0	46.5	31.0	28.0	37.2	302.1	397.0	257.4	736	435.0	194.3
Mean	2.47	1.9	1.5	1.6	1.0	1.2	10.1	128	85.8	23.7	14.0	6.48
Max.	3.2						26	261	142	34	23	15
Min.	2.2						5.8	2.5	39	17	7.1	4.4
Acre-ft.	152	113	92	61	56	74	599	787.0	511.0	146.0	86.3	38.5

Total run-off for water year=16,840 acre-feet.

Discharge of Carnero Creek Near La Garita, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.8						47	102	92	22	11	2.8
2	9.0						52	114	96	21	14	2.8
3	22						56	100	96	21	11	3.1
4	18						66	166	104	20	8.7	3.2
5	14						73	196	82	19	7.7	4.4
6	11	*7.0					79	169	77	18	8.4	4.6
7	9.8						70	210	77	18	7.7	3.8
8	9.8						52	210	74	17	7.4	3.2
9	9.4						54	222	72	18	6.1	2.8
10	9.0						58	261	65	16	6.1	2.7
11	9.0						62	244	65	16	5.8	2.8
12	8.7						70	207	62	14	6.1	3.4
13	11						72	131	58	14	8.7	3.1
14	16						136	107	57	12	7.1	2.8
15	13						131	98	57	14	6.4	2.8
16	12						100	102	55	14	5.8	2.5
17	10						92	102	49	16	5.8	2.5
18	9.4						80	92	45	14	5.6	2.8
19	9.0						65	102	45	13	5.2	2.8
20	9.0						50	109	40	11	5.2	3.0
21	9.8						60	131	36	9.4	5.0	3.0
22	13						112	131	36	9.0	5.0	3.1
23	14						164	139	34	8.7	5.0	3.1
24	18						77	155	32	8.4	4.8	3.1
25	16						75	155	30	7.7	4.8	3.1
26	14						88	166	27	7.1	4.8	3.1
27	11						98	169	24	8.4	4.0	3.1
28	11						161	136	23	15	3.2	3.1
29	10						152	129	22	11	3.0	3.1
30	9.6						124	112	21	10	2.8	3.1
31	9.4							98		10	2.7	
Total	364.7						2576	4565	1647	432.7	194.9	92.8
Mean	11.8						85.9	147	54.9	14.0	6.29	3.09
Max.	22						164	261	104	22	14	4.6
Min.	8.7						47	9.2	21	7.1	2.7	2.5
Acre-ft.	723						511.0	905.0	327.0	85.8	38.7	18.4

Total run-off for period=19,580 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Saguache Creek Near Saguache, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	38	22	.....	.....	.....	36	72	77	309	240	87	48
2.....	38	23	.....	.....	.....	36	56	78	312	235	84	47
3.....	35	27	.....	.....	.....	36	52	105	301	219	74	45
4.....	32	33	.....	.....	.....	36	55	125	318	211	77	43
5.....	30	32	.....	.....	.....	36	68	108	318	209	64	43
6.....	33	32	.....	.....	.....	36	60	110	312	206	84	40
7.....	32	32	.....	.....	.....	36	42	151	315	196	96	40
8.....	28	31	.....	.....	.....	36	42	175	420	188	87	40
9.....	28	36	.....	.....	.....	36	43	206	432	196	92	45
10.....	28	32	.....	.....	.....	36	50	243	356	198	97	43
11.....	28	24	.....	.....	.....	47	45	290	356	183	92	39
12.....	28	22	.....	.....	.....	47	38	318	309	190	89	39
13.....	28	22	.....	.....	.....	47	45	361	259	203	82	40
14.....	27	26	.....	.....	.....	47	39	477	254	190	72	43
15.....	27	31	.....	.....	.....	47	37	502	262	178	80	45
16.....	27	34	.....	.....	.....	47	32	447	284	168	92	42
17.....	27	38	.....	.....	.....	47	32	420	298	156	89	40
18.....	27	39	.....	.....	.....	47	32	438	341	156	84	45
19.....	27	38	.....	.....	*25	47	34	459	390	154	72	45
20.....	28	33	.....	.....	.....	47	37	450	471	180	66	46
21.....	27	29	.....	.....	.....	47	36	411	453	149	68	56
22.....	22	29	.....	.....	.....	47	35	356	429	132	72	54
23.....	24	29	.....	.....	.....	47	42	373	420	132	64	66
24.....	23	29	.....	.....	.....	47	40	356	432	130	63	54
25.....	23	29	.....	.....	.....	47	36	350	492	128	60	48
26.....	24	29	.....	.....	.....	49	39	414	456	128	55	46
27.....	28	29	.....	.....	.....	40	47	393	382	123	52	44
28.....	25	29	.....	.....	.....	55	63	367	341	110	50	42
29.....	24	29	.....	.....	.....	59	66	361	293	103	51	46
30.....	23	29	.....	.....	.....	63	66	350	254	96	56	56
31.....	22	.....	.....	.....	.....	64	.....	318	.....	92	52	.....
Total	861	897	775	620	700	1395	1381	9589	10569	5179	2303	1370
Mean..	27.8	29.9	25	20	25	45	46.0	309	352	167	74.3	45.7
Max..	38	.....	.....	.....	.....	.....	72	502	492	240	97	66
Min..	22	.....	.....	.....	.....	.....	32	77	254	92	50	39
Acre-ft.	1710	1780	1540	1230	1390	2770	2740	19020	20960	10270	4570	2720

Total run-off for water year=70,700 acre-feet.

*Discharge measurement made on this day.

Discharge of Saguache Creek Near Saguache, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	51	52	.....	.....	.....	.....	87	161	393	163	94	34
2.....	48	60	.....	.....	.....	.....	97	185	402	161	103	33
3.....	72	66	.....	.....	.....	.....	101	175	450	161	121	33
4.....	75	63	.....	.....	.....	.....	121	196	496	158	101	33
5.....	72	63	.....	.....	.....	.....	166	281	420	156	89	39
6.....	60	59	.....	.....	.....	.....	193	298	373	154	89	44
7.....	55	55	.....	.....	.....	.....	137	312	411	156	85	42
8.....	51	46	.....	.....	.....	.....	89	373	459	163	80	37
9.....	48	55	.....	.....	.....	.....	99	399	459	170	72	36
10.....	47	59	.....	.....	.....	.....	123	489	408	158	69	33
11.....	47	52	.....	.....	.....	.....	203	532	347	149	69	35
12.....	48	52	.....	.....	.....	.....	235	536	390	139	68	47
13.....	57	57	.....	.....	.....	.....	219	420	417	137	69	39
14.....	77	54	.....	.....	.....	.....	298	287	376	139	63	36
15.....	66	55	.....	.....	.....	.....	462	246	347	146	60	35
16.....	60	54	.....	.....	.....	.....	405	248	287	156	56	35
17.....	59	57	.....	.....	.....	.....	300	243	281	158	59	33
18.....	55	57	.....	.....	.....	.....	216	235	318	158	54	32
19.....	55	36	.....	.....	.....	.....	151	248	293	151	54	32
20.....	56	39	.....	.....	.....	.....	139	270	270	134	54	32
21.....	59	39	.....	.....	.....	.....	163	309	262	121	54	32
22.....	64	37	.....	.....	.....	.....	295	399	224	112	52	34
23.....	72	35	.....	.....	.....	.....	462	459	211	110	57	35
24.....	75	34	.....	.....	.....	.....	304	471	201	103	60	34
25.....	70	35	.....	.....	.....	.....	203	536	193	99	68	33
26.....	72	35	.....	.....	.....	.....	185	556	188	94	54	33
27.....	66	34	.....	.....	.....	.....	168	609	175	97	44	33
28.....	64	33	.....	.....	.....	.....	161	520	173	108	37	33
29.....	64	33	.....	.....	.....	.....	178	492	163	105	34	33
30.....	64	32	.....	.....	.....	.....	196	483	161	96	33	32
31.....	60	.....	.....	.....	.....	.....	.....	432	.....	92	34	.....
Total	1889	1438	775	558	420	1085	6156	11400	9548	4204	2036	1052
Mean..	60.9	47.9	25	18	15	35	205	368	318	136	65.7	35.1
Max..	77	66	.....	.....	.....	.....	462	609	496	170	121	47
Min..	47	32	.....	.....	.....	.....	87	161	161	92	33	32
Acre-ft.	3750	2850	1540	1110	833	2150	12210	22610	18940	8340	4040	2090

Total run-off for water year=80,410 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Kerber Creek at Ashley Ranch Near Villa Grove, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	4.9	2.4	.....	.....	.....	3.5	4.9	20	122	41	9.2	2.7
2.....	4.0	2.6	.....	.....	.....	3.5	4.3	25	119	37	9.1	2.7
3.....	3.7	3.2	.....	.....	.....	3.5	4.3	30	126	32	9.0	2.3
4.....	3.5	2.7	.....	.....	.....	3.5	4.3	31	124	28	8.8	2.1
5.....	4.0	1.9	.....	.....	.....	3.5	5.4	32	126	27	8.4	2.1
6.....	4.0	2.6	.....	.....	.....	3.5	6.2	52	122	27	11	2.4
7.....	3.7	2.3	.....	.....	.....	3.5	6.6	78	124	28	11	2.7
8.....	3.7	2.4	.....	.....	.....	3.5	6.6	114	132	28	9.6	3.2
9.....	3.7	2.7	.....	.....	.....	3.5	8.5	116	109	28	9.4	5.4
10.....	3.7	2.4	.....	.....	.....	3.5	7.1	126	105	30	9.4	6.6
11.....	3.7	2.6	.....	.....	.....	3.5	5.7	132	97	24	8.9	5.1
12.....	3.7	2.6	.....	.....	.....	3.5	8.0	153	88	25	8.6	4.9
13.....	3.7	2.6	.....	.....	.....	3.5	8.0	250	85	27	8.2	4.9
14.....	3.7	2.6	.....	.....	.....	3.5	8.5	363	90	26	8.0	4.9
15.....	3.5	2.6	.....	.....	.....	3.5	8.5	327	102	24	7.5	4.9
16.....	3.5	2.6	.....	.....	.....	3.5	9.8	259	116	22	4.6	4.6
17.....	3.5	2.6	.....	.....	.....	3.5	9.4	237	114	20	4.6	4.9
18.....	3.7	2.6	.....	.....	.....	3.5	8.0	212	114	19	6.2	5.1
19.....	3.7	2.6	.....	.....	.....	3.5	7.5	166	114	19	5.7	5.1
20.....	3.7	2.6	.....	.....	.....	3.5	7.5	126	109	18	4.9	5.1
21.....	3.2	2.6	.....	.....	.....	3.5	6.6	105	107	17	6.2	5.4
22.....	2.9	2.6	.....	.....	.....	3.5	5.7	93	104	15	4.9	7.1
23.....	3.2	2.6	.....	.....	.....	3.5	5.4	80	102	14	2.9	5.4
24.....	3.2	2.6	.....	.....	.....	3.5	5.7	75	97	13	2.6	8.9
25.....	3.5	2.6	.....	.....	.....	3.5	6.6	83	95	13	2.3	8.0
26.....	3.7	2.6	.....	.....	.....	3.2	9.4	90	75	14	1.9	7.1
27.....	5.1	2.6	.....	.....	.....	8.5	13	131	72	13	2.3	6.6
28.....	3.5	2.6	.....	.....	.....	3.7	13	132	64	11	2.1	6.6
29.....	2.7	2.6	.....	.....	.....	3.7	12	122	54	10	2.4	8.9
30.....	3.5	2.6	.....	.....	.....	4.6	17	117	48	9.4	3.2	8.9
31.....	2.7	.....	.....	.....	.....	13	.....	117	.....	9.2	2.7	.....
Total	112.5	77.2	71.3	62	70	124.2	233.5	3394	3056	668.6	195.6	154.6
Mean.	3.63	2.57	2.3	2	2.5	4.01	7.78	129	102	21.6	6.31	5.15
Max.	5.1	.....	.....	.....	.....	.....	17	363	132	41	11	8.9
Min.	2.7	.....	.....	.....	.....	.....	4.3	20	48	9.2	1.9	2.1
Acres-ft.	223	153	141	123	139	246	463	7920	6060	1330	338	307

Total run-off for water year=17,490 acre-feet.

**Discharge of Kerber Creek at Ashley Ranch Near Villa Grove, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	8.2	13	.....	.....	.....	.....	.....	31	174	12	8.3	3.6
2.....	8.6	12	.....	.....	.....	.....	.....	32	162	11	19	3.4
3.....	11	12	.....	.....	.....	.....	.....	34	158	11	14	2.1
4.....	0.4	12	.....	.....	.....	.....	.....	43	150	9.9	12	2.4
5.....	9.0	12	.....	.....	.....	.....	.....	54	137	8.8	12	2.8
6.....	8.2	12	.....	.....	.....	.....	.....	60	129	8.0	11	2.4
7.....	8.6	12	.....	.....	.....	.....	.....	74	123	7.8	11	2.5
8.....	9.0	13	.....	.....	.....	.....	.....	90	114	6.8	10	2.3
9.....	8.6	15	.....	.....	.....	.....	.....	108	101	7.8	8.0	2.4
10.....	8.2	14	.....	.....	.....	.....	.....	129	94	8.3	8.3	2.6
11.....	9.0	14	.....	.....	.....	.....	.....	142	89	11	8.5	2.9
12.....	9.0	12	.....	.....	.....	.....	.....	*20	137	83	14	8.3
13.....	11	.....	.....	.....	.....	.....	.....	19	123	75	18	8.0
14.....	11	.....	.....	.....	.....	.....	.....	16	112	71	19	8.0
15.....	11	.....	.....	.....	.....	.....	.....	15	105	64	18	8.0
16.....	12	.....	.....	.....	.....	.....	.....	14	104	63	16	8.0
17.....	12	.....	.....	.....	.....	.....	.....	16	105	63	16	7.3
18.....	12	.....	.....	.....	.....	.....	.....	14	102	60	18	8.0
19.....	12	.....	.....	.....	.....	.....	.....	14	102	61	16	8.3
20.....	12	.....	.....	.....	.....	.....	.....	16	119	63	14	9.2
21.....	14	.....	.....	.....	.....	.....	.....	21	111	63	13	9.6
22.....	14	.....	.....	.....	.....	.....	.....	34	136	60	12	9.6
23.....	15	.....	.....	.....	.....	.....	.....	44	176	43	11	9.6
24.....	15	.....	.....	.....	.....	.....	.....	39	224	24	9.9	10
25.....	14	.....	.....	.....	.....	.....	.....	34	226	20	9.2	11
26.....	14	.....	.....	.....	.....	.....	.....	31	239	17	10	8.8
27.....	14	.....	.....	.....	.....	.....	.....	30	275	21	11	7.1
28.....	14	.....	.....	.....	.....	.....	.....	28	236	14	11	5.9
29.....	12	.....	.....	.....	.....	.....	.....	30	217	12	9.6	5.2
30.....	12	Nov. 1	.....	.....	.....	.....	.....	27	202	12	8.8	4.7
31.....	13	to 12	.....	.....	.....	.....	.....	.....	186	.....	8.5	3.8
Total	350.8	153	.....	.....	.....	.....	.....	462	4034	2320	365.4	280.5
Mean.	11.3	12.8	.....	.....	.....	.....	.....	24.3	130	77.3	11.8	9.05
Max.	15	15	.....	.....	.....	.....	.....	44	275	174	19	19
Min.	8.2	12	.....	.....	.....	.....	.....	14	31	12	6.8	3.8
Acres-ft.	696	303	.....	.....	.....	.....	.....	916	8000	4600	725	556

Total run-off for period=15,970 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Crestone Creek Near Crestone, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1....	14	4.9	.....	.....	.....	.....	4.1	15	132	112	29	8.1
2....	13	5.2	.....	.....	.....	.....	3.8	18	132	109	28	7.7
3....	13	5.1	.....	.....	.....	.....	3.8	24	132	101	25	7.2
4....	12	4.9	.....	.....	.....	.....	3.7	24	132	103	24	7.0
5....	12	4.2	.....	.....	.....	.....	3.7	25	130	88	22	6.6
6....	12	4.8	.....	.....	.....	.....	3.7	33	132	82	21	6.4
7....	11	4.6	.....	.....	.....	.....	3.7	45	137	84	21	5.8
8....	11	4.6	.....	.....	.....	.....	3.5	57	127	82	21	6.2
9....	9.9	4.3	.....	.....	.....	.....	3.6	76	109	78	21	6.0
10....	9.6	4.3	.....	.....	.....	.....	3.7	89	100	76	18	5.8
11....	8.8	5.2	.....	.....	.....	.....	3.6	99	95	65	21	5.2
12....	8.2	4.7	.....	.....	.....	.....	3.8	104	94	62	18	5.2
13....	7.6	4.6	.....	.....	.....	.....	3.8	130	94	60	16	5.4
14....	7.2	4.5	.....	.....	.....	.....	3.7	148	103	60	18	5.8
15....	6.7	4.1	.....	.....	.....	.....	3.7	122	125	58	23	5.4
16....	6.6	4.0	.....	.....	.....	.....	3.6	122	146	58	21	5.2
17....	6.4	4.0	.....	.....	.....	.....	3.6	144	179	58	20	5.0
18....	6.4	4.0	.....	.....	.....	.....	3.8	170	236	65	17	5.0
19....	6.4	4.0	.....	.....	.....	.....	3.6	144	278	63	15	5.0
20....	6.4	4.0	.....	.....	.....	.....	3.6	117	211	64	14	5.0
21....	6.1	4.0	.....	.....	.....	.....	3.2	103	194	58	13	4.8
22....	5.8	4.0	.....	.....	.....	.....	3.2	101	204	56	12	6.0
23....	5.8	4.0	.....	.....	.....	.....	3.5	101	245	55	12	8.1
24....	5.8	4.0	.....	.....	.....	.....	3.8	108	228	52	11	6.6
25....	5.7	4.0	.....	.....	.....	.....	4.9	125	255	51	9.8	6.6
26....	5.7	4.0	.....	.....	.....	.....	6.0	143	196	47	9.5	6.8
27....	5.7	4.0	.....	.....	.....	.....	7.6	137	170	45	9.0	6.6
28....	6.0	4.0	.....	.....	.....	.....	8.8	119	152	46	8.5	6.6
29....	5.4	4.0	.....	.....	.....	.....	9.9	106	121	40	8.5	12
30....	5.4	4.0	3.7	12	108	114	34	8.5	14
31....	5.3	.....	.....	.....	.....	.....	.....	119	.....	31	8.1	.....
Total	250.9	130.0	.....	.....	.....	.....	137.0	2976	4706	2043	522.9	197.1
Mean	8.09	4.33	.....	.....	.....	.....	4.57	96.0	157	65.9	16.9	6.57
Max....	14	.....	.....	.....	.....	.....	12	170	278	112	29	14
Min....	5.3	.....	.....	.....	.....	.....	3.2	15	94	31	8.1	4.8
Acre-ft.	498	258	.....	.....	.....	.....	272	5900	9330	4050	1040	394

Total run-off for period—21,740 acre-feet.

Discharge of North Crestone Creek Near Crestone, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	13	16	.....	.....	.....	.....	4.2	12	137	76	18	15
2....	12	15	.....	.....	.....	.....	4.7	12	127	68	21	14
3....	14	14	.....	.....	.....	.....	5.2	12	128	64	20	11
4....	18	13	.....	.....	.....	.....	5.9	14	128	63	18	11
5....	16	13	.....	.....	.....	.....	7.0	20	143	64	16	11
6....	15	12	.....	.....	.....	.....	7.9	25	162	67	15	9.5
7....	14	.....	.....	.....	.....	.....	4.8	35	170	65	14	9.0
8....	14	.....	.....	.....	.....	.....	4.6	48	153	68	13	9.0
9....	13	.....	.....	.....	.....	.....	4.8	63	134	64	12	8.5
10....	13	.....	.....	.....	.....	.....	5.6	67	150	64	12	8.1
11....	12	.....	.....	.....	.....	.....	7.0	77	177	65	11	19
12....	12	.....	.....	.....	.....	.....	7.2	72	168	63	11	21
13....	15	.....	.....	.....	.....	.....	8.8	60	144	55	11	21
14....	24	.....	.....	.....	.....	.....	12	48	130	51	11	22
15....	23	.....	.....	.....	.....	.....	17	42	119	48	11	17
16....	24	.....	.....	.....	.....	.....	19	38	148	50	10	14
17....	26	.....	.....	.....	.....	.....	17	35	157	46	10	14
18....	27	.....	.....	.....	.....	.....	13	32	157	45	10	13
19....	27	.....	.....	.....	.....	.....	12	38	144	41	9.8	12
20....	27	.....	.....	.....	.....	.....	11	45	122	38	9.2	11
21....	26	.....	.....	.....	.....	.....	11	60	112	32	9.0	10
22....	26	.....	.....	.....	.....	.....	19	78	100	28	9.0	9.2
23....	29	.....	.....	.....	.....	.....	33	109	112	26	8.8	9.0
24....	31	.....	.....	.....	.....	.....	25	124	98	25	8.5	8.3
25....	32	.....	.....	.....	.....	.....	21	135	84	22	8.8	7.9
26....	29	.....	.....	.....	.....	.....	16	162	86	21	8.8	7.7
27....	26	.....	.....	.....	.....	.....	14	177	83	21	8.3	7.4
28....	23	.....	.....	.....	.....	.....	13	137	74	20	8.3	7.2
29....	21	.....	.....	.....	.....	.....	13	132	74	18	7.9	7.0
30....	18	Nov. 1	.....	.....	.....	.....	13	124	78	17	7.7	7.0
31....	16	to 6	.....	.....	.....	.....	.....	127	.....	17	7.2	.....
Total	636	83	.....	.....	.....	.....	356.7	2160	3799	1412	355.3	350.8
Mean	20.5	13.8	.....	.....	.....	.....	11.9	69.7	127	45.5	11.5	11.7
Max....	32	16	.....	.....	.....	.....	33	177	177	76	21	22
Min....	12	12	.....	.....	.....	.....	4.2	12	74	17	7.2	7
Acre-ft.	1260	165	.....	.....	.....	.....	708	4280	7540	2800	705	696

Total run-off for period—18,150 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

COLORADO RIVER BASIN**COLORADO RIVER NEAR GRAND LAKE, COLORADO**

Location—Water stage recorder in Sec. 13, T. 3 N., R. 76 W., $\frac{1}{2}$ mile upstream from Grand Lake outlet, and 3 miles south of Grand Lake.

Drainage Area—101 square miles.

Records Available—August, 1904 to September, 1909; October, 1910 to September 30, 1918; May 11, 1934 to September 30, 1942.

Maximum discharge during period 1904-1909, 1910-1918, 1934-1942; 1,840 second feet June 15-16, 1918, site and datum then in use. Gage height 7.0 feet.

Maximum Discharge—Year 1941; 602 second feet May 13. Gage height 4.82 feet.

Maximum Discharge—Year 1942; 469 second feet June 12. Gage height 4.44 feet.

Accuracy—Records considered good except those for periods of ice effect November 10, 11, 14-17, 20-27, 1940, December 1, 3-6, 8, 9, 11, 13, 14, 21-23, 26, 29, January 1, 1941 to January 6, 14, 17-20, 26-28, February 1-9, March 27, 29, 31, April 1, 2, 8-10, and November 3, 1941 to April 30, 1942, and during periods of missing gage heights May 2-5, 7-15, 17-20, 22-24, 1942, which are fair.

Diversions for irrigation above station. Grand River transmountain diversion from headwaters into Cache la Poudre River basin, through Poudre Pass.

COLORADO RIVER NEAR GRANBY, COLORADO

Location—Water stage recorder in Sec. 22, T. 2 N., R. 76 W., 4 miles northeast of Granby, and $1\frac{1}{2}$ miles upstream from Willow Creek.

Drainage Area—322 square miles.

Records Available—June, 1908 to September, 1911; May 12, 1934 to September 30, 1942.

Maximum discharge during period 1908-1911, 1934-1942; 4,100 second feet June 20, 1909. Gage height 5.5 feet, datum then in use.

Maximum Discharge—Year 1941; 2,070 second feet May 14. Gage height 3.82 feet.

Maximum Discharge—Year 1942; 2,260 second feet June 12. Gage height 3.98 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 14, 1940 to April 10, 1941, and November 12, 1941 to May 9, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

COLORADO RIVER AT HOT SULPHUR SPRINGS, COLORADO

Location—Water stage recorder in Sec. 1, T. 1 N., R. 78 W., 1 mile east of Hot Sulphur Springs at Thompson's Ranch, and 3 miles upstream from Beaver Creek.

Drainage Area—782 square miles. Altitude 7,680 feet above mean sea level.

Records Available—July, 1904 to September, 1909; September, 1910 to September, 1924; October, 1925, to September 30, 1942.

Maximum discharge during period 1904-1909, 1910-1924, 1925-1942; 10,300 second feet June 15, 1921. Gage height 8.70 feet, site and datum then in use.

Maximum Discharge—Year 1941; 3,790 second feet May 14. Gage height 3.83 feet.

Maximum Discharge—Year 1942; 4,600 second feet June 13. Gage height 4.28 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 12, 1940 to March 29, 1941, and November 22, 1941 to April 10, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station. Transmountain diversion through Moffat Tunnel and by Grand River ditch, above station.

COLORADO RIVER NEAR DOTSERO, COLORADO

Location—Water stage recorder in Sec. 6, T. 5 S., R. 86 W., 1½ miles west of Dotsero, and 1½ miles downstream from Eagle River.

Drainage Area—4,390 square miles.

Records Available—December, 1940 to September 30, 1942.

Maximum discharge during period 1940-1942; that of June 7, 1942.

Maximum discharge during period 1934-1942; that of May from rating curve extended above 8,300 second feet. Gage height 9.66 feet.

Maximum Discharge—Year 1942; 15,400 second feet June 7. Gage height 10.02 feet.

Accuracy—Records considered excellent, except those for periods of ice effect December 15-21, 1940, December 24, 1940 to February 12, 1941, November 22-25, 1941, December 6, 7, 1941, which were computed from weather records and on basis of record for station at Glenwood Springs.

Diversions for irrigation above station,

COLORADO RIVER AT GLENWOOD SPRINGS, COLORADO

Location—Water stage recorder in Sec. 9, T. 6 S., R. 89 W., at Glenwood Springs, $\frac{1}{2}$ mile upstream from Roaring Fork.

Drainage Area—4,560 square miles. Zero of gage is 5,720.71 feet above mean sea level, adjustment of 1912.

Records Available—May 12, 1899 to September 30, 1942.

Maximum discharge during period 1899-1942; 30,100 second feet June 14, 15, 1918. Gage height 12.55 feet.

Maximum Discharge—Year 1941; 14,900 second feet May 15. Gage height 9.00 feet.

Maximum Discharge—Year 1942; 16,800 second feet May 28. Gage height 9.47 feet.

Accuracy—Records considered excellent except those for period June 18 to September 30, 1941, which are good, and for period of missing gage heights May 12-20, 1942, which were computed on basis of record for station near Dotsero.

Diversions for irrigation and transmountain diversions above station. During low-water period, flow is regulated by Shoshone power plant 6 miles upstream.

COLORADO RIVER NEAR CAMEO, COLORADO

Location—Water stage recorder in Sec. 6, T. 10 S., R. 97 W., 6.7 miles northeast of Cameo and 3.4 miles upstream from mouth of Plateau Creek.

Drainage Area—8,055 square miles.

Records Available—October, 1933 to September 30, 1942.

Maximum discharge during period 1933-1942; 36,000 second feet June 16, 1935. Gage height 10.91 feet.

Maximum Discharge—Year 1941; 27,500 second feet May 14. Gage height 9.96 feet.

Maximum Discharge—Year 1942; 26,900 second feet May 28. Gage height 9.70 feet.

Accuracy—Records considered excellent except those for periods of ice effect December 14 to 30, 1940, January 3-31, 1941, January 3 to March 16, 1942, which were computed on basis of records for Colorado River and Roaring Fork at Glenwood Springs, and are good.

Diversions for irrigation above station.

COLORADO RIVER NEAR CISCO, UTAH

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 17, T. 23 S., R. 24 E., 1 mile downstream from Dolores River and 11 miles south of Cisco.

Drainage Area—24,100 square miles. Altitude 4,088 feet above mean sea level.

Records Available—November, 1914 to September, 1917; October, 1922 to September 30, 1942.

Maximum discharge during period 1914-1917, 1922-1942; 76,800 second feet June 19, 1917. Gage height 19.7 feet.

Maximum Discharge—Year 1941; 64,400 second feet May 15. Gage height 18.84 feet.

Maximum Discharge—Year 1942; 51,500 second feet May 28. Gage height 15.91 feet.

Accuracy—Records considered excellent except those for periods of no gage height record, which are fair.

Diversions for irrigation above station.

ARAPAHOE CREEK BELOW MONARCH LAKE, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 15, T. 2 N., R. 75 W., 700 feet downstream from mouth of Roaring Fork, 2 $\frac{1}{2}$ miles downstream from outlet of Monarch Lake, and 10 miles east of Granby.

Drainage Area—59 square miles. Zero of gage is 8,244.30 feet above mean sea level, datum of 1929.

Records Available—June, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; 1,380 second feet June 22, 1938, from rating curve extended above 900 second feet. Gage height 4.31 feet.

Maximum Discharge—Year 1941; 726 second feet June 19. Gage height 2.89 feet.

Maximum Discharge—Year 1942; 1,060 second feet June 7. Gage height 3.66 feet.

Accuracy—Records considered good except those for periods of ice effect November 11, 1940 to April 25, 1941, and November 17, 1941 to April 18, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Small diversions for irrigation above station. Flow partly regulated by Monarch Lake. Several second feet diverted around station by power canal during summer months.

WILLOW CREEK NEAR GRANBY, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 34, T. 3 N., R. 77 W., at highway bridge 7 miles northwest of Granby, and 100 feet downstream from Gold Run Creek.

Drainage Area—105 square miles. Zero of gage is 8,240.99 feet above mean sea level, datum of 1929.

Records Available—April, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; 811 second feet May 16, 1938, from rating curve extended above 530 second feet. Gage height 4.49 feet.

Maximum Discharge—Year 1941; 680 second feet May 13, from rating curve extended above 530 second feet. Gage height 4.08 feet.

Maximum Discharge—Year 1942; 655 second feet May 27. Gage height 4.05 feet.

Accuracy—Records considered good except those for periods of ice effect November 5, 1940 to March 30, 1941, April 1-3, November 9 to April 18, 1942, April 22, 23, 27-31, and those for period of missing gage heights August 3-23, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation of hay meadows above station.

FRASER RIVER NEAR WINTER PARK (WEST PORTAL) (ARROW), COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 4, T. 2 S., R. 75 W., 1 $\frac{1}{2}$ miles northwest of Winter Park and 2 $\frac{1}{2}$ miles downstream from point of diversion for Moffat Tunnel.

Drainage Area—27.6 square miles.

Records Available—September 23, 1910 to September 30, 1942.

Maximum discharge during period 1910-1942; 820 second feet June 13, 1918. Gage height 2.9 feet.

Maximum Discharge—Year 1941; 54 second feet October 16. Gage height 0.85 feet. Fraser River and diversion to Moffat Tunnel combined, maximum 274 second feet, June 18.

Maximum Discharge—Year 1942; 326 second feet June 18. Gage height 2.10 feet.

Accuracy—Records considered good except those for periods of ice effect November 5, 6, 10-17, 23, 27, December 3-8, 11-17, 19, 21-23, 27, 28, 1940, January 2-9, 28, 29, 1941, Feb. 2-9, 26-28, March 1, 4, 8-13, 16-19, November 8-12, 14, 16, 19-28, December 26, 1941 to January 7, 1942, January 14, 17, 19-22, 31, February 1, 2, 11-13, 16, 21, 24, 27, March 5, 7, 8, 20 to May 4, 1942, which are fair.

Transmountain diversions above station. Pioneer bore of the Moffat Tunnel has diverted water above this station since June 9, 1936. The combined flow of this diversion and Fraser River is comparable with records prior to June 9, 1936.

FRASER RIVER AT GRANBY, COLORADO

Location—Water stage recorder in Sec. 1, T. 1 N., R. 76 $\frac{1}{2}$ W., just downstream from Tenmile Creek, $\frac{1}{2}$ mile southwest of Granby, and 2 $\frac{1}{2}$ miles upstream from mouth.

Drainage Area—285 square miles.

Records Available—August, 1904 to September, 1909; September 15, 1937 to September 30, 1942.

Maximum discharge during period 1904-1909, 1937-1942; 1,860 second feet June 14, 15, 1906.

Maximum Discharge—Year 1941; 867 second feet May 14. Gage height 2.45 feet.

Maximum Discharge—Year 1942; 1,640 second feet June 5. Gage height 2.95 feet.

Accuracy—Records considered good except those for periods of ice effect November 12-30, December 14, 1940 to March 31, 1941, November 20, 1941 to May 2, 1942, which are fair.

Transmountain diversions above station, as well as diversions for irrigation.

VASQUEZ CREEK NEAR WINTER PARK, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 33, T. 1 S., R. 75 W., $\frac{1}{4}$ mile upstream from mouth, $1\frac{1}{2}$ miles downstream from Moffat Tunnel diversion, and $2\frac{1}{2}$ miles northwest of Winter Park. Present gage is $\frac{3}{4}$ mile downstream from site used in 1907 to 1909.

Drainage Area—27.8 square miles. Zero of gage is 8,768.48 feet above mean sea level, unadjusted.

Records Available—June, 1907 to October, 1909; August, 1934 to September 30, 1942.

Maximum discharge during period 1934-1942; 396 second feet June 15, 1935. Gage height 2.64 feet.

Maximum Discharge—Year 1941; 187 second feet June 18. Gage height 2.08 feet.

Maximum Discharge—Year 1942; 294 second feet June 18. Gage height 2.42 feet.

Accuracy—Records considered good except those for periods of ice effect November 1-7, 10-18, December 11-28, 1940, January 25, 26, 28, 29, February 1-10, February 26-March 1, March 8, 10, 29, 31-April 8, April 14, 16, 19-22, 1941, October 31, 1941 to April 20, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

The Pioneer bore of Moffat tunnel started diverting water above this station May 26, 1937. Records of combined flow of this diversion and of Vasquez Creek are equivalent to records of flow of creek prior to May 26, 1937. See correction table published with run-off data for this station.

ST. LOUIS CREEK NEAR FRASER, COLORADO

Location—Water stage recorder in Sec. 34, T. 1 S., R. 76 W., $\frac{1}{3}$ mile downstream from junction of East and West Branches, and $4\frac{1}{2}$ miles southwest of Fraser. During 1907 and 1909 site maintained 2 miles upstream. Records not comparable.

Drainage Area—32.8 square miles.

Records Available—June, 1907 to September, 1909; August, 1934 to September 30, 1942.

Maximum discharge during period 1934-1942; 353 second feet June 15, 1935, from rating curve extended above 210 second feet. Gage height 2.58 feet.

Maximum Discharge—Year 1941; 248 second feet June 24, from rating curve extended above 210 second feet. Gage height 2.28 feet.

Maximum Discharge—Year 1942; 299 second feet June 18. Gage height 2.46 feet.

Accuracy—Records considered excellent above 25 second feet and good below, except those November 1, 1940 to March 31, 1941, and October 31, 1941 to March 15, 1942, which are fair.

No diversions or regulation above station.

RANCH CREEK ABOVE FORKS NEAR FRASER, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 24, T. 1 S., R. 75 W., 0.8 mile upstream from North Fork and 4 miles east of Fraser.

Drainage Area—3.8 square miles.

Records Available—April 1, 1937 to September 30, 1942 (discontinued).

Maximum discharge during period 1937-1942; that of June 17, 1942.

Maximum Discharge—Year 1941; 62 second feet June 17. Gage height 2.19 feet.

Maximum Discharge—Year 1942; 85 second feet June 17. Gage height 2.56 feet.

Accuracy—Records considered fair. Discharge affected by ice April 24 to May 9, 1941.

No diversions for irrigation above station.

RANCH CREEK NEAR FRASER, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 22, T. 1 S., R. 75 W., 150 yards downstream from South Fork and 3 miles east of Fraser at Arkall Ranch.

Drainage Area—19.9 square miles.

Records Available—August, 1934 to September 30, 1942.

Maximum discharge during period 1934-1942; 299 second feet June 15, 1935. Gage height 3.37 feet.

Maximum Discharge—Year 1941; 169 second feet June 17. Gage height 2.63 feet.

Maximum Discharge—Year 1942; 259 second feet June 6. Gage height 3.26 feet.

Accuracy—Records considered good except those for periods of ice effect November 1-6, 1940, November 10 to February 12, 1941, October 31, 1941 to November 2, November 4-13, 1941, January 13, April 3-5, 1942, which were computed on basis of weather records, and are fair.

No diversions above station.

RANCH CREEK NEAR TABERNASH, COLORADO

Location—Water stage recorder in Sec. 6, T. 1 S., R. 75 W., $\frac{1}{4}$ mile upstream from Meadow Creek and $1\frac{1}{2}$ miles east of Tabernash.

Drainage Area—50.7 square miles.

Records Available—September, 1934 to September 30, 1942.

Maximum discharge during period 1934-1942; 506 second feet June 15, 1935, from rating curve extended above 250 second feet. Gage height 4.40 feet.

Maximum Discharge—Year 1941; 278 second feet May 28. Gage height 3.42 feet.

Maximum Discharge—Year 1942; 400 second feet June 7. Gage height 4.17 feet.

Accuracy—Records considered good except those for periods of ice effect November 11, 1940 to April 25, 1941, November 2, 1941 to March 15, 1942, April 1-15, 1942, which were computed on basis of discharge measurements and weather records, as were those during period of missing gage heights April 25 to May 2, 1942, and are fair.

Diversions for irrigation above station.

NORTH FORK OF RANCH CREEK NEAR FRASER,
COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 23, T. 1 S., R. 75 W., 0.6 mile upstream from mouth and 4 miles east of Fraser.

Drainage Area—3.6 square miles. (Revised.)

Records Available—April, 1937 to September 30, 1942. (Discontinued.)

Maximum discharge during period 1937-1942; 62 second feet June 21, 1938, from rating curve extended above 40 second feet. Gage height 2.00 feet.

Maximum Discharge—Year 1941; 33 second feet June 17. Gage height 1.71 feet.

Maximum Discharge—Year 1942; 43 second feet June 7. Gage height 1.81 feet.

Accuracy—Records considered fair.

No diversions above station.

MIDDLE FORK OF RANCH CREEK NEAR FRASER,
COLORADO

Location—Water stage recorder on line between Sees. 25 and 26, T. 1 S., R. 75 W., 1.6 miles upstream from South Fork and 4.2 miles east of Fraser.

Drainage Area—4.4 square miles.

Records Available—April, 1937 to September 30, 1942. (Discontinued.)

Maximum discharge during period 1937-1942; 124 second feet June 21, 1938, from rating curve extended above 85 second feet. Gage height 1.88 feet.

Maximum Discharge—Year 1941; 77 second feet June 17. Gage height 1.53 feet.

Maximum Discharge—Year 1942; 108 second feet June 6. Gage height 1.71 feet.

Accuracy—Records considered good except for period of missing gage heights May 20, May 25 to June 9, 1941, and May 23-26, 1942, which are fair.

No diversions above station.

SOUTH FORK OF RANCH CREEK NEAR WINTER PARK, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 35, T. 1 S., R. 75 W., 2.8 miles upstream from mouth and 5 miles northeast of Winter Park.

Drainage Area—2.55 square miles (revised).

Records Available—November, 1936 to September 30, 1942. (Discontinued.)

Maximum discharge during period 1936-1942; that of June 6, 1942.

Maximum Discharge—Year 1941; 43 second feet May 30. Gage height 1.31 feet.

Maximum Discharge—Year 1942; 95 second feet June 6, from rating curve extended above 42 second feet. Gage height 1.58 feet.

Accuracy—Records considered fair.

No diversions above station.

MEADOW CREEK NEAR TABERNASH, COLORADO

Location—Water stage recorder in Sec. 15, T. 1 N., R. 75 W., 5 miles northeast of Tabernash.

Drainage Area—7.0 square miles.

Records Available—May 27, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; that of June 5, 1942.

Maximum Discharge—Year 1941; 150 second feet May 25, from rating curve extended above 85 second feet. Gage height 3.22 feet.

Maximum Discharge—Year 1942; 204 second feet June 5, from rating curve extended above 85 second feet. Gage height 3.52 feet.

Accuracy—Records considered good except those for periods of ice effect November 7-13, 26-30, 1941, which are fair, and for

period of missing gage heights May 1-15, 1942, which were estimated.

No diversions above station.

STRAWBERRY CREEK NEAR GRANBY, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 32, T. 2 N., R. 75 W., 0.6 mile downstream from Little Strawberry Creek and 6 miles east of Granby.

Drainage Area—12.6 square miles.

Records Available—May 28, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; 132 second feet May 29, 1938, from rating curve extended above 110 second feet. Gage height 2.91 feet.

Maximum Discharge—Year 1941; 93 second feet May 13. Gage height 2.09 feet.

Maximum Discharge—Year 1942; 116 second feet May 26. Gage height 2.35 feet.

Accuracy—Records considered good except those for periods of ice effect November 5, 6, 1940, March 28 to April 24, 1941, and those estimated November 5-30, 1941, April 1 to May 13, 1942, which are fair.

Two diversions for irrigation above station.

WILLIAMS FORK RIVER BELOW STEELMAN CREEK, COLORADO

Location—Water stage recorder in Sec. 20, T. 3 S., R. 76 W., just downstream from mouth of Steelman Creek and 7 miles southeast of Leal.

Drainage Area—16.3 square miles.

Records Available—June 23, 1933 to September 30, 1941. (Discontinued.) Records since May 10, 1940, equivalent to earlier records if flow diverted through Williams Fork Tunnel is added to flow past station.

Maximum discharge during period 1933-1941; 441 second feet June 21, 1938, from rating curve extended above 260 second feet. Gage height 2.48 feet.

Maximum Discharge—Year 1941; 321 second feet June 24. Gage height 2.22 feet.

Accuracy—Records considered fair except those during period of ice effect November 5, 6, 8, 1940 to April 21, 1941, which were computed on basis of record for station near Leal.

Transmountain diversions above station by Williams Fork Tunnel which first diverted water on May 10, 1940, to Clear Creek in the South Platte basin. See correction table published with the discharge.

WILLIAMS FORK RIVER NEAR LEAL, COLORADO

Location—Water stage recorder in Sec. 31, T. 2 S., R. 77 W., just downstream from mouth of Kinney Creek and 2 miles north of Leal.

Drainage Area—84 square miles.

Records Available—June 19, 1933 to September 30, 1942.

Maximum discharge during period 1933-1942; 1,530 second feet June 21, 1938, from rating curve extended above 1,000 second feet. Gage height 3.81 feet.

Maximum Discharge—Year 1941; 972 second feet June 24. Gage height 3.11 feet.

Maximum Discharge—Year 1942; 1,290 second feet June 19. Gage height 3.59 feet.

Accuracy—Records considered good except those for periods of ice effect November 12-19, December 13, 14, 1940, February 3, 1941, and those during period of no gage-height record February 24 to February 28, 1941, which were computed on basis of weather records, and are fair.

Diversions for irrigation and transmountain diversion above station.

WILLIAMS FORK RIVER NEAR PARSHALL, COLORADO

Location—Water stage recorder in Sec. 1, T. 1 S., R. 79 W., 2½ miles upstream from Battle Creek and 4 miles south of Parshall.

Drainage Area—184 square miles. Zero of gage is 7,805.00 feet above mean sea level.

Records Available—July, 1904 to September, 1924; June, 1933 to September 30, 1942.

Maximum discharge during period 1904-1924, 1933-1942; 2,570 second feet June 14, 1918, from rating curve extended above 1,400 second feet. Gage height 6.0 feet, site and datum then in use.

Maximum Discharge—Year 1941; 740 second feet June 25. Gage height 3.13 feet.

Maximum Discharge—Year 1942; 892 second feet June 19. Gage height 3.43 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 12, 1940 to March 27, 1941, and November 8, 1941 to April 10, 1942, which were computed on basis of weather records, discharge measurements, and are fair.

Diversions for irrigation above station.

TROUBLESOME CREEK AT ATMORE RANCH NEAR
TROUBLESOME, COLORADO

Location—Staff gage in SE¼ Sec. 23, T. 3 N., R. 80 W., ¾ miles upstream from East Fork of Troublesome Creek, and 10 miles north of old Troublesome postoffice.

Drainage Area—50.3 square miles.

Records Available—April, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 209 second feet May 13, from rating curve extended above 150 second feet. Gage height 2.78 feet.

Maximum Discharge—Year 1942; 190 second feet May 27. Gage height 2.70 feet.

Accuracy—Records considered fair. Staff gage read twice daily.

Diversions for irrigation above station.

TROUBLESOME CREEK NEAR TROUBLESOME, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 12, T. 1 N., R. 80 W., at bridge $\frac{3}{4}$ mile upstream from mouth and 1 mile north of old Troublesome postoffice.

Drainage Area—178 square miles.

Records Available—1904, 1905, 1922-1924, October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 640 second feet May 27. Gage height 3.50 feet.

Accuracy—Records considered fair. During period of ice effect November 21, 1941 to March 25, 1942, discharge computed on basis of four discharge measurements and weather records.

Diversions for irrigation above station.

EAST FORK OF TROUBLESOME CREEK NEAR TROUBLESOME, COLORADO

Location—Chain gage in NE $\frac{1}{4}$ Sec. 6, T. 2 N., R. 79 W., $\frac{1}{4}$ mile upstream from mouth and 7 $\frac{1}{2}$ miles north of old Troublesome postoffice. Prior to August 28, 1941, staff gage at same site and datum.

Drainage Area—81.4 square miles.

Records Available—April, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; 373 second feet May 27, 1942. Gage height 3.28 feet.

Maximum Discharge—Year 1941; not determined, about 350 second feet May 14.

Maximum Discharge—Year 1942; 373 second feet May 27. Gage height 3.28 feet.

Accuracy—Records considered fair. Staff gage read twice daily, April 15 to May 12, May 22-27, 1941. Chain gage read twice daily August 28, 1941 to September 30, 1942.

Diversions for irrigation above station.

MUDDY CREEK NEAR KREMMLING, COLORADO

Location—Staff gage in SW $\frac{1}{4}$ Sec. 18, T. 4 N., R. 81 W., just upstream from Albert Creek, and 18 miles northwest of Kremmling.

Drainage Area—71.7 square miles.

Records Available—April 24, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; 658 second feet May 14, 1941, from rating curve extended above 350 second feet. Gage height 3.86 feet.

Maximum Discharge—Year 1941; 658 second feet May 14. Gage height 3.86 feet.

Maximum Discharge—Year 1942; 490 second feet May 27, from rating curve extended above 250 second feet. Gage height 3.23 feet.

Accuracy—Records considered fair.

Several small diversions for irrigation above station. Flow somewhat regulated by Barber Reservoir, capacity 4,290 acre-feet.

BLUE RIVER AT DILLON, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at edge of Dillon a short distance upstream from Snake River and Ten Mile Creek.

Drainage Area—129 square miles. Zero of gage is 8,821.42 feet above mean sea level (unadjusted).

Records Available—October 15, 1910 to September 30, 1942.

Maximum discharge during period 1910-1942; 1,180 second feet June 2, 1914, June 14, 1924. Maximum gage height observed; 4.35 feet June 2, 1914.

Maximum Discharge—Year 1941; 654 second feet June 19, from rating curve extended above 500 second feet. Gage height 3.39 feet.

Maximum Discharge—Year 1942; 714 second feet June 7. Gage height 3.43 feet.

Accuracy—Records considered good except those for periods of ice effect November 11-30, 1940; December 11, 1940 to April 6, 1941, and November 20, 1941 to April 14, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions above station, but practically all are returned to river above station.

BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR
NEAR KREMMLING, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 33, T. 1 S., R. 80 W., just downstream from Spring Creek, about 4 miles downstream from Green Mountain Dam, and 10 miles southeast of Kremmling.

Drainage Area—623 square miles.

Records Available—October, 1937 to September 30, 1942.

Maximum discharge during period 1937-1942; 4,000 second feet June 4, 1938, from rating curve extended above 3,000 second feet. Gage height 5.93 feet.

Maximum Discharge—Year 1941; 3,010 second feet June 19. Gage height 5.17 feet.

Maximum Discharge—Year 1942; 3,570 second feet June 7. Gage height 5.60 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 13, 1940 to April 3, 1941; November 22, 1941 to April 19, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation and storage above station. Green Mountain Reservoir, capacity 280,500 acre-feet, in operation 1942.

SLAKE RIVER NEAR MONTEZUMA, COLORADO

Location—Staff gage in NW $\frac{1}{4}$ Sec. 19, T. 5 S., R. 76 W., 200 feet downstream from mouth of North Fork, and 4 $\frac{1}{2}$ miles northwest of Montezuma. Public Service power canal diverts water 500 feet downstream.

Drainage Area—59 square miles.

Records Available—July 15 to September 30, 1942.

Maximum Discharge—Period 1942; 157 second feet July 18. Gage height 1.75 feet.

Accuracy—Records considered fair.

No diversions above station.

SLAKE RIVER AT DILLON, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at private bridge at Dillon, 100 yards upstream from mouth.

Drainage Area—92 square miles. Zero of gage is 8,820.54 feet above mean sea level, unadjusted.

Records Available—October 15, 1910 to September 30, 1919, December, 1929 to September 30, 1942.

Maximum discharge during period 1910-1919, 1929-1942; 1,200 second feet June 13, 1935, from rating curve extended above 500 second feet. Gage height 4.25 feet.

Maximum Discharge—Year 1941; 618 second feet June 24. Gage height 3.57 feet.

Maximum Discharge—Year 1942; 585 second feet June 11. Gage height 3.45 feet.

Accuracy—Records considered good except those for periods of ice effect November 5, 10-25, 27, December 12-22, 1940, January 1, 1941 to February 10, 27, 28, March 8-20, November 8-12, 19-28, 1941, December 5, 1941 to March 21, 1942, which were computed

on basis of discharge measurements and weather records, and are fair.

One diversion for power above station.

TENMILE CREEK NEAR FRISCO, COLORADO

Location—Water stage recorder in Sec. 34, T. 5 S., R. 78 W., 115 feet upstream from bridge on State Highway No. 6, $\frac{1}{2}$ mile west of Frisco. North Fork of Tenmile Creek enters 100 feet below bridge.

Drainage Area—79 square miles. Zero of gage is 9,099.32 feet above mean sea level, State Highway datum.

Records Available—July 17 to September 30, 1942.

Maximum discharge during year 1942; 117 second feet July 19. Gage height 1.76 feet.

Accuracy—Records considered fair.

A few small diversions for irrigation above station.

TENMILE CREEK AT DILLON, COLORADO

Location—Water stage recorder in Sec. 18, T. 5 S., R. 77 W., at Dillon, 250 feet downstream from highway bridge, and 200 yards upstream from mouth.

Drainage Area—113 square miles. Zero of gage is 8,817.97 feet above mean sea level, unadjusted.

Records Available—October 15, 1910 to September 30, 1919, April, 1930 to September 30, 1942.

Maximum discharge during period 1910-1919, 1930-1942; 2,010 second feet June 1, 1933, from rating curve extended above 1,000 second feet. Gage height 5.82 feet, site and datum then in use.

Maximum Discharge—Year 1941; 654 second feet May 17. Gage height 3.93 feet.

Maximum Discharge—Year 1942; 824 second feet May 26. Gage height 4.31 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 6, 1940 to March 27, 1941, and November 8, 1941 to April 18, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation and mining above station. Robinson Reservoir, capacity 2,520 acre-feet, partly regulates flow.

WILLOW CREEK NEAR DILLON, COLORADO

Location—Staff gage in Sec. 1, T. 5 S., R. 78 W., near highway bridge on State Highway No. 9, $\frac{1}{4}$ mile upstream from mouth, and $3\frac{1}{2}$ miles northwest of Dillon.

Drainage Area—13.5 square miles. Zero of gage is 8,691.59 feet above mean sea level.

Records Available—July 15 to September 30, 1942.

Maximum discharge during period, 12 second feet July 16, 1942. Gage height 1.24 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

ROCK CREEK NEAR DILLON, COLORADO

Location—Water stage recorder in Sec. 9, T. 4 S., R. 78 W., at bridge on State Highway No. 9, $\frac{1}{4}$ mile upstream from mouth and 9 miles northwest of Dillon.

Drainage Area—15.8 square miles. Zero of gage is 8,473.76 feet above mean sea level.

Records Available—July 16 to September 30, 1942.

Maximum discharge during period; 67 second feet July 18, 1942. Gage height 1.70 feet.

Accuracy—Records considered fair.

A few small diversions for irrigation above station.

BOULDER CREEK NEAR DILLON, COLORADO

Location—Water stage recorder in Sec. 4, T. 4 S., R. 78 W., at bridge on State Highway No. 9, 1,000 feet upstream from mouth at Boulder Creek Camp Ground, 10 miles northwest of Dillon.

Drainage Area—9.7 square miles. Zero of gage is 8,456.79 feet above mean sea level.

Records Available—July 18 to September 30, 1942.

Maximum discharge during period; 37 second feet July 18, 1942. Gage height 1.78 feet.

Accuracy—Records considered good.

Diversions for irrigation above station.

SLATE CREEK NEAR DILLON, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 19, T. 3 S., R. 78 W., 2,000 feet upstream from mouth, 1 mile southwest of Dillon.

Drainage Area—16.8 square miles. Zero of gage is 8,227.70 feet above mean sea level.

Records Available—July 18 to September 30, 1942.

Maximum discharge during period; 41 second feet July 18, 1942. Gage height 1.53 feet.

Accuracy—Records considered good.

Numerous diversions for irrigation above station.

BLACK CREEK BELOW BLACK LAKE NEAR DILLON,
COLORADO

Location—Water stage recorder in Sec. 8, T. 3 S., R. 79 W., $\frac{3}{4}$ mile downstream from Black Lake and 18 miles northwest of Dillon.

Drainage Area—12.0 square miles.

Records Available—July 17 to September 30, 1942.

Maximum discharge during period; 154 second feet July 18, 1942. Gage height 3.41 feet.

Accuracy—Records considered good.

No diversions above station.

ROARING FORK RIVER AT ASPEN, COLORADO

Location—Water stage recorder in Sec. 7, T. 10 S., R. 84 W., at bridge near old Power Plant in Aspen, $\frac{3}{4}$ mile upstream from Hunter Creek.

Drainage Area—109 square miles. Zero of gage is 7,886.28 feet above mean sea level, adjustment of 1912.

Records Available—January 1, 1911 to September 30, 1921; April 24, 1932 to September 30, 1942.

Maximum discharge during period 1911-1921, 1932-1942; 3,170 second feet June 18, 1917, from rating curve extended above 1,200 second feet. Gage height 7.2 feet, former site and datum.

Maximum Discharge—Year 1941; 775 second feet June 24, from rating curve extended above 650 second feet. Gage height 4.14 feet.

Maximum Discharge—Year 1942; 1,400 second feet June 12. Gage height 4.65 feet.

Accuracy—Records considered good except those for periods of ice effect November 11-19, 27-29, December 12, 1940 to February 12, 1941, and November 20, 1941 to March 23, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Transmountain diversion at point 15 miles upstream through Twin Lakes Tunnel to Arkansas River basin since May 24, 1935. See correction table published with discharge data for this station.

ROARING FORK RIVER AT GLENWOOD SPRINGS,
COLORADO

Location—Water stage recorder in Sec. 9, T. 6 S., R. 89 W., at Glenwood Springs 1,500 feet upstream from mouth.

Drainage Area—1,460 square miles. Zero of gage is 5,720.73 feet above mean sea level, adjustment of 1912.

Records Available—April, 1906 to September, 1909; September, 1910 to September 30, 1942.

Maximum discharge during period 1906-1909, 1910-1942; 17,600 second feet June 14, 1918, and June 14, 1921.

Maximum Discharge—Year 1941; 8,300 second feet May 14.
Gage height 5.64 feet.

Maximum Discharge—Year 1942; 8,690 second feet June 12.
Gage height 5.65 feet.

Accuracy—Records considered excellent, except those during periods of ice effect January 6-9, 16-25, February 19-23, 1942, which were computed on basis of two discharge measurements and weather records, and are fair.

Diversions for irrigation and transmountain diversions above station.

CRYSTAL RIVER NEAR REDSTONE, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 9, T. 9 S., R. 88 W., 75 feet downstream from Nettle Creek and 7 miles downstream from Redstone.

Drainage Area—197 square miles. Zero of gage is 6,485.07 feet above mean sea level, unadjusted.

Records Available—May 12, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; 4,400 second feet June 21, 1938, from rating curve extended above 2,200 second feet. Gage height 5.96 feet.

Maximum Discharge—Year 1941; 2,940 second feet May 13, from rating curve extended above 2,200 second feet. Gage height 4.85 feet.

Maximum Discharge—Year 1942; 2,690 second feet June 19.
Gage height 4.71 feet.

Accuracy—Records considered good except those for periods of ice effect December 15-18, 1940, January 4-8, 1941, January 6-8, 1942, February 17, which were computed on basis of weather records, and are fair.

Diversions for irrigation above station

FOURMILE CREEK NEAR CARBONDALE, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 36, T. 6 S., R. 90 W., 9.5 miles west of Carbondale.

Drainage Area—8.0 square miles.

Records Available—April 14 to September 30, 1942.

Accuracy—Records considered good.

No diversions above station.

WEST DIVIDE CREEK BELOW WILLOW CREEK NEAR RAVEN, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 14, T. 9 S., R. 91 W., at Weatherly Ranch, $\frac{1}{4}$ mile downstream from Willow Creek and 15 miles south of Raven.

Drainage Area—32.7 square miles.

Records Available—April 1, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 876 second feet May 13, from rating curve extended above 320 second feet. Gage height 3.27 feet.

Maximum Discharge—Year 1942; 580 second feet May 26. Gage height 3.00 feet.

Accuracy—Records considered good except those for periods of ice effect November 4, 1940, March 13, 1941 to April 12, November 21-24, 1941, which are fair.

Transmountain diversions into basin above station from Clear Fork of East Muddy Creek, Gunnison River basin, and from Thompson Creek (Roaring Fork basin).

RIFLE CREEK NEAR RIFLE, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 18, T. 5 S., R. 92 W., 1 mile downstream from West Rifle Creek and 6.2 miles northeast of Rifle.

Drainage Area—140 square miles.

Records Available—October, 1940 to September 30, 1942.

Maximum discharge during period 1940-1942; that of May 27, 1942.

Maximum Discharge—Year 1941; 180 second feet May 15. Gage height 2.10 feet.

Maximum Discharge—Year 1942; 346 second feet May 27. Gage height 2.98 feet.

Accuracy—Records considered fair for 1941 and good after installation of automatic recorder September, 1942. Stage-discharge relation affected by ice November 13-17, 23-30, December 14-18, 1940, January 26-29, February 3, 4, 8, 1941, November 22 to December 11, December 19-22, 25 to January 20, 1942, February 17-21.

Diversions for irrigation above station and some regulation at low flow by power plant on East Rifle Creek.

EAST FORK OF RIFLE CREEK NEAR RIFLE, COLORADO

Location—Water stage recorder in Sec. 22, T. 4 S., R. 92 W., just downstream from Rifle Falls, 7.2 miles upstream from mouth, and 12 miles northeast of Rifle.

Drainage Area—32 square miles.

Records Available—October, 1940 to September 30, 1942.

Maximum discharge during period 1940-1942; that of May 27, 1942.

Maximum Discharge—Year 1941; 131 second feet May 13. Gage height 2.12 feet.

Maximum Discharge—Year 1942; 168 second feet May 27. Gage height 2.32 feet.

Accuracy—Records considered good.

Several small diversions for irrigation above station. Flow regulated by power plant just above station.

PLATEAU CREEK AT UPPER STATION NEAR COLLBRAN, COLORADO

Location—Water stage recorder in Sec. 6, T. 10 S., R. 93 W., at Vega dam site, 8.5 miles southeast of Collbran.

Drainage Area—24.3 square miles.

Records Available—August 1, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 27, 1942, 450 second feet. Gage height 3.90 feet.

Accuracy—Records considered good except those during period of ice effect November 1-30, 1941, April 4-13, 1942, which are fair.

One diversion above station for irrigation.

PLATEAU CREEK NEAR COLLBRAN, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 24, T. 9 S., R. 94 W., 7 miles east of Collbran.

Drainage Area—88 square miles.

Records Available—August 20, 1921 to September 30, 1942.

Maximum discharge during period 1921-1942; 2,800 second feet May 28, 1922, from rating curve extended above 1,300 second feet. Gage height 6.72 feet, former datum.

Maximum Discharge—Year 1941; 1,520 second feet May 26, from rating curve extended above 1,100 second feet. Gage height 4.67 feet.

Maximum Discharge—Year 1942; 1,380 second feet May 27. Gage height 4.72 feet.

Accuracy—Records considered good except those during periods of ice effect November 1, 1940 to February 24, 1941, March 10, November 1, 9, 19, 1941 to March 18, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Five small diversions for irrigation above station.

PLATEAU CREEK NEAR CAMEO, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 18, T. 10 S., R. 97 W., 1.1 miles upstream from mouth, and 4 miles north-east of Cameo.

Drainage Area—604 square miles.

Records Available—April 26, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; that of May 27, 1942.

Maximum Discharge—Year 1941; 3,620 second feet May 14. Gage height 7.60 feet.

Maximum Discharge—Year 1942; 3,920 second feet May 27. Gage height 7.73 feet.

Accuracy—Records considered excellent except those for periods of ice effect December 20, 1940 to January 3, 1941; January 14, February 4, December 18, 1941 to March 20, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

BUZZARD CREEK NEAR HEIBERGER, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 13, T. 9 S., R. 93 W., 1.1 miles downstream from Hightower ranger station, and 3 miles east of Heiberger.

Drainage Area—76.5 square miles.

Records Available—April 29, 1936 to September 30, 1942. (Discontinued.)

Maximum discharge during period 1936-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 968 second feet May 13, from rating curve extended above 500 second feet. Gage height 5.05 feet.

Maximum Discharge—Year 1942; 932 second feet May 26. Gage height 4.76 feet.

Accuracy—Records considered good except those below 10 second feet, which are fair. Stage-discharge relation affected by ice November 11-19, 23-30, 1940, November 18, 23-26, December 3-12, 1941. Discharge computed on basis of records for station near Collbran during periods of no gage height record July 22 to August 8, 1941, and April 10 to May 5, 1942, which are fair.

One diversion to West Divide Creek for irrigation above station.

BUZZARD CREEK NEAR COLLBRAN, COLORADO

Location—Water stage recorder in Sec. 14, T. 9 S., R. 94 W., $\frac{1}{2}$ mile upstream from Brush Creek and 7 miles east of Collbran.

Drainage Area—139 square miles.

Records Available—August 18, 1921 to September 30, 1942.

Maximum discharge during period 1921-1942; that of May 14, 1941.

Maximum Discharge—Year 1941; 1,630 second feet May 14, from rating curve extended above 650 second feet. Gage height 7.80 feet.

Maximum Discharge—Year 1942; 1,400 second feet May 24.

from rating curve extended above 900 second feet. Gage height 7.07 feet.

Accuracy—Records considered good except those for periods of ice effect November 12, 13, 23, 24, 26, 27, December 12, 1940 to March 13, 1941, March 16 to 26, and April 5, 1941, and from November 28, 1941 to March 21, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

BIG CREEK BELOW BONHAM RESERVOIR NEAR COLLBRAN, COLORADO

Location—Water stage recorder and Cippoletti weir in SE $\frac{1}{4}$ Sec. 9, T. 11 S., R. 94 W., at outlet of Bonham Reservoir, just upstream from Atkinson Creek and 10 miles southeast of Collbran.

Drainage Area—6.1 square miles.

Records Available—May 17, 1941 to September 30, 1941.

Maximum discharge during period 1941; May 19. Discharge 46 second feet. Gage height 1.00 foot.

Accuracy—Records considered excellent.

Complete regulation by Bonham Reservoir, capacity 1,450 acre-feet.

COTTONWOOD CREEK NEAR MOLINA, COLORADO

Location—Staff gage in NW $\frac{1}{4}$ Sec. 29, T. 10 S., R. 95 W., 3 $\frac{1}{3}$ miles southeast of Molina.

Drainage Area—19.7 square miles.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 120 second feet May 26. Gage height 3.22 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

BULL CREEK NEAR MOLINA, COLORADO

Location—Staff gage in NE $\frac{1}{4}$ Sec. 6, T. 11 S., R. 95 W., 4 miles upstream from mouth and 4 miles south of Molina.

Drainage Area—9.7 square miles. Altitude of gage is 7,100 feet above mean sea level.

Records Available—April 1, 1941 to September 30, 1941.

Maximum Discharge—Year 1941; 100 second feet May 18, from rating curve extended above 71 second feet. Gage height 3.90 feet.

Accuracy—Records considered poor. Gage read twice daily. Many small diversions for irrigation above station.

BULL CREEK AT GOYN RANCH NEAR MOLINA, COLORADO

Location—Water stage recorder in Sec. 36, T. 10 S., R. 96 W., at Ronal Goyñ ranch about 4 miles south of Molina.

Drainage Area—11 square miles.

Records Available—May 4 to September 30, 1942.

Maximum Discharge—Year 1942: 160 second feet May 26, 1942.

Accuracy—Records considered fair.

Diversions for irrigation above station.

COON CREEK NEAR MESA, COLORADO

Location—Staff gage in NE $\frac{1}{4}$ Sec. 8, T. 11 S., R. 96 W., 3 miles south of Mesa.

Drainage Area—10.0 square miles. Altitude 6,910 feet above mean sea level.

Records Available—April 1, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 26, 1942.

Maximum Discharge—Year 1941: 37 second feet May 13, from rating curve extended above 17 second feet. Gage height 1.86 feet.

Maximum Discharge—Year 1942; 64 second feet May 26, from rating curve extended above 52 second feet. Gage height 2.12 feet.

Accuracy—Records considered fair. Gage read twice daily.

One small diversion for irrigation above station. Flow regulated by few small reservoirs on headwaters.

MESA CREEK NEAR MESA, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 16, T. 11 S., R. 96 W., 5 miles south of Mesa.

Records Available—April 1, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 12, 1941.

Maximum Discharge—Year 1941: 160 second feet May 12. Gage height 2.00 feet.

Maximum Discharge—Year 1942: 100 second feet May 26, from rating curve extended above 70 second feet. Gage height 1.66 feet.

Accuracy—Records considered good except those during periods of ice effect October 31, November 19, 1941, to March 23, 1942, computed on basis of one discharge measurement and weather records, and are fair.

Several reservoirs above, and many diversions below station,

TAYLOR RIVER BELOW TAYLOR PARK RESERVOIR, COLORADO

Location—Water stage recorder in Sec. 24, T. 14 S., R. 83 W., $\frac{1}{4}$ mile downstream from Taylor Park Reservoir Dam, and 16 miles northeast of Almont.

Drainage Area—155 square miles.

Records Available—October 1, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; that of June 19, 1942.

Maximum Discharge—Year 1941; 754 second feet September 11-14. Gage height 3.37 feet.

Maximum Discharge—Year 1942; 1,220 second feet June 19. Gage height 4.25 feet.

Accuracy—Records considered excellent except those for periods of no gage height record November 1, 1940 to May 29, 1941. November 15, 1941 to May 31, 1942. Discharge computed on basis of discharge measurements and records of release through needle valve from Taylor Park Reservoir, and are good. Flow regulated by Taylor Park Reservoir, capacity 106,000 acre-feet.

TAYLOR RIVER AT ALMONT, COLORADO

Location—Water stage recorder in Sec. 22, T. 51 N., R. 1 E., at highway bridge in Almont, 800 feet upstream from junction with East River.

Drainage Area—440 square miles. Zero of gage is 8,011.98 feet above mean sea level, adjustment of 1912.

Records Available—July 27, 1910 to September 30, 1942.

Maximum discharge during period 1910-1942; 3,760 second feet June 9, 1920, from rating curve extended above 2,300 second feet. Gage height 5.00 feet.

Maximum Discharge—Year 1941; 752 second feet September 5. Gage height 2.90 feet.

Maximum Discharge—Year 1942; 1,800 second feet June 13. Gage height 4.04 feet.

Accuracy—Records considered good except those for periods of ice effect November 12-17, 22-30, December 2-9, 12, 1940 to February 11, 1941, February 14, and November 14, 1941 to April 6, 1942, which were computed on basis of discharge measurements and weather records, and are fair. Flow is controlled by Taylor Park Reservoir above station, capacity 106,000 acre-feet.

Diversions for irrigation on tributaries above station.

GUNNISON RIVER AT IOLA, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 28, T. 49 N., R. 2 W., 1,000 feet upstream from highway bridge, 3,000 feet northwest of Iola. Station maintained 1900 to 1903, 1,000 feet downstream at different datum. Records comparable.

Drainage Area—2,490 square miles. Zero of gage is 7,436.48 feet above mean sea level.

Records Available—1900 to 1903, April 20, 1938 to September 30, 1942.

Maximum discharge during period 1900-1903, 1938-1942; 6,130 second feet June 18, 1909. Gage height 6.00 feet, site and datum then in use.

Maximum Discharge—Year 1941; 5,080 second feet May 14. Gage height 3.86 feet.

Maximum Discharge—Year 1942; 5,630 second feet June 8. Gage height 4.14 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 13, 1940 to March 24, 1941, December 3, 1941 to April 10, 1942, which were computed on basis of three discharge measurements, weather records, and comparison with records for station on Roaring Fork at Glenwood Springs, and are fair.

Diversions for storage and irrigation above station.

GUNNISON RIVER NEAR GRAND JUNCTION, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 35, T. 1 S., R. 1 W., Ute Meridian, $\frac{1}{2}$ mile downstream from diversion of Redlands Power Canal and 2 miles upstream from mouth.

Drainage Area—8,020 square miles.

Records Available—May, 1897 to September, 1899 (at site near mouth); April, 1917 to September, 1930; January, 1934, to September 30, 1942.

Maximum discharge during period 1917-1930, 1933-1942; 35,700 second feet May 23, 1920, from rating curve extended above 21,400 second feet. Gage height 14.95 feet.

Maximum Discharge—Year 1941; 27,500 second feet May 14. Gage height 12.45 feet.

Maximum Discharge—Year 1942; 21,900 second feet May 27. Gage height 11.17 feet.

Accuracy—Records considered excellent except those for periods August 10 to September 30, 1941, and January 4-24, 1942, which are fair.

Diversions for irrigation above station. Discharges recorded are combination of river discharge and power canal diversion.

EAST RIVER NEAR CRESTED BUTTE, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 5, T. 14 S., R. 85 W., at highway bridge, 1.2 miles downstream from Brush Creek and $4\frac{1}{2}$ miles east of Crested Butte.

Drainage Area—89.2 square miles.

Records Available—April, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of June 18, 1941.

Maximum Discharge—Year 1941; 1,020 second feet June 18. Gage height 2.80 feet.

Maximum Discharge—Year 1942; 975 second feet May 26. Gage height 2.55 feet.

Accuracy—Records considered good except for those of no gage height record May 1-12, 1941, October 1-15, 20, 21, November 9-30, 1941, and April 1-10, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Small diversions for irrigation above station.

EAST RIVER AT ALMONT, COLORADO

Location—Water stage recorder in Sec. 22, T. 51 N., R. 1 E., at Almont, 400 feet upstream from mouth.

Drainage Area—295 square miles. Zero of gage is 8,009.51 feet above mean sea level, adjustment of 1912.

Records Available—April to October, 1905; July, 1910 to April, 1922; October, 1934 to September 30, 1942.

Maximum discharge during period 1905, 1910-1922, 1934-1942; 6,500 second feet June 15, 1921, from rating curve extended above 3,000 second feet. Gage height 6.6 feet, site and datum then in use.

Maximum Discharge—Year 1941; 3,240 second feet May 14, from rating curve extended above 1,600 second feet. Gage height 4.70 feet.

Maximum Discharge—Year 1942; 2,380 second feet May 27. Gage height 4.28 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 13-17, 27, 28, December 14, 1940, to February 13, 1941, and November 13, 1941, to March 9, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for irrigation above station.

COAL CREEK NEAR CRESTED BUTTE, COLORADO

Location—Water stage recorder in Sec. 1, T. 14 S., R. 87 W., 0.4 mile west of Crested Butted on State Highway 135. Station is about 200 feet downhill from highway.

Drainage Area—8.5 square miles.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 207 second feet May 26. Gage height 2.93 feet.

Accuracy—Records considered good except those estimated October 1-6, 1941. No diversions above station.

SLATE RIVER NEAR CRESTED BUTTE, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 2, T. 14 S., R. 86 W., $\frac{1}{2}$ mile downstream from Coal Creek and 1 mile east of Crested Butte.

Drainage Area—69.0 square miles.

Records Available—April 18, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 1,240 second feet May 13. Gage height 3.98 feet.

Maximum Discharge—Year 1942; 1,180 second feet May 27. Gage height 3.97 feet.

Accuracy—Records considered good except those during periods of ice effect November 24, 1941 to April 10, 1942, which were computed on basis of three discharge measurements and weather records, and are fair. Discharge estimated on basis of two discharge measurements during period July 13 to August 1, 1942.

Diversions for irrigation above station.

CEMENT CREEK NEAR CRESTED BUTTE, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 13, T. 14 S., R. 85 W., near Pioneer Resort, $\frac{3}{4}$ mile upstream from Ward Gulch and 8 $\frac{1}{2}$ miles southeast of Crested Butte.

Drainage Area—27.7 square miles.

Records Available—November, 1910 to November, 1913, at site two miles downstream at different datum; April 18, 1941 to September 30, 1942.

Maximum discharge during period 1910-1913, 1941-1942; 330 second feet June 7, 1912, from rating curve extended above 270 second feet. Gage height 1.9 feet, site and datum then in use.

Maximum Discharge—Year 1942; 226 second feet June 3. Gage height 2.74 feet.

Accuracy—Records considered good except those for period of missing gage height records September 7 to October 17, 1941, and during periods of ice effect November 1, 1941 to April 11, 1942, which were computed on basis of five discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

OHIO CREEK NEAR BALDWIN, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 34, T. 15 S., R. 86 W., 800 feet downstream from Mill Creek and 5 $\frac{1}{2}$ miles southeast of Baldwin.

Drainage Area—124 square miles.

Records Available—April 15, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 940 second feet May 13, from rating curve extended above 700 second feet. Gage height 4.20 feet.

Maximum Discharge—Year 1942; 736 second feet May 27. Gage height 3.44 feet.

Accuracy—Records considered good except those during period of ice effect November 3, 1941 to April 13, 1942, which were computed on basis of five discharge measurements and weather records, and are fair.

Many small diversions for irrigation above station.

TOMICHI CREEK AT SARGENTS, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 21, T. 48 N., R. 5 E., $\frac{1}{2}$ mile downstream from Marshall Creek and $\frac{3}{4}$ mile south of Sargents. Station maintained from 1917 to 1922 at site 1,000 feet upstream at different datum.

Drainage Area—155 square miles.

Records Available—May, 1917 to September, 1922; April, 1938 to September 30, 1942.

Maximum discharge during period 1917-1922, 1938-1942; 792 second feet June 9, 1922, from rating curve extended above 600 second feet. Gage height 4.05 feet, site and datum then in use.

Maximum Discharge—Year 1941; 445 second feet May 14. Gage height 2.50 feet.

Maximum Discharge—Year 1942; 664 second feet May 27. Gage height 3.28 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 12, 1940 to April 3, 1941, November 9, 10, 12, 19, 1941 to April 12, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

TOMICHI CREEK AT GUNNISON, COLORADO

Location—Water stage recorder in Sec. 11, T. 49 N., R. 1 W., $\frac{1}{2}$ mile upstream from mouth and 1 mile south of Gunnison on road to airport.

Drainage Area—1,020 square miles.

Records Available—April 20, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; 1,530 second feet March 24, 1939, from rating curve extended above 1,000 second feet. Gage height 3.93 feet.

Maximum Discharge—Year 1941; 855 second feet May 16. Gage height 3.00 feet.

Maximum Discharge—Year 1942; 1,350 second feet May 28. Gage height 3.97 feet.

Accuracy—Records considered fair. Stage-discharge relation affected by ice November 12, 1940 to February 27, 1941, and November 24 to April 1, 1942.

Diversions for irrigation above station.

QUARTZ CREEK NEAR OHIO, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 27, T. 50 N., R. 3 E., $\frac{1}{2}$ mile downstream from Willow Creek and 1 mile southwest of Ohio.

Drainage Area—101 square miles.

Records Available—April 29, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; that of May 26, 1942.

Maximum Discharge—Year 1941; 370 second feet June 19. Gage height 2.31 feet.

Maximum Discharge—Year 1942; 640 second feet May 26. Gage height 2.90 feet.

Accuracy—Records considered good except those during periods of ice effect November 6-8, 1941, and November 18, 1941 to April 5, 1942, which were computed on basis of five discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

COCHETOPA CREEK NEAR PARLIN, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 28, T. 48 N., R. 2 E., at Timney Ranch, 1 mile downstream from Bead Creek and 8 miles southwest of Parlin.

Drainage Area—346 square miles. Zero of gage is 8,132.65 feet above mean sea level.

Records Available—April 1, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of April 15, 1942.

Maximum Discharge—Year 1941; 380 second feet June 26, from rating curve extended above 260 second feet. Gage height 4.20 feet.

Maximum Discharge—Year 1942; 448 second feet April 15. Gage height 4.30 feet.

Accuracy—Records considered good except those during periods of ice effect November 20, 27, 28, and December 1, 1941, to April 8, 1942, which were computed on basis of four discharge measurements and weather records, and those for period of missing gage heights September 22-30, which were estimated, and are fair.

Diversions for irrigation above station.

CEBOLLA CREEK AT POWDERHORN, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 29, T. 47 N., R. 2 W., 250 feet downstream from Powderhorn Creek and $\frac{1}{2}$ mile north of Powderhorn.

Drainage Area—334 square miles.

Records Available—April 21, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; that of June 7, 1942.

Maximum Discharge—Year 1941; 1,070 second feet May 13, from rating curve extended above 700 second feet. Gage height 2.47 feet.

Maximum Discharge—Year 1942; 1,110 second feet June 7, from rating curve extended above 700 second feet. Gage height 2.39 feet.

Accuracy—Records considered good except those for periods of ice effect November 10, 1940 to April 20, 1941, and November 18, 1941 to April 29, 1942, and those for period of missing gage heights May 2-5, 1941, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

STEBUBEN CREEK AT ELKHORN, COLORADO

Location—Staff gage in NE $\frac{1}{4}$ Sec. 22, T. 49 N., R. 2 W., $\frac{1}{4}$ mile upstream from mouth and 0.3 mile north of Elkhorn.

Drainage Area—26.5 square miles. Zero of gage is 7,498.41 feet above mean sea level, adjustment of 1912.

Records Available—April 1 to September 30, 1942.

Maximum discharge during period; 76 second feet June 11, 1942. Gage height 1.45 feet.

Accuracy—Records considered fair. Gage read twice daily.

Diversions for irrigation above station.

NORTH BEAVER CREEK AT HIERRO, COLORADO

Location—Staff gage in NW $\frac{1}{4}$ Sec. 24, T. 49 N., R. 2 W., at Welch Fountain Resort, 500 feet upstream from mouth, at Hierro.

Drainage Area—35.7 square miles.

Records Available—April 10 to September 30, 1942.

Maximum discharge period 1942; 124 second feet June 12. Gage height 2.62 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

LAKE FORK RIVER AT GATEVIEW, COLORADO

Location—Water stage recorder in Sec. 29, T. 47 N., R. 3 W., at Carr Ranch (Old Gateview postoffice) $\frac{1}{4}$ mile upstream

from Indian Creek and approximately 15 miles upstream from mouth.

Drainage Area—324 square miles. Zero of gage is 7,833.02 feet above mean sea level, unadjusted.

Records Available—April 24, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; 2,620 second feet June 21, 1938, from rating curve extended above 1,800 second feet. Gage height 5.00 feet.

Maximum Discharge—Year 1941; 2,500 second feet June 24, from rating curve extended above 1,800 second feet. Gage height 3.61 feet.

Maximum Discharge—Year 1942; 2,080 second feet June 8, from rating curve extended above 1,800 second feet. Gage height 3.26 feet.

Accuracy—Records considered good except those for periods of ice effect November 14, 1940 to April 5, 1941, November 24, 1941 to April 7, 1942, which were computed on the basis of three discharge measurements respectively, and weather records. Discharge for periods of no gage-height record September 15-21, 1941, and July 9-21, 1942, computed on basis of record for Gunnison River near Iola, and are fair.

Diversions for irrigation above station.

SMITH FORK NEAR CRAWFORD, COLORADO

Location—Water stage recorder in Sec. 24, T. 15 S., R. 91 W., just upstream from Second Creek, 6 miles northeast of Crawford.

Drainage Area—42.3 square miles. Altitude 7,200 feet above mean sea level.

Records Available—February 7, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 513 second feet May 13, from rating curve extended above 430 second feet. Gage height 3.80 feet.

Maximum Discharge—Year 1942; 489 second feet May 22. Gage height 3.55 feet.

Accuracy—Records considered fair. Discharge during period of back water from beaver dam September 20, 1941 to November 11, computed on basis of records for Anthracite Creek near Floresta. Those during period of ice effect November 12, 1941 to May 3, 1942, computed on basis of three discharge measurements and weather records.

There are a few small diversions for irrigation above station.

EAST MUDDY CREEK NEAR BARDINE, COLORADO

Location—Water stage recorder in Sec. 17, T. 12 S., R. 89 W., ¼ mile downstream from Spring Creek and 6½ miles above Bardine.

Drainage Area—136 square miles.

Records Available—May 18, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 2,190 second feet May 13, from rating curve extended above 800 second feet. Gage height 3.41 feet.

Maximum Discharge—Year 1942; 1,130 second feet May 23, from rating curve extended above 800 second feet. Gage height 2.34 feet.

Accuracy—Records considered excellent except those for periods of ice effect March 1, 1940 to April 14, 1941, November 13, 1941 to April 10, 1942, which were computed on basis of discharge measurements and weather records, and are fair. Same applies to period of no gage-height record April 22-24, May 6-14, 1942.

Diversions for irrigation above station.

NORTH FORK OF GUNNISON RIVER NEAR SOMERSET, COLORADO

Location—Water stage recorder in Sec. 10, T. 13 S., R. 90 W., 2 miles east of Somerset.

Drainage Area—521 square miles.

Records Available—March 30, 1934 to September 30, 1942.

Maximum discharge during period 1934-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 5,850 second feet May 13, from rating curve extended above 3,200 second feet. Gage height 3.60 feet.

Maximum Discharge—Year 1942; 4,620 second feet May 27, from rating curve extended above 3,200 second feet. Gage height 5.43 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 14, 1940 to January 11, 1941, November 22, 24-28, and December 7-18, 24-31, 1941, January 5-25, 1942. January 31-February 3, 17-22, which were computed on basis of two discharge measurements, weather records and by comparison with records of Roaring Fork at Glenwood Springs, and are fair.

Diversions for irrigation above station.

ANTHRACITE CREEK NEAR FLORESTA, COLORADO

Location—Water stage recorder in Sec. 6, T. 14 S., R. 87 W., at Horse Ranch, 1 mile below Bracken Creek, 2 miles west of old Floresta and 9 miles west of Crested Butte.

Drainage Area—17.5 square miles.

Records Available—May 17, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 26, 1942.

Maximum Discharge—Year 1941; 488 second feet June 18, from rating curve extended above 290 second feet. Gage height 4.46 feet.

Maximum Discharge—Year 1942; 536 second feet May 26, from rating curve extended above 290 second feet. Gage height 4.62 feet.

Accuracy—Records considered good.

One small transmountain diversion to Coal Creek above station.

COW CREEK BELOW OVERLAND RESERVOIR NEAR BOWIE, COLORADO

Location—Water stage recorder in Sec. 14, T. 11 S., R. 92 W., 13 miles northwest of Bowie.

Drainage Area—9.7 square miles.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 153 second feet June 11.

Accuracy—Records considered good.

No diversions above station, but flow is regulated by Overland Reservoir, capacity 2,660 acre-feet.

MINNESOTA CREEK NEAR PAONIA, COLORADO

Location—Water stage recorder in Sec. 1, T. 14 S., R. 91 W., 6 miles east of Paonia on Minnesota Creek road.

Drainage Area—41.3 square miles.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; not determined.

Accuracy—Records considered good except those for period of ice effect November 12, 1941 to March 29, 1942, which were computed on basis of two discharge measurements and weather records. During periods of no gage-height record April 30 to May 8, June 13 to July 14, September 9, 13, discharge computed on basis of records for station on North Fork of Gunnison near Somerset.

Diversions for irrigation and storage above station.

EAST FORK OF MINNESOTA CREEK NEAR PAONIA, COLORADO

Location—Water stage recorder in Sec. 21, T. 14 S., R. 90 W., just downstream from Horse Creek and 12 miles southeast of Paonia.

Drainage Area—6.6 square miles.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 144 second feet May 22. Gage height 2.68 feet.

Accuracy—Records considered fair. During period no gage-height record August 26 to September 16, discharge computed on basis of records for Minnesota Creek near Paonia.

No diversions above station.

LEROUX CREEK NEAR CEDAREEDGE, COLORADO

Location—Water stage recorder in Sec. 16, T. 13 S., R. 93 W., 200 feet upstream from headgate of Overland ditch and 7.2 miles northeast of Cedaredge.

Drainage Area—43.0 square miles.

Records Available—October, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; that of May 26, 1942.

Maximum Discharge—Year 1941; 1,240 second feet May 13, from rating curve extended above 550 second feet. Gage height 5.02 feet.

Maximum Discharge—Year 1942; 1,310 second feet May 26, from rating curve extended above 650 second feet. Gage height 4.95 feet.

Accuracy—Records considered excellent except those for period of ice effect November 11-17, 1940, and those during period no gage-height record August 6-8, 1941, which are fair.

One small diversion and several small reservoirs above station.

LEROUX CREEK NEAR HOTCHKISS, COLORADO

Location—Water stage recorder in Sec. 22, T. 14 S., R. 93 W., about 400 feet from Peterson, Carr and Barrow ditch diversion, 3½ miles northwest of Hotchkiss.

Drainage Area—64 square miles.

Records Available—April 5 to September 30, 1942.

Maximum discharge period 1942; 534 second feet May 26, Gage height 5.06 feet.

Accuracy—Records considered fair.

Many diversions for irrigation above station.

CURRENT CREEK NEAR ECKERT, COLORADO

Location—Water stage recorder in NE¼ Sec. 16, T. 14 S., R. 94 W., 150 feet downstream from Transfer diversion and 3 miles east of Eckert.

Drainage Area—37.7 square miles.

Records Available—November 26, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 130 second feet April 15, from rating curve extended above 60 second feet. Gage height 2.80 feet.

Accuracy—Records considered fair. Stage-relation affected by ice January 2-6, and period of no gage-height record, February 15 to March 6, computed on basis of weather records.

Diversions for irrigation and storage above station.

SURFACE CREEK BELOW PARK RESERVOIR NEAR GRAND MESA, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 2, T. 12 S., R. 94 W., $\frac{1}{4}$ mile downstream from outlet of Park Reservoir and $4\frac{1}{2}$ miles east of Grand Mesa.

Drainage Area—7.8 square miles.

Records Available—June, 1941 to September 30, 1941.

Maximum discharge during period; 99 second feet June 7, 1941, from rating curve extended above 70 second feet. Gage height 2.92 feet.

Accuracy—Records considered excellent except those for period of no gage-height record September 3-30, which are good.

No diversions for irrigation above station. Flow regulated by Park Reservoir, capacity 2,655 acre-feet.

SURFACE CREEK NEAR CEDAREEDGE, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 12, T. 12 S., R. 94 W., $\frac{1}{2}$ mile east of highway at Buzzard Ranch, 1 mile downstream from Caesar Creek, and $8\frac{1}{2}$ miles east of Cedaredge.

Drainage Area—28.5 square miles.

Records Available—June 20, 1939 to September 30, 1942.

Maximum discharge during period 1939-1942; that of May 12, 1941.

Maximum Discharge—Year 1941; 578 second feet May 12, from rating curve extended above 300 second feet. Gage height 3.62 feet.

Maximum Discharge—Year 1942; 432 second feet October 13. Gage height 3.26 feet.

Accuracy—Records considered good except those for period of no gage-height record May 4-9, 1941, which are fair.

Diversions for storage above station.

SURFACE CREEK AT CEDAREEDGE, COLORADO

Location—Water stage recorder and concrete control in Sec. 20, T. 13 S., R. 94 W., at Cedaredge.

Drainage Area—43 square miles.

Records Available—May 16, 1917 to September 30, 1942.

Maximum discharge during period 1917-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 1,190 second feet May 13,

from rating curve extended above 640 second feet. Gage height 2.50 feet.

Maximum Discharge—Year 1942; 326 second feet May 4. Gage height 1.43 feet.

Accuracy—Records considered good except those for periods of ice effect November 11, 1940 to February 23, 1941, November 13, 1941 to April 3, 1942, which were computed on basis of two and four discharge measurements respectively, and weather records, and are fair.

Diversions for storage and irrigation above station. Flow regulated by numerous reservoirs. Water brought into Surface Creek basin from adjacent streams.

WARD CREEK, BELOW DEEP SLOUGH RESERVOIR, NEAR GRAND MESA, COLORADO

Location—Water stage recorder in Sec. 3, T. 12 S., R. 95 W., 150 feet downstream from outlet.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 20 second feet July 29 to August 4, controlled flow. Gage height 1.29 feet.

Accuracy—Records considered good. Flow controlled by Deep Slough Reservoir, capacity 500 acre-feet.

WARD CREEK NEAR CEDAREEDGE, COLORADO

Location—Staff gage in NE $\frac{1}{4}$ Sec. 14, T. 13 S., R. 95 W., 100 feet downstream from Sandstone Ditch diversion and $3\frac{1}{2}$ miles northwest of Cedareedge.

Drainage Area—19.0 square miles.

Records Available—April 1 to September 30, 1942.

Maximum discharge during period; 90 second feet April 12. Gage height 2.10 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

KISER CREEK BELOW EGGLESTON RESERVOIR AT GRAND MESA, COLORADO

Location—Water stage recorder in Sec. 6, T. 12 S., R. 94 W., $\frac{1}{3}$ mile southeast of Grand Mesa on Colorado Highway No. 65, about 400 feet downstream from Forest Service sign, "Saddle Horse for Rent."

Drainage Area—1.7 square miles.

Records Available—October 1, 1941 to September 30, 1942.

Maximum Discharge—Year 1942; 42 second feet August 26. Gage height 1.28 feet.

Accuracy—Records considered good. Flow regulated by Eggleston Reservoir; capacity 2,550 acre-feet.

KISER CREEK NEAR CEDAREDDGE, COLORADO

Location—Staff gage in SE $\frac{1}{4}$ Sec. 12, T. 13 S., R. 95 W., at States (Top) coal mine, 400 feet upstream from mouth of Cottonwood Creek and about 3 miles northeast of Cedaredge.

Drainage Area—12.9 square miles.

Records Available—April 1 to September 30, 1942.

Maximum discharge during period; 31 second feet April 14. Gage height 5.36 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

COTTONWOOD CREEK NEAR CEDAREDDGE, COLORADO

Location—Staff gage in SE $\frac{1}{4}$ Sec. 6, T. 13 S., R. 95 W., at States coal mine about 4 miles southwest of Cedaredge.

Drainage Area—5.0 square miles.

Records Available—April 1 to September 30, 1942.

Maximum discharge during period; 44 second feet May 26. Gage height 5.76 feet.

Accuracy—Records considered fair. Staff gage read twice daily.

YOUNGS CREEK NEAR CEDAREDDGE, COLORADO

Location—Staff gage in SW $\frac{1}{4}$ Sec. 18, T. 13 S., R. 94 W., at K. F. Brandt Ranch, about 3 miles northwest of Cedaredge.

Drainage Area—19 square miles.

Records Available—April 1 to September 30, 1942.

Maximum Discharge—Year 1942; 65 second feet April 14. Gage height 5.80 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station and flow regulated by several small reservoirs.

UNCOMPAHGRE RIVER AT COLONA, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 17, T. 47 N. R. 8 W., $\frac{1}{4}$ mile east of Colona at county bridge.

Drainage Area—437 square miles. Zero of gage is 6,321.80 feet above mean sea level, adjustment of 1929.

Records Available—April, 1917 to September 30, 1942. From 1917 to November, 1934, at site three miles upstream. Records practically equivalent.

Maximum discharge during period 1917-1942; 4,080 second feet June 13, 14, 1921.

Maximum Discharge—Year 1941; 2,540 second feet June 23, from rating curve extended above 1,800 second feet. Gage height 3.50 feet.

Maximum Discharge—Year 1942: 2,490 second feet June 7, from rating curve extended above 1,900 second feet. Gage height 3.35 feet.

Accuracy—Records considered good except those for periods of ice effect December 15-24, 1940, and January 3-13, 19-21, 27, 28, November 27, 1941 to February 27, 1942, which were computed on basis of discharge measurements, weather records, and are fair. Discharge estimated during period of no gage-height March 9-14, 1941.

Diversions for irrigation above station.

UNCOMPAGRE RIVER AT DELTA, COLORADO

Location—Chain gage in SW $\frac{1}{4}$ Sec. 13, T. 15 S., R. 96 W., at west edge of Delta, 1 $\frac{1}{4}$ miles upstream from mouth. Prior to May 5, 1941, water stage recorder at site 80 feet downstream at same datum. Flood destroyed same.

Drainage Area—1,110 square miles. Zero of gage is 4,929.82 feet above mean sea level, adjustment of 1929.

Records Available—April, 1903 to November, 1908; April, 1911, to 1913; 1915 to 1931; September 1, 1938 to September 30, 1942.

Maximum discharge during period 1903-1931, 1938-1942; that of May 5, 1941.

Maximum Discharge—Year 1941; 3,730 second feet May 5, from rating curve extended above 1,900 second feet. Gage height 5.90 feet.

Maximum Discharge—Year 1942; 2,420 second feet April 23. Gage height 4.38 feet.

Accuracy—Records considered good October 1, 1940 to May 4, 1941, and fair during rest of period. Chain gage read twice daily since May 9, 1941.

Diversions for irrigation above station.

ROUBIDEAU CREEK NEAR DELTA, COLORADO

Location—Water stage recorder in Sec. 7, T. 51 N., R. 11 W., 600 feet upstream from Buttermilk Creek and 5 $\frac{1}{2}$ miles southwest of Delta.

Drainage Area—165 square miles.

Records Available—March 28, 1939 to September 30, 1941. (Discontinued.)

Maximum discharge during period 1939-1941; that of May 12, 1941.

Maximum Discharge—Year 1941; 1,760 second feet May 12, from rating curve extended above 1,200 second feet. Gage height 5.25 feet.

Accuracy—Records considered good except those for period of ice effect January 3-11, 1941, which are fair.

Diversions for irrigation above station.

ROUBIDEAU CREEK AT MOUTH NEAR DELTA, COLORADO

Location—Water stage recorder in Sec. 19, T. 15 S., R. 96 W., $\frac{1}{2}$ mile upstream from mouth and 5 miles west of Delta.

Drainage Area—245 square miles.

Records Available—March 23, 1939 to September 30, 1942.

Maximum discharge during period 1939-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 2,180 second feet May 13, from rating curve extended above 1,200 second feet. Gage height 6.40 feet.

Maximum Discharge—Year 1942; 2,000 second feet April 23, from rating curve extended above 1,200 second feet. Gage height 6.40 feet.

Accuracy—Records considered good except those for periods of no gage-height May 5-15, 1941, January 3-9, February 18-22, 1942, which are fair.

Diversions for irrigation above station.

KANNAH CREEK NEAR WHITEWATER, COLORADO

Location—Water stage recorder at concrete control in Sec. 34, T. 12 S., R. 97 W., $\frac{1}{4}$ mile downstream from intake pipeline for Grand Junction water supply and 17 miles east of Whitewater. Prior to October 14, 1935, station located at site 300 feet upstream.

Drainage Area—55.0 square miles.

Records Available—October 15, 1917 to September 30, 1921; August 17, 1922 to September 30, 1942. Flow diverted by pipeline not included in records since 1930. Maximum discharges only are for combined flow of stream and pipeline.

Maximum discharge during period 1917-1921, 1922-1942; 1,630 second feet June 6, 1921, from rating curve extended above 700 second feet. Gage height 4.5 feet, site and datum then in use.

Maximum Discharge—Year 1941, 517 second feet June 7.

Maximum Discharge—Year 1942; 726 second feet May 26. Gage height 2.40 feet.

Accuracy—Records considered excellent above 15 second feet and good below, except those for periods of ice effect November 11-17, 24-30, December 13, 1940 to January 28, 1941, November 6, 1941 to March 30, 1942, which were computed on basis of discharge measurements, weather records, and are fair.

Diversions for storage and domestic use above station. Flow regulated by small reservoirs above station.

DOLORES RIVER AT DOLORES, COLORADO

Location—Water stage recorder in Sec. 9, T. 37 N., R. 15 W., at Dolores, 200 feet upstream from highway bridge and $\frac{1}{4}$ mile upstream from Lost Canyon Creek.

Drainage Area—556 square miles, revised October 16, 1941. Zero of gage is 6,924.94 feet above mean sea level.

Records Available—June, 1895 to October, 1903; November, 1910 to November, 1912; April, 1922 to September 30, 1942. Prior to December 6, 1912, station maintained just downstream from Lost Canyon Creek.

Maximum discharge during period 1890-1903, 1910-1912, 1922-1942; 10,000 second feet October 5, 1911, from rating curve extended above 2,800 second feet. Gage height 10.20 feet, former site and datum.

Maximum Discharge—Year 1941; 8,070 second feet May 14, from rating curve extended above 5,300 second feet. Gage height 7.72 feet.

Maximum Discharge—Year 1942; 4,780 second feet May 27. Gage height 6.39 feet.

Accuracy—Records considered good except those for periods of ice effect November 29, 1940 to February 21, 1941, December 4-8, December 26, 1941 to March 31, 1942, which were computed on basis of discharge measurements, temperature records and comparison with record at McPhee, and are fair.

Diversions for irrigation above station.

DOLORES RIVER NEAR MCPHEE, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 12, T. 38 N., R. 16 W., 0.8 mile downstream from Beaver Creek and $\frac{4}{2}$ miles northwest of McPhee.

Drainage Area—793 square miles (revised in 1941). Zero of gage is 6,666.45 feet above mean sea level, unadjusted.

Records Available—October 1, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; that of October 13, 1942.

Maximum Discharge—Year 1941; 8,430 second feet May 14, from rating curve extended above 5,900 second feet. Gage height 7.48 feet.

Maximum Discharge—Year 1942; 8,650 second feet October 13. Gage height 7.58 feet.

Accuracy—Records considered excellent except those for periods of ice effect December 15, 1940 to February 21, 1941, and January 1, 1942 to March 22, which were computed on basis of three discharge measurements each, weather records and comparison with upper station, and are fair.

Diversions for irrigation above station, and three small diver-

sions below station. Montezuma Irrigation District diverts water from basin for irrigation and storage just downstream from station at Dolores.

DOLORES RIVER AT GATEWAY, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 15, T. 51 N., R. 19 W., 0.3 mile northwest (revised) of Gateway, 0.3 mile downstream from West Creek, and 8 miles upstream from Colorado-Utah State line.

Drainage Area—4,350 square miles. Zero of gage is 4,547.44 feet above mean sea level, unadjusted.

Records Available—March, 1937 to September 30, 1942.

Maximum discharge during period 1937-1942; that of May 14, 1941.

Maximum Discharge—Year 1941; 15,400 second feet May 14. Gage height 12.85 feet.

Maximum Discharge—Year 1942; 13,700 second feet April 15, Gage height 10.70 feet.

Accuracy—Records considered fair.

Diversions for irrigation above and below station.

WEST FORK DOLORES RIVER AT DUNTON, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 5, T. 40 N., R. 11 W., 1.3 miles southwest of Dunton.

Drainage Area—39.4 square miles.

Records Available—June 4, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 26, 1942.

Maximum Discharge—Year 1941; 380 second feet June 24. Gage height 1.68 feet.

Maximum Discharge—Year 1942; 705 second feet May 26, from rating curve extended above 300 second feet. Gage height 2.20 feet.

Accuracy—Records considered fair. During period missing gage heights July 27 to August 11, 1941, discharge computed on basis of record for station near Stoner.

Diversions for irrigation below station.

WEST FORK OF DOLORES RIVER NEAR STONER, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 18, T. 39 N., R. 13 W., $\frac{3}{4}$ mile downstream from Cottonwood Creek, 4 miles north of Stoner and 4 $\frac{1}{2}$ miles upstream from mouth.

Drainage Area—160 square miles.

Records Available—March 18, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 2,790 second feet May 13, from rating curve extended above 1,220 second feet.

Maximum Discharge—Year 1942; 1,630 second feet May 27. Gage height 3.65 feet.

Accuracy—Records considered fair. Record for period of ice effect December 6, 1941 to March 29, 1942, computed on basis of three discharge measurements and weather reports.

Diversions for storage and irrigation above station. Flow regulated by Ground Hog Reservoir, capacity 21,710 acre-feet.

LOST CANYON CREEK AT DOLORES, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 16, T. 37 N., R. 15 W., $\frac{3}{4}$ mile south of the center of Dolores, and $\frac{3}{4}$ mile upstream from mouth on Colorado Highway No. 184.

Drainage Area—81 square miles. Zero of gage is 7,012.59 feet above mean sea level.

Records Available—1922 to 1927; 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; 1,590 second feet October 14, 1941, from rating curve extended above 184 second feet. Gage height 4.97 feet, site and datum now in use.

Accuracy—Records considered fair.

Diversions for irrigation and storage above station.

DISAPPOINTMENT CREEK AT UPPER STATION NEAR CEDAR, COLORADO

Location—Staff gage in Sec. 33, T. 42 N., R. 14 W., 2 miles downstream from Morrison Creek and 14 $\frac{1}{2}$ miles southeast of Cedar.

Drainage Area—69 square miles.

Records Available—October, 1940 to September 30, 1942.

Maximum discharge during period 1940-1942; April 12, 22, 1942.

Maximum Discharge—Year 1941; 404 second feet May 6, from rating table extended above 200 second feet. Gage height 3.40 feet.

Maximum Discharge—Year 1942; 646 second feet April 12 and 22, from rating table extended above 200 second feet. Gage height 4.52 feet.

Accuracy—Records considered poor. Staff gage read twice daily.

Diversions for irrigation above station.

DISAPPOINTMENT CREEK NEAR CEDAR, COLORADO

Location—Staff gage in Sec. 16, T. 42 N., R. 16 W., at highway bridge $2\frac{1}{2}$ miles southeast of Cedar, and 3 miles upstream from Dawson Draw.

Drainage Area—180 square miles.

Records Available—October 30, 1940 to September 30, 1941.

Maximum discharge during period; 1,270 second feet September 26 by computation of flow over dam. Gage height 7.26 feet.

Accuracy—Records considered poor. Staff gage read twice daily.

Diversions for irrigation above station.

SAN MIGUEL RIVER NEAR PLACERVILLE, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 30, T. 44 N., R. 11 W., 3 miles downstream from Placerville, and 100 feet downstream from Specie Creek.

Drainage Area—308 square miles.

Records Available—1910-1912, 1930-1934, March 30 to September 30, 1942.

Maximum Discharge—Year 1942; not determined.

Accuracy—Records considered good.

Many small diversions for irrigation above station. Flow slightly regulated by reservoirs of Western Colorado Power Company which release flow during winter.

SAN MIGUEL RIVER AT NATURITA, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 19, T. 46 N., R. 15 W., at highway bridge in Naturita, 1.2 miles downstream from Naturita Creek.

Drainage Area—1,080 square miles. Zero of gage is 5,392.85 feet above mean sea level, datum of 1929.

Records Available—October, 1917 to September, 1929; October, 1940 to September 30, 1942.

Maximum discharge during period 1917-1929, 1940-1942; that of April 15, 1942.

Maximum Discharge—Year 1941; 6,520 second feet May 4, from rating curve extended above 3,700 second feet. Gage height 8.40 feet.

Maximum Discharge—Year 1942; 7,100 second feet April 15, from rating curve extended above 3,700 second feet. Gage height 9.80 feet.

Accuracy—Records considered fair except those for periods of ice effect December 14, 1940, February 7, 1941, which are poor.

Diversions for irrigation above station.

COTTONWOOD CREEK NEAR NUCLA, COLORADO

Location—Water stage recorder in Sec. 1, T. 46 N., R. 14 W., 10 miles east of Nucla on State Highway 90.

Drainage Area—43 square miles.

Records Available—May 6 to September 30, 1942.

Maximum discharge during period; 118 second feet May 9, 1942. Gage height 2.55 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

Discharge of Colorado River Near Grand Lake, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	80	29	21	17	14	15	20	189	307	150	27	22
2.....	66	31	21	18	14	14	21	224	294	154	27	26
3.....	57	26	20	16	14	14	20	238	296	124	27	23
4.....	50	31	20	16	14	14	20	266	296	107	27	22
5.....	48	33	19	16	14	14	22	266	291	104	26	21
6.....	57	35	19	14	13	14	20	217	273	98	31	22
7.....	53	36	19	14	14	16	21	130	262	86	30	24
8.....	44	34	19	13	14	15	21	120	310	81	34	43
9.....	44	*35	19	14	13	14	21	228	275	77	32	48
10.....	47	34	19	15	13	16	22	308	262	71	36	50
11.....	43	30	19	14	*13	16	23	378	245	65	35	51
12.....	40	26	18	14	13	16	24	424	221	65	36	49
13.....	37	26	18	14	13	14	28	504	233	66	38	45
14.....	36	18	18	14	13	14	24	532	233	65	31	54
15.....	34	20	18	15	13	14	28	462	240	60	30	52
16.....	33	22	19	15	13	14	36	381	257	52	36	46
17.....	31	28	16	14	13	14	28	384	286	49	46	41
18.....	31	28	16	14	14	14	25	424	310	47	61	40
19.....	35	26	16	14	14	15	31	384	338	47	47	37
20.....	33	25	16	14	14	15	23	354	349	49	40	32
21.....	32	24	17	15	14	16	28	321	338	47	35	31
22.....	32	24	17	15	14	16	23	349	315	40	35	32
23.....	30	23	16	*16	14	16	29	335	310	35	36	40
24.....	31	22	16	16	14	17	35	354	288	29	33	41
25.....	31	21	17	15	14	*18	51	357	273	27	35	42
26.....	30	20	17	15	16	17	56	366	255	32	38	44
27.....	30	20	16	14	16	18	68	360	230	29	32	40
28.....	32	20	16	14	16	18	92	321	213	27	27	38
29.....	31	21	16	15	....	18	122	307	186	27	25	35
30.....	33	21	16	14	....	19	157	294	160	27	24	38
31.....	31	....	16	14	....	20	....	307	....	27	22	....
Total	1240	789	550	458	388	485	1139	10084	8146	1964	1039	1129
Mean.	40.0	26.3	17.7	14.8	13.9	15.6	38.0	325	272	63.4	33.5	37.6
Max.	80	36	21	18	16	20	157	532	349	154	61	54
Min.	30	18	16	13	13	14	20	120	160	27	22	21
Acre-ft.	2460	1560	1090	908	770	962	2260	20000	16160	3900	2060	2240

Total run-off for water year=54,370 acre-feet.

Discharge of Colorado River Near Grand Lake, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	39	24	26	23	19	13	19	61	350	125	22	21
2.....	36	21	25	23	19	13	20	64	360	96	24	20
3.....	36	23	24	22	19	13	23	62	340	81	24	20
4.....	35	26	24	21	20	13	27	56	371	73	22	20
5.....	36	30	24	20	20	14	34	60	364	69	22	21
6.....	34	28	24	20	20	14	38	61	385	67	21	22
7.....	33	25	24	20	20	14	48	64	427	66	20	21
8.....	35	23	25	21	20	14	54	68	427	65	18	21
9.....	36	24	25	22	19	14	60	74	402	62	17	20
10.....	35	26	26	22	18	14	76	80	388	65	17	19
11.....	32	25	26	22	18	14	100	100	406	63	17	20
12.....	32	25	25	22	17	14	94	125	434	51	17	22
13.....	36	28	25	22	17	14	90	120	392	45	20	22
14.....	58	27	25	*22	16	14	96	105	322	42	18	21
15.....	43	26	25	21	14	14	97	96	273	41	17	19
16.....	35	27	25	21	13	14	86	94	259	49	15	19
17.....	33	27	25	20	13	15	92	100	294	48	15	18
18.....	32	26	25	19	*12	14	84	98	326	65	17	18
19.....	30	25	25	19	12	14	76	92	308	52	17	19
20.....	29	23	25	19	13	15	76	94	294	44	16	21
21.....	28	22	24	20	13	15	84	97	270	39	15	21
22.....	28	21	24	21	13	15	85	110	217	34	16	20
23.....	28	21	24	21	12	15	94	150	217	32	16	19
24.....	28	22	23	21	13	16	88	180	182	30	16	18
25.....	29	23	23	22	13	16	80	228	172	29	16	18
26.....	31	25	23	21	13	16	74	329	157	27	17	18
27.....	31	*26	22	21	13	16	68	430	148	26	19	18
28.....	33	26	22	20	13	17	62	357	116	26	17	19
29.....	31	27	22	20	....	17	58	357	94	26	19	17
30.....	29	26	23	19	....	18	62	368	89	28	21	16
31.....	30	....	23	19	....	18	....	364	....	23	21	....
Total	1041	748	751	646	442	457	2045	4644	8784	1587	569	588
Mean.	33.6	24.9	24.2	20.8	15.8	14.7	68.2	150	293	51.2	18.4	19.6
Max.	58	30	26	23	20	18	100	430	434	125	24	22
Min.	28	21	22	19	12	13	19	56	89	23	15	16
Acre-ft.	2060	1480	1490	1280	877	906	4060	9210	17420	3150	1120	1170

Total run-off for water year=44,230 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Granby, Colo., for Year Ending Sept. 30, 1941.												
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	234	89	52	58	39	38	100	310	1400	703	166	102
2.....	226	82	52	50	33	39	92	360	1370	696	156	100
3.....	218	80	50	40	33	40	85	410	1350	612	145	98
4.....	206	87	50	38	33	40	82	468	1390	570	142	90
5.....	198	80	51	37	34	39	82	486	1380	558	136	86
6.....	214	*89	52	40	34	40	84	445	1290	528	145	82
7.....	195	87	54	42	34	42	80	365	1180	498	152	86
8.....	184	87	57	47	35	43	80	320	1340	504	166	115
9.....	195	89	58	49	36	42	90	385	1280	504	173	124
10.....	198	89	52	50	36	38	110	504	1150	492	176	127
11.....	195	62	50	50	*37	38	136	742	1010	445	173	133
12.....	180	51	47	48	37	42	170	1150	902	435	180	139
13.....	166	44	43	47	37	44	136	1600	902	400	176	145
14.....	156	42	34	47	36	46	110	1970	934	365	162	156
15.....	147	45	32	46	35	47	115	1830	1060	335	148	166
16.....	137	50	33	45	36	47	133	1440	1250	320	145	159
17.....	131	62	34	43	35	48	127	1310	1400	310	148	152
18.....	123	60	40	42	37	50	105	1470	1600	291	166	139
19.....	114	54	45	42	38	55	92	1460	1850	286	184	133
20.....	112	52	42	42	39	58	88	1290	1830	282	176	124
21.....	106	50	40	*43	40	65	98	1170	1710	282	170	115
22.....	104	45	45	44	40	70	112	1390	1660	268	166	110
23.....	99	47	50	45	40	70	121	1370	1660	247	162	112
24.....	96	54	47	46	42	68	121	1460	1550	227	156	115
25.....	94	58	43	42	40	72	127	1620	1400	223	148	127
26.....	94	55	44	42	42	80	159	1740	1300	231	148	124
27.....	92	52	24	42	42	84	180	1730	1180	223	139	118
28.....	94	51	45	40	38	82	*231	1550	1050	208	124	115
29.....	92	50	54	38	.....	*82	268	1410	902	201	118	112
30.....	89	56	58	38	.....	84	300	1310	790	190	110	112
31.....	89	.....	62	39	.....	86	.....	1330	.....	180	105	.....
Total	1578	1893	1440	1363	1038	1719	3814	34395	39070	11614	4761	3616
Mean.	148	63.1	46.5	44.0	37.1	55.5	127	1110	1302	375	154	121
Max.	234	89	62	58	42	86	300	1970	1850	703	184	166
Min.	89	42	24	37	33	38	80	310	790	180	105	82
Acre-ft.	9080	3750	2860	2700	2060	3410	7560	68220	77490	23040	9440	7170

Total run-off for water year=216,800 acre-feet.

Discharge of Colorado River Near Granby, Colo., for Year Ending Sept. 30, 1942.												
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	112	108	90	58	46	39	47	*240	1620	1050	247	79
2.....	110	110	86	54	46	38	54	260	1660	986	255	79
3.....	105	115	86	52	47	39	64	230	1600	894	247	75
4.....	108	115	84	50	47	40	76	240	1690	838	235	68
5.....	108	110	80	50	45	40	100	290	1810	822	215	70
6.....	110	118	72	52	44	39	120	280	1940	846	198	75
7.....	105	108	70	54	43	37	150	290	2160	862	187	75
8.....	108	90	74	56	42	36	170	330	2150	838	173	72
9.....	110	102	72	56	42	36	200	420	1970	774	162	70
10.....	110	105	74	52	42	37	230	480	1880	726	152	66
11.....	108	86	76	50	42	37	270	534	2060	682	142	70
12.....	108	100	76	48	42	37	260	598	2170	619	142	70
13.....	112	120	74	50	43	36	250	577	1960	570	156	70
14.....	148	110	72	*48	43	35	270	522	1580	558	145	70
15.....	156	100	72	45	44	35	260	450	1350	570	139	66
16.....	152	110	70	43	43	34	260	410	1340	558	130	62
17.....	142	110	70	42	42	*35	250	380	1670	564	127	60
18.....	136	110	70	42	*41	35	240	355	1920	814	121	58
19.....	130	90	68	42	40	36	220	330	1900	790	118	60
20.....	124	84	72	43	41	37	220	320	1800	612	112	62
21.....	121	80	70	44	42	38	240	310	1750	486	108	60
22.....	115	74	70	45	42	38	260	330	1550	415	110	58
23.....	115	68	70	45	41	38	280	328	1470	375	98	58
24.....	115	64	66	46	40	39	290	806	1400	360	88	56
25.....	124	64	66	47	39	39	270	986	1400	330	90	54
26.....	130	74	66	48	39	40	260	1290	1370	296	86	52
27.....	136	*87	64	48	39	41	260	1810	1330	273	86	52
28.....	136	88	56	47	40	41	240	1600	1110	251	83	52
29.....	130	88	58	46	.....	41	230	1550	886	247	81	50
30.....	130	88	60	45	.....	41	250	1620	886	264	81	48
31.....	121	.....	60	45	.....	42	.....	1630	.....	251	81	.....
Total	3775	2876	2214	1493	1187	1176	6261	19996	49382	18521	4395	1919
Mean.	122	95.9	71.4	48.2	42.4	37.9	209	645	1646	597	142	64.0
Max.	156	120	90	58	47	42	290	1810	2170	1050	255	79
Min.	105	64	56	42	39	34	47	230	886	247	81	48
Acre-ft.	7490	5700	4390	2960	2350	2330	12420	39660	97950	36740	8720	3810

Total run-off for water year=224,500 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Hot Sulphur Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	351	162	96	94	76	100	368	783	2110	970	245	158
2.....	335	158	96	90	76	100	245	855	2040	980	233	154
3.....	315	162	92	84	78	98	217	990	1970	837	221	151
4.....	295	177	90	80	78	96	213	1170	1980	765	213	140
5.....	286	131	90	76	80	96	221	1080	2000	747	201	134
6.....	330	*158	90	76	80	100	237	1020	1900	704	272	130
7.....	305	173	92	78	82	102	197	828	1800	664	233	127
8.....	286	169	*94	80	82	104	177	747	2010	648	254	181
9.....	290	189	94	82	82	104	197	980	1910	648	250	217
10.....	300	173	90	84	80	102	229	1280	1770	626	268	213
11.....	290	124	84	84	80	100	245	1850	1600	584	272	213
12.....	272	100	80	84	80	100	335	2220	1400	558	305	221
13.....	258	82	74	84	80	104	384	2980	1460	546	300	217
14.....	237	74	70	82	80	118	281	3630	1420	522	254	229
15.....	225	78	70	80	82	118	276	3430	1510	528	237	245
16.....	225	86	72	80	84	120	290	2720	1780	486	250	233
17.....	250	100	76	78	84	122	320	2420	1970	444	286	221
18.....	225	102	80	78	86	130	276	2740	2190	428	300	205
19.....	221	100	80	76	88	150	229	2540	2640	417	305	197
20.....	213	92	78	76	*89	155	229	2250	2670	406	286	185
21.....	209	86	80	76	90	165	245	2010	2480	400	272	181
22.....	201	86	86	76	92	165	286	2220	2320	368	263	169
23.....	197	88	88	78	92	180	340	2210	2320	325	254	173
24.....	193	94	84	*79	92	190	378	2350	2190	305	241	181
25.....	185	100	82	80	92	200	384	2460	2050	286	225	189
26.....	185	96	84	80	94	195	428	2690	1840	325	225	193
27.....	185	94	80	80	96	205	486	2640	1660	320	221	185
28.....	181	92	82	78	98	250	591	2320	1460	310	197	177
29.....	177	92	88	78	.....	*312	680	2190	1280	286	185	173
30.....	177	96	90	76	.....	300	720	2040	1080	276	181	173
31.....	181	.....	96	76	.....	290	.....	2050	.....	263	169	.....
Total	7580	3517	2628	2483	2373	4671	9704	61693	56810	15972	7618	5565
Mean...	245	117	84.8	80.1	84.8	151	323	1990	1894	515	246	186
Max...	351	189	96	94	98	312	720	3630	2670	980	305	245
Min....	177	74	70	76	76	96	177	747	1080	263	169	127
Ac.-ft.	15030	6980	5210	4920	4710	9260	19250	122400	112700	31680	15110	11040

Total run-off for water year=358,300 acre-feet.

Discharge of Colorado River Near Hot Sulphur Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	177	173	145	105	96	96	135	584	3340	1740	356	127
2.....	173	185	135	100	98	94	150	688	3420	1660	378	130
3.....	169	221	135	94	100	96	190	577	3290	1500	378	127
4.....	169	213	135	92	100	98	230	598	3580	1390	346	121
5.....	177	197	130	88	100	100	310	756	3690	1340	330	130
6.....	177	225	125	92	105	100	350	612	3810	1340	310	154
7.....	177	189	115	100	105	98	400	720	4170	1250	290	148
8.....	173	154	125	105	105	98	420	828	4210	1210	272	140
9.....	181	173	120	110	105	100	500	940	3850	1160	263	134
10.....	181	189	125	110	105	105	640	1110	3520	1070	250	127
11.....	173	165	130	105	100	105	801	1370	3740	1020	245	127
12.....	165	169	135	105	100	105	738	1510	4060	910	241	144
13.....	173	213	130	105	100	105	712	1370	4210	828	258	140
14.....	229	158	130	105	105	105	774	1180	3240	792	245	134
15.....	237	177	135	*99	105	105	756	1000	2700	765	233	127
16.....	221	173	125	94	105	105	612	950	2570	738	221	118
17.....	201	177	125	88	100	105	720	920	3060	765	205	112
18.....	209	193	125	88	100	100	688	873	3520	1210	205	106
19.....	189	137	125	*92	*97	*100	552	828	3580	1060	201	115
20.....	185	137	130	95	98	100	558	810	3310	846	197	118
21.....	177	134	120	96	100	98	648	846	3110	688	189	118
22.....	177	120	120	98	100	100	696	1070	2770	577	177	112
23.....	173	110	120	100	100	105	828	1540	2560	528	177	109
24.....	177	105	115	100	98	105	747	2000	2440	522	165	109
25.....	181	110	115	105	96	110	672	2280	2360	486	169	106
26.....	197	125	110	105	*91	105	648	2790	2280	434	162	106
27.....	201	*136	105	105	90	105	648	3740	2220	395	158	106
28.....	201	140	95	100	94	110	564	3430	1940	390	151	106
29.....	205	140	100	98	.....	110	598	3310	1620	373	140	103
30.....	201	140	105	96	.....	115	633	3420	1550	395	137	100
31.....	189	.....	110	94	.....	120	.....	3420	.....	373	130	.....
Total	5815	4878	3795	3069	2798	3203	16918	46070	93720	27755	7191	3654
Mean...	188	163	122	99.0	99.9	103	564	1486	3124	895	232	122
Max...	237	225	145	110	105	120	828	3740	4210	1740	378	154
Min....	165	105	95	88	90	94	135	577	1550	373	130	100
Ac.-ft.	11530	9680	7530	6090	5550	6350	33560	91380	185900	55050	14260	7250

Total run-off for water year=434,100 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Dotsero, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			736	540	500	610	1140	2530	8220	4280	1300	876
2			724	500	520	635	1270	2710	8020	3930	1200	841
3			675	470	480	635	1190	3380	7860	3790	1130	808
4			665	450	480	615	1100	4540	7940	3550	1070	784
5			645	470	490	615	1180	4690	8100	3360	1040	748
6			655	430	490	605	1220	4120	7740	3180	1010	718
7			650	460	480	588	1140	3690	7480	3010	1100	724
8			640	520	500	592	976	3310	7500	3000	1260	932
9			655	540	480	620	897	3780	7300	2870	1180	1020
10			665	470	520	542	918	4990	6460	2740	1180	1090
11			620	450	560	584	1020	6490	6560	2590	1180	1160
12			640	480	620	536	1060	8080	5640	2450	1340	1190
13			695	490	592	588	1250	10300	5050	2500	1360	1150
14			554	500	592	605	1500	12500	5040	2440	1380	1170
15			380	500	592	568	1290	12800	5230	2260	1260	1190
16			390	480	596	572	1210	11400	5690	2180	1230	1190
17			420	460	588	588	1180	10100	6440	2160	1300	1130
18			500	480	600	610	1230	10500	7540	2070	1460	1080
19			600	500	615	695	1160	11200	8800	1970	1420	1040
20			580	500	620	742	1020	9800	9360	2060	1390	1010
21			560	480	625	730	925	8360	9150	2100	1330	960
22			554	560	635	802	932	8360	8720	1980	1300	939
23			548	580	625	1010	968	8720	8340	1830	1280	960
24			540	540	630	1170	1100	9230	8300	1730	1220	984
25			620	500	620	1100	1260	9710	8060	1670	1170	1100
26			610	560	592	984	1380	9770	7920	1600	1100	1100
27			600	540	554	897	1570	10200	6790	1600	1040	1070
28		700	600	540	568	883	1820	9600	6060	1630	1020	1020
29		712	600	520		1020	2060	8720	5420	1550	960	992
30		730	610	540		1220	2340	8220	4770	1460	925	984
31			620	560		1170		8060		1380	911	
Total			18551	15610	15764	23131	37306	239860	215500	74920	37056	29960
Mean			598	504	563	746	1244	7737	7183	2417	1195	999
Max.			736	580	635	1220	2340	12800	9360	4280	1460	1190
Min.			380	420	480	536	897	2530	4770	1380	911	718
Ac.-ft.			36800	30960	31270	45880	74000	475800	427400	148600	73500	59420

Total run-off for period=1,404,000 acre-feet.

Discharge of Colorado River Near Dotsero, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	1020	1040	896				875	2510	12700	5240	1820	709	
2	1040	1010	861				1120	2530	12900	5320	1750	692	
3	1080	1040	840				1330	2630	13000	5050	1850	682	
4	1070	1060	854				1660	2430	13000	4700	1920	676	
5	1080	1070	780				1990	2500	13200	4540	1790	692	
6	1120	1080	700				2100	2660	13900	4450	1690	692	
7	1120	1050	650				2120	2560	14900	4420	1610	720	
8	1110	1060	726				2110	2830	15000	4240	1510	720	
9	1140	938	720				2270	3220	14100	4180	1440	698	
10	1150	931	738				2610	3750	12800	4120	1360	687	
11	1140	938	786				3010	4680	13000	3790	1300	720	
12	1150	931	816				3400	5540	14500	3550	1260	732	
13	1180	924	854				3410	5420	14900	3310	1250	756	
14	1290	988	762				3330	4680	14300	3100	1270	762	
15	1300	966	750				3540	4100	11600	3060	1200	756	
16	1310	931	768				3190	3850	9910	3130	1130	744	
17	1280	945	756				3020	3790	10700	3070	1100	726	
18	1240	966	766				3140	3540	12100	3410	1040	698	
19	1180	945	774				2720	3500	12800	3960	1000	738	
20	1140	861	732			Mar. 22	2430	3480	12500	3420	966	732	
21	1120	638	720			to 31	2400	3680	11200	2960	938	732	
22	1120	620	738				670	2700	4320	10200	2650	945	
23	1110	580	665				648	3120	5630	9180	2440	924	
24	1080	550	692				768	3240	7470	8500	2340	917	
25	1100	620	732				738	3010	9030	8100	2250	924	
26	1160	762	638				676	2720	10700	7800	2120	938	
27	1170	828	585				638	2590	13600	7320	1970	931	
28	1186	889	575				665	2540	14000	6780	2000	882	
29	1220	910	621				692	2460	13600	5940	2050	816	
30	1180	896	638				726	2440	13300	5380	1990	774	
31	1040		632				756		13000		1900	732	
Total	35620	26967	22761				6977	76595	178530	342210	104730	37977	22102
Mean	1149	899	734				698	2553	5759	11410	3378	1225	737
Max.	1310	1080	896				768	3540	14000	15000	5320	1920	798
Min.	1020	550	575				638	875	2430	5380	1900	732	676
Ac.-ft.	70650	53490	45150				13840	151900	354100	678800	207700	75330	43840

Total run-off for period=1,695,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River at Glenwood Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1390	795	825	663	588	620	1360	2900	8970	4620	1530	1050
2.....	1470	1010	828	677	614	699	1430	3120	8900	4210	1389	891
3.....	1450	848	882	492	555	734	1500	3800	8780	4060	1200	871
4.....	1450	750	823	490	555	748	1390	4960	8780	3880	1150	839
5.....	1430	945	767	421	581	713	1330	5430	9000	3660	1170	855
6.....	1380	865	771	468	588	741	1440	4860	8620	3420	1180	755
7.....	1210	871	810	547	568	634	1450	4320	8390	3250	1210	774
8.....	1330	865	731	584	633	661	1330	3980	8230	3230	1410	991
9.....	1320	1020	676	669	581	695	1050	4350	8100	3120	1410	1080
10.....	1350	1040	750	551	652	566	982	5680	7260	3010	1500	1190
11.....	1330	915	774	508	672	482	1080	7380	7290	2830	1360	1330
12.....	1390	905	752	556	770	699	1210	9160	6450	2690	1500	1360
13.....	1360	560	724	571	748	659	1290	11800	5650	2700	1520	1400
14.....	1100	568	567	594	706	658	1530	14100	5790	2670	1580	1450
15.....	1140	589	392	594	727	594	1590	14500	6000	2520	1520	1360
16.....	1160	798	417	594	713	594	1520	13200	6510	2430	1480	1410
17.....	1100	652	451	538	692	620	1390	11500	7260	2400	1410	1360
18.....	996	764	603	543	620	713	1370	11900	8390	2280	1430	1270
19.....	1150	1000	792	594	741	650	1370	12600	9510	2140	1590	1160
20.....	1060	747	729	581	755	894	1280	10900	10400	2300	1530	1030
21.....	826	981	621	555	762	748	1050	9420	9800	2380	1500	1090
22.....	1020	923	542	706	770	838	982	9290	9290	2270	1460	1040
23.....	958	854	517	713	770	1020	1130	9670	8840	2110	1460	1060
24.....	952	844	626	685	770	1260	1150	10200	8710	1940	1450	1080
25.....	912	813	749	555	770	1270	1240	10600	8550	1870	1440	1290
26.....	1050	798	712	659	672	1170	1370	10800	8420	1800	1280	1290
27.....	915	761	698	607	652	1040	1650	11100	7320	1800	1230	1270
28.....	828	812	685	646	633	946	2060	10600	6570	1810	1200	1180
29.....	978	809	685	620	.....	1076	2380	9510	5820	1760	1120	1140
30.....	889	810	741	633	.....	1320	2760	8970	5150	1640	1050	1120
31.....	917	.....	765	755	.....	1400	.....	8900	.....	1560	937	.....
Total	35811	24912	21405	18369	18858	25456	42664	269500	236750	82360	42187	33986
Mean.	1155	830	690	593	674	821	1422	8694	7892	2657	1361	1133
Max..	1470	1040	882	755	770	1400	2760	14500	10400	4620	1590	1450
Min..	826	560	392	421	555	482	982	2900	5150	1560	937	755
Ac.-ft.	71030	49410	42460	36430	37400	50490	84620	534500	469600	163400	83680	67410

Total run-off for water year==1,690,000 acre-feet.

Discharge of Colorado River at Glenwood Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1160	1350	947	712	767	734	886	2760	13500	5910	1830	727
2.....	1150	1040	860	611	713	678	1090	2760	13700	6030	1740	666
3.....	1190	1050	889	607	727	741	1290	2950	13700	5730	1800	678
4.....	1160	1100	881	544	785	755	1500	2770	13600	5380	1940	678
5.....	1210	1120	868	516	755	785	2110	2760	13900	5300	1800	692
6.....	1210	1170	826	434	748	785	2080	3030	13700	5200	1690	727
7.....	1180	1130	678	478	815	755	2220	2920	15300	5200	1740	720
8.....	1150	1130	764	755	822	685	2240	3160	15500	5080	1520	685
9.....	1170	1070	698	785	822	770	2400	3660	14800	4670	1440	720
10.....	1200	1100	734	792	748	770	2760	4320	13700	4430	1430	727
11.....	1230	1090	778	800	685	778	3210	5300	13700	4100	1420	748
12.....	1200	1110	862	699	720	669	3740	5900	14700	3880	1420	792
13.....	1440	1040	840	605	741	815	3820	5800	15100	3620	1310	741
14.....	1420	1070	833	815	748	861	3720	5400	14900	3380	1290	902
15.....	1450	1130	875	600	808	825	3900	4750	12400	3360	1260	699
16.....	1460	1060	805	633	678	830	3720	4300	11300	3360	1200	748
17.....	1480	1140	826	646	734	612	3350	3950	11600	3350	1200	815
18.....	1450	1150	821	800	562	731	3520	3850	12800	3640	1080	770
19.....	1320	1170	813	741	565	721	3140	3750	13400	4350	1010	706
20.....	1340	983	837	666	537	734	2760	3700	12800	3860	1000	878
21.....	1260	847	765	706	699	600	2640	4600	12200	3290	1020	770
22.....	1210	729	779	672	770	782	2950	5450	11300	2920	1000	762
23.....	1210	685	765	741	815	778	3480	6570	10500	2620	1010	808
24.....	1170	584	712	830	748	826	3700	8550	9800	2460	991	886
25.....	1160	636	783	785	720	747	3420	10200	9060	2380	991	862
26.....	1310	756	691	808	755	654	3120	11800	8460	2200	1020	886
27.....	1290	855	672	792	678	640	2990	14200	8010	2000	1000	838
28.....	1330	872	571	713	808	856	2880	14800	7500	2000	964	870
29.....	1360	881	649	734	.....	785	2690	14400	6720	2110	878	937
30.....	1320	857	650	762	.....	855	2650	14000	6120	2020	808	815
31.....	1160	.....	725	699	.....	838	.....	13800	.....	1920	770	.....
Total	39350	29905	24197	21481	20473	23395	83976	196160	363770	115750	39572	23253
Mean.	1269	997	781	693	731	755	2799	6328	12130	3734	1277	775
Max..	1480	1350	947	830	822	861	3900	14800	15500	6030	1940	937
Min..	1150	584	571	434	537	600	886	2760	6120	1920	770	666
Ac.-ft.	78050	59320	47990	42610	40610	46400	166600	389100	721500	229600	78490	46120

Total run-off for water year==1,946,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Cameo, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2670	1510	1370	1310	1160	1050	1940	4730	14600	8890	2630	1660
2....	2500	1420	1370	1170	1010	1250	1920	5160	14400	7930	2520	1660
3....	2420	1630	1350	1040	1040	1400	1970	6040	14300	7540	2380	1590
4....	2360	1640	1360	920	1090	1240	2000	8610	14500	7310	2170	1500
5....	2790	1500	1310	790	1110	1190	1890	10700	14900	7130	2060	1470
6....	2760	1530	1270	820	1010	1130	1940	10000	14900	6780	2040	1440
7....	2400	1470	1310	900	1060	1130	1960	9280	14400	6350	2100	1320
8....	2180	1480	1310	960	1030	1060	1890	8950	14600	6330	2140	1360
9....	2300	1450	1250	1060	1070	1080	1760	9400	13700	6220	2600	1660
10....	2300	1630	1230	1120	1090	1120	1620	11300	12000	6000	2960	1850
11....	2220	1630	1240	1050	1160	990	1680	14400	10900	5740	2560	1960
12....	2140	1500	1310	1100	1480	925	1820	17400	10500	5420	2360	2080
13....	2140	1370	1270	1100	1530	1140	1990	21600	9280	5260	2500	2170
14....	2080	1080	1250	1080	1280	1220	2130	25800	8950	5260	2440	2510
15....	1880	1100	950	1080	1190	1200	2320	26000	9120	5000	2440	2750
16....	1870	1210	800	1060	1310	1140	2320	23400	9680	4690	2520	2460
17....	1850	1370	920	1000	1290	1100	2250	20500	10900	4480	2580	2360
18....	1750	1350	1300	990	1210	1120	2180	20700	12900	4400	2640	2270
19....	1680	1430	1200	990	1370	1220	2170	21600	15600	4260	2640	2290
20....	1770	1560	1200	1060	1290	1250	2110	19800	17000	4420	2640	2220
21....	1700	1420	1120	1060	1250	1390	1970	15900	17400	4590	2580	2140
22....	1530	1560	1080	1100	1250	1370	1740	15000	17000	4350	2510	2600
23....	1630	1480	1100	1140	1220	1510	1850	15700	16600	4060	2440	2310
24....	1570	1440	1180	1100	1270	2010	2040	16500	16700	3810	2350	2280
25....	1560	1410	1200	1070	1420	1960	2270	17800	16300	3570	2250	2220
26....	1510	1370	1200	1080	1230	1850	2520	18400	15800	3420	2150	2360
27....	2060	1340	1180	1100	1100	1710	2880	19200	14600	3310	1960	2320
28....	1660	1290	1180	1100	1060	1590	3470	18600	12500	3230	1890	2270
29....	1520	1350	1180	1100	....	1530	4160	16400	11100	3140	1830	2210
30....	1580	1370	1200	1120	....	1680	4370	14800	9840	2980	1810	2180
31....	1530	....	1250	1160	....	1870	....	14400	....	2770	1730	....
Total	61910	42890	37240	32730	33580	41425	67130	478070	404970	158640	72420	61470
Mean..	1997	1430	1201	1056	1199	1336	2238	15420	13500	5117	2336	2049
Max..	2790	1640	1370	1310	1530	2010	4370	26000	17400	8890	2960	2750
Min..	1510	1080	800	790	1010	925	1620	4730	8950	2770	1730	1320
Ac.-ft.	122800	85070	73860	64920	66600	82170	133200	948200	803200	314700	143600	121900

Total run-off for water year=2,960,000 acre-feet.

Discharge of Colorado River Near Cameo, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2100	2380	1900	1550	1510	1700	1810	5950	23000	10000	3290	1420
2....	2200	2320	1960	1570	1600	1620	1870	6060	22900	9930	3200	1360
3....	2400	2320	1900	1350	1550	1580	2340	6320	23400	9730	3200	1310
4....	2270	2300	1940	1250	1610	1650	2580	6080	23000	9260	3360	1330
5....	2370	2320	1940	1100	1620	1700	3380	6010	22800	8920	3270	1340
6....	3018	2290	1810	1000	1610	1720	3960	6440	23400	8810	3040	1340
7....	2430	2220	1660	1180	1580	1580	3490	6710	24500	8750	2910	1400
8....	2300	2240	1670	1320	1600	1520	3470	7240	26000	8520	2780	1380
9....	2340	2220	1720	1320	1600	1600	3540	8440	25200	8080	2610	1340
10....	2350	2200	1660	1700	1550	1600	3780	9840	23700	8180	2480	1340
11....	2400	2160	1680	1620	1500	1680	4220	11700	23300	7690	2400	1400
12....	2270	2150	1750	1620	1480	1680	5050	13500	24800	7160	2350	1470
13....	4280	2180	1740	1500	1520	1600	6010	13600	25200	6730	2370	1500
14....	4280	2150	1740	1380	1580	1620	6420	11600	23800	6400	2320	1530
15....	3440	2160	1750	1600	1680	1790	6950	9990	21400	6210	2210	1610
16....	3170	2200	1710	1460	1720	1770	7770	9090	18500	6100	2140	1450
17....	2990	2140	1660	1320	1620	1790	8160	8650	18700	6190	2020	1480
18....	2860	2320	1680	1400	1680	1590	7820	8490	21000	6490	1960	1500
19....	2740	2210	1660	1500	1250	1710	7090	8080	22300	7330	1830	1430
20....	2610	2160	1620	1420	1250	1590	6350	8230	22400	6970	1810	1440
21....	2910	1930	1630	1400	1300	1500	6060	8750	21000	6060	1750	1540
22....	2720	1740	1610	1380	1420	1470	6370	10100	19300	5400	1720	1470
23....	2530	1680	1660	1400	1550	1960	7320	12300	17900	4870	1670	1470
24....	2500	1610	1560	1520	1720	2150	8840	16000	16500	4520	1670	1530
25....	2590	1570	1510	1630	1600	1790	8340	18000	15600	4260	1700	1540
26....	2720	1700	1630	1600	1580	1680	7770	21100	14500	4060	1750	1530
27....	2660	1840	1490	1620	1560	1490	7260	24600	13800	3760	1740	1550
28....	2580	1900	1550	1640	1550	1440	6760	25900	12800	3720	1670	1510
29....	2610	1880	1400	1500	....	1660	6610	24800	11300	3720	1620	1500
30....	2620	1900	1490	1540	....	1750	6260	24100	10400	3650	1550	1500
31....	2510	....	1510	1580	....	1810	....	23500	....	3470	1470	....
Total	83760	62390	52190	45200	43390	51870	168250	381880	612700	204940	69860	43510
Mean..	2702	2080	1684	1458	1550	1673	5608	12320	20420	6611	2254	1450
Max..	4280	2380	1960	1700	1720	2150	8840	25900	26000	10000	3360	1610
Min..	2100	1570	1400	1000	1250	1440	1810	5950	10400	3470	1470	1310
Ac.-ft.	166100	123700	103500	89650	86060	102900	333700	757400	215000	406500	138600	86300

Total run-off for water year=3,609,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Cisco, Utah, for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10900	3120	2940	2760	2590	2500	6100	22500	27100	16900	3800	2000
2	8780	3030	2850	2760	2590	2500	7180	22900	26200	15800	3800	2000
3	8220	3030	2850	2760	2390	2940	6690	22900	26200	14300	3800	1990
4	7690	3580	2760	2190	2220	3120	6400	27900	26200	13600	2940	1980
5	7430	3490	2760	1860	2090	2940	6000	40500	26600	13300	2760	1920
6	9070	3210	2760	1700	2110	2760	5800	40500	27100	12900	2500	1840
7	6450	3030	2680	1840	2190	2680	5650	37000	27500	11900	2500	1740
8	5320	2940	2680	2010	2280	2590	5540	34000	31800	11600	3600	1680
9	5100	3030	2680	2030	2320	2500	5540	34800	32200	11200	4370	1630
10	5100	3030	2590	2060	2400	2500	6220	38300	30500	11200	8690	1800
11	4580	3210	2590	2170	2350	2500	6810	42800	27100	10900	6690	2120
12	4370	3210	2760	2270	2850	2370	6450	47700	24100	10900	6100	2220
13	4170	2940	2940	2340	3400	2350	6340	52800	21300	10300	5320	2420
14	3970	2760	2680	2400	3490	2680	6220	59700	19700	9960	5000	3300
15	3780	2370	2340	2390	2940	2940	6280	63400	19300	9660	4580	3780
16	3580	2270	2120	2420	2500	2850	6340	57400	20100	9070	4780	4170
17	3490	2590	1700	2350	2680	2940	6340	48200	21300	8500	5880	3870
18	3400	3030	1640	2250	2940	2760	5990	45000	22900	7950	5880	3680
19	3300	2850	1900	2120	2940	2760	5800	46400	25400	7430	5650	3870
20	3210	3300	2420	2010	2940	3030	5600	45000	28400	7690	4890	4170
21	3300	3400	2500	2270	3210	3300	5400	33900	31300	7950	4580	3970
22	3210	3210	2280	2300	3120	3780	5200	28800	31300	7950	4270	7850
23	2940	3300	2150	2420	3120	4070	5000	27900	30500	7180	3800	12600
24	3030	3120	2250	2500	3030	4890	5100	31300	30500	6490	3300	8220
25	2850	3030	2400	2420	3300	5540	5990	33500	30900	6450	5000	7000
26	2940	3030	2680	2310	3400	5100	7950	35700	38800	5990	2760	6000
27	4580	2940	2680	2320	3030	4680	11200	36100	27900	5650	2500	5400
28	4170	2850	2500	2250	2680	4370	15800	37400	24600	5320	2200	5400
29	3400	2760	2590	2250	.....	4270	19700	34400	21700	5100	2200	5210
30	3120	2850	2590	2370	.....	4680	19700	30500	19300	4580	2100	5430
31	3210	.....	2680	2420	.....	5210	.....	27900	.....	4170	2100	.....
Total	148660	90510	77940	70210	77100	104100	224330	1187500	797800	292090	126360	119260
Mean	4795	3017	2514	2265	2754	3358	7477	38310	26590	9422	4076	3975
Max.	10900	3580	2940	2760	3490	5540	19700	63400	38800	16900	8690	12600
Min.	2850	2270	1640	1700	2090	2350	5000	22500	19300	4170	2100	1630
Ac.-ft.	294900	179500	154600	139300	152900	206500	444900	2550000	1582000	579400	250600	236500

Total run-off for water year=6,576,000 acre-feet.

Discharge of Colorado River Near Cisco, Utah, for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5300	7610	4410	3360	3210	2890	4890	17400	40500	15000	4210	1860
2	5450	7130	4390	3320	3010	2980	6040	17600	38600	14600	3990	1840
3	6500	6960	4450	2390	2980	3010	7770	18800	38300	14300	4030	1720
4	9190	6760	4600	2150	3050	3160	10300	19400	37100	13800	4190	1650
5	8470	6500	4510	1750	3260	3320	13500	19800	36800	13300	4370	1640
6	9300	6360	4350	1500	3490	3490	19100	20200	36800	12900	4190	1670
7	8360	6200	3970	1200	3450	3680	19900	20400	38500	12900	3830	1800
8	7460	5850	3620	1750	3410	3210	15400	22300	41300	12600	3580	1880
9	6340	5670	3600	2500	3510	2980	15200	25600	43000	12000	3360	2030
10	6060	5320	3780	3360	3410	3250	18500	29700	41100	11600	3140	1950
11	5850	5120	3830	3450	3120	3950	20800	34300	38000	11400	2960	1920
12	5990	5060	3820	3250	2940	3920	24100	37400	38800	10400	2940	2280
13	11000	4930	4070	3210	2780	4890	29600	38200	41300	9720	3170	2590
14	22600	4970	3990	3160	2980	6040	34400	32200	40200	9040	3530	2760
15	16700	5080	3850	3230	2940	4870	36600	26600	37300	8360	3640	2760
16	11500	5060	3790	3500	2900	3810	36700	23200	32300	8250	3340	2800
17	10300	5140	3700	3120	2760	3430	32800	21800	28700	8190	3140	2680
18	9570	5140	3570	3170	2650	3120	32100	21500	30600	9270	2900	2450
19	8840	5360	3680	3340	2550	3160	28500	21000	32800	9750	2610	2440
20	8840	5320	3600	3300	2400	3620	23200	21400	34700	10100	2390	2390
21	10500	5000	3470	3160	2320	3410	21000	22700	34000	9190	2230	2350
22	10500	4470	3510	3030	2490	3190	22200	25800	31400	8060	2200	2450
23	9990	4050	3510	2870	3170	3230	28800	30000	29000	7030	2070	2450
24	8720	3700	3380	3120	3260	4470	37100	33100	26300	6310	2070	2420
25	9690	3450	3250	3230	3010	4720	31300	38800	24200	5740	2030	2470
26	11400	3660	3160	3160	2920	4450	26700	41600	22400	5230	2200	2540
27	11100	3930	3210	3230	2710	3970	23700	45100	20900	4910	2300	2470
28	9810	4270	3080	3320	2830	3570	21300	50000	19600	4600	2280	2540
29	9690	4410	2980	3450	.....	3400	18600	47700	18000	4410	2170	2470
30	8780	4470	3140	3400	.....	3810	17600	45600	16000	4390	2030	2400
31	8110	.....	3340	3340	.....	4170	.....	42900	.....	4390	1960	.....
Total	291910	156950	116220	91120	83510	115180	677700	912100	988500	291740	93050	67670
Mean	9416	5232	3730	2939	2982	3715	22590	29420	32950	9411	3002	2256
Max.	22600	7610	4600	3450	3510	6040	37100	50000	43000	15000	4370	2800
Min.	5300	3450	2980	1200	2320	2890	4890	17400	16000	4390	1960	1640
Ac.-ft.	579000	311300	229300	180700	165600	228500	1344000	1809000	1961000	578700	181600	134200

Total run-off for water year=7,706,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

THIRTY-FIRST BIENNIAL REPORT

Discharge of Arapahoe Creek Below Monarch Lake, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1....	61	19	8.5	6.0	5.5	6.5	8.0	50	420	235	52	28
2....	59	19	8.5	6.0	5.5	6.5	8.0	68	400	208	51	27
3....	61	19	8.5	6.0	5.5	6.5	7.8	108	400	188	48	26
4....	59	18	8.5	6.0	5.5	6.5	7.6	134	420	198	45	24
5....	54	19	8.5	6.0	5.5	6.5	7.8	130	420	201	46	22
6....	52	18	8.5	6.0	5.5	6.5	8.0	108	392	194	46	19
7....	51	18	8.5	6.0	5.5	6.5	8.0	87	361	188	44	19
8....	51	18	8.5	6.0	5.5	6.5	8.0	68	373	188	51	19
9....	51	18	8.5	6.0	5.5	6.5	8.2	81	357	191	61	19
10....	50	18	8.5	6.0	5.5	6.5	8.4	154	346	184	61	21
11....	48	16	8.5	6.0	* 5.5	6.5	8.8	269	342	177	54	23
12....	44	14	8.5	6.0	5.5	6.5	9.2	357	357	164	52	25
13....	38	11	8.5	6.0	5.5	6.5	9.4	536	342	108	50	28
14....	35	10	8.5	* 6.0	5.5	6.5	9.2	642	332	71	52	32
15....	32	10	8.5	6.0	5.5	6.5	9.4	594	328	87	51	37
16....	30	11	8.5	6.0	5.5	6.5	10	424	392	96	52	40
17....	28	13	8.5	6.0	5.5	6.5	11	369	510	102	56	40
18....	26	13	8.5	6.0	5.5	* 6.5	10	458	629	102	56	38
19....	25	12	8.5	6.0	5.5	6.5	11	380	712	96	56	36
20....	24	12	8.5	6.0	5.5	6.5	11	321	677	96	54	34
21....	23	11	8.5	6.0	5.5	6.5	11	310	616	99	51	31
22....	22	11	8.5	6.0	5.5	6.5	10	396	585	99	48	27
23....	22	10	8.5	6.0	5.5	6.5	11	376	536	90	44	26
24....	21	10	8.5	6.0	5.5	6.5	12	432	479	84	44	27
25....	20	10	8.5	6.0	5.5	6.5	15	510	420	78	40	29
26....	19	10	8.5	6.0	5.5	6.5	17	550	416	84	38	30
27....	19	10	8.5	6.0	5.5	6.5	18	528	361	84	37	30
28....	19	10	8.5	6.0	5.5	6.5	* 25	441	324	73	36	31
29....	19	10	8.5	6.0	....	6.5	37	404	279	68	34	30
30....	19	11	8.5	6.0	....	6.5	44	392	256	56	31	30
31....	10	....	8.5	6.0	....	6.5	....	408	....	56	30	....
Total	1101	409	263.5	186.0	154.0	201.5	378.8	10085	12782	3945	1471	848
Mean.	35.5	13.6	8.5	6.0	5.5	6.5	12.6	325	426	127	47.5	28.3
Max.	61	19	....	....	....	....	44	642	712	235	61	40
Min.	19	10	....	....	....	....	7.6	50	256	56	30	19
Acre-ft.	2180	811	523	369	305	400	751	20000	25350	7820	2920	1680

Total run-off for water year=63,110 acre-feet.

Discharge of Arapahoe Creek Below Monarch Lake, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	32	32	10	8.0	7.5	7.0	7.2	59	688	386	102	20
2....	30	30	10	8.0	7.5	7.0	7.6	56	710	368	108	20
3....	28	32	10	8.0	7.5	7.0	7.8	49	688	342	105	20
4....	28	29	10	8.0	7.5	7.0	8.4	46	733	328	93	20
5....	28	28	10	8.0	7.5	7.0	9.0	46	814	324	87	20
6....	28	28	10	8.0	7.5	7.0	9.8	43	886	332	84	20
7....	28	26	10	8.0	7.5	7.0	11	14	1030	328	84	20
8....	26	25	10	8.0	7.5	7.0	14	52	972	317	84	20
9....	26	25	10	8.0	7.5	7.0	15	73	904	300	84	20
10....	26	23	10	8.0	7.5	7.0	17	111	872	290	81	20
11....	26	23	10	8.0	7.5	7.0	19	154	972	276	78	20
12....	26	22	10	8.0	7.5	7.0	18	174	976	256	78	20
13....	30	22	10	8.0	7.5	7.0	18	147	854	239	81	20
14....	33	22	10	* 8.0	7.5	7.0	19	137	697	242	96	19
15....	38	22	10	8.0	7.5	7.0	19	127	560	249	130	19
16....	40	22	10	8.0	7.5	7.0	17	114	536	242	134	17
17....	40	22	10	8.0	7.5	* 7.0	18	99	666	235	137	15
18....	40	22	10	8.0	* 7.5	7.0	17	84	738	286	137	15
19....	37	20	10	8.0	7.5	7.0	17	78	692	269	137	15
20....	34	16	10	8.0	7.5	7.0	23	73	620	222	130	15
21....	29	14	10	8.0	7.5	7.0	41	68	598	191	124	14
22....	26	13	10	8.0	7.5	7.0	73	105	564	164	114	14
23....	28	12	10	8.0	7.5	7.0	78	208	524	143	49	14
24....	30	12	10	8.0	7.5	7.0	90	303	528	127	14	14
25....	33	12	10	8.0	7.5	7.0	81	346	512	108	14	14
26....	35	13	10	8.0	7.5	7.0	76	460	488	96	15	14
27....	38	* 13	10	8.0	7.5	7.0	76	742	416	76	16	14
28....	38	12	10	8.0	7.5	7.0	71	589	375	68	17	14
29....	38	12	10	8.0	7.5	7.0	66	607	339	78	19	14
30....	37	12	10	8.0	....	7.0	61	661	360	84	20	14
31....	33	....	10	8.0	....	7.0	....	684	....	87	20	....
Total	991	616	310	248.0	210.0	217.0	1004.8	6539	20312	7053	2472	515
Mean.	32.0	20.5	10	8.0	7.5	7.0	33.5	211	677	228	79.7	17.2
Max.	40	32	....	....	....	....	90	742	1030	386	137	20
Min.	26	12	....	....	....	....	7.2	43	339	68	14	14
Acre-ft.	1970	1220	615	492	417	430	1990	12970	40290	13990	4900	1020

Total run-off for water year=80,300 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Willow Creek Near Granby, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1. . . .	18	12	8.0	7.6	6.6	7.8	16	96	216	72	18	13
2. . . .	17	11	8.2	7.4	6.6	7.8	16	120	200	71	17	13
3. . . .	17	12	8.0	7.0	6.8	7.8	15	149	197	64	16	13
4. . . .	15	13	8.0	6.6	6.8	7.6	15	174	184	60	15	13
5. . . .	14	12	7.8	6.2	6.8	7.6	15	142	180	59	15	12
6. . . .	18	*13	7.6	6.2	6.8	7.8	16	124	168	56	18	13
7. . . .	15	13	7.6	6.4	7.0	8.0	16	109	168	55	19	13
8. . . .	14	12	7.6	6.6	7.2	8.2	15	144	180	52	18	20
9. . . .	15	13	7.6	7.0	7.4	8.0	15	226	156	48	17	18
10. . . .	15	12	7.8	7.2	7.4	7.5	16	327	153	46	18	19
11. . . .	14	11	7.6	7.4	7.2	7.5	17	412	142	43	24	19
12. . . .	15	10	7.0	7.2	7.0	7.7	22	492	137	43	30	17
13. . . .	13	9.5	6.7	7.0	7.0	8.0	24	599	136	43	24	16
14. . . .	*13	8.0	6.4	*6.9	7.2	8.2	22	638	128	50	18	20
15. . . .	12	9.0	6.0	6.9	7.4	8.5	22	560	128	43	17	17
16. . . .	14	10	6.0	7.0	7.2	8.8	31	464	139	39	18	15
17. . . .	15	11	6.2	6.8	7.5	8.8	26	442	151	35	20	14
18. . . .	15	11	7.0	6.6	7.8	9.0	22	447	151	34	26	14
19. . . .	15	10	7.2	6.6	*8.0	10	23	422	153	33	19	13
20. . . .	15	9.6	7.0	6.8	8.0	11	20	380	151	35	17	13
21. . . .	14	9.8	6.4	7.0	8.2	12	20	353	144	32	16	13
22. . . .	14	9.6	6.6	7.0	8.2	12	21	351	142	29	17	13
23. . . .	14	9.2	7.2	7.1	8.4	12	*26	344	132	26	17	14
24. . . .	12	9.0	7.2	7.4	8.4	12	29	336	129	25	16	14
25. . . .	12	8.5	7.0	7.0	8.5	13	27	322	121	24	16	14
26. . . .	12	8.2	6.8	7.0	8.4	14	33	312	112	31	17	14
27. . . .	12	8.0	6.0	6.4	8.0	*14	40	298	100	25	15	13
28. . . .	13	8.0	6.4	6.4	7.5	13	46	272	90	22	14	13
29. . . .	12	8.2	7.0	6.2	...	13	54	255	82	20	13	13
30. . . .	12	8.2	7.4	6.2	...	13	76	231	75	20	14	13
31. . . .	12	...	7.6	6.5	...	14	...	221	...	19	13	...
Total	438	308.8	220.9	211.6	209.3	307.6	756	9762	4339	1254	552	440
Mean.	14.1	10.3	7.13	6.83	7.48	9.92	25.2	315	145	40.5	17.8	14.7
Max. . .	18	13	8.2	7.6	8.5	14	76	638	216	72	30	20
Min. . .	12	8.0	6.0	6.2	6.6	7.5	15	96	75	19	13	13
Acre-ft.	869	612	438	420	415	610	1500	19360	8610	2490	1090	873

Total run-off for water year=37,290 acre-feet.

Discharge of Willow Creek Near Granby, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1. . . .	13	14	9.8	9.6	9.0	9.0	17	54	405	84	24	12
2. . . .	13	13	9.6	9.2	9.2	9.0	20	56	392	72	24	12
3. . . .	13	16	10	8.8	9.4	9.6	24	52	379	67	27	11
4. . . .	13	14	10	8.6	9.4	10	29	53	410	62	26	12
5. . . .	13	15	10	8.6	9.4	10	34	58	387	57	25	12
6. . . .	14	15	10	9.2	9.6	11	38	55	379	56	24	13
7. . . .	14	14	9.8	10	9.8	11	44	72	363	53	23	12
8. . . .	15	14	9.6	11	9.6	10	50	105	337	52	22	12
9. . . .	17	14	9.8	11	9.4	10	66	135	327	53	21	11
10. . . .	15	15	10	11	9.0	11	78	197	309	50	20	11
11. . . .	14	14	10	11	8.8	11	88	242	298	49	20	12
12. . . .	14	14	10	11	8.8	12	78	244	311	41	20	13
13. . . .	14	15	11	11	8.8	12	80	204	290	38	26	13
14. . . .	21	12	11	*11	8.8	12	84	169	254	39	23	12
15. . . .	18	14	11	10	8.6	12	80	147	232	38	21	12
16. . . .	16	14	10	10	8.4	12	72	140	223	40	20	12
17. . . .	15	14	10	9.4	8.2	*12	78	130	218	37	19	12
18. . . .	14	14	10	9.0	*8.2	12	74	129	220	52	19	12
19. . . .	14	11	10	9.0	8.4	11	67	138	211	44	19	14
20. . . .	14	10	11	9.2	8.6	11	62	142	197	39	19	15
21. . . .	14	10	10	9.4	9.0	12	65	177	177	34	18	14
22. . . .	14	9.0	10	9.4	9.0	12	68	249	162	33	18	13
23. . . .	14	8.4	10	9.6	9.0	12	74	339	232	31	17	13
24. . . .	14	7.8	10	9.8	8.6	12	65	397	129	32	17	13
25. . . .	14	8.0	10	10	8.4	12	62	446	114	29	18	12
26. . . .	15	8.6	10	10	8.4	12	61	528	104	28	15	12
27. . . .	14	*9.1	9.6	10	8.6	12	56	616	98	26	14	12
28. . . .	14	9.4	9.0	9.8	9.0	13	52	533	92	26	13	12
29. . . .	14	10	9.4	9.4	...	13	54	486	83	25	12	12
30. . . .	15	9.8	9.8	9.0	...	14	56	460	78	31	12	12
31. . . .	13	...	10	8.8	...	15	...	432	...	25	12	...
Total	449	366.1	310.4	302.8	249.4	356.6	1776	7173	7321	1343	608	370
Mean.	14.5	12.2	10.0	9.77	8.91	11.5	59.2	232	244	43.3	19.6	12.3
Max. . .	21	16	11	11	9.8	15	88	616	410	84	27	15
Min. . .	13	7.8	9.0	8.6	8.2	9.0	17	52	78	25	12	11
Acre-ft.	891	726	616	601	495	707	3580	14240	14520	2660	1210	734

Total run-off for water year=40,920 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fraser River Near Winter Park, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.2	13	10	9.1	7.2	8.0	12	24	21	11	4.9	3.4
2....	5.6	15	9.9	8.5	6.6	8.2	11	28	20	10	4.6	3.4
3....	5.2	13	9.5	7.0	6.4	7.5	10	27	19	9.5	4.9	3.4
4....	5.2	13	9.0	6.5	6.1	8.0	9.9	22	19	9.1	4.9	3.4
5....	5.9	10	9.0	7.0	6.4	8.6	11	22	20	9.1	1.9	3.1
6....	6.5	8.5	9.2	7.5	6.4	8.2	11	19	19	8.2	4.9	3.4
7....	5.9	14	9.5	7.0	6.5	8.6	10	19	20	8.2	7.5	3.4
8....	5.6	*14	9.5	8.0	6.6	7.0	10	22	19	7.8	6.2	4.6
9....	5.6	13	9.5	7.5	7.0	7.8	11	26	19	7.5	4.6	5.2
10....	5.6	12	9.1	7.5	*7.2	7.0	12	30	23	7.5	4.6	5.6
11....	5.2	10	8.6	7.5	7.2	7.5	13	30	20	7.2	5.2	4.9
12....	5.2	8.5	8.0	7.2	7.2	6.6	17	33	19	7.2	6.8	4.4
13....	5.2	7.5	9.1	*6.8	7.2	7.0	16	35	18	7.2	5.6	4.4
14....	5.2	8.0	7.5	6.5	7.2	7.8	13	32	16	6.8	4.4	4.9
15....	6.8	9.0	8.0	6.5	7.2	8.6	12	29	15	6.8	4.4	4.6
16....	32	11	7.0	6.5	7.2	8.0	13	29	14	6.8	4.6	4.4
17....	22	12	8.0	6.5	7.2	8.4	14	29	14	6.5	4.9	4.4
18....	19	12	8.6	6.5	7.2	9.0	12	26	13	6.5	4.4	4.4
19....	18	12	7.5	6.5	7.2	9.5	12	25	13	6.5	4.1	4.1
20....	17	11	8.2	6.5	7.2	9.9	12	22	13	6.8	4.1	4.1
21....	16	11	7.2	6.5	7.2	9.9	12	22	13	7.2	4.1	4.1
22....	16	10	8.0	6.5	7.2	10	13	22	13	7.5	3.9	4.1
23....	16	8.5	9.0	6.5	7.2	*11	14	22	12	6.2	3.9	4.6
24....	16	11	9.1	6.8	7.2	11	15	22	13	5.9	3.7	4.6
25....	16	10	9.1	6.8	7.2	10	17	22	13	6.2	3.7	4.9
26....	15	9.9	9.1	7.5	7.0	10	21	23	12	6.5	3.9	4.6
27....	16	9.0	8.5	6.8	6.4	10	23	22	12	6.5	3.9	4.6
28....	15	9.9	8.8	6.2	7.0	12	24	22	11	5.9	3.7	4.4
29....	14	9.9	9.5	6.8	....	11	23	22	11	5.6	3.7	4.9
30....	14	10	9.1	7.2	....	9.9	22	22	11	5.2	3.7	4.9
31....	14	....	9.1	7.2	....	11	....	22	....	4.9	3.7	....
Total	360.9	325.7	271.2	217.4	195.1	277	425.9	772	475	223.8	132.4	129.5
Mean...	11.6	10.9	8.75	7.01	6.97	8.94	14.2	24.9	15.8	7.22	4.59	4.32
Max....	32	15	10	9.1	7.2	12	24	35	23	11	7.5	5.6
Min....	5.2	7.5	7.0	6.2	6.4	6.6	9.9	19	11	4.9	3.7	3.4
Acre-ft.	716	646	538	431	387	549	845	1530	942	444	282	257

Total run-off for water year=7,570 acre-feet.

*Discharge measurement made on this day.

Discharge of Fraser River Near Winter Park, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.7	15	10	8.8	7.6	5.9	8.4	18	205	157	5.3	3.5
2....	4.7	15	10	8.8	7.8	5.9	8.6	17	215	152	5.9	3.5
3....	4.7	17	10	8.5	7.8	6.2	8.8	16	205	141	5.9	3.5
4....	5.6	13	10	8.2	7.4	6.2	8.8	18	220	135	5.3	3.8
5....	5.0	13	10	8.0	7.1	6.6	8.6	22	224	135	5.0	4.0
6....	5.0	13	9.9	7.8	7.1	6.8	8.4	23	244	50	5.0	3.8
7....	5.0	12	10	9.0	7.1	6.8	8.4	27	267	11	4.4	3.8
8....	5.0	12	9.9	11	7.1	6.8	8.6	33	251	10	4.1	3.8
9....	5.3	12	9.9	10	7.1	6.8	9.2	40	239	9.9	4.1	3.6
10....	5.3	12	9.6	8.8	7.4	6.8	9.4	50	224	9.9	4.1	3.6
11....	5.0	13	9.6	9.2	7.4	6.8	10	59	254	9.2	4.1	4.0
12....	5.0	12	9.6	9.2	7.4	6.8	11	62	282	8.5	4.4	4.0
13....	5.6	11	9.6	9.6	7.4	7.1	12	49	259	8.5	4.1	4.0
14....	5.9	11	9.6	9.2	7.4	6.8	14	45	232	8.2	4.1	3.8
15....	5.3	11	9.6	9.0	7.4	7.1	15	43	210	7.8	4.1	3.6
16....	5.0	11	9.2	9.0	6.8	6.2	15	45	227	7.8	4.0	3.6
17....	5.0	12	9.2	9.2	6.1	5.6	15	45	264	8.2	4.1	3.6
18....	4.7	12	9.2	9.2	6.2	6.8	14	43	285	8.5	4.1	3.6
19....	4.7	12	9.2	8.6	6.2	6.5	14	42	282	7.1	4.1	4.0
20....	4.7	11	9.6	8.4	6.4	6.2	15	45	262	6.8	4.1	4.0
21....	4.7	10	9.2	9.2	6.6	6.2	15	59	241	6.5	4.1	4.0
22....	5.0	10	9.2	8.8	6.8	6.6	17	74	229	6.2	4.1	4.0
23....	5.3	10	9.2	8.5	6.2	7.0	20	115	224	6.2	4.1	4.0
24....	5.3	10	8.8	8.5	6.2	7.4	19	128	227	6.8	4.1	4.0
25....	5.3	11	8.8	8.5	6.2	7.4	18	137	217	5.9	4.1	3.8
26....	5.3	11	8.2	8.5	5.9	7.2	16	148	208	5.9	4.0	3.8
27....	5.3	12	8.0	8.5	6.2	7.2	16	172	193	7.1	3.6	3.6
28....	5.3	12	8.2	8.5	6.2	7.4	17	160	172	7.1	3.5	3.6
29....	5.3	11	8.4	8.5	....	7.6	17	176	164	5.9	3.5	3.5
30....	7.1	10	8.5	8.5	....	7.8	17	184	174	5.9	3.5	3.5
31....	13	....	8.8	8.2	....	8.2	....	193	....	5.6	3.5	....
Total	168.1	357	289.0	273.7	192.5	210.7	394.2	2288	6900	960.5	132.4	112.9
Mean...	5.42	11.9	9.32	8.83	6.88	6.80	13.1	73.8	230	31.0	4.27	3.76
Max....	13	17	10	11	7.8	8.2	20	193	285	157	5.9	4.0
Min....	4.7	10	8.0	7.8	5.9	5.6	8.4	16	164	5.6	3.5	3.5
Acre-ft.	333	708	573	543	382	418	782	4540	13690	1910	263	224

Total run-off for water year=24,370 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fraser River at Granby, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	77	55	59	43	33	45	170	292	158	203	49	40
2....	66	64	57	39	33	44	164	308	136	183	46	41
3....	59	64	55	37	33	44	154	361	415	154	43	39
4....	52	68	52	36	34	44	148	375	415	134	41	37
5....	54	44	52	35	34	45	148	292	420	126	57	37
6....	79	*77	51	35	34	46	145	276	415	113	83	36
7....	64	75	49	36	34	46	140	228	405	102	62	37
8....	61	75	*49	37	35	47	137	224	412	95	71	57
9....	62	70	47	38	36	46	137	300	420	93	59	61
10....	68	57	44	39	36	45	137	370	405	89	55	64
11....	61	40	44	39	*35	47	137	463	370	81	62	61
12....	57	30	43	38	35	48	170	523	338	87	83	55
13....	55	28	41	38	35	50	190	681	352	87	83	52
14....	52	29	38	38	35	52	154	770	316	95	62	57
15....	51	35	35	38	36	54	148	694	312	111	61	54
16....	59	45	35	37	37	54	140	562	347	102	81	49
17....	85	57	35	36	38	54	140	596	352	91	83	47
18....	71	58	35	35	39	56	129	632	395	83	70	46
19....	70	57	36	35	41	60	129	556	528	89	62	46
20....	70	53	36	34	42	64	129	501	534	81	71	44
21....	68	50	36	*34	42	66	129	485	501	73	71	44
22....	66	51	37	34	41	68	132	517	452	57	62	41
23....	68	54	39	34	41	70	142	506	431	46	61	44
24....	64	58	39	35	41	80	126	523	436	47	57	47
25....	66	60	38	36	42	85	132	534	474	44	54	49
26....	66	58	38	36	43	88	145	550	390	64	54	49
27....	70	54	38	35	44	91	183	550	342	64	51	44
28....	68	51	39	35	45	98	265	490	300	62	47	41
29....	62	52	41	35	....	*111	300	523	257	57	46	43
30....	70	55	42	34	....	151	292	479	200	55	47	46
31....	68	....	44	34	....	139	....	463	....	51	43	....
Total	2009	1624	1324	1125	1054	2038	4792	14624	11828	2819	1877	1408
Mean...	64.8	54.1	42.7	36.3	37.6	65.7	160	472	394	90.9	60.5	46.9
Max....	79	77	59	43	45	151	300	770	534	203	83	64
Min....	51	28	35	34	33	44	126	224	200	44	41	36
Acres-ft.	3980	3220	2630	2230	2090	4040	9500	29010	23460	5590	3720	2790

Total run-off for water year—92,260 acre-feet.

Discharge of Fraser River at Granby, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	43	53	60	50	52	43	58	210	1370	452	72	30
2....	41	56	60	48	54	42	66	*230	1400	410	81	31
3....	43	74	58	46	54	43	80	203	1330	385	83	30
4....	44	67	58	45	52	44	90	237	1390	365	69	30
5....	46	65	56	45	52	45	110	360	1440	355	65	39
6....	44	72	56	45	52	44	140	308	1440	345	67	39
7....	43	62	54	46	50	43	160	375	1450	271	63	37
8....	43	48	56	50	50	43	190	390	1370	257	62	36
9....	46	65	56	52	50	44	220	415	1320	250	60	34
10....	46	74	58	54	50	44	240	452	1200	240	60	33
11....	43	67	60	52	50	44	270	521	1280	233	58	37
12....	41	62	62	50	52	43	260	567	1410	210	60	40
13....	46	78	62	50	52	41	250	452	1350	189	69	39
14....	65	63	62	*48	50	40	270	400	1100	186	62	35
15....	51	71	60	46	49	40	270	360	920	140	56	34
16....	46	71	60	46	48	40	230	355	940	136	55	33
17....	44	72	60	46	*47	40	260	370	1090	179	55	30
18....	41	71	62	46	46	41	240	340	1160	278	53	31
19....	39	56	62	48	47	41	220	320	1160	162	53	33
20....	39	54	60	48	48	42	220	320	1040	146	51	33
21....	39	50	60	50	47	43	230	365	940	143	51	31
22....	40	48	58	52	46	44	250	446	890	112	48	30
23....	43	46	58	54	45	44	320	602	818	100	51	30
24....	44	48	56	54	44	44	300	791	800	112	48	30
25....	44	50	56	54	44	45	270	900	737	100	48	29
26....	18	56	54	54	45	46	270	1190	686	88	48	29
27....	48	58	52	54	45	47	260	1470	623	78	43	29
28....	16	*60	48	52	44	48	240	1330	530	90	40	29
29....	44	60	52	52	....	49	230	1350	458	86	37	27
30....	51	60	52	52	....	50	240	1370	452	90	35	28
31....	50	....	52	52	....	52	....	1390	....	78	33	....
Total	1391	1837	1780	1541	1365	1359	6454	18392	32104	6266	1736	976
Mean...	44.9	61.2	57.4	49.7	48.8	43.8	215	593	1070	202	56.0	32.5
Max....	65	78	62	54	54	52	320	1470	1450	452	83	47
Min....	39	46	48	45	44	40	58	203	452	78	33	20
Acres-ft.	2760	3640	3530	3060	2710	2700	12800	36480	63680	12430	3440	1940

Total run-off for water year—449,200 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Vasquez Creek Near Winter Park, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3.5	11	8.4	7.6	4.0	4.5	7.2	13	1.6	0.3	0.7	0.6
2....	3.1	12	8.4	7.2	4.0	6.0	7.4	16	1.5	0.2	0.6	0.6
3....	2.8	12	8.8	6.4	4.0	6.0	7.4	22	1.4	0.2	0.6	0.6
4....	2.6	11	8.4	7.2	4.0	5.6	7.4	23	1.4	0.3	0.6	0.6
5....	2.8	9.0	8.8	7.2	4.0	5.6	7.5	18	1.3	0.4	0.6	0.6
6....	3.1	9.0	9.2	6.8	4.5	6.0	7.5	15	1.2	0.4	0.7	0.6
7....	3.1	11	8.8	6.4	4.5	5.6	7.5	13	1.1	0.3	0.7	0.7
8....	2.8	*13	9.2	7.2	4.5	5.0	7.5	15	1.0	0.3	0.8	1.2
9....	2.8	12	11	7.2	4.5	5.6	7.6	28	1.0	0.3	0.6	1.2
10....	3.1	11	10	7.2	4.5	5.6	7.6	34	1.2	0.3	0.9	1.2
11....	2.8	9.0	8.5	7.2	5.6	5.6	7.6	28	1.2	0.3	1.3	1.2
12....	2.8	8.0	7.8	7.6	5.6	5.6	8.4	30	2.0	0.7	1.5	1.0
13....	2.8	7.2	7.5	*8.0	5.6	5.6	9.6	34	1.6	0.6	1.0	1.0
14....	2.8	7.5	7.4	8.0	6.0	6.4	8.5	22	0.8	0.6	0.8	1.1
15....	3.1	8.0	7.4	6.8	5.6	6.0	8.0	17	0.7	0.6	0.9	1.0
16....	13	9.5	7.2	6.8	5.6	6.0	8.8	15	0.7	0.4	1.1	0.9
17....	13	12	7.2	6.8	5.2	6.0	8.8	15	0.6	0.4	1.3	0.8
18....	13	12	7.2	6.4	5.2	6.0	8.8	12	1.4	0.4	0.9	0.8
19....	12	12	7.4	6.0	5.6	6.0	8.5	9.6	140	1.0	0.9	0.8
20....	12	10	7.4	6.0	6.0	6.0	8.5	8.4	135	3.1	1.0	0.8
21....	12	10	7.4	6.0	*6.0	5.6	9.0	8.0	98	2.8	0.8	0.8
22....	12	10	7.5	4.8	5.2	6.4	8.8	7.2	67	1.0	0.8	0.8
23....	12	9.6	7.5	5.2	4.5	6.4	8.8	13	64	0.8	0.8	1.0
24....	12	9.6	8.0	5.2	4.5	6.4	8.8	6.4	69	0.8	0.7	1.0
25....	11	9.6	8.2	5.0	4.3	6.0	8.8	5.2	90	0.9	0.7	1.0
26....	11	9.6	8.2	5.0	4.0	6.0	*8.8	5.2	74	1.1	0.8	1.0
27....	12	9.6	8.2	5.2	4.0	*6.4	10	4.5	65	1.1	0.8	0.9
28....	10	9.6	8.4	5.0	4.0	7.2	10	3.5	54	1.0	0.7	0.9
29....	12	9.6	8.4	4.5	....	6.5	10	3.5	21	0.8	0.7	1.0
30....	11	9.2	8.4	4.5	....	6.8	10	2.6	0.3	0.8	0.7	1.1
31....	10	....	8.4	4.5	....	7.0	....	2.2	....	0.7	0.6	....
Total	232	302.6	254.6	194.9	135.0	185.4	253.1	449.3	911.6	22.9	25.6	26.8
Mean	7.48	10.1	8.21	6.29	4.82	5.98	8.44	14.5	30.1	0.74	0.83	0.89
Max.	13	13	11	8.0	6.0	7.2	10	34	140	3.1	1.5	1.2
Min.	2.6	7.2	7.2	4.5	4.0	4.5	7.2	2.2	0.3	0.2	0.6	0.6
Acre-ft.	460	600	505	387	268	368	502	891	1810	45	51	53

Total run-off for water year=5,940 acre-feet.

Discharge of Vasquez Creek Near Winter Park, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.1	16	9.2	7.6	6.4	5.2	8.0	11	200	186	1.8	1.1
2....	1.0	17	9.2	7.6	6.6	5.4	8.0	10	192	178	2.1	0.5
3....	1.0	18	9.2	7.4	6.4	5.6	8.0	19	167	171	2.1	0.4
4....	1.4	17	9.0	7.2	6.2	5.8	8.0	13	174	164	1.7	0.4
5....	1.2	16	9.0	7.2	6.0	6.0	8.0	15	212	159	1.6	1.3
6....	1.1	15	8.8	7.4	6.0	6.0	8.0	13	234	157	1.6	1.3
7....	1.1	14	8.8	7.8	6.0	6.2	8.0	15	258	150	1.5	1.2
8....	1.1	13	8.8	8.8	6.0	6.4	8.2	16	252	145	1.3	1.2
9....	1.4	13	8.6	8.2	6.0	6.6	8.4	20	242	142	1.3	1.1
10....	1.2	14	8.6	7.4	6.0	7.0	8.4	26	227	138	1.3	1.1
11....	1.1	15	8.6	7.6	6.0	7.2	8.4	33	247	126	1.3	1.3
12....	1.1	16	8.4	7.8	6.2	7.2	8.4	36	271	114	1.5	1.2
13....	1.2	16	8.4	*7.8	6.0	7.4	9.0	27	276	105	1.6	1.1
14....	1.7	15	8.4	7.0	6.0	7.4	10	23	267	90	1.3	1.1
15....	1.4	14	8.4	7.6	5.6	8.0	11	22	254	1.5	1.3	1.0
16....	1.2	14	8.2	7.8	5.2	8.2	11	25	254	4.5	1.3	1.0
17....	1.2	13	8.2	7.8	4.9	8.4	11	26	267	2.8	1.2	1.0
18....	1.1	13	8.0	7.8	4.9	8.4	11	23	262	4.2	1.2	1.0
19....	1.1	13	8.0	7.4	4.9	8.0	10	24	246	3.8	1.2	1.1
20....	1.1	12	8.2	7.6	4.9	7.6	10	26	270	1.5	1.3	1.1
21....	1.1	11	8.0	7.8	5.0	7.6	10	33	249	24	1.3	1.0
22....	1.1	9.6	8.0	7.6	5.0	7.8	11	46	241	10	1.3	1.0
23....	1.2	9.6	7.8	7.4	4.9	7.8	14	67	239	5.8	1.3	1.0
24....	1.2	9.8	7.8	7.2	4.9	7.8	12	84	241	3.5	1.2	1.0
25....	1.4	10	7.4	7.2	4.9	7.8	9.7	100	236	3.0	1.2	1.0
26....	1.4	10	7.2	7.2	*4.9	7.8	9.3	135	231	2.4	1.2	1.0
27....	1.2	10	7.2	7.2	5.0	8.0	8.9	157	224	2.5	1.1	1.0
28....	1.2	*10	7.2	7.2	5.2	8.0	9.3	140	210	3.5	1.1	1.0
29....	2.0	9.6	7.4	7.0	....	8.0	10	162	198	2.5	1.1	1.0
30....	14	9.2	7.6	7.0	....	8.0	10	182	190	2.2	1.1	1.0
31....	15	....	7.8	6.6	....	8.0	....	194	....	2.0	1.1	....
Total	64.6	392.8	255.4	232.8	156.0	224.6	285.0	1714	7031	2131.7	42.5	30.5
Mean	2.08	13.1	8.24	7.51	5.57	7.25	9.50	55.3	234	68.8	1.37	1.02
Max.	15	18	9.2	8.8	6.6	8.4	14	194	276	186	2.1	1.3
Min.	10	9.2	7.2	6.6	4.9	5.2	8.0	10	167	2.0	1.1	0.4
Acre-ft.	128	779	507	462	309	445	565	3400	13950	4230	84	60

Total run-off for water year=24,920 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Louis Creek Near Fraser, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	25	12	9.0	9.0	8.4	8.4	8.0	16	118	114	35	20
2.	23	14	9.0	8.8	8.8	8.0	8.0	18	120	106	34	20
3.	23	14	9.0	8.4	8.4	8.0	8.0	22	122	102	33	18
4.	20	12	9.0	7.5	8.0	8.4	8.0	24	127	98	32	19
5.	23	16	9.0	8.5	7.5	8.0	8.0	18	134	97	31	18
6.	24	9.0	9.0	9.0	7.5	8.0	8.0	16	129	91	34	17
7.	22	12	9.0	8.2	7.5	8.0	8.0	14	127	89	34	18
8.	21	*12	9.0	9.0	7.5	8.8	8.0	18	124	86	32	24
9.	23	11	9.5	9.6	8.0	8.0	8.0	29	114	82	30	24
10.	22	11	9.0	9.6	8.2	8.8	8.4	40	104	81	30	26
11.	20	10	8.5	9.6	8.4	8.4	8.4	50	95	78	33	26
12.	19	9.5	8.5	9.6	8.4	8.0	10	68	89	76	33	24
13.	18	8.5	8.0	9.6	8.4	8.0	10	93	93	71	30	23
14.	18	9.0	8.0	9.6	8.0	8.8	9.2	95	98	67	27	24
15.	17	11	8.0	9.6	8.0	8.8	8.8	81	102	65	30	21
16.	16	12	8.0	9.6	8.0	8.8	10	76	114	65	35	19
17.	16	12	8.0	9.6	8.0	8.8	8.8	86	132	61	33	19
18.	16	10	8.0	9.6	8.0	8.8	8.8	93	156	58	30	18
19.	16	11	8.0	9.2	8.4	8.8	8.8	89	172	57	30	18
20.	16	10	8.0	9.2	8.8	8.4	9.2	81	172	55	36	18
21.	16	10	8.0	9.2	8.0	8.4	10	86	172	52	32	17
22.	16	9.5	8.5	9.2	8.0	9.2	9.6	89	172	50	30	17
23.	16	9.0	8.5	8.8	8.4	9.2	9.2	93	172	48	28	19
24.	16	9.0	9.0	8.8	8.0	8.8	9.6	102	188	46	26	19
25.	16	9.0	9.0	8.0	8.0	8.8	10	106	193	46	26	19
26.	16	9.0	9.0	8.0	7.5	8.8	10	114	162	49	24	18
27.	17	9.0	9.0	8.0	7.2	8.8	11	116	149	47	23	17
28.	16	9.5	9.0	8.0	7.8	7.7	12	114	139	43	22	16
29.	16	10	9.0	8.0	....	7.4	13	116	127	41	22	18
30.	16	9.5	9.5	8.0	....	7.4	14	116	118	39	23	20
31.	15	....	9.5	8.0	....	8.0	....	122	....	38	21	....
Total	574	313.5	269.5	274.8	225.1	260.5	280.8	2201	4034	2098	922	594
Mean.	18.5	10.4	8.69	8.86	8.04	8.40	9.36	71.0	134	67.7	29.7	19.8
Max.	25	14	9.5	9.6	8.8	9.2	14	122	193	114	36	26
Min.	15	8.5	8.0	7.5	7.2	7.4	8.0	14	89	38	21	16
Acre-ft.	1140	622	535	545	446	517	557	4370	8000	4160	1830	1180

Total run-off for water year=23,900 acre-feet.

Discharge of St. Louis Creek Near Fraser, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.	18	16	11	9.8	9.4	8.4	9.5	15	116	136	54	19
2.	17	16	11	9.6	9.2	8.4	9.0	14	127	132	54	20
3.	17	16	11	9.4	9.4	8.6	9.8	13	136	124	52	19
4.	19	16	11	9.2	9.4	8.6	9.8	15	156	122	48	20
5.	18	16	11	9.2	9.0	8.8	9.8	16	162	122	47	22
6.	17	15	10	9.8	8.8	9.0	9.5	16	180	122	44	20
7.	16	14	10	11	8.8	9.0	9.2	17	195	122	41	20
8.	17	14	11	12	8.8	9.0	9.8	19	190	120	40	19
9.	18	13	11	11	9.0	9.0	10	22	185	116	39	18
10.	16	13	11	11	9.0	9.0	10	30	172	114	37	19
11.	16	13	11	11	9.2	9.0	11	34	206	106	36	23
12.	16	14	11	11	9.2	9.0	12	32	218	102	36	20
13.	19	14	11	*11	9.0	9.0	13	26	195	97	35	19
14.	20	14	11	11	8.8	9.0	15	23	175	95	33	19
15.	18	14	11	11	8.4	9.2	16	23	159	98	31	18
16.	16	14	11	11	8.2	9.2	16	23	185	95	30	18
17.	16	14	11	11	7.8	9.2	16	23	223	110	29	17
18.	16	14	11	11	7.8	9.2	14	22	254	112	29	18
19.	15	14	11	10	8.0	9.2	13	23	260	95	28	18
20.	16	11	11	10	8.2	9.0	15	24	240	88	28	18
21.	15	10	10	11	8.2	9.0	13	30	223	82	27	17
22.	16	11	10	10	8.2	9.0	16	38	206	78	27	17
23.	16	10	10	10	8.2	9.2	18	49	198	76	27	16
24.	16	10	10	10	8.4	9.0	16	58	195	76	26	16
25.	16	11	9.8	10	8.4	9.0	15	71	188	70	26	16
26.	16	11	9.4	10	*8.4	8.8	14	97	180	65	25	16
27.	15	11	9.4	10	8.4	8.8	13	104	169	67	23	16
28.	16	*11	9.6	10	8.6	8.8	14	98	149	70	22	16
29.	16	11	9.8	10	....	9.5	14	108	139	64	22	16
30.	14	11	10	10	....	9.0	14	114	139	60	20	16
31.	16	....	10	9.6	....	9.5	....	114	....	57	20	....
Total	513	392	326.0	320.6	242.2	278.4	384.4	1311	5520	2993	1036	546
Mean.	16.5	13.1	10.5	10.3	8.65	8.98	12.8	423	184	96.5	33.4	18.2
Max.	20	16	11	12	9.4	9.5	18	114	260	136	54	23
Min.	14	10	9.4	9.2	7.8	8.4	9.0	13	116	57	20	16
Acre-ft.	1020	778	647	636	480	552	762	2600	10950	5940	2050	1080

Total run-off for water year=27,500 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ranch Creek Above Forks Near Fraser, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	3.1	.....	.....	.....	.....	.....	.....	2.5	31	15	4.1	1.8
2.....	3.1	.....	.....	.....	.....	.....	.....	3.5	31	14	4.1	1.8
3.....	3.0	.....	.....	.....	.....	.....	.....	4.8	32	12	3.9	1.7
4.....	3.0	.....	.....	.....	.....	.....	.....	4.4	35	11	3.7	1.7
5.....	3.0	.....	.....	.....	.....	.....	.....	4.0	35	11	3.9	1.7
6.....	3.3	.....	.....	.....	.....	.....	.....	3.4	31	9.4	3.7	1.7
7.....	3.3	.....	.....	.....	.....	.....	.....	3.0	31	9.4	4.1	1.9
8.....	3.3	.....	.....	.....	.....	.....	.....	3.4	30	9.1	3.5	2.1
9.....	3.4	.....	.....	.....	.....	.....	.....	3.8	26	8.5	3.3	2.2
10.....	.....	.....	.....	.....	.....	.....	.....	4.5	22	8.2	3.1	2.3
11.....	.....	.....	.....	.....	.....	.....	.....	11	20	7.9	3.5	2.3
12.....	.....	.....	.....	.....	.....	.....	.....	18	18	7.9	3.7	2.2
13.....	.....	.....	.....	.....	.....	.....	.....	29	18	7.3	3.1	2.3
14.....	.....	.....	.....	.....	.....	.....	.....	37	20	7.3	2.7	2.3
15.....	.....	.....	.....	.....	.....	.....	.....	28	28	7.0	2.7	2.1
16.....	.....	.....	.....	.....	.....	.....	.....	22	35	7.0	2.9	2.1
17.....	.....	.....	.....	.....	.....	.....	.....	28	42	6.5	2.7	2.1
18.....	.....	.....	.....	.....	.....	.....	.....	36	41	6.5	2.7	2.1
19.....	.....	.....	.....	.....	.....	.....	.....	30	40	6.2	2.7	2.1
20.....	.....	.....	.....	.....	.....	.....	.....	21	37	6.2	2.7	2.0
21.....	.....	.....	.....	.....	.....	.....	.....	19	35	5.8	2.4	2.0
22.....	.....	.....	.....	.....	.....	.....	.....	19	36	5.5	2.3	2.2
23.....	April 24 to 30	17	35	5.2	2.3	2.4
24.....	*1.0	20	30	5.0	2.1	2.4
25.....	1.2	30	28	5.0	2.1	2.5
26.....	1.3	37	24	5.0	2.0	2.4
27.....	1.5	35	22	5.0	1.9	2.4
28.....	1.7	33	19	4.8	1.8	2.4
29.....	1.7	32	17	4.5	1.8	2.5
30.....	Oct. 1	1.8	31	16	4.3	1.8	2.4
31.....	to 9	33	4.3	1.8
Total	28.5	10.2	603.3	865	231.8	89.1	64.1
Mean...	3.17	1.46	19.5	28.8	7.48	2.87	2.14
Max....	3.1	1.8	37	42	15	4.1	2.5
Min....	3.0	1.0	2.5	16	4.3	1.8	1.7
Acree-ft.	57	20	1200	1720	460	177	127

Total run-off for period=3,760 acre-feet.
*Discharge measurement made on this day.

Discharge of Ranch Creek Above Forks Near Fraser, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	2.4	.....	.....	.....	.....	.....	.....	.....	34	24	5.2	2.0	
2.....	2.3	.....	.....	.....	.....	.....	.....	.....	41	22	5.0	2.0	
3.....	2.3	.....	.....	.....	.....	.....	.....	.....	36	20	4.8	2.0	
4.....	2.6	.....	.....	.....	.....	.....	.....	.....	40	19	4.5	2.3	
5.....	2.6	.....	.....	.....	.....	.....	.....	.....	45	18	4.3	2.3	
6.....	2.6	.....	.....	.....	.....	.....	.....	.....	55	17	4.1	2.1	
7.....	2.4	.....	.....	.....	.....	.....	.....	.....	66	17	3.9	2.0	
8.....	.....	.....	.....	.....	.....	.....	.....	.....	53	16	3.7	1.8	
9.....	.....	.....	.....	.....	.....	.....	.....	.....	47	15	3.4	1.8	
10.....	.....	.....	.....	.....	.....	.....	.....	.....	49	14	3.4	1.8	
11.....	.....	.....	.....	.....	.....	.....	.....	.....	56	12	3.4	2.0	
12.....	.....	.....	.....	.....	.....	.....	.....	.....	55	12	3.7	2.0	
13.....	.....	.....	.....	.....	.....	.....	.....	.....	May 15 to 31	43	11	3.7	1.8
14.....	.....	.....	.....	.....	.....	.....	.....	.....	38	11	3.4	1.7	
15.....	.....	.....	.....	.....	.....	.....	.....	.....	3.0	38	10	3.2	1.7
16.....	.....	.....	.....	.....	.....	.....	.....	.....	3.0	50	10	3.0	1.7
17.....	.....	.....	.....	.....	.....	.....	.....	.....	3.0	59	10	2.8	1.6
18.....	.....	.....	.....	.....	.....	.....	.....	.....	2.8	61	10	2.6	1.6
19.....	.....	.....	.....	.....	.....	.....	.....	.....	2.8	56	9.1	2.4	1.8
20.....	.....	.....	.....	.....	.....	.....	.....	.....	2.6	52	8.5	2.4	1.7
21.....	.....	.....	.....	.....	.....	.....	.....	.....	3.0	46	8.2	2.6	1.6
22.....	.....	.....	.....	.....	.....	.....	.....	.....	3.7	42	8.2	2.6	1.6
23.....	.....	.....	.....	.....	.....	.....	.....	.....	5.0	40	7.9	2.6	1.6
24.....	.....	.....	.....	.....	.....	.....	.....	.....	6.0	39	7.9	2.4	1.4
25.....	.....	.....	.....	.....	.....	.....	.....	.....	7.3	37	7.3	2.4	1.3
26.....	.....	.....	.....	.....	.....	.....	.....	.....	15	34	7.0	2.4	1.3
27.....	.....	.....	.....	.....	.....	.....	.....	.....	19	30	6.8	2.4	1.3
28.....	.....	.....	.....	.....	.....	.....	.....	.....	17	26	6.5	2.4	1.1
29.....	.....	.....	.....	.....	.....	.....	.....	.....	22	25	6.2	2.3	1.0
30.....	Oct. 1	.....	.....	.....	.....	.....	.....	.....	28	26	6.0	2.3	0.9
31.....	to 7	.....	.....	.....	.....	.....	.....	.....	30	.....	5.5	2.1	.....
Total	17.2	.....	.....	.....	.....	.....	.....	.....	173.2	1319	363.1	99.4	50.8
Mean...	2.46	.....	.....	.....	.....	.....	.....	.....	10.2	44.0	11.7	3.21	1.69
Max....	2.6	.....	.....	.....	.....	.....	.....	.....	30	66	24	5.2	2.3
Min....	2.3	.....	.....	.....	.....	.....	.....	.....	2.6	25	5.5	2.1	0.9
Acree-ft.	34	.....	.....	.....	.....	.....	.....	.....	344	2620	720	197	101

Total run-off for period=4,020 acre-feet.
Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	10	7.4	4.6	4.0	3.5	3.3	4.0	11	114	49	8.9	6.1
2.....	8.9	7.2	4.5	3.8	3.1	3.3	3.8	13	114	45	8.1	6.4
3.....	8.4	6.7	4.5	3.6	3.3	3.3	3.8	18	116	41	8.1	6.2
4.....	7.9	5.8	4.3	3.6	3.3	3.3	4.0	16	118	38	7.9	6.2
5.....	9.2	5.5	4.0	3.8	3.3	3.3	4.4	13	120	37	7.9	6.0
6.....	9.7	5.4	4.1	3.7	3.3	3.3	4.4	12	114	33	8.9	6.0
7.....	9.2	10	4.2	3.7	3.3	3.3	4.1	11	114	31	9.2	6.2
8.....	9.4	10	4.3	3.7	3.4	3.3	4.0	13	110	30	9.7	8.6
9.....	10	9.2	4.2	3.7	3.5	3.3	4.0	19	100	27	8.9	9.2
10.....	10	8.3	4.2	3.7	*3.5	3.3	4.3	28	93	26	8.9	9.1
11.....	9.4	7.2	3.9	3.6	3.5	3.3	4.1	38	85	24	10	9.7
12.....	9.2	5.9	3.9	3.4	3.4	3.3	5.1	53	80	23	14	8.9
13.....	8.9	4.1	4.1	*3.3	3.4	3.3	5.7	71	77	20	11	8.6
14.....	8.6	4.4	3.7	3.2	3.3	3.4	4.6	89	79	19	9.4	9.7
15.....	8.6	4.7	3.9	3.2	3.1	3.3	4.4	81	95	18	9.7	7.9
16.....	8.6	5.1	3.6	3.2	3.3	3.3	4.4	77	110	18	12	7.4
17.....	8.4	5.3	3.7	3.2	3.1	3.4	4.4	87	124	16	11	6.9
18.....	8.1	5.4	4.0	3.2	3.1	3.4	4.5	99	122	15	9.7	6.7
19.....	8.1	5.4	3.9	3.3	3.1	3.4	4.3	87	121	14	9.7	7.2
20.....	7.9	5.0	3.8	3.3	3.1	3.4	4.1	75	115	14	10	5.8
21.....	7.6	5.0	3.8	3.3	3.1	3.3	4.3	79	107	14	9.7	5.5
22.....	7.6	1.6	3.8	3.3	3.1	3.4	4.4	86	107	13	9.4	5.8
23.....	7.6	4.2	1.0	3.4	3.1	3.4	4.6	81	101	12	8.9	7.2
24.....	7.4	4.7	4.3	3.4	3.1	3.3	4.9	87	94	11	8.4	7.4
25.....	7.2	4.5	4.3	3.5	3.1	3.3	5.7	103	87	12	8.4	8.4
26.....	7.2	4.5	4.3	3.4	3.1	3.3	6.9	116	79	13	8.4	8.4
27.....	7.4	4.5	4.1	3.3	3.1	3.4	7.9	119	72	13	7.9	8.1
28.....	6.7	4.6	4.1	3.4	3.1	3.6	8.9	116	66	11	7.4	7.2
29.....	6.9	4.6	4.1	3.5	....	3.6	8.9	116	57	11	7.4	6.7
30.....	6.9	4.6	4.1	3.5	....	3.4	8.9	116	52	11	7.2	6.7
31.....	6.7	....	4.1	3.5	....	3.6	....	121	....	9.4	6.4	....
Total	257.7	173.8	126.4	107.7	91.0	104.1	151.6	2054	2943	668.4	282.5	220.8
Mean	8.31	5.79	4.08	3.47	3.25	3.36	5.05	66.3	98.1	21.6	9.11	7.36
Max...	10	10	4.6	4.0	3.5	3.6	8.9	121	124	49	14	9.7
Min...	6.7	4.2	3.6	3.2	3.1	3.3	3.8	11	52	9.4	6.4	5.5
Acre-ft.	511	345	251	214	180	206	301	4070	5840	1330	560	438

Total run-off for water year=14,250 acre-feet.

*Discharge measurement made on this day.

Discharge of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	6.3	7.8	5.8	3.7	3.1	3.2	3.7	9.6	162	88	11	5.4
2.....	6.1	8.0	5.6	3.7	3.1	3.2	3.8	8.4	172	80	13	5.4
3.....	6.1	8.4	5.4	3.8	3.1	3.2	3.8	8.7	164	73	13	5.3
4.....	7.9	8.2	5.3	3.6	3.1	3.2	3.9	9.3	174	68	12	6.1
5.....	7.6	7.8	5.1	3.4	3.1	3.2	3.7	10	181	65	13	6.8
6.....	7.4	7.4	4.7	3.2	3.0	3.2	3.6	10	206	62	13	6.3
7.....	6.8	7.2	4.7	3.4	3.1	3.4	3.6	13	230	55	12	5.8
8.....	7.6	7.2	4.5	3.2	3.1	3.4	3.7	15	200	52	10	5.4
9.....	8.1	7.4	4.5	3.2	3.1	3.4	4.0	19	182	47	10	5.3
10.....	7.6	7.4	4.5	3.2	3.1	3.4	4.5	25	181	44	9.6	5.1
11.....	7.9	7.8	4.5	3.1	3.1	3.4	5.4	31	195	39	9.3	6.3
12.....	7.6	7.4	4.4	3.2	3.1	3.4	5.4	33	198	36	11	6.1
13.....	9.0	7.0	4.4	3.3	3.1	3.6	5.6	27	173	33	10	5.8
14.....	8.7	6.8	4.4	3.4	3.1	3.6	7.6	25	155	31	9.0	5.1
15.....	7.9	6.8	4.2	3.6	3.1	3.6	9.0	24	144	29	8.7	4.9
16.....	7.6	6.8	4.2	3.6	3.1	3.6	9.3	24	162	30	8.1	4.7
17.....	7.4	7.1	4.0	3.6	3.1	3.6	9.9	23	182	33	7.6	4.5
18.....	6.8	7.1	3.8	3.4	3.1	3.6	8.4	22	193	33	7.4	4.5
19.....	6.6	7.1	3.8	3.2	3.4	3.6	7.9	21	188	26	7.4	5.3
20.....	6.6	7.1	3.8	3.2	3.4	3.6	9.6	23	173	24	7.4	5.3
21.....	6.6	7.1	3.7	3.2	3.4	3.6	10	28	162	22	7.1	5.1
22.....	7.9	7.1	3.7	3.2	3.6	3.6	9.9	35	149	20	7.1	4.7
23.....	8.4	6.8	3.7	3.2	3.6	3.6	12	45	139	19	6.8	4.7
24.....	8.4	6.6	3.7	3.1	3.2	3.6	12	54	126	19	6.8	4.5
25.....	9.0	6.6	3.7	3.1	3.2	3.6	10	68	130	17	6.8	4.4
26.....	8.4	6.6	3.7	3.1	3.2	3.4	9.0	97	119	16	6.3	4.4
27.....	8.4	6.3	3.7	3.1	3.2	3.4	9.0	114	107	14	6.3	4.4
28.....	8.4	5.8	3.7	3.1	3.2	3.4	7.6	116	98	13	5.8	4.2
29.....	7.9	5.8	3.7	3.1	....	3.4	8.4	134	93	12	5.6	4.0
30.....	7.9	5.8	3.7	3.2	....	3.4	9.9	149	94	12	5.6	3.8
31.....	7.6	....	3.7	3.1	....	3.4	....	157	....	11	5.6	....
Total	236.5	212.3	132.3	102.5	89.1	106.8	214.2	1378.0	4842	1123	272.3	153.6
Mean	7.63	7.08	4.27	3.31	3.18	3.45	7.14	44.5	161	36.2	8.78	5.12
Max...	9.0	8.4	5.8	3.8	3.6	3.6	12	157	230	88	13	6.8
Min...	6.1	5.8	3.7	3.1	3.0	3.2	3.6	8.4	93	11	5.6	3.8
Acre-ft.	469	421	262	203	177	212	425	2730	9600	2230	540	305

Total run-off for water year=17,570 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ranch Creek Near Tabernash, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	22	12	12	7.8	6.2	8.2	22	42	208	72	14	11
2.....	20	12	12	7.4	6.2	8.2	21	48	198	67	14	11
3.....	19	12	11	6.8	6.2	8.2	20	56	192	58	13	10
4.....	18	12	11	6.6	6.2	8.2	20	56	196	52	12	10
5.....	18	13	11	6.4	6.2	8.4	19	44	202	50	14	10
6.....	22	18	11	6.6	6.2	8.4	19	42	188	45	17	9.5
7.....	20	16	10	6.6	6.2	8.4	19	32	188	41	17	10
8.....	20	18	10	6.8	6.4	8.6	20	30	188	40	19	18
9.....	20	14	10	7.0	6.4	8.4	23	44	172	38	16	17
10.....	22	12	9.2	7.0	6.4	8.4	25	73	168	35	15	18
11.....	19	8.8	9.0	7.2	6.4	8.6	32	108	144	34	16	19
12.....	18	6.2	9.0	7.0	6.4	8.4	40	142	138	32	26	16
13.....	17	6.0	8.6	7.0	6.4	8.2	48	202	126	28	25	14
14.....	18	6.5	8.0	7.0	6.6	8.2	44	232	121	30	18	16
15.....	18	7.8	7.4	7.0	6.8	8.2	38	210	142	31	18	14
16.....	18	9.8	7.2	6.8	7.0	8.2	36	186	162	28	25	12
17.....	18	12	7.2	6.8	7.2	8.4	36	204	180	25	24	12
18.....	16	12	7.2	6.8	7.2	8.4	32	230	192	26	20	12
19.....	16	12	7.2	6.8	7.4	8.6	32	206	192	25	20	12
20.....	16	11	7.2	6.6	*7.6	8.8	32	178	182	25	22	11
21.....	15	11	7.2	6.6	7.7	9.0	32	182	170	22	19	10
22.....	14	11	7.4	6.6	7.8	9.2	33	206	168	21	17	9.5
23.....	14	12	7.6	*6.6	7.8	9.2	35	188	156	20	17	12
24.....	14	12	7.6	6.6	7.8	9.6	32	196	144	18	16	12
25.....	14	13	7.6	6.4	8.0	11	33	219	134	18	15	14
26.....	13	12	7.6	6.4	8.0	12	37	239	117	24	15	15
27.....	14	11	7.8	6.4	8.2	*12	36	243	107	22	14	14
28.....	12	11	7.8	6.4	8.2	14	45	223	94	19	12	12
29.....	12	11	8.0	6.2	.....	16	46	221	81	18	12	12
30.....	12	12	8.0	6.2	.....	18	44	208	73	18	12	13
31.....	12	.....	8.2	6.2	.....	17	.....	217	.....	16	11	.....
Total	521	347.1	270.0	208.6	195.1	304.4	951	4707	4723	998	524	386
Mean.	16.8	11.6	8.71	6.73	6.97	9.82	31.7	152	157	32.2	16.9	12.9
Max.	22	18	12	7.8	8.2	18	48	243	208	72	26	19
Min.	12	6.0	7.2	6.2	6.2	8.2	19	30	73	16	11	9.5
Acre-ft.	1030	688	536	414	387	604	1890	9340	9370	1980	1040	766

Total run-off for water year= 28,040 acre-feet.

Discharge of Ranch Creek Near Tabernash, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	12	13	9.0	8.2	8.0	6.6	8.4	37	308	131	20	7.4
2.....	11	14	9.0	8.0	8.0	6.6	9.2	36	312	116	23	7.4
3.....	11	14	9.0	7.8	8.0	6.6	9.8	39	304	107	22	7.4
4.....	13	13	9.0	7.6	7.8	6.6	10	47	326	97	19	8.6
5.....	14	13	8.8	7.6	7.6	6.6	10	54	334	91	18	11
6.....	13	12	8.4	7.8	7.4	6.8	10	48	342	90	20	10
7.....	12	12	8.8	8.2	7.4	6.8	10	61	376	81	18	9.5
8.....	14	11	9.0	8.4	7.6	6.8	11	72	340	76	17	9.5
9.....	16	11	9.0	8.6	7.8	6.8	13	76	310	69	16	7.8
10.....	16	11	8.8	8.4	8.0	6.8	15	84	292	65	16	7.8
11.....	15	12	8.8	8.6	8.0	6.8	18	93	318	59	16	11
12.....	14	11	8.8	8.8	8.0	6.8	19	97	334	52	18	12
13.....	16	10	8.8	*8.8	8.0	7.0	19	80	314	47	18	10
14.....	20	9.6	8.8	8.6	8.0	7.0	24	70	264	42	15	10
15.....	16	9.6	8.8	8.6	7.8	7.0	28	64	237	41	14	9.5
16.....	14	9.6	8.8	8.6	7.6	7.0	31	60	248	43	14	9.0
17.....	14	9.6	8.6	8.6	7.2	6.6	32	64	273	54	14	8.6
18.....	12	9.8	8.6	8.4	7.0	6.6	28	55	290	69	13	8.6
19.....	12	9.8	8.6	8.2	6.8	6.6	31	53	279	44	12	11
20.....	12	9.2	8.6	8.2	6.8	6.6	32	52	263	38	12	11
21.....	12	9.2	8.6	8.4	7.0	6.6	35	60	250	34	12	10
22.....	13	9.2	8.6	8.2	7.0	6.6	40	84	228	30	12	9.0
23.....	15	9.4	8.4	8.2	6.8	7.4	54	115	212	27	12	9.0
24.....	16	9.2	8.2	8.0	6.8	6.6	34	139	203	30	12	9.0
25.....	16	9.2	8.0	8.0	6.6	7.0	35	167	200	27	12	8.6
26.....	16	9.0	7.8	8.0	*6.5	6.6	35	228	185	25	12	8.2
27.....	16	9.0	7.8	8.0	6.6	6.6	34	279	169	23	10	8.2
28.....	16	*9.0	7.8	8.0	6.6	6.6	32	266	147	25	10	8.2
29.....	16	9.0	8.0	8.0	.....	6.6	29	290	137	23	9.5	7.8
30.....	16	9.0	8.0	8.0	.....	7.0	37	312	136	23	9.0	7.4
31.....	13	.....	8.2	7.8	.....	7.8	.....	318	.....	22	8.6	.....
Total	442	315.4	265.4	254.6	206.7	210.4	733.4	3500	7931	1701	454.1	272.5
Mean.	14.3	10.5	8.56	8.21	7.38	6.79	24.4	113	264	54.9	14.6	9.08
Max.	20	14	9.0	8.8	8.0	7.8	54	318	376	131	23	12
Min.	11	9.0	7.8	7.6	6.5	6.6	8.4	36	136	22	8.6	7.4
Acre-ft.	877	626	526	505	410	417	1450	6940	15730	3370	901	540

Total run-off for water year=32,290 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.4	.....	.....	.....	.....	.....	.....	1.7	22	13	2.2	0.9
2....	2.5	.....	.....	.....	.....	.....	.....	1.9	22	12	2.1	0.9
3....	2.4	.....	.....	.....	.....	.....	.....	2.7	23	10	2.0	0.9
4....	2.3	.....	.....	.....	.....	.....	.....	2.6	24	10	1.9	0.9
5....	2.4	.....	.....	.....	.....	.....	.....	2.1	25	9.0	2.0	0.9
6....	2.6	.....	.....	.....	.....	.....	.....	2.0	22	8.5	2.1	0.9
7....	2.6	.....	.....	.....	.....	.....	.....	1.9	22	8.0	2.0	1.0
8....	2.7	.....	.....	.....	.....	.....	.....	1.9	22	7.5	1.9	1.4
9....	2.9	.....	.....	.....	.....	.....	.....	2.7	20	7.0	1.8	1.6
10....	.....	.....	.....	.....	.....	.....	.....	4.2	18	6.6	1.9	1.9
11....	.....	.....	.....	.....	.....	.....	.....	6.0	17	6.2	1.9	2.2
12....	.....	.....	.....	.....	.....	.....	.....	8.5	16	5.8	2.6	2.0
13....	.....	.....	.....	.....	.....	.....	.....	12	16	5.4	1.9	1.9
14....	.....	.....	.....	.....	.....	.....	.....	15	17	5.2	1.6	2.3
15....	.....	.....	.....	.....	.....	.....	.....	13	20	4.8	1.7	1.9
16....	.....	.....	.....	.....	.....	.....	.....	13	22	4.7	2.2	1.7
17....	.....	.....	.....	.....	.....	.....	.....	14	25	4.4	1.8	1.7
18....	.....	.....	.....	.....	.....	.....	.....	18	25	4.1	1.4	1.6
19....	.....	.....	.....	.....	.....	.....	.....	16	25	4.0	1.4	1.6
20....	.....	.....	.....	.....	.....	.....	.....	14	24	4.0	1.4	1.6
21....	.....	.....	.....	.....	.....	.....	.....	16	24	3.6	1.2	1.6
22....	.....	.....	.....	.....	.....	.....	.....	18	24	3.4	1.1	1.6
23....	.....	.....	.....	.....	.....	.....	.....	16	22	3.2	1.1	1.9
24....	.....	.....	.....	.....	.....	.....	.....	18	21	2.9	1.0	1.9
25....	.....	.....	.....	.....	.....	.....	.....	1.5	20	3.1	1.0	1.9
26....	.....	.....	.....	.....	.....	.....	.....	1.6	23	19	3.1	1.0
27....	.....	.....	.....	.....	.....	.....	.....	1.6	23	18	2.9	0.9
28....	.....	.....	.....	.....	.....	.....	.....	1.6	22	16	2.6	0.8
29....	.....	.....	.....	.....	.....	.....	.....	1.6	22	15	2.5	0.8
30....	Oct. 1	.....	.....	.....	.....	.....	.....	1.6	22	13	2.3	0.9
31....	to 9	.....	.....	.....	.....	.....	.....	.....	22	.....	2.3	0.8
Total	22.8	.....	.....	.....	.....	.....	.....	9.5	375.2	619	172.1	48.4
Mean	2.53	.....	.....	.....	.....	.....	.....	1.58	12.1	20.6	5.55	1.56
Max.	2.9	.....	.....	.....	.....	.....	.....	1.6	23	25	13	2.6
Min.	2.3	.....	.....	.....	.....	.....	.....	1.5	17	13	2.3	0.8
Acre-ft.	45	.....	.....	.....	.....	.....	.....	19	744	1230	341	96

Total run-off for period=2,570 acre-feet.

Discharge of North Fork of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.8	.....	.....	.....	.....	.....	.....	.....	22	18	2.6	1.0
2....	1.7	.....	.....	.....	.....	.....	.....	.....	23	18	2.6	1.0
3....	1.7	.....	.....	.....	.....	.....	.....	.....	23	16	2.4	1.0
4....	1.9	.....	.....	.....	.....	.....	.....	.....	26	15	2.2	1.3
5....	1.9	.....	.....	.....	.....	.....	.....	.....	27	14	2.1	1.3
6....	1.9	.....	.....	.....	.....	.....	.....	.....	31	13	2.0	1.2
7....	1.6	.....	.....	.....	.....	.....	.....	.....	35	12	1.9	1.1
8....	.....	.....	.....	.....	.....	.....	.....	.....	31	12	1.8	1.0
9....	.....	.....	.....	.....	.....	.....	.....	.....	30	11	1.7	1.0
10....	.....	.....	.....	.....	.....	.....	.....	.....	30	10	1.7	1.0
11....	.....	.....	.....	.....	.....	.....	.....	.....	32	9.2	1.6	1.3
12....	.....	.....	.....	.....	.....	.....	.....	.....	32	8.0	1.9	1.2
13....	.....	.....	.....	.....	.....	.....	.....	.....	30	7.3	2.2	1.1
14....	.....	.....	.....	.....	.....	.....	.....	.....	28	6.8	1.8	1.0
15....	.....	.....	.....	.....	.....	.....	.....	.....	27	6.4	1.7	1.0
16....	.....	.....	.....	.....	.....	.....	.....	.....	29	6.2	1.7	1.0
17....	.....	.....	.....	.....	.....	.....	.....	.....	2.7	32	6.2	1.7
18....	.....	.....	.....	.....	.....	.....	.....	.....	2.6	33	5.5	1.6
19....	.....	.....	.....	.....	.....	.....	.....	.....	2.6	32	4.7	1.6
20....	.....	.....	.....	.....	.....	.....	.....	.....	2.5	31	4.4	1.6
21....	.....	.....	.....	.....	.....	.....	.....	.....	2.7	30	4.1	1.5
22....	.....	.....	.....	.....	.....	.....	.....	.....	3.7	28	3.9	1.4
23....	.....	.....	.....	.....	.....	.....	.....	.....	4.9	27	3.7	1.4
24....	.....	.....	.....	.....	.....	.....	.....	.....	6.2	27	3.6	1.4
25....	.....	.....	.....	.....	.....	.....	.....	.....	7.5	26	3.4	1.4
26....	.....	.....	.....	.....	.....	.....	.....	.....	12	25	3.1	1.4
27....	.....	.....	.....	.....	.....	.....	.....	.....	14	24	3.1	1.3
28....	.....	.....	.....	.....	.....	.....	.....	.....	15	22	3.0	1.2
29....	.....	.....	.....	.....	.....	.....	.....	.....	18	21	2.9	1.1
30....	Oct. 1	.....	.....	.....	.....	.....	.....	.....	20	20	2.8	1.1
31....	to 7	.....	.....	.....	.....	.....	.....	.....	22	.....	2.6	1.0
Total	12.5	.....	.....	.....	.....	.....	.....	.....	139.3	834	239.9	52.6
Mean	1.79	.....	.....	.....	.....	.....	.....	.....	8.71	27.8	7.74	1.70
Max.	1.9	.....	.....	.....	.....	.....	.....	.....	22	35	18	2.6
Min.	1.6	.....	.....	.....	.....	.....	.....	.....	2.5	20	2.6	1.0
Acre-ft.	25	.....	.....	.....	.....	.....	.....	.....	276	1650	476	104

Total run-off for period=2,590 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Middle Fork of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	2.0	.....	.....	.....	.....	.....	.....	0.9	26	17	2.4	1.4
2....	2.0	.....	.....	.....	.....	.....	.....	1.2	27	15	2.2	1.4
3....	1.9	.....	.....	.....	.....	.....	.....	2.0	28	14	2.2	1.4
4....	1.8	.....	.....	.....	.....	.....	.....	1.8	30	12	2.1	1.4
5....	1.8	.....	.....	.....	.....	.....	.....	1.4	31	11	2.2	1.2
6....	1.9	.....	.....	.....	.....	.....	.....	1.2	31	11	2.2	1.1
7....	1.8	.....	.....	.....	.....	.....	.....	1.0	32	10	3.0	1.2
8....	2.0	.....	.....	.....	.....	.....	.....	1.4	32	8.9	2.4	1.7
9....	.....	.....	.....	.....	.....	.....	.....	2.4	31	8.5	2.1	2.0
10....	.....	.....	.....	.....	.....	.....	.....	4.2	30	7.6	2.1	2.1
11....	.....	.....	.....	.....	.....	.....	.....	6.0	23	7.2	2.2	2.1
12....	.....	.....	.....	.....	.....	.....	.....	9.7	20	6.9	3.4	1.8
13....	.....	.....	.....	.....	.....	.....	.....	11	20	6.3	2.8	2.1
14....	.....	.....	.....	.....	.....	.....	.....	13	23	6.0	2.2	2.1
15....	.....	.....	.....	.....	.....	.....	.....	14	30	5.7	2.2	1.7
16....	.....	.....	.....	.....	.....	.....	.....	13	42	5.4	2.6	1.6
17....	.....	.....	.....	.....	.....	.....	.....	16	48	5.1	2.2	1.6
18....	.....	.....	.....	.....	.....	.....	.....	21	51	4.5	2.1	1.6
19....	.....	.....	.....	.....	.....	.....	.....	14	48	4.5	2.0	1.5
20....	.....	.....	.....	.....	.....	.....	.....	12	42	4.5	2.2	1.5
21....	.....	.....	.....	.....	.....	.....	.....	11	41	4.0	2.0	1.4
22....	.....	.....	.....	.....	.....	.....	.....	April 24	20	3.8	2.0	1.7
23....	.....	.....	.....	.....	.....	.....	.....	to 30	17	3.8	1.8	1.8
24....	.....	.....	.....	.....	.....	.....	.....	0.6	20	3.5	3.4	1.7
25....	.....	.....	.....	.....	.....	.....	.....	0.6	23	3.0	3.6	1.7
26....	.....	.....	.....	.....	.....	.....	.....	0.7	25	2.7	3.4	1.6
27....	.....	.....	.....	.....	.....	.....	.....	0.8	25	2.3	3.4	1.5
28....	.....	.....	.....	.....	.....	.....	.....	0.7	25	2.0	3.0	1.5
29....	.....	.....	.....	.....	.....	.....	.....	0.7	25	1.8	3.0	1.5
30....	Oct. 1	.....	.....	.....	.....	.....	.....	0.7	26	1.7	2.8	1.5
31....	to 8	.....	.....	.....	.....	.....	.....	.....	26	.....	2.6	1.4
Total	15.2	.....	.....	.....	.....	.....	.....	4.8	390.2	933	207.7	65.0
Mean..	1.90	.....	.....	.....	.....	.....	.....	0.69	12.6	31.1	6.70	2.10
Max..	2.0	.....	.....	.....	.....	.....	.....	0.8	26	5.1	3.4	2.1
Min..	1.8	.....	.....	.....	.....	.....	.....	0.6	0.9	1.7	2.6	1.1
Acre-ft.	30	.....	.....	.....	.....	.....	.....	9.5	774	1850	412	129

Total run-off for period=3,310 acre-feet.

Discharge of Middle Fork of Ranch Creek Near Fraser, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.7	.....	.....	.....	.....	.....	.....	.....	51	30	3.8	1.1
2....	1.7	.....	.....	.....	.....	.....	.....	.....	55	27	3.8	1.1
3....	1.7	.....	.....	.....	.....	.....	.....	.....	52	24	3.4	1.1
4....	2.0	.....	.....	.....	.....	.....	.....	.....	59	23	3.2	1.5
5....	1.8	.....	.....	.....	.....	.....	.....	.....	64	20	3.0	1.5
6....	1.7	.....	.....	.....	.....	.....	.....	.....	74	19	3.0	1.4
7....	1.0	.....	.....	.....	.....	.....	.....	.....	90	18	2.8	1.2
8....	.....	.....	.....	.....	.....	.....	.....	.....	80	18	2.6	1.0
9....	.....	.....	.....	.....	.....	.....	.....	.....	67	17	2.4	1.0
10....	.....	.....	.....	.....	.....	.....	.....	.....	66	15	2.2	1.0
11....	.....	.....	.....	.....	.....	.....	.....	.....	80	14	2.2	1.4
12....	.....	.....	.....	.....	.....	.....	.....	.....	75	11	2.6	1.2
13....	.....	.....	.....	.....	.....	.....	.....	.....	May 15	5.9	1.1	2.4
14....	.....	.....	.....	.....	.....	.....	.....	.....	to 31	5.1	9.7	2.2
15....	.....	.....	.....	.....	.....	.....	.....	.....	3.0	5.0	8.9	2.1
16....	.....	.....	.....	.....	.....	.....	.....	.....	3.0	5.9	8.5	2.0
17....	.....	.....	.....	.....	.....	.....	.....	.....	3.0	7.4	8.9	1.8
18....	.....	.....	.....	.....	.....	.....	.....	.....	2.8	8.2	8.5	2.0
19....	.....	.....	.....	.....	.....	.....	.....	.....	2.8	7.8	6.9	1.8
20....	.....	.....	.....	.....	.....	.....	.....	.....	2.6	6.4	6.3	2.0
21....	.....	.....	.....	.....	.....	.....	.....	.....	0.69	3.0	5.5	1.8
22....	.....	.....	.....	.....	.....	.....	.....	.....	2.6	4.7	5.4	1.8
23....	.....	.....	.....	.....	.....	.....	.....	.....	3.6	4.8	5.4	1.8
24....	.....	.....	.....	.....	.....	.....	.....	.....	4.0	5.0	5.1	1.8
25....	.....	.....	.....	.....	.....	.....	.....	.....	4.6	4.7	4.5	1.8
26....	.....	.....	.....	.....	.....	.....	.....	.....	5.1	4.3	4.0	1.7
27....	.....	.....	.....	.....	.....	.....	.....	.....	4.5	3.9	5.1	1.5
28....	.....	.....	.....	.....	.....	.....	.....	.....	5.7	3.6	4.5	1.4
29....	.....	.....	.....	.....	.....	.....	.....	.....	2.1	3.3	4.2	1.2
30....	Oct. 1	.....	.....	.....	.....	.....	.....	.....	4.3	3.3	3.8	1.2
31....	to 7	.....	.....	.....	.....	.....	.....	.....	4.6	.....	3.4	1.1
Total	11.6	.....	.....	.....	.....	.....	.....	.....	160.3	1761	355.8	68.4
Mean..	1.66	.....	.....	.....	.....	.....	.....	.....	9.43	58.7	11.5	2.21
Max..	2.0	.....	.....	.....	.....	.....	.....	.....	4.6	9.0	3.0	3.8
Min..	1.0	.....	.....	.....	.....	.....	.....	.....	2.6	3.3	3.4	1.1
Acre-ft.	23	.....	.....	.....	.....	.....	.....	.....	318	3490	706	1360

Total run-off for period=5,960 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Fork of Ranch Creek Near Winter Park, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3							1.6	25	9.9	2.2	1.0
2	1.1							2.2	25	9.0	2.1	1.0
3	1.0							3.6	24	8.2	2.1	1.0
4	0.9							2.9	24	7.8	1.9	1.0
5	0.9							2.1	24	7.1	1.9	1.0
6	1.0							1.9	22	6.7	1.9	0.9
7	0.9							1.6	22	6.7	3.1	1.0
8	1.1							2.2	21	6.2	2.2	1.4
9	1.1							3.8	20	5.8	1.9	1.6
10								6.0	19	5.6	2.1	1.8
11								7.3	17	5.6	2.1	1.9
12								10	16	5.4	3.1	1.6
13								13	16	5.0	2.1	1.8
14								15	14	5.0	1.8	1.8
15								15	15	4.8	1.8	1.4
16								16	16	4.6	1.9	1.4
17								18	17	4.2	1.6	1.3
18								18	19	4.2	1.5	1.3
19								17	20	4.2	1.8	1.2
20								17	20	4.0	1.6	1.2
21								20	20	3.6	1.5	1.2
22								19	20	3.3	1.4	1.8
23							April 24 to 30	18	18	2.9	1.3	1.6
24							0.8	20	17	2.7	1.2	1.5
25							1.1	22	16	3.1	1.3	1.6
26							1.4	26	15	2.9	1.2	1.4
27							1.4	25	14	3.1	1.1	1.3
28							1.3	26	12	2.9	1.1	1.3
29							1.2	25	11	2.7	1.2	1.4
30	Oct. 1						1.3	28	10	2.4	1.1	1.4
31	to 9							28		2.4	1.0	
Total	9.3						8.5	431.2	549	152.0	54.1	41.1
Mean	1.03						1.21	13.9	18.3	4.90	1.75	1.37
Max	1.3						1.4	28	25	9.9	3.1	1.9
Min	0.9						0.8	1.6	10	2.4	1.0	0.9
Acre-ft.	18						17	855	1090	301	107	82

Total run-off for period=2,470 acre-feet.

Discharge of South Fork of Ranch Creek Near Winter Park, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2								58	14	2.8	1.4
2	1.2								61	13	3.0	1.4
3	1.2								65	12	2.8	1.3
4	1.5								72	11	2.7	1.4
5	1.3								75	11	2.5	1.4
6	1.1								72	10	2.5	1.2
7	1.2								65	9.5	2.3	1.1
8									61	8.9	2.2	1.0
9									57	8.4	2.1	1.0
10									54	7.9	2.0	1.0
11									56	7.4	2.0	1.1
12									53	6.6	2.2	1.1
13								May 15 to 31	44	6.2	2.1	0.9
14								2.6	35	5.8	2.0	0.9
15								2.6	31	5.6	2.0	0.8
16								2.6	32	5.3	1.8	0.8
17								2.6	38	5.3	1.8	0.8
18								2.2	45	4.9	1.8	0.9
19								2.2	45	4.3	1.8	1.0
20								2.2	43	4.0	1.8	1.0
21								2.0	37	3.8	2.0	0.9
22								4.6	32	3.5	2.0	0.8
23								6.9	27	3.6	1.8	0.9
24								8.5	25	3.6	1.8	0.8
25								11	23	3.5	1.8	0.8
26								18	20	3.1	1.7	0.8
27								21	19	3.6	1.5	0.8
28								27	18	3.5	1.4	0.8
29								34	16	3.5	1.4	0.8
30	Oct. 1							47	16	3.3	1.4	0.8
31	to 7							52		3.0	1.4	
Total	8.7							247.3	1295	199.1	62.4	29.7
Mean	1.24							14.5	43.2	6.42	2.01	0.99
Max	1.5							52	75	14	3.0	1.4
Min	1.1							2.2	16	3.0	1.4	0.8
Acre-ft.	17							491	2570	395	124	59

Total run-off for period=3,660 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Meadow Creek Near Tabernash, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.2	1.2	....	....	....	....	....	1.3	64	17	1.6	1.4
2....	3.6	1.2	....	....	....	....	....	1.8	58	17	1.5	1.4
3....	3.3	1.2	....	....	....	....	....	3.9	53	15	1.4	1.4
4....	2.0	1.3	....	....	....	....	....	8.8	56	14	1.4	1.4
5....	2.0	1.2	....	....	....	....	....	13	57	12	1.8	1.4
6....	3.9	1.2	....	....	....	....	....	14	51	12	1.9	1.3
7....	3.9	1.3	....	....	....	....	....	11	53	10	1.8	1.4
8....	3.3	1.3	....	....	....	....	....	8.2	57	9.8	2.2	2.4
9....	4.2	1.3	....	....	....	....	....	9.5	49	10	1.7	2.8
10....	4.2	1.3	....	....	....	....	....	22	50	8.5	1.6	5.7
11....	2.8	1.3	....	....	....	....	....	40	38	6.9	2.1	6.0
12....	2.1	1.3	....	....	....	....	....	44	38	6.9	12	3.6
13....	1.8	1.3	....	....	....	....	....	68	35	6.3	10	2.6
14....	1.8	....	....	....	....	....	....	90	35	6.6	4.8	4.8
15....	1.6	....	....	....	....	....	....	76	39	6.6	3.0	2.8
16....	1.5	....	....	....	....	....	....	62	46	5.4	6.3	2.1
17....	1.4	....	....	....	....	....	....	83	46	4.5	8.8	1.7
18....	1.4	....	....	....	....	....	....	78	49	4.2	6.0	1.6
19....	1.4	....	....	....	....	....	....	72	49	3.6	6.3	1.6
20....	1.3	....	....	....	....	....	....	67	45	3.9	8.2	1.5
21....	1.3	....	....	....	....	....	....	76	44	3.9	5.7	1.4
22....	1.3	....	....	....	....	....	....	78	42	3.9	4.8	1.4
23....	1.3	....	....	....	....	....	....	84	36	2.6	3.3	1.5
24....	1.3	....	....	....	....	....	....	89	33	2.1	2.4	1.6
25....	1.3	....	....	....	....	....	....	100	30	5.1	2.2	2.1
26....	1.3	....	....	....	....	....	....	97	27	6.3	2.1	2.4
27....	1.3	....	....	....	....	....	*0.9	81	24	3.3	1.8	1.8
28....	1.3	....	....	....	....	....	1.0	71	22	2.6	1.6	1.6
29....	1.3	....	....	....	....	....	1.0	69	19	2.0	1.6	1.6
30....	1.3	Nov. 1	....	....	....	....	1.1	64	17	1.9	1.6	1.9
31....	1.3	to 13	....	....	....	....	....	66	....	1.7	1.5	....
Total	66.0	16.4	....	....	....	....	....	1648.5	1262	215.6	113.0	66.2
Mean.	2.13	1.26	....	....	....	....	....	53.2	42.1	6.95	3.65	2.21
Max...	4.2	1.3	....	....	....	....	....	100	64	17	12	6.0
Min...	1.3	1.2	....	....	....	....	....	1.3	17	1.7	1.4	1.3
Acre-ft.	131	33	....	....	....	....	....	3270	2500	428	224	131

Total run-off for period=6,720 acre-feet.

*Discharge measurement made on this day.

Discharge of Meadow Creek Near Tabernash, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.6	1.6	....	....	....	....	....	4.0	113	26	5.1	1.4
2....	1.4	1.6	....	....	....	....	....	4.3	107	23	6.4	1.4
3....	1.4	1.6	....	....	....	....	....	4.0	100	23	5.3	1.3
4....	1.7	1.6	....	....	....	....	....	3.8	131	21	4.3	1.5
5....	1.8	1.7	....	....	....	....	....	3.7	144	20	4.1	2.0
6....	1.6	1.6	....	....	....	....	....	3.5	148	21	4.3	1.9
7....	1.6	1.5	....	....	....	....	....	3.4	148	19	3.4	1.9
8....	2.0	1.3	....	....	....	....	....	3.5	116	18	3.1	1.7
9....	3.0	1.4	....	....	....	....	....	4.0	103	17	2.9	1.4
10....	2.2	1.4	....	....	....	....	....	5.0	113	16	2.6	1.4
11....	1.8	1.4	....	....	....	....	....	6.4	117	15	2.4	2.0
12....	1.6	1.4	....	....	....	....	....	9.0	104	14	2.9	1.9
13....	2.2	1.6	....	....	....	....	....	8.6	97	13	3.4	2.0
14....	6.6	1.5	....	....	....	....	....	8.0	80	12	2.6	1.5
15....	4.2	1.4	....	....	....	....	....	7.2	73	12	2.3	1.4
16....	2.4	1.3	....	....	....	....	....	6.9	79	12	2.2	1.3
17....	1.9	1.3	....	....	....	....	....	7.2	84	18	2.0	1.2
18....	1.7	1.4	....	....	....	....	....	7.2	84	23	1.9	1.2
19....	1.5	1.4	....	....	....	....	....	6.6	75	14	1.8	1.8
20....	1.5	1.4	....	....	....	....	....	4.8	68	11	1.8	1.7
21....	1.5	1.4	....	....	....	....	....	6.9	63	9.1	1.8	1.4
22....	1.8	1.4	....	....	....	....	....	17	54	7.7	1.8	1.4
23....	3.3	1.4	....	....	....	....	....	27	49	7.4	1.7	1.2
24....	2.8	1.4	....	....	....	....	....	33	48	8.0	1.7	1.2
25....	2.8	1.4	....	....	....	....	....	44	48	7.4	2.3	1.2
26....	2.1	1.5	....	....	....	....	....	66	43	6.4	2.0	1.2
27....	2.2	1.4	....	....	....	....	....	87	37	6.4	1.8	1.2
28....	1.9	1.4	....	....	....	....	....	94	29	6.2	1.5	1.2
29....	1.8	1.5	....	....	....	....	....	102	27	5.8	1.4	1.1
30....	1.8	1.4	....	....	....	....	....	113	26	5.6	1.4	1.1
31....	1.6	....	....	....	....	....	....	118	....	5.1	1.4	....
Total	67.3	43.6	....	....	....	....	....	819.0	2508	423.1	83.6	44.1
Mean.	2.17	1.45	....	....	....	....	....	26.4	83.6	13.6	2.70	1.47
Max...	6.6	1.7	....	....	....	....	....	118	148	26	6.4	2.0
Min...	1.4	1.3	....	....	....	....	....	3.4	26	5.1	1.4	1.1
Acre-ft.	133	86	....	....	....	....	....	1620	4970	839	166	87

Total run-off for period=7,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Strawberry Creek Near Granby, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.4	.2	....	....	....	....	3.3	21	6.9	8.8	.6	.4
2....	1.4	.2	....	....	....	....	3.2	24	6.2	11	.6	.4
3....	1.0	.1	....	....	....	....	3.3	31	4.6	7.5	.4	.4
4....	.9	.1	....	....	....	....	3.5	30	4.0	6.2	.4	.3
5....	1.4	.1	....	....	....	....	3.8	23	3.6	6.2	.4	.3
6....	2.8	.1	....	....	....	....	3.8	18	3.3	6.2	2.0	.4
7....	1.6	.3	....	....	....	....	3.8	16	3.0	5.2	1.0	.1
8....	.8	.3	....	....	....	....	3.7	21	4.0	5.2	1.7	2.2
9....	.3	.2	....	....	....	....	3.7	27	3.0	5.4	1.0	3.1
10....	.3	.2	....	....	....	....	3.8	39	3.6	4.4	.6	4.2
11....	.2	....	....	....	....	....	4.2	48	2.8	4.0	1.3	5.2
12....	.3	....	....	....	....	....	4.8	61	2.6	4.0	8.8	3.4
13....	.6	....	....	....	....	....	5.5	64	1.9	3.6	7.5	2.5
14....	.1	....	....	....	....	....	4.8	70	1.2	3.8	4.2	2.6
15....	.2	....	....	....	....	....	4.6	63	1.0	4.2	3.0	2.2
16....	.1	....	....	....	....	....	4.6	56	1.9	3.3	3.4	1.7
17....	.3	....	....	....	....	....	4.6	56	1.4	2.6	6.6	1.0
18....	.5	....	....	....	....	....	4.6	55	1.4	2.5	3.6	.6
19....	.5	....	....	....	....	....	4.7	48	6.9	2.0	2.5	.5
20....	.5	....	....	....	....	....	4.7	41	8.2	2.6	3.1	.4
21....	.4	....	....	....	....	....	5.2	38	7.5	3.0	2.3	.5
22....	.1	....	....	....	....	....	5.6	36	7.8	3.0	2.2	.6
23....	.1	....	....	....	....	....	6.8	35	8.8	2.3	1.4	1.7
24....	.1	....	....	....	....	....	9.0	32	9.8	1.9	1.2	2.0
25....	.1	....	....	....	....	....	9.8	31	9.3	3.0	.6	2.6
26....	.2	....	....	....	....	....	9.8	28	8.5	6.2	.6	3.3
27....	.6	....	....	....	....	....	10	26	11	3.3	.9	2.5
28....	.1	....	....	....	....	*2.9	12	24	9.8	2.6	.6	2.0
29....	.1	....	....	....	....	3.0	14	25	7.2	1.7	.6	1.9
30....	.1	Nov. 1	....	....	....	2.9	18	25	6.9	1.3	.7	2.5
31....	.1	to 10	....	....	....	3.2	....	13	....	1.0	.6	....
Total	17.2	1.8	....	....	....	....	183.2	1125	158.1	128.0	64.4	....
Mean..	0.55	0.18	....	....	....	....	6.11	36.3	5.27	4.13	2.08	1.72
Max...	28	0.3	....	....	....	....	18	70	11	11	8.8	5.2
Min...	0.1	0.1	....	....	....	....	3.2	13	1.0	1.0	0.4	0.1
Acre-ft.	34	3.6	....	....	....	....	363	2230	314	254	128	102

Total run-off for period=3,430 acre-feet.

Discharge of Strawberry Creek Near Granby, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1.9	1.2	....	....	....	....	2.7	15	8.2	9.2	3.7	2.4
2....	1.6	.4	....	....	....	....	3.0	16	7.3	8.8	4.6	.6
3....	1.3	.3	....	....	....	....	3.5	16	7.0	12	4.3	.4
4....	1.7	.6	....	....	....	....	4.0	16	6.6	12	3.2	.4
5....	1.7	1.3	....	....	....	....	4.8	16	6.0	11	3.4	.8
6....	.7	1.3	....	....	....	....	5.8	18	5.4	12	3.0	.8
7....	.6	1.3	....	....	....	....	7.0	18	4.5	11	2.4	.3
8....	3.0	1.3	....	....	....	....	8.2	20	3.8	11	2.0	.4
9....	2.8	1.3	....	....	....	....	10	25	3.1	10	1.9	.2
10....	2.0	1.3	....	....	....	....	12	28	2.5	11	1.6	.3
11....	1.4	1.3	....	....	....	....	14	30	2.1	10	1.4	.6
12....	1.0	1.3	....	....	....	....	16	33	2.4	9.2	1.8	.9
13....	1.9	1.3	....	....	....	....	15	33	2.2	8.6	2.2	1.0
14....	2.8	1.3	....	....	....	....	15	31	1.5	7.1	1.4	.8
15....	2.2	1.3	....	....	....	....	15	28	1.1	7.1	1.0	.6
16....	1.7	1.3	....	....	....	....	15	26	9.2	7.1	.8	.6
17....	1.7	1.3	....	....	....	....	14	24	6.9	10	.8	.4
18....	1.6	1.3	....	....	....	....	14	23	2.0	11	.4	.4
19....	1.6	1.3	....	....	....	....	14	22	1.8	6.3	.2	.6
20....	1.9	1.3	....	....	....	....	14	22	1.4	6.9	.3	1.2
21....	1.9	1.3	....	....	....	....	15	28	1.5	6.0	.6	1.0
22....	1.9	1.3	....	....	....	....	16	40	1.4	5.4	.5	.9
23....	2.3	1.3	....	....	....	....	17	56	1.2	4.0	.6	.9
24....	2.5	1.3	....	....	....	....	18	66	1.1	5.4	.4	.4
25....	2.5	1.3	....	....	....	....	17	74	1.2	4.0	.8	.5
26....	2.2	1.3	....	....	....	....	17	96	1.1	4.6	.8	.5
27....	1.7	1.3	....	....	....	....	16	106	1.0	4.6	.6	.6
28....	1.6	*1.5	....	....	....	....	16	96	1.0	4.6	.4	.5
29....	1.2	1.3	....	....	....	....	15	95	9.9	4.1	.4	.4
30....	1.2	1.3	....	....	....	....	16	92	9.5	4.1	.3	.4
31....	.9	....	....	....	....	....	....	91	....	3.9	.4	....
Total	55.0	36.3	....	....	....	....	370.0	1300	\$19.5	242.2	46.2	17.8
Mean..	1.77	1.21	....	....	....	....	12.3	41.9	27.3	7.81	1.49	0.59
Max...	3.0	....	....	....	....	....	18	106	8.2	12	4.6	1.2
Min...	0.6	0.3	....	....	....	....	2.7	15	6.9	3.9	0.2	0.2
Acre-ft.	109	72	....	....	....	....	734	2580	1630	480	92	35

Total run-off for period=5,730 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Williams Fork River Below Steelman Creek, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	18	13	4.0	3.0	2.5	2.0	1.9	4.4	14	110	1.8	1.3
2....	17	11	4.0	3.0	2.5	2.0	1.9	5.4	14	103	1.7	1.2
3....	15	8.8	4.0	3.0	2.5	2.0	1.9	7.3	14	100	1.7	1.2
4....	13	8.2	4.0	3.0	2.5	2.0	1.9	8.0	14	96	1.5	1.2
5....	15	7.8	4.0	3.0	2.5	2.0	1.9	7.1	14	88	1.5	1.2
6....	16	8.5	4.0	3.0	2.5	2.0	2.0	5.8	12	82	1.7	1.2
7....	15	9.3	4.0	3.0	2.5	2.0	2.0	5.2	12	40	1.5	1.3
8....	15	8.2	4.0	3.0	2.5	2.0	2.0	6.0	11	4.5	1.5	5.0
9....	15	7.9	4.0	3.0	2.5	2.0	1.8	10	9.7	4.4	1.5	12
10....	14	7.9	4.0	3.0	2.5	2.0	2.0	20	8.6	4.4	1.7	14
11....	13	7.0	4.0	3.0	2.5	2.0	2.1	36	7.8	4.2	1.8	12
12....	12	6.0	4.0	3.0	2.5	2.0	2.2	71	7.5	4.4	1.8	10
13....	12	6.0	4.0	3.0	2.5	2.0	2.1	100	8.0	4.2	1.5	11
14....	11	6.2	4.0	3.0	2.5	2.0	2.1	84	7.5	4.0	1.7	12
15....	11	6.2	4.0	3.0	2.5	2.0	2.1	65	7.3	3.8	1.9	10
16....	11	6.2	4.0	3.6	2.5	2.0	2.1	60	7.1	3.7	2.1	9.3
17....	10	6.2	4.0	3.0	2.5	2.0	2.1	78	7.3	3.6	1.8	8.6
18....	10	6.4	4.0	3.0	2.5	2.0	2.1	82	11	3.3	1.7	9.0
19....	9.8	6.4	4.0	3.0	2.5	2.0	2.1	65	96	3.2	1.7	8.6
20....	9.6	6.4	4.0	3.0	2.5	2.0	2.1	55	220	3.0	1.7	8.2
21....	9.3	6.2	4.0	3.0	2.5	2.0	2.1	28	220	2.7	1.8	8.2
22....	9.1	6.0	4.0	3.0	2.5	2.0	2.1	16	228	2.3	1.5	9.3
23....	9.1	5.8	4.0	3.0	2.5	2.0	2.1	18	220	2.1	1.7	10
24....	8.8	5.6	4.0	3.0	2.5	2.0	2.1	16	228	2.0	1.5	10
25....	8.6	5.6	4.0	3.0	2.5	2.0	2.1	16	220	2.4	1.4	10
26....	8.6	5.4	4.0	3.0	2.5	2.0	2.3	16	192	2.5	1.4	9.0
27....	8.8	5.4	4.0	3.0	2.5	2.0	2.5	16	186	2.3	1.3	8.2
28....	8.4	5.2	4.0	3.0	2.5	2.0	2.6	16	158	2.0	1.3	8.0
29....	9.6	5.0	4.0	3.0	....	2.0	2.6	16	134	1.9	1.3	10
30....	9.1	4.8	4.0	3.0	....	2.0	3.2	16	119	1.8	1.3	10
31....	8.6	....	4.0	3.0	....	2.0	....	16	....	1.7	1.3	....
Total	350.4	208.6	124.0	93.0	70.0	62.0	64.1	965.2	2407.8	693.4	49.6	231.0
Mean.	11.6	6.95	4.0	3.0	2.5	2.0	2.14	31.1	80.3	22.4	1.60	7.70
Max.	18	13	....	....	....	....	3.2	100	228	110	2.1	14
Min.	8.4	4.8	....	....	....	....	1.8	4.4	7.1	1.7	1.3	1.2
Acre-ft.	715	414	246	184	139	123	127	1910	4780	1380	98	458

Total run-off for year=10,570 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Williams Fork River Near Leal, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	61	28	25	25	20	18	21	56	298	338	55	36
2....	53	30	24	22	20	17	20	61	284	319	50	36
3....	50	32	24	20	18	17	20	79	294	301	48	35
4....	44	32	23	22	19	16	20	92	305	284	49	35
5....	50	26	23	22	20	16	20	78	316	268	48	34
6....	55	*32	23	21	20	16	20	69	308	252	52	33
7....	50	33	23	21	20	16	20	57	312	219	53	34
8....	51	32	23	20	19	15	19	66	308	160	53	45
9....	53	33	23	20	19	16	18	102	281	146	48	55
10....	50	30	23	21	19	16	20	138	258	140	46	58
11....	48	26	23	24	18	16	20	185	232	130	50	60
12....	45	23	23	21	18	16	24	237	224	138	62	53
13....	44	24	21	22	18	16	26	342	226	130	50	49
14....	42	24	20	22	18	16	23	350	234	126	44	56
15....	40	25	22	22	18	16	23	301	229	123	51	48
16....	40	25	22	22	18	16	23	242	255	121	61	46
17....	39	26	22	23	17	16	23	288	308	109	53	44
18....	38	26	22	22	*18	17	23	331	364	104	50	43
19....	37	26	23	23	18	17	23	301	485	107	50	42
20....	36	27	22	23	18	18	22	248	660	104	55	41
21....	36	27	22	23	18	19	22	255	672	92	56	40
22....	36	26	22	*23	18	19	24	252	654	87	50	40
23....	36	26	22	23	16	19	26	245	672	84	50	44
24....	35	26	22	23	17	18	28	281	684	79	45	44
25....	34	26	22	23	18	17	29	277	696	76	43	42
26....	33	26	22	22	17	17	31	294	588	84	42	42
27....	35	26	22	22	16	17	38	301	507	84	38	40
28....	33	25	22	22	16	18	41	277	465	72	37	39
29....	30	25	23	22	19	46	48	281	408	66	36	41
30....	33	25	22	21	....	20	48	288	368	58	39	49
31....	34	....	22	21	....	18	....	305	....	56	37	....
Total	1301	818	697	683	509	528	761	6679	11895	4457	1501	1304
Mean.	42.0	27.3	22.5	22.0	18.2	17.0	25.4	215	396	144	48.4	43.5
Max..	61	33	25	25	20	20	48	350	696	338	62	60
Min..	30	23	20	20	16	15	18	56	224	56	36	33
Acre-ft.	2580	1620	1380	1350	1010	1050	1510	13250	23590	8840	2980	2590

Total run-off for period=61,750 acre-feet.

*Discharge measurement made on this day.

Discharge of Williams Fork River Near Leal, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	45	29	28	22	19	17	17	44	485	430	79	39
2....	43	26	27	23	17	16	18	44	546	408	95	38
3....	44	34	27	22	17	16	19	40	570	377	92	37
4....	48	30	27	25	17	16	20	44	648	355	79	37
5....	46	30	27	22	17	17	22	51	660	342	76	39
6....	45	32	27	22	17	17	23	44	756	331	73	39
7....	41	28	26	22	17	17	23	55	840	312	69	37
8....	46	24	23	21	17	18	22	62	708	294	66	36
9....	50	28	23	21	17	17	25	73	708	284	64	36
10....	48	26	23	22	16	17	25	100	666	268	61	36
11....	45	25	24	21	16	17	32	132	894	248	60	39
12....	44	26	23	21	16	18	35	132	972	229	60	37
13....	48	29	23	21	17	18	36	100	774	211	61	36
14....	50	26	23	21	16	17	46	85	642	204	57	33
15....	45	28	24	21	16	18	51	84	546	197	55	36
16....	44	26	23	24	16	18	50	92	636	194	52	31
17....	45	27	23	20	16	17	56	87	870	209	50	31
18....	42	26	23	19	18	18	49	84	965	226	50	34
19....	42	22	23	23	17	18	40	87	1030	183	49	36
20....	41	25	23	19	17	17	41	89	932	168	49	36
21....	39	24	23	19	16	18	44	114	852	119	49	36
22....	41	26	23	19	16	19	53	154	774	107	48	35
23....	41	28	26	19	16	18	66	214	720	102	46	34
24....	40	24	23	19	18	18	52	261	732	98	46	34
25....	41	25	23	18	17	18	46	294	690	90	48	33
26....	41	26	24	18	17	17	42	404	666	84	44	32
27....	39	24	23	18	17	16	42	470	576	92	42	33
28....	40	24	23	18	16	16	41	394	480	102	41	33
29....	39	24	23	18	....	17	43	460	455	93	40	33
30....	38	25	23	18	....	16	42	470	445	87	40	32
31....	28	....	22	18	....	16	....	460	....	82	40	....
Total	1329	797	746	634	469	533	1121	5224	21238	6526	1781	1058
Mean.	42.9	26.6	24.1	20.5	16.8	17.2	37.4	169	708	211	57.5	35.3
Max..	50	34	28	25	19	19	66	470	1030	430	95	39
Min..	28	22	22	18	16	16	17	40	445	82	40	31
Acre-ft.	2640	1580	1480	1260	930	1060	2220	10360	42120	12940	3530	2100

Total run-off for year=82,220 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Williams Fork River Near Parshall, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	88	49	54	36	30	28	50	136	344	340	43	41
2.....	78	50	53	34	29	28	49	150	322	326	40	40
3.....	75	52	50	32	27	27	48	170	318	300	37	39
4.....	70	55	45	30	26	27	48	197	331	287	37	38
5.....	69	44	42	32	27	28	50	157	340	263	44	37
6.....	84	*59	43	32	28	30	52	139	340	240	53	38
7.....	78	53	43	33	27	28	48	108	331	222	57	39
8.....	76	52	43	34	26	28	46	108	358	147	62	59
9.....	78	53	45	35	26	29	46	183	283	117	55	72
10.....	80	49	44	35	26	28	49	240	291	110	51	84
11.....	75	42	43	36	26	28	51	318	271	90	56	86
12.....	72	35	41	36	27	26	59	376	240	82	63	78
13.....	70	27	37	36	28	27	68	545	263	80	59	72
14.....	69	27	30	34	27	30	55	530	255	72	42	75
15.....	66	29	29	34	26	29	57	470	248	72	39	70
16.....	64	32	30	34	28	28	55	394	263	72	53	64
17.....	63	38	31	32	26	28	55	416	295	58	58	61
18.....	62	46	32	32	27	28	51	462	340	53	58	58
19.....	62	46	32	31	*28	28	47	452	412	100	56	58
20.....	61	45	32	32	27	30	44	403	585	147	63	64
21.....	61	43	32	33	27	30	43	376	575	130	61	64
22.....	58	43	33	*34	26	31	49	385	545	115	56	63
23.....	59	45	34	33	26	31	51	367	575	103	55	64
24.....	58	47	35	33	27	31	56	390	580	88	52	64
25.....	58	49	33	32	28	32	59	380	645	72	50	63
26.....	56	49	32	34	27	*33	64	376	570	76	53	62
27.....	57	47	33	33	25	37	76	394	490	75	51	58
28.....	57	45	34	31	27	43	94	354	470	69	48	56
29.....	53	49	36	30	....	44	115	354	416	64	46	55
30.....	55	52	38	31	....	44	130	344	372	58	43	63
31.....	55	....	39	32	....	47	....	354	....	50	41	....
Total	2067	1352	1178	1026	755	966	1765	10028	11668	4078	1582	1785
Mean...	66.7	45.1	38.0	33.1	27.0	31.2	58.8	323	389	132	51.0	595
Max....	88	59	54	36	30	47	130	545	645	340	63	86
Min....	53	27	29	30	25	26	43	108	240	50	37	37
Acre-ft.	4100	2680	2340	2040	1500	1920	3500	19890	23140	8090	3140	3540

Total run-off for water year=75,880 acre-feet.

Discharge of Williams Fork River Near Parshall, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	59	50	52	34	29	27	32	92	615	460	104	36
2.....	56	53	52	33	29	27	34	103	650	430	95	35
3.....	57	57	50	32	29	27	34	90	655	400	104	33
4.....	58	52	45	31	30	27	36	163	740	380	100	30
5.....	59	55	40	32	29	27	40	130	715	360	102	32
6.....	57	56	40	32	28	25	42	103	755	355	97	33
7.....	52	52	42	33	28	25	44	133	800	335	91	31
8.....	56	50	42	33	28	26	46	166	720	316	86	31
9.....	51	52	44	33	28	26	50	197	710	284	84	28
10.....	52	52	44	33	28	27	56	240	650	276	80	28
11.....	55	50	43	33	27	26	64	244	740	256	75	30
12.....	57	48	42	33	26	26	78	287	785	233	77	31
13.....	59	48	43	32	26	25	98	208	640	212	82	30
14.....	69	48	43	32	26	25	139	177	650	191	74	28
15.....	64	48	43	*31	26	24	150	164	610	194	74	23
16.....	61	48	41	31	25	23	147	180	615	194	72	18
17.....	62	48	38	30	24	23	180	184	705	208	69	18
18.....	61	48	39	29	24	24	130	161	740	272	68	18
19.....	58	47	40	29	*25	*24	80	167	805	198	68	21
20.....	58	45	40	29	27	24	90	170	780	188	68	23
21.....	58	40	39	30	27	25	98	208	745	158	68	26
22.....	58	35	37	30	26	25	122	280	705	158	66	31
23.....	58	31	36	30	26	25	163	385	645	158	64	32
24.....	58	32	34	29	25	25	117	475	665	152	63	32
25.....	57	40	34	29	25	25	103	495	685	140	69	35
26.....	58	*48	33	28	25	26	94	615	645	132	60	35
27.....	55	50	33	28	26	27	88	675	595	122	41	35
28.....	58	52	34	27	27	28	86	595	520	140	40	35
29.....	56	50	35	27	....	28	90	640	485	122	39	35
30.....	57	50	35	28	....	30	96	635	470	122	38	35
31.....	49	....	35	28	....	31	....	625	....	113	37	....
Total	1783	1435	1249	949	749	803	2627	8927	20240	7259	2255	888
Mean...	57.5	47.8	40.3	30.6	26.8	25.9	87.6	288	675	234	72.7	29.6
Max....	69	57	52	34	30	31	180	675	805	460	104	36
Min....	49	31	33	27	24	23	32	90	470	113	37	18
Acre-ft.	3540	2850	2480	1880	1490	1590	5210	17710	40150	14400	4470	1760

Total run-off for water year=97,530 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Troublesome Creek at Atmore Ranch Near Troublesome, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								45	58	31	16	12
2								56	56	29	15	12
3								63	50	27	14	12
4								72	43	26	14	12
5								53	42	26	12	12
6								49	38	23	12	12
7								43	33	23	15	4.2
8								48	31	18	14	3.8
9								65	29	21	13	3.5
10								108	29	28	14	3.3
11								116	26	27	14	2.8
12								152	27	27	16	2.8
13							April 15	182	25	26	16	2.8
14							to 30	182	22	26	16	2.6
15							14	171	23	26	16	2.3
16							14	147	23	25	26	2.3
17							14	155	22	24	20	2.6
18							14	152	23	24	17	2.6
19							15	148	22	24	16	3.2
20							15	131	21	26	16	3.2
21							16	112	21	23	16	6.3
22							16	96	20	18	16	6.0
23							16	98	19	16	16	8.1
24							20	100	19	14	16	9.0
25							20	95	19	16	15	8.7
26							24	95	17	21	16	9.0
27							28	94	17	17	14	6.9
28							34	84	15	17	14	6.6
29							35	79	20	16	14	7.5
30							42	69	29	16	13	7.5
31								66		16	14	
Total							337	3126	839	697	476	189.6
Mean							21.1	101	28.0	22.5	15.4	6.32
Max.							42	182	58	31	26	12
Min.							14	43	15	14	12	2.3
Acre-ft.							668	6200	1660	1380	944	376

Total run-off for period=11,230 acre-feet.

**Discharge of Troublesome Creek at Atmore Ranch Near Troublesome, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	11					12	29	116	15	2.4	0.7
2	7.8	12					11	28	107	20	2.2	0.8
3	8.4	13					11	26	102	17	4.5	0.8
4	8.7	12					45	27	106	17	10	0.8
5	8.1	9.5					25	28	83	15	10	1.0
6	10	12					15	27	94	14	10	1.0
7	11	15					17	35	89	13	9.5	1.1
8	10	14					20	40	88	17	9.5	1.3
9	12	18					30	54	74	19	9.5	1.3
10	8.7	16					29	76	70	20	10	1.3
11	9.0	16					49	82	73	18	11	1.5
12	10	16					44	83	66	13	13	2.6
13	12	16					56	67	60	11	13	3.8
14	18	15					77	56	52	16	13	3.6
15	16	14					60	51	45	20	12	4.8
16	15	14					41	50	41	20	12	11
17	13	14					49	45	38	20	11	10
18	12	12					45	44	39	29	4.5	12
19	12	12				Mar. 21	39	49	39	21	1.2	11
20	12	12				to 31	35	48	41	17	1.2	6.4
21	12	11				*12	43	63	34	17	1.0	2.9
22	13	12				14	41	88	29	15	1.2	2.7
23	12	11				16	48	113	25	15	1.2	2.7
24	12	13				12	41	128	22	15	1.0	2.7
25	13	*14				10	35	139	19	14	0.9	3.8
26	13	Nov. 1				9.0	31	166	15	13	0.9	5.4
27	10	to 25				8.2	30	188	17	13	0.9	6.8
28	12					8.2	28	155	13	7.2	0.9	7.7
29	12					13	26	152	11	2.7	0.9	7.2
30	12					8.6	26	152	11	2.7	0.8	8.2
31	8.1					10		142		2.4	0.8	
Total	350.6	334.5				121.0	1059	2431	1619	469.0	180.0	126.9
Mean	11.3	13.4				11.0	35.3	78.4	54.0	15.1	5.81	4.23
Max.	18	18				16	77	188	116	29	13	12
Min.	7.8	9.5				8.2	11	26	11	2.4	0.8	0.7
Acre-ft.	695	663				240	2100	4820	3210	930	357	252

Total run-off for period=13,270 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Troublesome Creek Near Troublesome, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	20	30	17	17	21	12	75	313	6.4	26	8.8
2....	11	24	31	17	18	20	24	81	243	7.6	27	6.0
3....	13	27	32	16	18	20	9.2	79	215	6.4	31	6.0
4....	11	29	32	15	20	19	11	75	302	6.8	32	3.3
5....	11	27	28	15	20	18	11	85	246	7.2	32	4.6
6....	11	29	23	15	20	20	134	75	215	5.3	32	4.0
7....	13	29	26	17	21	16	96	87	226	3.6	30	3.3
8....	13	29	23	18	21	19	217	102	180	4.6	30	4.6
9....	14	48	24	20	20	20	366	132	165	9.2	30	3.6
10....	14	42	24	19	19	21	262	224	171	4.6	28	2.9
11....	14	42	23	19	18	19	284	189	143	5.3	30	2.9
12....	14	42	21	19	18	20	252	280	143	4.6	28	3.3
13....	16	42	20	18	18	20	152	273	138	4.0	46	3.3
14....	18	42	21	17	19	19	61	182	133	5.0	27	3.3
15....	18	42	22	*17	20	18	22	172	126	8.0	26	2.6
16....	16	38	22	18	19	20	53	160	83	8.8	26	2.9
17....	16	39	21	20	18	19	228	136	83	9.6	25	3.3
18....	15	42	21	20	17	21	79	102	93	2.9	22	2.6
19....	17	34	22	19	*18	20	79	129	83	1.8	18	3.3
20....	17	34	22	18	19	*20	120	146	73	1.4	19	3.3
21....	16	30	20	18	20	16	94	113	63	1.1	20	3.3
22....	16	32	19	18	22	30	109	166	42	8.8	18	2.6
23....	18	29	18	18	22	45	134	346	36	1.9	18	1.9
24....	17	27	19	17	21	40	189	354	25	1.9	17	2.9
25....	18	32	20	18	19	32	200	394	16	2.3	18	1.0
26....	14	*34	18	20	20	26	163	586	10	2.2	18	1.0
27....	22	37	17	19	21	14	96	604	7.6	2.6	18	1.4
28....	21	37	17	18	22	14	83	565	6.0	3.0	14	1.8
29....	22	36	18	19	....	14	75	520	6.4	2.5	14	2.1
30....	24	32	18	18	....	14	81	440	6.4	2.5	8.8	2.1
31....	19	....	17	17	....	12	....	380	....	2.2	9.6	....
Total	490	1027	689	554	545	647	3696.2	7252	3592.4	391.8	738.4	182.6
Mean..	15.8	34.2	22.2	17.9	19.5	20.9	123	234	120	12.6	23.8	6.09
Max..	24	48	32	20	22	45	366	604	313	30	46	21
Min..	11	20	17	15	17	12	9.2	75	6.0	3.6	8.8	1.9
Acre-ft.	972	2040	1370	1100	1080	1280	7330	14380	7130	777	1460	362

Total run-off for water year=39,280 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of East Fork of Troublesome Creek Near Troublesome, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....							79	94	15	1.4	2.5	
2....							90	96	15	1.4	2.2	
3....							101	94	14	1.4	1.8	
4....							106	96	14	1.3	1.6	
5....							100	93	13	1.1	1.3	
6....							94	91	13	1.0	.9	
7....							96	101	13	.8	1.5	
8....							107	89	13	.6	4.5	
9....							89	83	13	.9	9.0	
10....							118	75	12	3.8	9.8	
11....							180	72	10	2.2	9.4	
12....							230	66	9.8	2.8	8.1	
13....							300	60	9.4	2.0	8.1	
14....							300	58	9.4	2.0	8.1	
15....							17	290	55	9.4	4.5	9.0
16....							17	250	54	9.8	7.3	9.4
17....							17	250	53	9.8	7.7	7.7
18....							14	260	50	9.0	8.5	6.9
19....							16	250	46	8.1	6.9	6.5
20....							19	225	44	6.9	6.1	4.9
21....							9.4	200	38	6.1	4.9	4.2
22....							12	166	36	6.5	6.1	3.8
23....							18	160	33	5.7	6.5	3.2
24....							20	160	29	5.7	6.5	2.5
25....							27	157	25	4.9	6.1	1.8
26....							35	151	24	5.3	5.3	1.6
27....							31	121	22	5.3	5.7	1.4
28....							42	118	18	4.2	5.7	1.2
29....							44	113	17	4.0	5.3	.9
30....							63	106	17	3.5	4.2	.8
31....							100	.....	2.2	3.5	.....	.....
Total							401.4	5067	1729	280.0	125.5	134.6
Mean							25.1	163	57.6	9.03	4.05	4.49
Max.							63	300	101	15	8.5	9.8
Min.							9.4	79	17	2.2	0.6	0.8
Acre-ft.							796	10050	3430	555	249	267

Total run-off for period=15,350 acre-feet.

**Discharge of East Fork of Troublesome Creek Near Troublesome, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.6	3.0	4.0				5.7	39	190	26	9.7	0.3
2....	0.4	3.3	4.0				6.1	33	187	25	7.8	0.2
3....	0.2	3.5	4.0				7.8	36	183	23	8.9	0.2
4....	3.5	3.5	4.2				10	41	177	22	5.7	0.5
5....	3.5	4.5	4.0				10	45	170	20	4.8	0.7
6....	3.8	4.9	3.5				8.9	43	160	20	3.9	0.8
7....	3.8	5.7	3.2				9.7	38	156	20	3.7	1.2
8....	3.5	6.0	3.2				11	33	141	20	3.4	1.8
9....	6.5	6.4	3.0				27	45	127	19	3.2	1.1
10....	6.9	5.2	2.8				48	116	113	18	2.7	0.7
11....	6.5	5.2	1.7				88	130	104	15	3.0	0.9
12....	4.9	5.2	1.3				88	137	96	13	5.2	1.1
13....	11	5.2	Dec. 1				125	139	90	11	5.0	1.2
14....	12	5.2	to 12				123	158	83	9.4	4.6	1.8
15....	11	5.0					113	194	81	7.8	3.5	1.8
16....	9.4	4.7					113	149	77	6.3	3.0	1.5
17....	7.3	4.9					98	127	72	8.1	2.7	1.3
18....	5.3	5.1					94	90	68	9.4	2.3	0.9
19....	3.8	4.5				Mar. 21	91	88	64	14	2.3	0.7
20....	3.5	4.1				to 31	72	94	60	14	2.3	1.3
21....	2.8	4.0				5.0	50	100	57	12	3.0	1.2
22....	1.7	3.8				5.0	45	104	54	12	2.5	1.0
23....	1.6	3.8				5.2	41	158	48	11	2.2	0.7
24....	1.3	4.1				4.4	39	218	40	11	1.8	0.6
25....	1.0	4.7				4.8	40	230	37	9.4	1.6	0.4
26....	0.5	4.8				4.8	47	256	33	9.2	1.2	0.2
27....	0.3	5.1				4.4	48	359	30	10	1.0	0.2
28....	1.2	4.8				5.2	45	325	28	8.9	0.9	0.5
29....	3.0	4.6				4.3	41	280	27	8.6	0.7	1.0
30....	2.9	4.3				4.4	44	245	26	8.9	0.7	1.2
31....	2.7	.....				6.8	.....	222	.....	10	0.4	.....
Total	126.4	139.1	38.9			54.3	1589.2	4272	2779	4320	103.7	27.0
Mean	4.08	4.64	3.24			4.94	53.0	133	92.6	13.9	3.35	0.90
Max.	12	6.4	4.0			6.8	125	359	190	26	9.7	1.8
Min.	0.2	3.0	1.3			4.3	5.7	33	26	6.3	0.4	0.2
Acre-ft.	251	276	77			108	3150	8470	5510	857	206	54

Total run-off for period=19,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Muddy Creek Near Kremmling, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							121	160	12	2.0		2.0
2							151	151	10	1.3		1.7
3							206	143	19	1.3		1.6
4							283	130	11	1.2		1.3
5							228	126	13	1.0		1.2
6							143	121	18	.7		1.4
7							181	116	18	1.0		1.2
8							234	134	16	1.0		1.7
9							315	114	16	1.9		7.0
10							360	132	13	1.9		8.0
11							448	120	12	6.0		9.0
12							462	106	9.5	5.0		8.0
13							530	114	8.5	5.0		8.0
14							565	88	9.0	5.5		8.0
15							510	93	9.5	4.1		9.5
16							380	94	7.5	3.8		7.0
17							388	84	6.5	6.5		7.0
18							408	80	4.7	6.5		7.0
19							385	65	4.1	7.0		6.0
20							269	60	9.5	6.0		4.1
21							265	58	9.5	4.4		2.6
22							283	53	5.0	3.8		2.3
23							298	55	5.0	3.8		2.6
24							65	322	56	2.9	4.1	3.5
25							53	318	69	2.3	5.0	4.4
26							62	290	35	3.5	3.8	4.1
27							74	295	26	3.8	3.2	4.4
28							91	258	19	2.9	2.3	3.5
29							134	216	23	2.3	2.0	3.8
30							116	190	19	2.3	1.9	3.8
31								167		2.9		1.7
Total							595	9469	2644	269.2	104.7	135.7
Mean							85.0	305	88.1	8.68	3.38	4.52
Max.							134	565	160	19	7.0	9.5
Min.							53	121	19	2.3	0.7	1.2
Acres-ft.							1180	18780	5240	534	208	269

Total run-off for period=26,210 acre-feet.

Discharge of Muddy Creek Near Kremmling, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8	3.2					88	271	26	5.0		1.4
2	4.1	3.2					87	254	26	4.4		1.2
3	5.0	4.1					86	236	21	4.7		0.8
4	7.0	6.5					76	228	21	5.7		0.7
5	7.5	4.4					93	258	17	5.0		0.8
6	8.5	4.4					78	232	16	4.4		0.7
7	8.0	3.8					88	214	13	4.1		0.6
8	8.0	2.6					120	204	12	3.1		0.6
9	8.0	6.0					145	180	12	2.8		0.6
10	7.5	5.5					192	173	11	2.8		0.6
11	6.5	4.1					245	159	13	2.0		0.6
12	6.5	6.5					260	191	12	1.6		0.8
13	7.0	4.4					218	200	10	2.2		1.0
14	14	5.0					185	131	9.6	3.1		0.8
15	12	4.7					155	122	10	2.4		0.7
16	8.0	5.5					171	112	10	1.4		0.8
17	7.0	3.2					151	102	11	1.0		1.0
18	5.5	3.1					143	96	27	1.2		1.8
19	4.4	3.1					83	158	84	18	0.8	2.0
20	4.7	3.0					86	180	73	11	0.7	1.6
21	6.5	3.0					87	185	66	7.2	1.0	1.0
22	7.0	3.0					106	247	58	8.0	1.4	1.0
23	7.0	3.2					122	323	53	8.4	1.8	2.0
24	7.0	3.4					104	350	42	6.8	2.0	1.8
25	7.0	3.5					90	357	36	3.8	5.0	2.0
26	8.0	3.6					94	409	33	3.4	9.6	1.8
27	9.0	Nov. 1					84	433	34	4.1	9.2	1.8
28	8.0	to 26					73	407	37	4.7	7.2	2.0
29	7.0						71	352	34	4.7	4.7	1.8
30	4.1						78	335	29	4.7	2.8	2.2
31	3.2							294		4.4	2.6	
Total	217.1	106.6					1078	6611	3942	372.8	105.7	36.5
Mean	7.00	4.10					89.8	213	131	12.0	3.41	1.22
Max.	14	6.5					122	433	271	27	9.6	2.2
Min.	3.2	2.6					71	76	29	3.4	0.7	0.6
Acres-ft.	431	211					2140	13110	7820	739	210	72

Total run-off for period=24,733 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Blue River at Dillon, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	76	34	26	20	19	17	20	43	379	313	106	62
2....	76	34	24	19	18	16	19	53	331	294	98	60
3....	74	33	25	18	16	17	19	87	338	280	96	59
4....	69	35	27	17	16	18	19	113	362	277	96	55
5....	65	34	24	18	17	17	19	116	370	270	96	54
6....	65	*34	25	18	17	16	19	107	374	252	96	54
7....	65	34	30	17	17	16	19	107	366	243	96	54
8....	62	34	32	18	18	16	*	20	146	366	237	96
9....	61	34	30	18	19	17	20	138	342	234	96	56
10....	59	34	27	19	19	*	17	19	169	312	228	92
11....	55	32	24	19	19	17	20	202	245	225	94	62
12....	54	28	20	18	*19	17	22	251	218	231	113	62
13....	52	25	22	*18	18	18	23	334	208	231	130	62
14....	51	26	21	*17	17	18	22	406	210	213	125	58
15....	50	28	20	16	18	19	22	354	233	195	116	56
16....	50	28	20	16	18	19	23	302	306	186	118	55
17....	49	28	22	15	18	20	23	281	370	175	113	55
18....	48	29	21	16	18	20	24	323	480	172	111	54
19....	46	30	20	16	18	21	23	309	600	180	111	53
20....	45	28	20	17	18	21	21	260	608	183	104	52
21....	44	26	21	17	18	21	21	230	586	175	100	50
22....	43	24	22	18	18	20	22	266	570	162	96	49
23....	42	23	22	17	18	20	22	225	550	152	96	54
24....	42	23	22	16	18	19	24	230	525	145	90	57
25....	41	25	21	17	18	18	27	251	550	138	83	58
26....	40	26	20	18	19	17	31	278	540	142	80	57
27....	40	24	19	18	20	18	34	292	470	148	73	56
28....	38	25	20	17	20	18	35	302	430	145	70	56
29....	37	26	20	16	....	19	38	323	381	138	66	55
30....	36	28	21	18	....	19	42	342	337	125	64	55
31....	36	....	21	19	....	19	....	366	....	118	66	....
Total	1611	872	709	541	506	565	712	7206	11960	6207	2987	1683
Mean..	52.0	29.1	22.9	17.5	18.1	18.2	23.7	232	399	200	96.4	56.1
Max..	76	35	32	20	20	21	42	406	608	313	130	62
Min..	36	23	19	15	16	16	19	43	208	118	64	49
Acre-ft.	3200	1730	1410	1070	1000	1120	1410	14290	23720	12310	5920	3340

Total run-off for water year=70,520 acre-feet.

Discharge of Blue River at Dillon, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	56	44	32	28	23	23	24	62	500	265	128	56
2....	55	43	32	27	23	23	24	57	550	255	154	54
3....	56	42	32	27	24	23	25	56	545	242	174	54
4....	58	43	31	26	24	22	26	63	575	238	160	54
5....	60	43	26	26	25	21	27	68	570	242	142	56
6....	59	42	25	26	24	21	26	69	608	252	128	57
7....	57	42	29	27	24	22	25	75	659	250	118	58
8....	53	39	28	27	24	22	25	90	647	245	112	57
9....	54	39	30	28	24	23	27	111	608	240	108	53
10....	53	40	31	28	24	23	30	128	602	235	100	52
11....	52	39	30	28	23	23	38	160	641	225	95	52
12....	52	38	29	27	23	23	44	180	618	213	91	52
13....	52	38	30	27	22	23	48	172	602	206	91	56
14....	52	37	30	26	22	23	56	152	520	206	90	59
15....	54	38	30	26	23	22	65	140	445	206	84	57
16....	54	38	30	*25	23	22	70	140	416	213	83	56
17....	54	38	29	24	21	22	69	146	490	213	78	54
18....	53	39	29	23	19	22	68	146	570	211	73	53
19....	51	38	29	24	19	22	62	142	591	204	70	48
20....	51	36	30	24	*20	22	58	146	545	189	69	47
21....	51	31	30	25	21	22	58	158	485	178	68	46
22....	52	27	29	25	22	*22	63	189	445	170	66	47
23....	52	25	28	26	22	22	76	242	408	164	66	44
24....	53	27	27	26	21	23	78	286	390	160	69	44
25....	54	30	26	26	21	22	70	320	369	156	69	42
26....	55	32	25	25	21	22	64	394	357	150	69	42
27....	54	33	26	25	22	23	60	530	342	144	66	42
28....	52	33	26	23	22	23	60	500	304	144	63	41
29....	52	32	27	23	....	23	63	515	272	144	59	39
30....	51	32	28	22	....	24	64	530	260	140	57	38
31....	48	....	29	23	....	24	....	515	....	132	56	....
Total	1660	1098	893	793	626	697	1493	6482	14934	6232	2857	1510
Mean..	53.5	36.6	28.8	25.6	22.4	22.5	49.8	209	498	201	92.2	50.3
Max..	60	44	32	28	25	24	78	530	659	265	174	59
Min..	48	25	25	22	19	21	24	56	260	132	56	38
Acre-ft.	3290	2180	1770	1570	1240	1380	2960	12860	29620	12360	5670	3000

Total run-off for water year=77,900 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Blue River Below Green Mountain Reservoir Near Kremmling, Colo.,
for Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	322	172	125	105	100	90	125	372	1910	1180	413	259
2....	315	168	120	95	88	95	120	413	1720	1110	390	256
3....	301	174	120	92	86	98	140	520	1840	1060	377	242
4....	287	182	125	92	86	95	152	612	1950	1030	386	221
5....	280	*161	150	86	86	90	151	540	1960	1020	377	227
6....	287	172	135	88	86	92	152	515	1940	1010	382	221
7....	276	172	135	92	88	95	140	440	1910	939	404	224
8....	273	170	135	98	90	94	137	422	1940	926	408	280
9....	280	176	130	105	95	92	141	590	1590	880	390	290
10....	276	172	125	115	100	86	147	783	1360	854	386	287
11....	270	148	120	110	100	88	151	1070	1220	809	386	290
12....	256	134	115	110	100	84	172	1350	1090	828	422	290
13....	245	110	115	105	98	90	198	1890	1080	828	445	276
14....	242	110	100	100	95	98	167	2250	1160	750	408	298
15....	230	120	95	95	88	94	167	2080	1350	669	408	294
16....	221	130	95	100	94	90	164	1640	1540	693	450	273
17....	215	140	100	110	90	95	170	1690	1850	663	455	252
18....	208	140	110	105	92	100	164	2080	2390	634	436	242
19....	208	135	115	105	95	115	155	1940	2620	634	426	233
20....	208	125	115	95	*94	110	148	1350	2550	663	408	227
21....	200	120	120	105	94	110	148	1210	2450	634	395	221
22....	195	120	130	*102	94	110	160	1520	2260	580	390	215
23....	192	125	125	100	90	110	166	1410	2280	550	382	236
24....	190	135	120	100	92	110	178	1730	2210	530	354	245
25....	190	130	120	96	92	*111	188	1890	2420	500	332	239
26....	188	125	115	95	90	115	212	1940	2180	530	318	230
27....	188	125	115	92	85	115	259	2030	1890	530	304	221
28....	188	125	115	90	86	120	308	1760	1710	525	290	215
29....	180	130	115	92	....	120	322	1630	1460	490	280	212
30....	180	130	110	98	....	125	343	1580	1300	460	280	227
31....	180	....	110	105	....	130	....	1840	....	431	266	....
Total	7271	4276	3655	3078	2574	3167	5345	41087	55160	22940	11748	7443
Mean.	235	143	118	99.3	91.9	102	178	1325	1839	740	379	248
Max..	322	182	135	115	100	130	343	2250	2620	1180	455	298
Min..	180	110	95	86	85	84	120	372	1080	431	266	212
Ac.-ft.	14420	8480	7250	6110	5110	6280	10600	81490	109400	45500	23300	14760

Total run-off for water year=332,700 acre-feet.

**Discharge of Blue River Below Green Mountain Reservoir Near Kremmling, Colo.,
for Year Ending Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	227	172	140	120	100	110	110	350	2400	1370	550	239
2....	218	182	140	115	105	105	115	377	2700	1330	601	236
3....	224	184	135	115	110	105	120	350	2630	1230	663	227
4....	236	186	135	110	110	100	130	377	2690	1190	606	233
5....	239	184	125	110	110	98	140	450	2670	1220	560	248
6....	233	190	115	105	110	96	140	386	2900	1240	525	252
7....	227	180	120	110	110	98	140	422	3240	1220	495	248
8....	227	162	130	110	110	100	145	500	2920	1200	480	236
9....	230	172	125	115	110	105	150	570	2750	1180	465	224
10....	236	174	130	115	110	110	155	675	2460	1140	440	212
11....	236	166	130	115	110	105	180	835	2920	1080	418	215
12....	210	167	125	115	110	105	240	932	3220	1020	408	218
13....	210	180	125	110	110	105	300	809	2970	965	426	221
14....	230	164	125	110	110	105	340	687	2550	932	400	215
15....	230	172	130	105	105	100	400	640	2140	1020	372	210
16....	224	167	125	*103	105	100	470	651	2200	965	354	200
17....	215	172	125	98	98	100	460	681	2810	939	343	195
18....	208	176	125	96	94	100	420	628	3050	1100	332	190
19....	200	155	130	100	96	98	350	618	3080	838	318	192
20....	198	156	130	105	*99	98	298	645	2720	835	308	188
21....	195	140	125	105	100	98	322	718	2510	757	312	182
22....	202	120	125	110	110	98	377	958	2360	712	301	180
23....	202	100	120	110	115	100	480	1300	2140	675	298	176
24....	205	100	115	110	115	100	436	1660	2130	657	308	174
25....	202	115	110	110	110	100	372	1830	2030	623	326	172
26....	208	*122	110	110	110	100	343	2400	1960	585	318	168
27....	200	130	115	105	108	105	332	2960	1880	570	298	167
28....	200	135	120	98	110	105	322	2440	1570	601	280	166
29....	198	135	120	96	....	110	343	2550	1390	623	262	164
30....	198	135	120	94	....	110	386	2550	1340	590	252	162
31....	178	....	120	96	....	110	....	2480	....	565	242	....
Total	6646	4693	3865	3326	3000	3179	8516	33429	74330	29092	12261	6110
Mean.	214	156	125	107	107	103	284	1078	2478	938	396	204
Max..	239	190	140	120	115	110	480	2960	3240	1370	663	252
Min..	178	100	110	94	94	96	110	350	1340	565	242	162
Ac.-ft.	13180	9310	7670	6600	5950	6310	16890	66310	147400	57700	24320	12120

Total run-off for water year=373,800 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Snake River Near Montezuma, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											61	32
2											95	31
3											84	31
4											66	32
5											66	32
6											66	31
7											53	31
8											53	32
9											53	29
10											53	27
11											49	31
12											53	28
13											51	30
14										July 15 to 31	44	31
15										138	42	28
16										138	42	26
17										138	40	27
18										138	40	30
19										132	40	26
20										112	38	23
21										106	38	23
22										95	38	24
23										93	38	27
24										88	38	25
25										82	37	23
26										82	38	22
27										77	34	23
28										70	32	22
29										70	32	22
30										68	32	21
31										66	32	21
Total										1693	1478	820
Mean										99.6	47.7	27.3
Max.										138	95	32
Min.										66	32	21
Acre-ft.										3360	2930	1630

Total run-off for period=7,920 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Snake River at Dillon, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	12	7.9	8.2	6.7	8.2	7.2	7.2	29	266	172	36	18
2.....	12	7.2	7.8	6.6	8.0	7.5	6.6	30	236	153	34	17
3.....	13	7.2	8.6	6.4	7.7	7.5	6.6	39	262	139	35	16
4.....	14	7.2	8.2	6.6	7.6	9.2	6.3	36	266	134	36	16
5.....	14	7.6	9.2	7.0	7.6	8.6	6.9	35	270	134	31	15
6.....	14	*7.9	7.5	6.9	8.0	7.5	6.9	29	270	130	32	14
7.....	12	7.5	7.8	6.8	8.4	7.5	6.0	24	262	121	29	15
8.....	12	8.3	8.6	6.6	8.8	8.0	*6.3	35	243	114	29	16
9.....	12	8.3	8.9	6.5	9.0	8.6	6.3	55	215	103	28	16
10.....	11	8.3	7.5	6.6	9.0	*10	7.2	74	180	100	28	16
11.....	11	8.0	7.2	6.7	8.9	10	7.5	95	163	103	26	17
12.....	9.9	7.4	7.0	6.8	*8.9	10	9.6	127	158	114	39	13
13.....	9.5	7.3	7.3	6.9	8.9	10	9.6	197	151	96	36	10
14.....	9.5	7.8	7.6	*7.0	8.9	10	7.8	236	148	87	29	11
15.....	9.5	8.2	6.8	6.9	8.9	9.6	8.2	188	166	87	30	11
16.....	8.7	8.6	7.2	6.8	8.9	9.4	8.2	156	188	98	32	11
17.....	8.7	8.8	7.6	6.6	9.6	7.6	8.2	191	243	84	26	11
18.....	8.7	8.8	8.0	6.6	9.2	7.8	8.2	218	302	79	27	10
19.....	8.7	9.0	8.0	6.6	9.2	8.0	7.5	172	322	74	28	10
20.....	8.7	8.6	8.2	7.0	9.2	8	7.5	129	302	76	25	10
21.....	8.7	8.4	8.6	7.2	9.2	7.8	8.2	127	278	65	25	10
22.....	8.3	8.0	9.0	7.4	8.9	7.8	7.2	136	258	67	26	10
23.....	8.3	7.8	8.9	7.6	8.9	7.5	7.8	136	266	57	25	9.6
24.....	8.3	7.6	8.6	7.4	8.6	6.6	8.6	163	310	53	22	8.9
25.....	8.3	7.8	8.6	7.2	8.6	6.0	11	197	348	52	21	8.9
26.....	7.9	7.8	8.6	7.8	8.6	5.7	13	229	274	55	20	8.9
27.....	7.9	7.6	7.4	7.6	8.4	6.3	18	250	250	60	20	8.9
28.....	7.5	7.8	6.6	7.4	8.0	6.3	20	215	232	54	21	9.2
29.....	7.2	8.2	7.5	7.2	.....	6.6	25	236	209	52	20	9.6
30.....	6.9	8.2	7.2	7.6	.....	7.2	28	243	180	42	20	9.2
31.....	6.9	.....	6.9	8.0	.....	7.5	.....	286	.....	37	18	.....
Total	305.1	239.1	245.1	217.0	242.1	247.3	295.4	431.3	721.8	279.2	85.4	366.2
Mean.	9.84	7.97	7.91	7.00	8.65	7.98	9.85	139	241	90.1	27.5	12.2
Max.	14	9.0	9.2	8.0	9.6	10	28	286	348	172	39	18
Min.	6.9	7.2	6.6	6.4	7.6	5.7	6.0	24	148	37	18	8.9
Acre-ft.	605	474	486	430	480	491	586	5550	14320	5540	1690	726

Total run-off for water year=34,380 acre-feet.

Discharge of Snake River at Dillon, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	8.9	8.9	8.9	8.2	8.0	7.2	9.6	18	290	212	30	12
2.....	8.9	8.9	7.8	7.8	7.2	7.2	9.6	18	326	206	50	12
3.....	8.9	9.6	9.2	7.6	7.6	7.0	9.6	18	334	191	40	13
4.....	8.9	10	8.9	7.6	8.4	6.8	10	24	366	191	31	14
5.....	8.9	12	7.0	8.0	8.8	6.6	11	25	375	194	28	13
6.....	8.6	12	5.6	8.4	8.6	6.4	10	22	425	194	28	11
7.....	8.6	12	6.8	9.0	9.0	6.4	8.9	27	475	194	25	13
8.....	8.2	10	6.4	9.4	8.8	6.8	9.6	32	415	197	25	13
9.....	8.6	9.8	8.4	9.6	8.4	7.2	11	28	362	194	24	13
10.....	8.6	10	8.2	9.4	7.8	7.6	13	40	348	180	22	11
11.....	8.2	10	8.2	9.4	7.6	7.6	24	84	430	166	21	11
12.....	8.2	11	8.2	9.4	7.4	7.8	37	87	445	151	20	10
13.....	8.6	11	8.0	9.4	7.2	8.2	39	66	375	139	19	8.6
14.....	8.9	11	8.2	9.2	6.8	8.4	43	41	326	132	18	8.6
15.....	8.6	10	8.6	9.0	6.4	8.0	51	33	306	109	17	8.6
16.....	8.6	10	8.8	*8.9	6.2	7.8	39	32	357	98	16	8.2
17.....	8.6	10	8.8	8.8	6.0	7.8	32	30	440	95	16	7.8
18.....	8.6	10	8.2	8.8	5.8	8.0	21	25	440	102	15	7.8
19.....	8.2	8.8	7.8	8.6	6.2	7.8	16	28	450	85	21	7.8
20.....	7.8	7.0	8.0	8.6	*6.5	7.6	18	30	400	79	15	7.8
21.....	7.8	6.8	8.0	9.0	6.8	7.6	26	34	380	72	14	7.8
22.....	7.8	6.2	8.2	9.4	7.2	8.2	33	50	352	68	14	7.8
23.....	7.8	5.4	8.4	9.4	7.4	7.8	41	80	352	62	14	7.8
24.....	7.8	6.2	8.8	9.2	7.2	7.5	24	107	334	54	14	7.8
25.....	8.2	7.0	8.4	9.4	7.0	7.5	18	132	322	48	14	7.8
26.....	8.2	8.4	7.6	9.6	6.8	7.5	18	226	310	40	13	7.8
27.....	8.2	8.6	7.2	10	7.2	7.5	18	278	286	37	13	7.8
28.....	8.6	9.0	7.2	10	7.4	7.8	18	229	240	41	13	7.8
29.....	8.6	8.9	7.8	10	.....	8.2	21	274	226	36	12	7.8
30.....	8.9	8.2	8.6	10	.....	8.9	18	286	226	35	12	7.5
31.....	8.9	.....	8.6	9.6	.....	8.9	.....	282	.....	29	12	.....
Total	262.2	276.7	248.8	280.7	205.7	235.6	657.3	2686	10713	3631	626	291.9
Mean.	8.46	9.22	8.03	9.05	7.35	7.60	21.9	86.6	357	117	20.2	9.73
Max.	8.9	12	9.2	10	9.0	8.9	51	286	475	212	50	14
Min.	7.8	5.4	5.6	7.6	5.8	6.4	8.9	18	226	29	12	7.5
Acre-ft.	520	549	493	557	408	467	1300	5330	21250	7200	1240	579

Total run-off for water year=39,890 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ten Mile Creek Near Frisco, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....											66	24
2.....											77	23
3.....											86	23
4.....											90	32
5.....											61	31
6.....											58	30
7.....											55	29
8.....											54	27
9.....											51	25
10.....											45	23
11.....											41	25
12.....											46	26
13.....											47	24
14.....											42	23
15.....										July 17	37	23
16.....										to 31	38	22
17.....										109	36	21
18.....										113	37	21
19.....										117	32	20
20.....										105	36	20
21.....										96	33	19
22.....										97	32	19
23.....										78	34	19
24.....										77	38	19
25.....										72	36	19
26.....										72	32	18
27.....										70	29	19
28.....										77	28	19
29.....										72	28	19
30.....										70	25	18
31.....										64	24	..
Total										1289	1374	680
Mean										85.9	44.3	22.7
Max.										117	90	32
Min.										64	24	18
Acre-ft.										2560	2730	1350

Total run-off for period=6,640 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ten Mile Creek at Dillon, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	47	23	22	17	16	16	25	77	450	218	58	36
2.....	50	25	21	16	14	17	24	86	434	207	58	36
3.....	48	27	22	15	13	18	24	120	438	192	56	34
4.....	42	28	23	15	13	20	24	134	462	178	59	33
5.....	44	24	20	16	14	19	25	107	458	167	56	32
6.....	46	*22	18	16	14	18	24	98	466	156	56	31
7.....	44	25	20	15	15	18	21	86	458	158	59	32
8.....	*45	27	24	16	16	20	*22	93	438	156	65	44
9.....	46	27	23	16	16	21	24	138	370	149	59	46
10.....	47	28	20	17	16	*23	26	214	326	136	52	52
11.....	45	24	19	17	*15	23	27	338	290	130	60	53
12.....	46	20	17	17	*14	22	31	418	262	142	68	48
13.....	44	18	18	*16	14	21	31	482	286	134	63	46
14.....	41	20	17	*15	14	25	28	506	342	124	56	50
15.....	40	22	16	15	15	24	28	458	386	114	62	44
16.....	39	23	17	15	15	23	28	414	414	113	63	40
17.....	37	23	18	14	16	25	29	466	442	107	60	39
18.....	35	23	17	14	16	27	28	518	482	96	63	37
19.....	35	24	17	14	16	28	27	446	486	100	63	35
20.....	32	22	17	15	16	28	25	324	454	96	59	33
21.....	30	20	18	15	17	28	26	358	434	89	58	33
22.....	29	19	19	16	17	27	27	414	426	82	60	36
23.....	29	18	19	16	17	26	28	414	406	80	58	40
24.....	28	18	19	15	17	25	32	470	390	77	55	41
25.....	28	19	18	15	18	24	35	486	414	79	51	38
26.....	28	21	18	16	18	23	41	494	358	84	50	37
27.....	29	19	16	15	18	22	53	510	322	93	42	36
28.....	28	20	17	14	19	24	55	470	290	80	40	35
29.....	26	21	18	13	....	24	56	438	255	72	39	35
30.....	27	23	18	15	....	24	65	446	228	66	40	39
31.....	28	....	19	16	....	24	....	470	....	63	39	....
Total	1163	673	585	477	439	707	939	10593	11667	3738	1727	1171
Mean.	37.5	22.4	18.9	15.4	15.7	22.8	31.3	33.9	38.9	121	55.7	39.0
Max.	50	28	24	17	19	28	65	518	486	218	68	53
Min.	26	18	16	13	13	16	21	77	228	63	39	31
Acres-ft.	2310	1330	1160	946	871	1400	1860	20830	23140	7410	3430	2320

Total run-off for water year=67,010 acre-feet.

Discharge of Ten Mile Creek at Dillon, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	37	24	23	16	17	22	22	55	554	318	104	35
2.....	35	32	22	15	16	22	23	56	613	306	124	36
3.....	36	37	23	15	17	21	24	53	568	290	122	35
4.....	40	30	23	14	18	20	26	60	572	282	100	41
5.....	40	31	20	14	20	19	28	68	586	282	87	41
6.....	38	29	14	15	21	18	28	62	631	282	86	51
7.....	29	28	17	15	21	19	27	71	680	278	77	45
8.....	34	27	18	16	21	19	26	93	694	270	77	38
9.....	35	28	20	16	21	20	31	109	568	266	72	35
10.....	34	28	20	16	22	21	40	128	568	255	69	35
11.....	33	29	20	16	20	21	44	174	649	243	63	36
12.....	33	29	20	16	19	21	50	185	631	236	63	36
13.....	32	29	19	16	19	21	56	142	559	225	66	36
14.....	34	28	20	15	20	20	62	124	559	221	59	35
15.....	33	28	20	15	21	19	68	122	506	214	56	33
16.....	31	27	20	*14	20	19	73	126	534	214	56	32
17.....	30	27	19	14	18	20	73	130	608	225	52	30
18.....	30	27	18	14	17	19	69	126	600	259	51	28
19.....	30	26	19	14	19	19	60	128	572	228	48	29
20.....	29	24	20	15	*23	19	58	145	522	207	51	29
21.....	29	22	19	16	24	19	69	203	490	196	47	29
22.....	30	19	19	17	24	*20	84	208	466	182	46	29
23.....	30	17	18	17	23	21	107	390	446	156	51	29
24.....	30	18	17	17	22	20	93	450	424	120	52	28
25.....	31	20	17	18	22	20	80	510	410	118	53	28
26.....	32	21	16	19	22	19	80	600	406	149	50	27
27.....	30	22	16	19	22	20	65	626	378	147	45	26
28.....	32	23	16	19	22	20	55	559	350	145	40	26
29.....	29	23	17	18	....	21	58	586	330	140	39	26
30.....	30	22	18	18	....	21	58	564	322	132	36	26
31.....	24	....	17	17	....	22	....	554	....	122	35	....
Total	1000	775	585	496	571	622	1637	7501	15752	6712	1977	990
Mean.	32.3	25.8	18.9	16.0	20.4	20.1	54.6	242	525	217	63.8	33.0
Max.	40	37	23	19	24	22	107	626	680	318	124	51
Min.	24	17	14	14	16	18	22	52	322	118	35	26
Acres-ft.	1980	1540	1160	984	1130	1230	3250	14880	31240	13310	3920	1960

Total run-off for water year=76,580 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Willow Creek Near Dillon, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	3.2
2	0.5	2.9
3	0.5	4.7
4	0.5	3.8
5	0.6	3.8
6	0.4	4.1
7	1.1	3.8
8	2.0	3.8
9	2.0	3.8
10	3.2	3.8
11	5.0	4.4
12	5.5	3.5
13	3.5	3.5
14	July 15	2.0	3.5
15	to 31	3.2	3.2
16	10	3.2	3.5
17	9.5	3.2	3.2
18	8.0	3.2	3.5
19	6.5	3.5	3.5
20	5.0	5.5	3.8
21	4.7	4.7	3.5
22	2.3	5.0	3.5
23	1.9	5.0	3.5
24	1.8	5.5	3.5
25	1.5	5.5	3.5
26	1.4	7.5	3.8
27	0.8	6.0	3.2
28	0.7	5.0	3.2
29	0.6	4.4	3.5
30	0.4	4.4	3.2
31	0.4	3.8	3.2
Total	55.9	106.4	107.7
Mean	3.29	3.43	3.59
Max	10	7.5	4.7
Min	0.4	0.4	2.9
Acre-ft.	111	211	214

Total run-off for period=536 acre-feet.

*Discharge measurement made on this day.

Discharge of Rock Creek Near Dillon, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	11
2	31	11
3	31	6.6
4	31	6.6
5	31	6.6
6	31	11
7	31	11
8	24	11
9	18	11
10	18	11
11	18	10
12	18	11
13	18	11
14	18	11
15	July 16	18	11
16	to 31	11	11
17	56	11	11
18	56	11	11
19	67	11	11
20	56	11	11
21	48	11	11
22	38	11	11
23	31	11	11
24	38	11	6.6
25	31	11	6.6
26	31	11	6.6
27	31	11	6.6
28	38	11	6.6
29	31	11	6.6
30	45	11	6.6
31	41	11	6.6
Total	669	550	280.6
Mean	41.8	17.7	9.35
Max	67	45	11
Min	31	11	6.6
Acre-ft.	1330	1090	557

Total run-off for period=2,980 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Boulder Creek Near Dillon, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											8.1	0.4
2											6.9	0.3
3											5.7	0.2
4											6.1	0
5											5.3	0
6											3.7	0
7											2.9	0
8											2.5	0
9											2.0	0
10											1.9	0
11											1.3	0
12											1.3	0
13											0.5	0
14											0.5	0
15											0.5	0
16											0.5	0
17										July 18	0.4	0
18										to 31	0.4	0
19										37	0.4	0
20										29	0.3	0
21										25	0.3	0
22										14	0.3	0
23										9.3	0.3	0
24										12	0.3	0
25										12	0.3	0
26										8.1	0.4	0
27										12	0.4	0
28										11	0.3	0
29										11	0.4	0
30										9.3	0.4	0
31										9.3	0.4	0
Total										211.0	54.9	0.9
Mean										15.1	1.77	0.03
Max.										37	8.1	0.4
Min.										8.1	0.3	0
Acres-ft.										119	109	1.8

Total run-off for period=530 acre-feet.

Discharge of Slate Creek Near Dillon, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											23	4.6
2											23	4.4
3											28	4.4
4											26	4.2
5											21	4.9
6											18	5.8
7											16	5.8
8											15	4.9
9											13	4.4
10											13	3.1
11											11	3.3
12											11	2.9
13											12	3.1
14											11	3.1
15											9.4	2.9
16										July 18	8.9	2.2
17										to 31	7.8	2.1
18										40	7.3	2.2
19										30	7.3	2.6
20										21	6.8	2.6
21										17	6.6	2.2
22										15	5.8	2.2
23										16	5.8	2.2
24										14	6.1	2.1
25										12	7.8	1.8
26										10	8.9	1.6
27										10	7.8	1.4
28										14	6.8	1.4
29										14	6.1	1.1
30										15	5.6	1.0
31										22	5.4	0.9
Total										250	361.2	90.5
Mean										17.9	11.7	3.02
Max.										40	28	5.8
Min.										10	5.4	1.0
Acres-ft.										496	716	180

Total run-off for period=1,390 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Black Creek Below Black Lake Near Dillon, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	45	14	
2.....	49	13	
3.....	49	14	
4.....	45	14	
5.....	40	14	
6.....	36	14	
7.....	35	12	
8.....	36	12	
9.....	29	11	
10.....	27	10	
11.....	27	10	
12.....	28	10	
13.....	28	11	
14.....	26	11	
15.....	24	10	
16.....	July 17 to 31	23	9.2
17.....	80	22	9.2
18.....	138	20	9.2
19.....	86	18	8.0
20.....	73	17	7.6
21.....	60	19	6.8
22.....	59	18	6.0
23.....	58	18	6.0
24.....	56	18	6.0
25.....	54	21	5.5
26.....	49	21	5.0
27.....	46	19	4.4
28.....	61	17	4.4
29.....	59	16	4.4
30.....	55	16	4.4
31.....	49	14	.....
Total	983	821	276.1
Mean.	65.5	26.5	9.20
Max..	138	49	14
Min..	46	14	4.4
Acre-ft.	1950	1630	548

Total run-off for period=4,130 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roaring Fork River at Aspen, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	46	23	19	16	18	18	20	52	320	157	23	9.6
2....	45	25	19	15	18	18	19	56	306	144	21	9.3
3....	41	26	19	14	18	18	19	88	330	140	19	8.7
4....	37	27	20	15	18	16	18	99	338	132	18	8.4
5....	39	25	20	16	18	18	20	80	344	130	18	8.4
6....	51	26	20	21	18	18	20	85	327	126	18	7.7
7....	47	27	19	21	18	17	18	80	316	122	20	11
8....	46	*26	19	21	18	16	18	100	282	115	21	22
9....	47	26	19	22	19	17	19	151	224	104	20	25
10....	47	26	*18	21	19	18	21	218	196	104	20	31
11....	44	26	19	20	18	18	21	264	174	93	21	33
12....	42	23	19	22	18	19	23	320	157	88	24	32
13....	40	20	19	22	18	17	24	455	164	82	18	33
14....	39	20	18	22	*18	18	22	459	172	73	18	40
15....	37	22	18	*22	18	17	23	363	187	69	23	34
16....	35	24	17	22	18	16	23	306	237	67	22	31
17....	33	25	19	21	18	17	24	341	299	60	21	38
18....	32	24	22	20	18	17	22	387	375	57	23	40
19....	31	23	19	19	18	18	21	344	431	57	20	41
20....	31	22	18	20	17	18	21	237	423	66	20	41
21....	30	21	19	21	18	18	20	218	407	59	20	40
22....	29	22	20	20	17	19	23	244	515	54	21	26
23....	29	21	21	19	17	18	25	244	667	47	18	27
24....	28	21	22	20	17	18	27	302	703	45	16	27
25....	28	20	22	20	17	18	31	338	675	44	15	29
26....	28	20	21	20	17	17	35	359	651	40	13	31
27....	32	20	20	19	14	17	39	375	555	39	12	28
28....	28	20	22	19	16	18	41	296	391	33	11	26
29....	26	20	21	19	....	19	40	288	201	33	11	27
30....	28	20	19	19	....	19	41	292	174	28	11	31
31....	27	....	18	19	....	18	....	316	....	25	10	....
Total	1123	691	695	607	494	548	738	7757	10541	2438	566	796.1
Mean.	36.2	23.0	19.5	19.6	17.6	17.7	24.6	250	351	78.6	18.3	26.5
Max.	51	27	22	22	19	19	41	459	703	157	24	41
Min.	26	20	17	14	14	16	18	52	157	25	10	7.7
Acre-ft.	2230	1370	1200	1200	980	1090	1160	15390	20910	4840	1120	1580

Total run-off for water year=53,370 acre-feet.

Discharge of Roaring Fork River at Aspen, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	37	34	25	21	20	19	17	45	816	545	54	16
2....	33	36	24	21	18	19	17	51	852	540	55	16
3....	42	39	24	22	20	19	18	47	912	530	58	15
4....	56	36	24	17	21	18	19	54	912	510	50	14
5....	51	37	23	15	22	18	21	63	852	495	46	14
6....	50	37	22	17	19	19	21	56	918	480	45	15
7....	42	35	23	22	22	18	20	64	1070	432	40	15
8....	47	27	23	23	21	18	20	82	1050	340	34	14
9....	48	35	24	24	19	18	22	104	966	240	32	14
10....	45	34	25	19	18	18	24	136	906	207	29	14
11....	37	29	25	19	17	18	29	167	1100	180	28	19
12....	37	30	24	22	18	19	34	177	1300	164	36	21
13....	47	35	24	21	19	18	39	128	1060	151	39	20
14....	49	29	25	20	21	17	51	109	912	134	33	17
15....	48	33	24	19	19	17	68	102	762	126	30	17
16....	46	31	24	19	18	18	63	100	804	117	28	20
17....	44	32	25	24	19	17	72	102	1000	111	27	33
18....	43	31	23	21	14	17	66	109	1160	106	25	29
19....	41	26	23	20	16	18	54	120	1220	100	25	28
20....	40	25	24	20	18	16	58	128	1110	95	25	27
21....	42	23	24	20	*20	15	62	167	984	90	25	27
22....	44	24	25	20	21	16	71	237	924	86	24	29
23....	43	22	23	22	20	16	90	296	870	80	24	29
24....	41	23	23	21	18	16	73	364	870	73	25	28
25....	48	24	24	22	19	16	63	396	810	68	29	27
26....	47	25	22	23	19	16	57	480	774	64	26	26
27....	41	25	23	22	19	14	56	535	738	66	22	26
28....	45	25	22	23	19	15	51	450	585	78	20	26
29....	43	25	23	24	....	15	50	495	530	67	18	25
30....	41	25	24	21	....	15	45	750	560	63	18	24
31....	35	....	22	20	....	16	....	816	....	58	17	....
Total	1353	892	733	644	534	529	1351	6930	27327	6396	987	645
Mean.	43.6	29.7	23.6	20.8	19.1	17.1	45.0	224	911	206	31.8	21.5
Max.	56	39	25	24	22	19	90	816	1300	545	58	33
Min.	33	22	22	15	14	14	17	45	530	58	17	14
Acre-ft.	2680	1770	1450	1280	1060	1050	2680	13750	54200	12690	1960	1280

Total run-off for water year=95,850 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roaring Fork River at Glenwood Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1060	464	414	352	325	330	414	1300	3700	3150	790	506
2....	956	478	408	290	285	340	402	1410	3630	2790	770	513
3....	890	492	396	270	275	335	390	1890	3920	2800	720	485
4....	840	528	390	250	275	315	384	2500	4120	2880	700	478
5....	820	478	390	275	300	320	408	2290	4400	2820	720	457
6....	890	478	390	352	305	320	408	2080	4200	2550	710	444
7....	830	506	396	346	315	305	384	1980	4240	2600	710	438
8....	770	499	379	368	295	295	368	2100	4060	2610	710	552
9....	760	499	379	408	315	310	374	2840	3350	2560	820	654
10....	760	499	396	362	325	270	402	3430	2880	2420	870	672
11....	720	471	396	352	310	310	402	4120	2580	2310	780	681
12....	690	450	396	384	315	280	420	4760	2310	2210	820	672
13....	663	374	390	384	310	305	485	6710	2270	2180	780	690
14....	645	368	310	325	305	330	457	7340	2320	1970	700	1150
15....	618	438	305	357	300	310	450	6180	2470	1840	730	956
16....	618	464	280	330	320	290	444	4600	2910	1760	780	830
17....	584	478	362	330	305	305	450	4660	3450	1690	830	770
18....	568	478	420	305	305	320	438	5360	4500	1670	840	770
19....	552	478	362	305	320	330	426	5250	5360	1680	790	830
20....	528	464	315	325	305	346	402	3830	5490	2070	750	810
21....	513	450	320	352	310	352	402	3110	5450	1750	740	780
22....	492	444	357	325	315	374	408	3610	5450	1590	720	750
23....	485	444	390	330	315	402	432	3540	5900	1510	690	870
24....	478	426	408	305	320	384	499	4120	6280	1410	663	860
25....	471	432	390	340	325	368	576	4520	5620	1380	645	860
26....	457	426	357	300	310	340	663	4800	5360	1240	592	850
27....	485	384	340	325	280	330	820	5010	4780	1160	560	820
28....	485	420	396	295	285	346	1070	4060	4280	1100	528	780
29....	478	420	368	325	310	368	1130	3670	3740	1010	528	760
30....	464	414	368	340	310	384	1140	3470	3330	934	544	800
31....	471	414	362	330	310	384	1140	3690	3110	860	520	770
Total	20041	13644	11530	10237	8570	10298	15448	118230	122380	60504	22050	21488
Mean..	646	455	372	330	306	332	515	3814	4079	1952	711	716
Max...	1060	528	420	408	325	402	1140	7340	6280	3150	870	1150
Min....	457	368	280	250	275	270	368	1300	2270	860	520	438
Ac.-ft.	39750	27600	22870	20300	17000	20430	30640	234500	242700	120000	43740	42620

Total run-off for water year=861,600 acre-feet.

Discharge of Roaring Fork River at Glenwood Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	800	740	536	432	352	325	368	1120	5340	3780	1070	499
2....	780	780	520	402	374	315	420	1260	5820	3540	1090	485
3....	820	770	520	420	379	330	485	1190	5630	3400	1190	485
4....	912	760	536	384	374	315	584	1200	5770	3320	1070	513
5....	934	740	520	305	374	310	730	1380	5450	3300	989	492
6....	923	720	450	285	357	340	672	1330	6110	3320	967	499
7....	880	690	528	410	368	295	627	1490	7120	3320	934	499
8....	870	636	485	440	362	315	627	1770	7210	2930	870	499
9....	880	654	506	450	352	325	700	2140	6540	2950	810	492
10....	870	654	520	420	335	325	780	2700	6040	2970	770	478
11....	830	636	528	420	305	320	923	3090	7340	2630	720	528
12....	800	636	485	426	352	335	1100	3280	8040	2440	720	576
13....	1100	654	492	414	340	335	1290	2630	7040	2290	850	584
14....	1400	636	492	414	368	340	1430	2150	6110	2270	750	568
15....	1210	627	471	390	352	310	1710	1940	5210	2150	710	560
16....	1100	618	471	395	315	325	1490	1840	5180	2270	672	552
17....	1020	627	478	*404	325	310	1640	1800	6590	2100	654	536
18....	967	645	471	390	270	315	1730	1730	7260	2440	636	520
19....	923	600	450	375	300	346	1410	1760	7260	2280	627	544
20....	912	552	450	370	320	320	1370	1950	6920	1930	609	528
21....	890	499	457	360	*340	295	1430	2410	6320	1740	584	536
22....	912	536	485	360	355	315	1630	3160	5920	1610	552	544
23....	860	478	444	370	340	346	2180	4000	5630	1500	552	528
24....	840	492	444	380	320	362	1860	4830	5600	1400	600	528
25....	860	560	464	380	362	346	1620	5100	5230	1320	618	520
26....	912	584	402	390	330	340	1490	5890	4940	1230	600	520
27....	840	576	414	362	330	310	1410	7490	4680	1190	560	513
28....	850	552	402	368	352	320	1300	5680	3930	1220	536	506
29....	860	552	457	374	310	335	1200	5700	3560	1210	528	499
30....	810	536	471	362	310	340	1190	5490	3670	1140	513	485
31....	760	414	457	330	310	352	1140	5510	3110	1070	499	770
Total	28325	18740	14806	11982	9603	10112	35396	93010	177460	70260	22850	15616
Mean..	914	625	478	387	343	326	1180	3000	5915	2266	737	521
Max...	1400	780	536	460	379	362	2180	7490	8040	3780	1190	584
Min....	760	478	402	285	270	295	368	1120	3560	1070	499	478
Ac.-ft.	56180	37170	29370	23770	19050	20060	70210	184500	352000	139400	45320	30970

Total run-off for water year=1,008,000 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

THIRTY-FIRST BIENNIAL REPORT

Discharge of Crystal River Near Redstone, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	304	108	87	73	70	76	116	504	1630	1350	265	105
2.....	268	110	88	56	63	76	113	546	1700	1160	256	107
3.....	247	113	86	52	60	76	108	720	1850	1210	242	99
4.....	222	118	87	51	67	73	107	917	1920	1260	228	120
5.....	236	104	84	55	70	78	113	728	1960	1210	242	86
6.....	244	108	84	69	70	76	113	692	1810	1050	271	81
7.....	219	108	81	70	75	72	104	685	1900	1140	259	86
8.....	202	108	80	78	70	68	100	744	1700	1080	274	131
9.....	200	108	83	75	76	74	104	1090	1320	1090	334	108
10.....	194	110	*80	73	76	66	113	1390	1090	1000	328	104
11.....	180	99	80	74	75	74	115	1540	908	953	265	107
12.....	174	94	81	75	76	67	126	1880	784	854	233	108
13.....	164	78	81	74	75	73	142	2330	768	784	205	177
14.....	159	79	72	69	74	78	133	2410	863	692	188	508
15.....	153	105	72	*72	75	72	133	2150	1000	657	222	319
16.....	146	108	65	68	75	73	131	1850	1270	608	239	253
17.....	142	112	85	68	74	75	128	1980	1590	602	230	211
18.....	137	113	94	66	74	79	126	2120	2030	596	214	225
19.....	135	115	79	68	76	80	123	1980	2230	657	186	259
20.....	131	110	73	72	74	88	115	1410	2240	827	180	250
21.....	128	108	78	73	74	90	118	1410	2160	602	188	233
22.....	124	108	80	72	75	96	126	1740	2280	535	169	216
23.....	123	108	80	70	74	100	153	1810	2450	508	148	253
24.....	120	105	81	70	74	102	202	2000	2250	478	151	247
25.....	118	107	80	70	74	97	247	2080	2130	458	166	265
26.....	118	105	75	66	74	93	295	2140	1980	422	157	265
27.....	133	94	72	70	67	88	368	2090	1840	389	151	250
28.....	124	97	83	63	69	90	414	1650	1730	361	144	233
29.....	118	95	78	73	.....	96	422	1430	1530	334	146	230
30.....	121	91	75	76	.....	99	438	1410	1420	286	148	253
31.....	116	.....	75	75	.....	102	.....	1610	.....	277	139	.....
Total	5200	3126	2479	2136	2026	2547	5146	47036	50333	23430	6568	5889
Mean..	168	104	80.0	68.9	72.4	82.2	172	1517	1678	756	212	196
Max...	304	118	94	78	76	102	438	2410	2450	1350	334	508
Min...	116	78	72	51	60	66	100	504	768	277	139	81
Ac.-ft.	10310	6200	4920	4240	4020	5050	10210	93290	99830	46470	13030	11680

Total run-off for water year=309,200 acre-feet.

*Discharge measurement made on this day.

Discharge of Crystal River Near Redstone, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	228	226	129	98	75	72	94	347	1820	1320	293	84
2.....	220	228	124	90	79	71	115	386	1770	1250	321	82
3.....	237	223	125	96	80	77	140	359	1770	1200	332	84
4.....	290	217	133	80	79	75	193	374	1620	1180	277	100
5.....	274	201	125	71	80	72	226	402	1640	1180	246	89
6.....	274	198	114	64	77	82	190	410	1950	1180	237	94
7.....	243	185	127	74	82	70	165	486	2070	1160	226	84
8.....	223	165	117	82	82	74	171	580	2010	1050	212	79
9.....	223	173	120	87	77	77	201	686	1880	1070	198	75
10.....	212	169	120	79	75	80	231	876	1950	1040	183	76
11.....	201	162	118	79	68	76	290	1020	2220	876	171	107
12.....	198	165	115	79	83	79	318	1080	2250	844	217	124
13.....	585	167	115	77	76	80	402	773	1940	780	228	125
14.....	620	160	112	76	79	80	459	638	1740	766	185	101
15.....	504	160	110	72	76	76	531	580	1550	710	171	89
16.....	442	158	109	72	69	80	468	560	1680	686	158	80
17.....	398	160	110	79	66	74	522	550	2100	620	142	75
18.....	359	165	107	77	61	77	518	518	2220	884	131	74
19.....	343	158	104	74	70	80	464	560	2320	668	125	75
20.....	328	148	106	71	82	76	464	632	2090	540	120	74
21.....	318	122	106	71	93	71	504	884	2040	495	117	74
22.....	310	140	110	74	87	77	580	1160	1920	459	110	82
23.....	290	120	100	79	76	83	738	1400	1850	430	122	79
24.....	274	124	104	79	70	86	602	1650	1820	402	176	76
25.....	290	140	106	77	77	84	526	1730	1680	386	154	74
26.....	290	142	96	80	71	83	482	2010	1620	355	136	72
27.....	267	138	98	79	71	75	442	2100	1540	332	118	71
28.....	277	136	96	80	77	80	402	1770	1230	362	109	70
29.....	270	133	103	80	.....	83	382	1820	1180	336	103	70
30.....	252	129	103	79	.....	83	366	1710	1300	307	97	69
31.....	226	.....	101	75	.....	86	.....	1660	.....	290	90	.....
Total	9466	4912	3463	2430	2138	2419	11186	29711	54770	23158	5505	2508
Mean..	305	164	112	78.4	76.4	78.0	373	958	1830	747	178	83.6
Max...	620	228	133	98	92	86	738	2100	2320	1320	332	125
Min...	198	120	96	64	61	70	94	347	1180	290	90	69
Ac.-ft.	18780	9740	6870	4820	4240	4800	22190	58930	108600	45930	10920	4970

Total run-off for water year=300,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fourmile Creek Near Carbondale, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								8.3	35	3.8	0.4	0.2
2								7.0	35	3.2	0.4	0.2
3								7.0	35	2.8	0.4	0.2
4								9.6	33	2.5	0.4	0.3
5								14	31	2.1	0.4	0.3
6								19	30	1.8	0.4	0.3
7								30	31	1.6	0.4	0.2
8								42	29	0.9	0.3	0.2
9								62	25	1.5	0.3	0.2
10								68	22	0.8	0.3	0.2
11								68	21	0.7	0.2	0.3
12								55	21	0.6	0.3	0.3
13							April 14	38	18	0.5	0.3	0.2
14							to 30	21	33	17	0.5	0.3
15								21	35	13	0.5	0.3
16								21	38	11	0.5	0.3
17								26	40	9.3	0.5	0.3
18								23	49	8.6	0.7	0.3
19								15	54	8.0	0.6	0.3
20								15	61	7.0	0.5	0.3
21								23	71	6.1	0.5	0.3
22								33	70	5.9	0.4	0.2
23								35	70	5.9	0.4	0.3
24								19	66	5.9	0.4	0.3
25								14	67	5.9	0.4	0.3
26								12	72	5.6	0.4	0.3
27								9.6	66	5.1	0.4	0.2
28								8.3	54	5.1	0.7	0.2
29								7.7	48	4.8	0.4	0.2
30								7.0	43	4.3	0.4	0.2
31									38		0.4	0.2
Total								310.6	1402.9	494.5	31.4	9.3
Mean								18.3	45.3	16.5	1.01	0.30
Max								35	72	35	3.8	0.4
Min								7.0	7.0	4.3	0.4	0.2
Acre-ft.								616	2780	981	62	18

Total run-off for period=4,470 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of West Divide Creek Below Willow Creek Near Raven, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	3.1	1.6	.....	.....	.....	.....	6.0	101	122	47	2.1	0.6	
2.....	2.7	1.8	.....	.....	.....	.....	5.8	118	113	46	1.7	0.6	
3.....	2.1	1.8	.....	.....	.....	.....	5.6	176	111	55	1.5	0.6	
4.....	1.8	1.7	.....	.....	.....	.....	5.4	199	107	53	1.2	0.5	
5.....	2.9	1.6	.....	.....	.....	.....	5.6	176	107	39	1.0	0.5	
6.....	4.0	1.6	.....	.....	.....	.....	5.4	183	100	34	1.9	0.6	
7.....	2.6	1.4	.....	.....	.....	.....	5.4	199	120	32	2.8	0.6	
8.....	2.1	1.5	.....	.....	.....	.....	5.8	283	118	36	2.8	2.1	
9.....	1.9	*1.4	.....	.....	.....	.....	6.0	350	105	37	4.3	1.9	
10.....	2.2	.....	.....	.....	.....	.....	*6.5	362	107	26	5.3	1.5	
11.....	1.9	.....	.....	.....	.....	.....	6.0	362	100	22	3.2	1.2	
12.....	1.8	.....	.....	.....	.....	.....	to 31	8.5	465	94	21	2.8	0.9
13.....	1.6	.....	.....	.....	.....	.....	*1.3	11	585	88	16	2.3	3.2
14.....	1.6	.....	.....	.....	.....	.....	1.3	12	394	88	13	1.7	8.0
15.....	1.5	.....	.....	.....	.....	.....	1.4	11	296	94	12	1.7	3.0
16.....	1.5	.....	.....	.....	.....	.....	1.5	11	273	98	11	2.3	1.9
17.....	1.5	.....	.....	.....	.....	.....	1.8	7.5	300	100	9.2	3.7	1.5
18.....	1.5	.....	.....	.....	.....	.....	2.2	6.5	289	105	7.7	5.3	1.7
19.....	1.4	.....	.....	.....	.....	.....	2.5	6.0	222	102	8.0	3.9	1.9
20.....	1.4	.....	.....	.....	.....	.....	3.0	7.5	170	94	1.0	2.4	1.4
21.....	1.4	.....	.....	.....	.....	.....	3.8	7.5	180	92	7.4	1.9	1.4
22.....	1.1	.....	.....	.....	.....	.....	4.5	6.0	188	90	6.2	2.3	1.4
23.....	1.2	.....	.....	.....	.....	.....	5.0	9.8	186	92	5.6	2.1	2.4
24.....	1.4	.....	.....	.....	.....	.....	4.8	18	191	94	4.8	1.5	3.0
25.....	1.4	.....	.....	.....	.....	.....	4.5	29	180	84	6.2	1.2	3.5
26.....	1.8	.....	.....	.....	.....	.....	4.5	42	178	76	5.9	0.9	3.2
27.....	2.2	.....	.....	.....	.....	.....	4.5	52	170	74	5.3	0.8	2.6
28.....	1.8	.....	.....	.....	.....	.....	4.8	55	152	69	4.6	0.8	2.3
29.....	1.4	.....	.....	.....	.....	.....	5.0	58	142	62	4.1	0.7	2.3
30.....	1.6	Nov. 1	.....	.....	.....	.....	5.2	76	137	55	3.7	0.9	4.6
31.....	1.6	to 9	.....	.....	.....	.....	5.5	.....	134	.....	2.6	0.7	.....
Total	58.0	14.4	.....	.....	.....	67.1	497.8	7341	2861	591.3	67.7	60.9	
Mean..	1.87	1.60	.....	.....	.....	3.53	16.6	237	95.4	19.1	2.18	2.03	
Max...	4.0	1.8	.....	.....	.....	5.5	76	585	122	55	5.3	8.0	
Min...	1.1	1.4	.....	.....	.....	1.3	5.4	101	55	2.6	0.7	0.5	
Acres-ft.	115	29	.....	.....	.....	133	987	14560	5670	1170	134	121	

Total run-off for period=22,920 acre-feet.

*Discharge measurement made on this day.

**Discharge of West Divide Creek Below Willow Creek Near Raven, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	2.6	7.7	.....	.....	.....	.....	3.4	78	208	74	6.8	0.2
2.....	2.6	6.2	.....	.....	.....	.....	5.4	80	193	64	7.6	0.2
3.....	5.0	5.9	.....	.....	.....	.....	6.5	78	172	51	6.5	0.2
4.....	5.6	6.2	.....	.....	.....	.....	8.6	90	159	43	6.1	0.7
5.....	4.6	6.2	.....	.....	.....	.....	6.8	106	159	38	5.4	0.9
6.....	4.3	5.6	.....	.....	.....	.....	7.6	112	153	34	4.5	1.1
7.....	4.1	7.1	.....	.....	.....	.....	3.9	146	172	29	4.5	0.7
8.....	5.3	8.6	.....	.....	.....	.....	3.9	196	153	32	3.9	0.5
9.....	6.5	11	.....	.....	.....	.....	3.6	240	134	44	3.2	0.2
10.....	6.2	11	.....	.....	.....	.....	5.3	310	126	43	3.0	0.2
11.....	5.6	8.6	.....	.....	.....	.....	5.0	330	122	31	2.6	1.1
12.....	5.3	7.7	.....	.....	.....	.....	6.6	306	124	21	3.4	1.2
13.....	3.4	4.6	.....	.....	.....	.....	7.8	222	118	18	4.3	1.1
14.....	3.7	5.9	.....	.....	.....	.....	9.2	181	116	18	3.0	0.8
15.....	1.4	5.0	.....	.....	.....	.....	9.2	172	108	23	2.2	0.6
16.....	1.1	4.8	.....	.....	.....	.....	10.0	175	118	26	1.6	0.4
17.....	8.0	5.0	.....	.....	.....	.....	11.6	178	124	26	1.2	0.2
18.....	6.8	5.3	.....	.....	.....	.....	10.4	184	120	38	0.9	0.2
19.....	6.5	7.7	.....	.....	.....	.....	8.8	208	118	19	0.8	0.3
20.....	5.9	5.3	.....	.....	.....	.....	9.6	240	112	14	0.9	0.5
21.....	6.5	4.5	.....	.....	.....	.....	12.4	303	102	12	0.7	0.4
22.....	6.8	4.0	.....	.....	.....	.....	17.0	342	98	10	0.6	0.4
23.....	5.9	3.2	to 31	187	382	94	8.6	0.6	0.4
24.....	5.3	4.0	3.2	129	374	92	8.3	3.2	0.4
25.....	6.2	6.2	2.8	114	366	92	7.9	2.6	0.4
26.....	6.8	6.2	2.4	106	382	94	7.6	2.0	0.4
27.....	5.9	6.8	2.4	96	350	88	9.0	1.1	0.4
28.....	7.7	7.7	2.4	90	296	90	10	6.7	0.4
29.....	7.7	8.0	2.4	84	282	84	8.3	0.4	0.4
30.....	7.1	9.8	2.6	80	254	78	7.6	0.3	0.4
31.....	5.9	2.4	222	7.2	0.2
Total	252.7	195.8	.....	.....	.....	20.6	2396.9	7185	3721	782.5	84.8	15.3
Mean..	8.15	6.53	.....	.....	.....	2.58	79.9	232	124	25.2	2.74	0.51
Max...	37	11	.....	.....	.....	3.2	187	382	208	74	7.6	1.2
Min...	2.6	3.2	.....	.....	.....	2.4	3.4	78	78	7.2	0.2	0.2
Acres-ft.	501	388	.....	.....	.....	41	4750	14250	7380	1550	168	30

Total run-off for period=29,060 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rifle Creek Near Rifle, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	40	6.6	4.8	5.2	4.8	12	11	21	33	37	36	29
2.....	11	6.2	10	6.6	4.8	14	9.5	27	30	42	36	28
3.....	10	6.2	11	8.0	4.6	37	12	29	30	42	37	28
4.....	9.5	6.2	11	3.2	4.4	36	9.5	57	42	38	37	30
5.....	16	6.2	10	3.5	4.2	27	14	83	44	43	35	27
6.....	9.5	6.2	10	5.0	2.7	22	18	57	46	40	36	26
7.....	8.0	6.6	10	4.8	3.2	21	8.0	44	49	40	38	27
8.....	8.0	6.2	12	4.5	3.4	18	6.9	24	17	40	36	27
9.....	9.0	6.2	9.0	4.2	3.8	16	6.9	44	43	40	37	35
10.....	8.3	6.2	6.9	3.2	4.8	18	6.6	50	38	40	36	34
11.....	9.0	6.2	8.0	3.5	4.8	16	9.0	71	37	42	36	28
12.....	8.3	6.2	7.2	4.8	4.8	18	10	95	46	44	34	27
13.....	8.3	5.8	4.2	3.8	4.2	18	11	132	37	62	34	33
14.....	6.9	5.0	4.0	3.8	4.2	19	8.0	164	39	44	34	26
15.....	6.2	5.4	3.8	4.5	4.0	18	11	159	35	44	33	26
16.....	6.9	5.6	4.0	3.5	6.6	19	9.0	140	40	38	41	21
17.....	6.9	6.0	4.2	5.0	7.6	22	9.0	132	37	40	40	21
18.....	6.6	6.2	4.6	4.2	14	34	32	156	38	41	37	27
19.....	5.5	6.2	*5.0	3.8	11	32	32	143	37	52	37	22
20.....	6.6	5.8	5.0	4.8	9.5	20	32	110	37	41	30	22
21.....	6.9	5.5	4.8	4.0	8.6	28	34	100	37	37	29	23
22.....	6.9	6.6	4.8	4.2	9.5	19	34	88	44	37	29	27
23.....	6.9	6.0	5.5	4.2	12	30	35	87	43	37	25	25
24.....	6.2	6.6	5.0	*4.2	13	22	34	143	42	36	22	23
25.....	7.2	6.2	5.0	4.5	10	21	36	135	43	35	22	18
26.....	6.2	5.8	4.5	4.2	7.6	17	34	127	40	34	22	17
27.....	9.5	5.4	4.0	4.0	12	16	32	67	41	34	26	14
28.....	7.6	5.0	3.5	4.2	12	16	18	58	41	35	30	11
29.....	6.9	4.8	3.5	4.4	....	18	20	47	40	35	30	12
30.....	18	5.0	5.5	4.8	....	12	23	46	39	37	29	12
31.....	22	....	3.8	4.5	....	9.0	....	40	....	35	29	....
Total	304.8	178.1	194.6	137.1	196.1	645.0	565.4	2676	1195	1242	1013	726
Mean.	9.83	5.94	6.28	4.42	7.00	20.8	18.8	86.3	39.8	40.1	32.7	24.2
Max...	40	6.6	12	8.0	14	37	36	164	49	62	41	35
Min...	5.5	4.8	3.5	3.2	2.7	9.0	6.6	21	30	34	22	11
Acre-ft.	605	353	386	272	389	1280	1120	5310	2370	2460	2010	1440

Total run-off for water year=18,000 acre-feet.

Discharge of Rifle Creek Near Rifle, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	12	18	13	8.2	9.5	40	72	55	120	41	25	31
2.....	18	19	12	7.6	10	35	106	73	111	42	32	41
3.....	13	18	12	7.0	10	29	87	71	103	41	34	41
4.....	15	18	11	6.6	10	31	101	70	104	43	32	40
5.....	12	17	10	6.2	8.3	31	97	74	92	44	33	39
6.....	16	17	9.0	6.2	6.2	30	70	73	87	46	37	39
7.....	13	16	9.0	6.6	6.6	31	50	73	80	43	38	36
8.....	15	16	8.6	8.0	6.6	30	50	76	74	40	39	36
9.....	14	16	8.6	8.6	8.3	30	48	71	69	39	40	39
10.....	14	16	8.4	8.2	7.6	31	54	55	60	41	37	40
11.....	14	16	8.4	8.6	9.0	34	52	57	59	40	35	39
12.....	14	16	8.3	8.8	4.8	42	48	61	58	41	34	41
13.....	55	16	8.3	9.2	8.3	59	55	73	58	40	33	39
14.....	25	16	8.3	9.2	6.6	32	53	76	63	44	32	39
15.....	49	15	8.0	8.4	6.2	29	55	63	55	43	32	35
16.....	26	15	8.0	8.0	3.8	37	45	58	50	40	32	31
17.....	17	14	8.6	9.0	3.5	34	44	46	50	41	33	30
18.....	17	17	8.6	*8.4	3.8	30	43	50	49	43	32	29
19.....	16	21	8.4	8.0	4.5	30	34	49	42	34	33	29
20.....	16	21	8.4	7.6	5.0	29	30	50	40	32	32	27
21.....	16	18	9.0	9.5	6.2	29	30	63	38	24	32	28
22.....	16	16	9.6	10	9.0	56	32	87	39	25	32	28
23.....	15	14	10	7.2	8.3	90	45	160	42	24	29	23
24.....	14	13	10	9.0	10	31	48	196	40	26	31	20
25.....	34	13	9.4	9.5	8.0	37	31	263	39	28	30	18
26.....	18	13	8.8	10	3.8	34	32	316	37	31	29	18
27.....	16	14	8.4	10	5.5	36	34	326	38	35	30	20
28.....	19	14	8.8	9.5	10	47	32	257	39	39	33	24
29.....	17	15	8.4	11	....	58	37	218	40	24	33	26
30.....	18	14	9.0	8.6	....	65	35	203	40	22	34	29
31.....	17	....	8.6	9.0	....	66	....	171	....	22	29	....
Total	591	482	284.9	261.7	199.4	1223	1550	3534	1816	1118	1017	955
Mean.	19.1	16.1	9.19	8.44	7.12	39.5	51.7	114	60.5	36.1	32.8	31.8
Max...	55	21	13	11	10	90	106	326	120	46	40	41
Min...	12	13	8.0	6.2	3.5	29	30	46	37	22	25	18
Acre-ft.	1170	956	565	519	396	2430	3070	7010	3690	2220	2020	1890

Total run-off for water year=25,850 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East Fork of Rifle Creek Near Rifle, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	32	32	29	31	29	28	31	35	68	53	44	38
2....	31	32	30	31	28	31	31	35	65	51	44	37
3....	30	32	31	31	28	31	31	38	65	51	42	37
4....	32	32	32	31	29	31	31	41	64	48	42	38
5....	35	31	31	30	29	31	31	42	65	47	41	38
6....	33	31	31	30	29	30	31	43	64	46	41	38
7....	33	31	31	30	28	30	31	44	67	45	41	38
8....	34	31	31	30	28	31	31	43	65	44	41	38
9....	34	32	31	30	28	32	31	45	64	44	41	38
10....	32	32	31	30	28	31	32	50	64	44	41	38
11....	32	31	31	31	29	32	31	65	62	46	41	38
12....	32	31	31	31	28	31	32	84	60	46	42	40
13....	32	29	30	31	28	32	32	105	60	46	41	43
14....	31	29	29	31	26	32	29	123	60	46	41	43
15....	32	30	28	31	26	31	29	115	62	46	42	42
16....	32	31	29	31	26	32	26	102	63	46	43	41
17....	33	32	30	31	26	31	25	103	60	44	43	41
18....	32	33	31	31	26	31	28	112	58	43	42	42
19....	31	33	31	31	26	31	29	110	57	43	41	42
20....	31	32	31	31	26	31	29	100	56	44	40	41
21....	31	32	31	30	26	29	29	98	55	43	40	41
22....	31	32	31	30	26	30	29	100	56	43	38	41
23....	31	31	32	29	26	31	29	96	59	43	38	40
24....	32	32	32	29	25	30	30	96	58	44	37	38
25....	32	31	32	29	26	31	31	94	58	45	37	36
26....	33	31	32	29	24	31	31	85	57	44	38	34
27....	34	30	32	29	24	30	33	78	56	44	38	35
28....	33	31	32	29	24	30	34	77	56	45	38	36
29....	31	30	33	30	....	30	34	76	54	45	38	37
30....	32	30	32	29	....	30	34	73	54	44	38	37
31....	31	....	32	29	....	30	....	71	....	44	37	....
Total	995	937	960	936	752	952	915	2379	1812	1407	1251	1166
Mean.	32.1	31.2	31.0	30.2	26.9	30.7	30.5	76.7	60.4	45.4	40.1	38.9
Max.	35	33	33	31	29	32	34	123	68	53	44	43
Min.	30	29	28	29	24	28	25	35	54	43	37	34
Acres-ft.	1970	1860	1900	1860	1490	1890	1810	4720	3590	2790	2480	2310

Total run-off for water year=28,670 acre-feet.

Discharge of East Fork of Rifle Creek Near Rifle, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	37	42	37	33	33	30	32	42	110	68	62	45
2....	37	42	36	32	33	30	33	43	101	68	62	44
3....	38	41	37	32	33	30	33	42	101	68	62	44
4....	38	41	36	29	33	29	34	42	97	66	60	45
5....	37	41	33	28	31	29	35	42	96	66	58	46
6....	38	40	32	28	32	29	35	42	95	67	57	47
7....	38	40	32	29	32	29	34	42	92	67	54	46
8....	37	41	33	29	32	29	34	42	90	68	48	46
9....	36	41	33	29	32	30	34	43	86	67	47	48
10....	36	40	34	29	31	32	34	46	84	72	45	50
11....	35	40	34	32	31	32	35	51	83	71	44	48
12....	36	40	34	32	32	32	36	58	83	71	44	52
13....	42	40	33	32	32	32	36	67	82	68	44	53
14....	38	38	32	31	33	32	36	70	80	67	43	53
15....	37	40	32	31	32	32	36	71	78	65	43	43
16....	37	40	32	31	30	31	37	70	77	64	43	43
17....	36	38	32	33	30	31	40	68	77	63	43	43
18....	35	38	33	33	29	33	40	66	76	60	46	44
19....	35	37	33	34	30	33	38	66	74	59	46	48
20....	34	34	33	33	30	32	38	70	74	58	46	46
21....	35	34	32	34	31	31	38	83	73	58	47	50
22....	35	35	33	34	31	32	40	94	76	57	48	50
23....	35	33	32	34	30	33	41	105	76	56	48	47
24....	37	33	33	34	29	33	40	122	74	55	48	46
25....	42	35	33	34	29	33	41	133	72	55	54	46
26....	43	36	33	34	28	32	41	149	71	56	62	47
27....	41	36	33	34	29	32	41	161	71	58	57	47
28....	41	36	33	34	29	32	42	157	70	65	52	46
29....	43	36	33	35	....	32	43	149	68	63	51	46
30....	42	37	33	34	....	32	43	137	70	62	51	46
31....	42	....	33	34	....	32	....	124	....	60	50	....
Total	1173	1145	1032	995	870	971	1120	2497	2457	1968	1565	1405
Mean.	37.8	38.2	33.3	32.1	31.1	31.3	37.3	80.5	81.9	63.5	50.5	46.8
Max.	43	42	37	35	34	33	43	161	110	72	62	53
Min.	34	33	32	28	28	29	32	42	68	55	43	43
Acres-ft.	2330	2270	2050	1970	1730	1930	2220	4950	4870	3900	3100	2790

Total run-off for water year=34,110 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Plateau Creek at Upper Station Near Collbran, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1											0.7	0.6
2											0.8	0.4
3											0.6	0.2
4											0.4	0.2
5											0.4	0.2
6											0.4	0.3
7											0.6	0.4
8											1.5	1.8
9											2.2	2.9
10											2.4	2.4
11											1.8	1.9
12											1.1	1.1
13											0.7	4.3
14											0.4	1.6
15											0.9	5.8
16											3.6	4.0
17											4.8	2.6
18											3.7	2.8
19											2.6	3.9
20											2.1	2.3
21											1.7	0.8
22											1.3	1.4
23											1.1	5.3
24											0.8	5.9
25											0.6	6.0
26											0.5	7.3
27											0.4	4.9
28											0.3	4.4
29											0.3	4.3
30											0.7	5.9
31											0.8	....
Total											40.2	100.3
Mean											1.30	3.34
Max.											4.8	16
Min.											0.3	0.2
Acre-ft.											80	199

Total run-off for period=279 acre-feet.

Discharge of Plateau Creek at Upper Station Near Collbran, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.3	11					5.3	31	184	20	3.3	1.9
2	5.4	10					5.9	35	200	18	3.7	1.8
3	9.6	10					7.8	36	186	17	3.8	1.5
4	12	10					11	63	160	16	2.9	1.6
5	8.8	9					14	68	210	15	2.3	2.0
6	10	9					15	76	205	14	2.4	2.5
7	9.0	8					14	105	210	13	2.1	2.4
8	10	6					13	130	188	12	1.8	2.1
9	9.6	Nov. 1 to 8					15	139	178	12	1.6	1.8
10	8.0						19	153	166	15	1.6	1.6
11	7.8						23	168	184	10	1.4	3.3
12	8.8						29	172	168	8.8	2.8	4.0
13	59						38	105	130	7.6	4.2	3.4
14	35						51	82	104	7.1	3.3	2.9
15	21						69	79	93	7.3	2.9	2.5
16	19					Mar. 18	73	87	97	7.1	2.6	2.4
17	16					to 31	93	84	98	7.1	2.4	2.1
18	13					4.9	76	92	98	12	2.4	1.8
19	12					4.9	45	110	93	8.8	2.7	2.4
20	12					4.9	47	140	78	6.0	2.6	2.7
21	16					4.9	85	184	66	5.4	2.5	2.7
22	15					5.0	113	210	55	5.3	2.4	2.7
23	14					5.0	113	250	45	4.8	3.1	2.7
24	13					5.2	62	282	44	4.5	3.4	2.7
25	15					5.2	53	282	38	4.5	3.0	2.6
26	15					5.3	49	324	34	4.3	3.9	2.5
27	13					5.3	47	342	32	4.2	3.1	2.6
28	15					5.2	39	265	26	4.6	2.5	3.7
29	15					5.2	34	255	24	4.0	2.3	2.6
30	14					5.2	30	238	21	3.7	2.2	2.6
31	10					5.2	....	196	....	3.7	2.1	....
Total	446.3	73				71.4	1289.0	4783	3415	282.8	84.2	73.1
Mean	14.4	9.1				5.10	43.0	154	114	9.12	2.72	2.44
Max.	59	11				5.3	113	342	210	20	4.2	4.0
Min.	5.3	6				4.9	5.3	31	21	3.7	1.4	1.5
Acre-ft.	885	145				142	2560	9490	6770	561	167	115

Total run-off for period=20,860 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Plateau Creek Near Collbran, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	61	.....	.....	.....	15	15	24	130	710	118	18	16
2.....	66	.....	.....	.....	14	15	22	172	690	104	17	11
3.....	59	.....	.....	.....	13	14	21	186	616	93	17	12
4.....	41	.....	.....	.....	12	16	21	263	592	86	18	11
5.....	93	.....	.....	.....	14	14	22	215	600	86	20	9.2
6.....	88	.....	.....	.....	15	14	22	205	520	79	20	8.2
7.....	55	.....	.....	.....	15	14	21	218	852	72	20	8.9
8.....	48	.....	.....	.....	14	16	20	282	632	78	21	17
9.....	50	.....	.....	.....	15	13	21	396	464	71	23	15
10.....	50	.....	.....	.....	15	12	23	552	414	65	20	16
11.....	44	.....	.....	.....	14	13	23	750	379	55	16	11
12.....	40	.....	.....	.....	15	14	26	864	335	49	17	10
13.....	37	.....	.....	.....	16	13	27	1030	368	49	16	43
14.....	33	.....	.....	.....	15	12	24	1070	426	54	17	137
15.....	29	.....	.....	.....	14	12	23	1030	402	45	21	46
16.....	26	.....	.....	.....	14	13	24	914	438	43	61	25
17.....	24	.....	.....	.....	13	13	25	1030	432	35	42	18
18.....	22	.....	.....	.....	14	14	23	1140	478	33	31	26
19.....	21	.....	.....	.....	14	15	22	970	450	31	21	35
20.....	20	.....	.....	.....	15	16	21	616	402	29	17	28
21.....	19	.....	.....	.....	16	18	21	680	379	24	16	22
22.....	18	.....	.....	.....	16	18	23	828	357	23	16	28
23.....	18	*14	.....	.....	14	19	26	942	335	20	20	43
24.....	17	.....	.....	.....	15	18	33	1060	374	20	18	42
25.....	17	.....	.....	.....	*15	16	38	1060	308	32	17	56
26.....	17	.....	.....	.....	15	16	50	1090	263	27	16	66
27.....	22	.....	.....	.....	19	16	71	956	242	25	16	52
28.....	21	.....	.....	.....	17	17	89	770	208	22	15	38
29.....	19	.....	.....	*15	.....	.....	103	760	172	19	18	34
30.....	18	.....	.....	.....	.....	18	117	804	140	19	18	49
31.....	19	.....	.....	.....	.....	20	.....	740	.....	18	16	.....
Total	1112	465	419.5	434	413	471	1026	21723	12978	1524	639	936.3
Mean...	35.9	15.5	14.5	14.0	14.8	15.2	34.2	701	433	49.2	20.6	31.2
Max....	93	.....	.....	.....	19	20	117	1140	852	118	61	137
Min....	17	.....	.....	.....	12	12	20	130	140	18	15	8.2
Acre-ft.	2210	922	892	861	819	934	2040	43090	25740	3020	1270	1860

Total run-off for water year=83,660 acre-feet.

Discharge of Plateau Creek Near Collbran, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	36	54	30	23	21	17	22	86	876	127	21	12
2.....	37	54	27	21	22	17	23	97	956	115	24	12
3.....	90	55	27	22	23	17	27	90	816	106	27	11
4.....	120	51	25	21	22	18	31	120	760	95	22	12
5.....	83	49	24	21	23	18	41	153	888	93	20	12
6.....	64	46	23	21	23	18	43	158	864	86	18	13
7.....	54	38	24	21	23	18	38	202	928	81	17	12
8.....	65	37	23	22	22	18	35	260	876	68	16	12
9.....	66	36	24	22	21	19	46	312	864	64	17	11
10.....	62	37	25	21	19	20	57	330	888	76	18	11
11.....	62	34	28	21	19	22	68	384	928	68	20	18
12.....	81	34	27	22	20	23	72	464	864	51	31	18
13.....	616	37	28	22	*20	23	81	362	656	45	30	15
14.....	286	32	27	22	21	21	101	282	592	42	23	15
15.....	189	32	26	22	19	18	130	263	520	43	21	27
16.....	161	32	25	22	18	19	148	279	552	43	22	24
17.....	115	35	26	23	16	19	169	275	592	48	23	20
18.....	82	31	25	22	15	19	180	290	520	61	23	16
19.....	71	28	24	22	16	20	180	390	478	50	23	18
20.....	71	25	25	21	17	20	175	492	414	36	25	18
21.....	118	23	26	21	20	20	178	640	357	31	22	17
22.....	101	23	26	*25	21	20	196	770	312	30	19	17
23.....	95	29	22	25	19	20	212	780	275	29	20	16
24.....	90	23	23	23	17	20	205	998	271	28	32	15
25.....	93	23	23	23	17	20	183	970	242	27	22	15
26.....	84	21	22	23	17	19	142	1040	218	23	20	11
27.....	68	25	23	22	17	19	125	1150	212	22	17	11
28.....	74	27	22	23	18	19	110	1140	189	22	13	11
29.....	69	28	23	23	.....	19	101	1140	164	20	13	10
30.....	66	29	21	22	.....	19	90	1060	148	22	14	10
31.....	52	.....	25	22	.....	20	.....	942	.....	21	13	.....
Total	3323	1024	772	680	546	599	3209	15919	17220	1673	646	440
Mean...	107	34.1	24.9	21.9	19.5	19.3	107	514	574	54.0	20.8	14.7
Max....	616	55	30	23	23	23	212	1150	956	127	32	27
Min....	36	22	22	21	15	17	22	86	148	20	13	10
Acre-ft.	6590	2030	1530	1350	1080	1190	6360	31570	34160	3320	1280	873

Total run-off for water year=91,330 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Plateau Creek Near Cameo, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	152	79	84	79	72	96	162	534	1220	168	56	66
2.....	122	75	80	79	65	104	155	539	1140	155	54	68
3.....	120	98	77	77	81	102	162	1050	1060	138	51	60
4.....	106	112	77	75	80	84	165	1870	985	121	58	60
5.....	182	80	75	106	77	89	170	1290	955	121	58	60
6.....	230	86	75	106	80	89	162	1110	925	122	62	60
7.....	155	91	75	96	84	77	138	1040	945	111	64	64
8.....	128	91	74	104	84	77	125	1280	1090	110	66	77
9.....	118	91	74	102	79	87	132	1690	1020	106	70	76
10.....	118	93	79	89	72	67	165	1990	945	104	104	74
11.....	110	84	77	93	75	87	162	2270	872	94	84	76
12.....	104	84	77	91	120	74	173	2630	840	86	76	74
13.....	100	62	72	93	110	84	221	3170	836	84	70	112
14.....	93	77	59	108	91	102	158	3020	808	82	68	292
15.....	89	84	59	96	87	96	170	2480	777	78	68	171
16.....	86	86	64	100	100	82	182	1880	750	84	106	131
17.....	80	89	110	106	89	82	182	1970	723	77	100	118
18.....	77	89	116	93	93	93	155	2160	750	74	112	124
19.....	72	91	108	89	116	104	150	2170	732	71	86	136
20.....	70	87	100	89	91	112	145	1630	664	77	77	126
21.....	68	84	116	102	104	110	152	1460	584	70	77	120
22.....	67	86	106	100	104	122	150	1420	518	68	78	236
23.....	67	87	108	93	95	158	152	1410	442	65	76	207
24.....	65	79	114	77	104	212	191	1560	514	62	71	222
25.....	65	84	104	79	160	155	237	1580	442	62	76	195
26.....	70	82	128	72	96	132	262	1610	374	64	65	207
27.....	125	75	132	75	75	118	368	1730	316	70	62	201
28.....	89	84	125	72	82	118	484	1550	288	62	62	171
29.....	84	82	98	70	...	120	534	1460	250	60	62	160
30.....	86	82	80	70	...	125	468	1380	207	62	70	180
31.....	84	...	80	70	...	125	...	1290	...	58	66	...
Total	3182	2554	2803	2751	2569	3283	6232	52253	21972	2775	2258	3927
Mean...	103	85.1	90.4	88.7	91.8	106	208	1686	732	89.5	72.8	131
Max...	230	112	132	108	160	212	534	3170	1220	168	112	292
Min...	65	62	59	70	65	67	125	534	207	58	54	60
Ac.-ft.	6310	5070	5560	5460	5100	6510	12360	103600	43580	5500	4480	7790

Total run-off for water year=211,300 acre-feet.

Discharge of Plateau Creek Near Cameo, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	168	244	170	135	100	105	220	717	1980	222	69	69
2.....	192	250	168	120	98	105	244	938	2040	202	73	65
3.....	263	238	165	110	110	110	253	822	1950	186	75	65
4.....	290	229	178	96	115	110	373	876	1760	174	73	68
5.....	273	223	162	98	120	110	560	1020	2040	165	69	66
6.....	373	218	143	100	125	110	429	908	2100	156	69	69
7.....	232	204	162	105	125	96	413	1110	2080	143	66	68
8.....	229	181	155	105	120	98	361	1430	1830	136	66	66
9.....	226	192	158	105	115	100	417	1670	1740	131	68	65
10.....	215	190	155	100	110	100	472	2060	1630	133	66	65
11.....	204	187	158	100	110	105	600	2240	1640	128	64	91
12.....	212	184	155	100	*117	105	685	2400	1620	111	83	93
13.....	886	192	155	100	120	110	788	1670	1340	97	78	93
14.....	834	178	152	100	125	105	884	1320	1210	88	73	91
15.....	486	178	150	100	115	100	1050	1220	1000	84	70	91
16.....	417	178	145	100	105	100	920	1290	902	86	70	97
17.....	345	190	152	105	100	*100	1020	1260	944	108	73	91
18.....	300	198	145	100	92	100	1120	1260	849	222	70	88
19.....	276	187	140	98	105	100	761	1520	783	136	70	90
20.....	270	165	140	98	115	96	750	1610	675	117	75	91
21.....	357	130	150	*98	130	103	838	2040	586	108	70	93
22.....	393	162	150	100	135	132	1090	2350	510	97	69	93
23.....	345	132	130	105	120	195	1690	2520	454	93	72	95
24.....	322	155	135	105	115	181	1160	2980	422	91	84	95
25.....	413	173	130	105	120	150	1020	2760	388	83	88	90
26.....	373	176	125	105	110	130	1100	3100	343	80	80	88
27.....	304	173	130	105	115	115	1050	3470	328	80	73	88
28.....	304	165	125	105	110	132	884	2770	292	84	70	86
29.....	300	168	130	105	...	141	832	2640	271	83	65	84
30.....	280	165	135	105	...	160	794	2430	244	76	65	83
31.....	247	...	140	105	...	181	...	2180	...	72	66	...
Total	10329	5605	4588	3218	3197	3685	22778	56583	33951	3772	2222	2477
Mean...	333	187	148	104	114	119	739	1825	1132	122	71.7	82.6
Max...	886	250	178	135	135	195	1690	3470	2100	222	88	97
Min...	168	130	125	96	92	96	220	717	241	72	64	65
Ac.-ft.	20490	11120	9100	6380	6340	7310	45180	112200	67340	7480	4110	4910

Total run-off for water year=302,300 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Buzzard Creek Near Heiberger, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	2.6	.....	.....	.....	.....	8	107	128	17	0.1	0.2
2....	6.5	2.4	.....	.....	.....	.....	7	127	125	15	0.1	0.2
3....	6.8	2.6	.....	.....	.....	.....	6	195	122	12	0.1	0.2
4....	6.0	3.5	.....	.....	.....	.....	7	372	114	11	0.1	0.2
5....	6.8	3.4	.....	.....	.....	.....	8	264	115	11	0.1	0.2
6....	19	3.2	.....	.....	.....	.....	7	233	112	11	0.1	0.2
7....	12	3.5	.....	.....	.....	.....	6	257	131	9.2	0.1	0.2
8....	6.8	3.4	.....	.....	.....	.....	6	348	130	7.0	0.2	0.2
9....	5.8	3.5	.....	.....	.....	.....	7	416	98	6.1	0.1	0.2
10....	5.5	3.5	.....	.....	.....	.....	8	468	90	5.8	0.1	0.2
11....	5.0	2.7	.....	.....	.....	.....	9	488	79	4.8	1.4	0.1
12....	3.6	2.8	.....	.....	.....	.....	15	604	67	4.4	1.1	0.1
13....	3.1	2.8	.....	.....	.....	.....	14	624	73	3.4	0.5	0.2
14....	2.8	2.5	.....	.....	.....	.....	17	504	69	2.6	0.4	1.4
15....	2.9	2.4	.....	.....	.....	.....	27	334	67	3.8	0.3	9.2
16....	2.2	2.4	.....	.....	.....	.....	29	288	77	3.2	0.6	3.0
17....	2.2	2.6	.....	.....	.....	.....	25	337	86	3.0	1.7	1.8
18....	2.0	3.0	.....	.....	.....	.....	21	354	90	3.0	2.0	1.4
19....	1.7	3.4	.....	.....	.....	.....	18	302	91	1.6	2.1	1.7
20....	1.5	3.4	.....	.....	.....	.....	20	225	93	1.0	1.2	1.8
21....	1.4	2.8	.....	.....	.....	.....	21	248	81	0.8	0.8	1.5
22....	1.3	2.8	.....	.....	.....	.....	20	257	60	0.6	0.8	1.8
23....	1.2	*2.8	.....	.....	.....	.....	25	242	54	0.5	0.6	4.4
24....	1.3	2.8	.....	.....	.....	.....	43	230	78	0.4	0.4	7.4
25....	1.1	2.9	.....	.....	.....	.....	54	211	54	0.3	0.2	7.7
26....	1.6	2.8	.....	.....	.....	.....	74	216	40	0.3	0.2	9.6
27....	2.2	2.6	.....	.....	.....	.....	87	206	34	0.2	0.2	5.8
28....	2.8	2.4	.....	.....	.....	.....	105	172	31	0.2	0.2	6.7
29....	2.8	2.2	.....	.....	.....	.....	101	146	26	0.2	0.2	4.4
30....	2.8	2.1	.....	.....	.....	.....	104	150	21	0.2	0.2	2.8
31....	2.8	.....	.....	.....	.....	.....	.....	140	.....	0.2	0.2	.....
Total	134.5	85.8	.....	.....	.....	.....	899	9065	2436	139.8	16.4	87.4
Mean.	4.34	2.86	.....	.....	.....	.....	30.0	292	81.2	4.51	0.53	2.91
Max...	19	3.5	.....	.....	.....	.....	105	624	131	17	2.1	14
Min....	1.1	2.1	.....	.....	.....	.....	6	107	21	0.2	0.1	0.1
Acre-ft.	267	170	.....	.....	.....	.....	1780	17980	4830	277	33	173

Total run-off for period=25,510 acre-feet.

*Discharge measurement made on this day.

Discharge of Buzzard Creek Near Heiberger, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	4.0	17	9.6	.....	.....	.....	.....	210	356	20	1.6	0
2....	4.2	17	8.0	.....	.....	.....	.....	240	360	17	1.6	0
3....	11	15	7.8	.....	.....	.....	.....	260	307	16	1.4	0
4....	26	16	7.2	.....	.....	.....	.....	300	269	14	1.2	0
5....	17	16	7.0	.....	.....	.....	.....	350	304	14	0.8	0
6....	21	15	7.2	.....	.....	.....	.....	388	304	14	0.6	0
7....	13	12	7.6	.....	.....	.....	.....	440	292	12	0.6	0
8....	12	9.6	8.0	.....	.....	.....	April 10	536	259	11	0.4	0
9....	14	12	8.2	.....	.....	.....	to 30	624	230	11	0.3	0
10....	13	10	8.4	.....	.....	.....	48	698	206	17	0.2	0.1
11....	12	9.6	8.4	.....	.....	.....	70	664	198	13	0.1	0.1
12....	12	9.6	8.2	.....	.....	.....	110	616	203	8.8	0.1	0
13....	77	11	7.7	.....	.....	.....	150	405	158	6.4	0.2	0
14....	83	8.8	7.4	.....	.....	.....	250	335	136	4.6	0.1	0.1
15....	47	10	6.7	.....	.....	.....	260	349	115	6.7	0.3	0.2
16....	35	9.2	6.4	.....	.....	.....	250	384	103	18	0.2	0.1
17....	24	11	.....	.....	.....	.....	270	386	104	17	0.1	0.1
18....	18	10	Dec. 10 to 16	.....	.....	.....	260	412	97	16	0.1	0
19....	16	9.2	.....	.....	.....	.....	230	476	89	14	0	0
20....	15	9.2	.....	.....	.....	.....	210	512	78	8.8	0	0
21....	26	8.8	.....	.....	.....	.....	230	572	64	6.7	0	0
22....	38	11	.....	.....	.....	.....	300	616	53	5.4	0	0
23....	24	9.0	.....	.....	.....	.....	400	652	47	4.2	0.1	0
24....	20	9.0	.....	.....	.....	.....	330	725	42	3.2	0	0
25....	24	10	.....	.....	.....	.....	300	707	36	2.3	0	0
26....	32	10	.....	.....	.....	.....	320	730	32	1.8	0	0
27....	24	11	.....	.....	.....	.....	260	676	27	1.8	0.7	0.1
28....	29	11	.....	.....	.....	.....	230	548	25	4.4	0.5	0.1
29....	30	11	.....	.....	.....	.....	210	528	24	2.6	0.2	0.1
30....	24	9.6	.....	.....	.....	.....	200	426	20	1.8	0.1	0.1
31....	15	.....	.....	.....	.....	.....	.....	370	.....	1.6	0	.....
Total	760.2	337.6	123.8	.....	.....	.....	4888	15129	4538	295.1	11.5	1.1
Mean.	24.5	11.3	7.74	.....	.....	.....	233	488	151	9.52	0.37	0.04
Max...	83	17	9.6	.....	.....	.....	400	730	360	20	1.6	0.2
Min....	4.0	8.8	6.4	.....	.....	.....	48	210	20	1.6	0	0
Acre-ft.	1510	670	246	.....	.....	.....	9700	30010	9000	585	23	2.2

Total run-off for period=51,750 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Buzzard Creek Near Collbran, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	22	4.8	3.4	3.0	2.8	5.1	42	256	200	20	1.8	1.7
2....	10	4.4	3.2	2.7	2.5	5.0	25	310	185	18	1.9	1.5
3....	7.8	4.1	3.9	2.4	2.3	4.5	24	530	180	15	1.7	1.4
4....	7.5	5.3	2.8	2.1	2.3	4.8	24	910	178	13	1.6	1.2
5....	12	5.0	2.8	2.0	2.3	4.5	42	572	180	13	1.0	1.2
6....	27	4.8	2.5	2.2	2.3	4.3	28	450	185	13	0.8	1.5
7....	24	6.5	2.8	2.1	2.3	4.4	21	420	187	13	1.1	1.7
8....	13	7.5	2.5	2.4	2.5	4.5	18	533	210	13	2.8	1.9
9....	10	6.8	2.5	2.5	2.6	4.4	29	668	162	11	1.6	1.6
10....	10	7.2	2.6	2.5	2.8	4.2	50	770	151	10	0.9	1.6
11....	8.3	5.3	2.5	2.5	3.0	4.3	*46	794	142	9.8	1.2	1.2
12....	7.8	4.8	2.3	2.4	2.9	4.0	82	896	115	8.6	0.9	1.1
13....	5.5	4.2	2.1	2.5	2.9	4.2	74	1080	109	7.8	0.9	2.5
14....	4.8	3.9	2.0	2.6	3.0	*4.6	83	1030	107	7.8	0.7	3.4
15....	4.1	3.9	1.9	2.7	3.0	4.1	107	746	103	8.3	1.0	1.7
16....	3.9	4.1	2.0	2.6	3.1	4.0	113	551	109	8.6	3.7	8.3
17....	2.9	4.6	2.3	2.5	3.0	4.5	92	578	110	8.3	7.0	5.3
18....	2.4	4.8	2.6	2.4	3.1	5.4	72	611	110	8.3	13	4.6
19....	2.4	5.3	2.7	2.4	3.2	6.2	57	542	109	8.0	1.1	3.9
20....	2.4	5.3	2.5	2.5	3.0	7.0	56	325	109	8.3	9.8	3.2
21....	2.2	4.8	2.3	2.6	3.1	8.0	50	315	104	8.6	8.3	3.1
22....	2.4	4.1	2.3	2.7	3.2	8.2	48	365	93	7.5	6.5	4.1
23....	2.4	*4.1	2.4	2.6	3.2	7.7	72	340	77	6.2	4.1	6.2
24....	2.6	4.2	2.6	2.4	3.3	7.4	112	342	85	5.0	3.1	1.1
25....	2.5	4.1	2.9	2.5	*3.4	7.2	113	325	89	3.9	2.4	1.1
26....	3.7	4.0	2.8	2.4	3.5	8.0	144	315	58	3.1	1.9	1.1
27....	5.5	3.7	2.7	2.4	4.0	8.6	189	340	44	2.6	2.2	1.0
28....	6.0	3.4	2.8	2.5	4.8	14	271	276	37	1.9	1.9	7.8
29....	5.5	3.2	3.0	*2.6	....	24	285	232	31	2.5	2.1	9.5
30....	5.0	3.2	3.1	2.8	....	24	251	216	25	2.1	2.2	7.8
31....	5.0	....	3.1	2.9	....	25	....	212	....	1.9	2.1	....
Total	227.6	142.0	81.9	77.4	83.4	236.1	2620	15850	3584	268.1	101.2	157.9
Mean	7.34	4.73	2.64	2.50	2.98	7.62	87.3	511	119	8.65	3.26	5.26
Max...	27	7.5	3.9	3.0	4.8	25	285	1080	210	20	13	17
Min...	2.2	3.2	1.9	2.0	2.3	4.0	18	212	25	1.9	0.7	1.1
Acre-ft.	451	282	162	154	163	468	5200	31440	7110	532	201	313

Total run-off for water year=16,480 Acre-feet.

Discharge of Buzzard Creek Near Collbran, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.1	21	15	10	7.6	8.6	18	227	433	51	4.0	0.6
2....	7.9	25	15	10	7.4	9.0	24	308	428	43	4.3	0.8
3....	12	24	14	8.4	7.2	9.4	35	278	388	37	5.5	0.5
4....	22	25	13	7.4	7.6	10	56	338	330	31	4.9	0.8
5....	22	25	12	7.0	7.8	10	84	391	360	25	4.3	1.0
6....	25	22	12	6.8	8.2	10	94	362	375	21	4.0	1.1
7....	24	18	12	7.0	8.0	9.4	100	484	430	17	3.6	1.1
8....	17	13	13	7.4	8.0	9.6	124	615	439	16	3.1	1.0
9....	17	13	13	7.4	7.8	10	193	675	416	16	3.1	0.9
10....	18	16	13	7.2	7.6	11	193	924	280	17	3.0	0.9
11....	16	23	13	7.0	7.2	12	270	990	258	18	2.8	1.7
12....	15	24	12	7.2	7.2	12	340	1010	253	14	2.6	1.5
13....	60	25	12	7.2	7.4	12	386	654	255	12	2.5	1.3
14....	94	26	12	7.2	7.6	11	509	464	233	11	2.4	1.2
15....	51	24	12	7.2	7.6	12	512	447	205	12	2.3	1.2
16....	39	24	12	7.4	7.2	13	447	495	184	16	2.0	1.2
17....	32	20	11	7.6	6.6	13	486	467	178	16	1.9	1.2
18....	28	18	11	7.4	6.4	*13	436	495	180	19	1.7	1.2
19....	25	14	11	7.2	6.4	13	292	601	175	18	1.7	1.3
20....	25	11	11	7.0	6.6	9.0	290	621	160	13	1.5	1.3
21....	26	13	12	7.2	7.0	7.0	402	756	140	11	1.4	1.3
22....	49	14	12	*7.3	7.6	8.2	464	792	132	9.4	1.3	1.4
23....	33	12	11	7.4	7.6	13	711	882	110	8.5	1.2	1.5
24....	28	12	10	7.6	8.0	11	408	994	98	8.2	1.4	1.7
25....	28	14	10	7.8	8.2	13	350	837	87	7.3	1.7	1.7
26....	36	14	10	7.8	8.4	15	383	886	77	6.4	1.3	1.7
27....	29	14	10	7.8	8.4	18	348	938	69	6.4	1.1	1.8
28....	28	14	10	8.0	8.4	14	285	649	63	6.4	1.0	1.8
29....	32	14	11	8.0	....	15	248	624	60	7.0	0.9	1.9
30....	31	15	11	8.2	....	15	236	551	56	5.2	0.9	2.0
31....	24	....	11	7.8	....	14	....	484	....	4.3	0.8	....
Total	900	547	367	235.9	211.0	360.2	8724	19239	6352	503.1	74.2	38.6
Mean	29.0	18.2	11.8	7.61	7.54	11.6	291	621	228	16.2	2.39	1.29
Max...	94	26	15	10	8.4	18	711	1010	439	51	5.5	2.0
Min...	6.1	11	10	6.8	6.4	7.0	18	227	56	4.3	0.8	0.5
Acre-ft.	1790	1080	728	468	419	714	17300	38160	13590	998	147	77

Total run-off for water year=75,470 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Big Creek Below Bonham Reservoir Near Collbran, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....									40	25	28	16
2.....									40	24	28	15
3.....									40	24	31	12
4.....									40	24	31	8.0
5.....									39	24	31	4.3
6.....									39	24	31	3.6
7.....									40	27	31	2.2
8.....									40	22	31	1.5
9.....									40	7.9	31	4.6
10.....									39	0	30	12
11.....									39	0	30	12
12.....									33	0	30	13
13.....									31	13	30	14
14.....									31	22	29	14
15.....								May 17	31	18	28	13
16.....								to 31	31	18	28	11
17.....								45	30	18	28	10
18.....								45	29	26	27	10
19.....								46	29	30	27	12
20.....								46	29	26	26	13
21.....								46	29	27	26	14
22.....								46	29	30	26	14
23.....								42	29	30	25	16
24.....								39	29	30	25	17
25.....								39	29	30	24	17
26.....								39	29	30	23	17
27.....								40	29	31	22	13
28.....								39	28	31	21	8.4
29.....								39	27	31	21	7.7
30.....								39	26	31	20	6.1
31.....								39	...	29	18	...
Totals								629	994	702.9	837	331.4
Mean								41.9	33.1	22.7	27.0	11.0
Max								46	40	31	31	17
Min								39	26	0	18	1.5
Acre-ft.								1250	1970	1390	1660	657

Total run-off for period=6,930 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cottonwood Creek Near Molina, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....							0.3	0.8	12	8.2	11	2.6
2.....							0.3	1.0	13	8.6	10	3.0
3.....							0.7	2.4	9.2	9.6	11	3.5
4.....							0.7	7.5	7.8	10	11	3.5
5.....							0.7	5.1	8.2	11	11	4.4
6.....							0.5	7.2	11	10	11	5.6
7.....							0.5	7.2	32	9.6	9.2	5.6
8.....							0.5	18	31	11	10	5.6
9.....							0.5	31	23	11	11	5.3
10.....							0.3	61	22	11	11	4.4
11.....							0.2	62	17	8.2	11	3.9
12.....							0.2	81	13	7.0	10	4.8
13.....							0.2	132	8.2	7.2	10	9.6
14.....							0.2	134	8.2	7.8	10	8.2
15.....							0.1	87	9.2	9.6	9.6	6.7
16.....							0.1	70	6.4	11	9.6	6.7
17.....							0.2	75	4.6	10	9.2	8.2
18.....							0.2	54	5.9	7.5	8.9	8.9
19.....							0.3	28	6.2	8.6	9.2	7.8
20.....							0.3	20	4.3	8.6	8.9	7.2
21.....							0.3	22	3.4	7.2	8.6	7.8
22.....							0.2	15	3.5	7.8	7.8	12
23.....							0.2	19	4.4	8.9	7.2	11
24.....							0.2	14	8.2	9.6	6.7	6.2
25.....							0.2	13	9.6	10	6.7	3.7
26.....							0.2	13	11	9.6	6.4	2.9
27.....							0.2	13	11	9.2	5.9	2.5
28.....							0.3	13	11	7.5	3.5	1.4
29.....							0.3	14	11	8.9	3.0	1.0
30.....							0.3	8.9	9.2	10	2.9	0.9
31.....							8.9	.....	10	2.8	.....
Total.....							9.4	1038.0	334.5	284.2	264.1	164.9
Mean.....							0.31	33.5	11.2	9.17	8.52	5.50
Max.....							0.7	134	32	11	11	12
Min.....							0.1	0.8	3.4	7.0	2.8	0.9
Acre-ft.....							19	2060	663	564	524	327

Total run-off for period=4,160 acre-feet.

Discharge of Cottonwood Creek Near Molina, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	0.8	2.3					1.9	22	47	4.8	8.6	6.4
2.....	0.7	1.1					1.7	23	35	4.6	9.6	7.8
3.....	2.0	1.0					1.7	21	26	4.4	8.9	5.9
4.....	1.2	0.7					2.5	26	19	5.6	7.8	4.3
5.....	0.9	0.4					2.5	23	17	6.4	5.9	4.3
6.....	1.2	0.4					3.0	25	15	7.0	7.2	4.4
7.....	0.5	1.0					4.8	38	13	7.8	8.9	4.4
8.....	0.4	2.0					4.4	48	15	8.2	9.2	5.3
9.....	0.4	2.0					5.1	61	15	7.0	9.6	7.0
10.....	0.4	1.0					5.9	75	12	7.0	7.8	7.0
11.....	0.4	0.4					7.0	85	12	6.4	8.6	8.6
12.....	0.3	0.7					8.6	68	13	6.7	8.9	6.7
13.....	2.6	0.9					10	53	10	6.2	6.7	5.6
14.....	1.2	0.2					12	48	8.6	7.2	8.2	5.3
15.....	0.5	0.7					16	48	6.2	7.8	8.6	5.6
16.....	2.8	1.7					19	48	5.9	11	7.0	5.6
17.....	2.8	1.1					22	46	6.2	8.9	7.8	5.9
18.....	3.0	1.2					24	44	7.2	8.9	7.5	5.9
19.....	3.4	1.4					20	46	7.5	8.6	6.2	6.4
20.....	3.7	1.5					18	52	7.5	7.8	5.6	6.2
21.....	1.7	1.1					20	68	6.7	7.2	5.6	6.2
22.....	1.1	1.8					23	73	6.2	7.5	5.3	6.2
23.....	4.3	1.7					1.7	36	5.8	5.9	7.2	5.9
24.....	1.2	1.6					1.7	30	5.0	7.0	7.5	5.3
25.....	2.0	1.8					1.7	30	4.6	6.7	8.6	5.3
26.....	1.7	2.0					1.7	25	7.9	7.2	8.2	5.9
27.....	1.4	2.2					2.6	24	9.8	10	8.9	5.9
28.....	1.2	2.5					3.9	23	64	7.5	7.5	6.2
29.....	1.5	2.8					3.5	23	56	6.2	6.7	11
30.....	1.2	3.0					2.9	22	63	5.1	7.5	10
31.....	2.3	.....					2.2	.....	56	.....	7.8	8.2
Total.....	74.0	42.2					21.9	447.1	1611	366.6	226.9	233.2
Mean.....	2.39	1.41					2.43	14.9	52.0	12.2	7.32	7.52
Max.....	17	3.0					3.9	36	98	17	11	8.6
Min.....	0.3	0.2					1.7	1.7	21	5.1	4.1	5.3
Acre-ft.....	147	84					43	887	3200	727	450	463

Total run-off for period=6,300 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Bull Creek Near Molina, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.9	4.7	58	18	15	8.2
2.....	1.9	6.0	54	18	14	8.2
3.....	1.9	6.7	54	18	13	8.2
4.....	1.5	13	50	17	13	8.2
5.....	1.7	10	48	17	13	10
6.....	1.9	13	50	17	13	11
7.....	1.9	16	52	16	14	11
8.....	1.9	18	56	16	14	11
9.....	1.5	25	46	16	16	11
10.....	1.7	31	36	17	15	9.6
11.....	1.9	50	30	16	13	9.9
12.....	2.2	70	24	16	12	11
13.....	1.9	72	24	16	11	11
14.....	1.9	78	24	16	11	9.3
15.....	1.9	76	24	16	11	9.6
16.....	1.9	78	24	16	11	9.3
17.....	2.6	84	26	16	11	9.6
18.....	1.9	95	31	16	11	10
19.....	1.9	92	31	16	11	9.6
20.....	2.8	84	32	15	8.8	9.6
21.....	1.9	82	32	13	8.8	9.3
22.....	1.7	79	33	13	8.8	13
23.....	1.7	79	32	13	8.5	12
24.....	1.9	90	29	13	8.5	10
25.....	1.9	86	29	13	8.5	10
26.....	1.9	84	28	13	8.5	8.5
27.....	2.2	86	25	15	8.5	7.3
28.....	3.1	86	20	15	8.2	6.7
29.....	3.7	81	20	16	8.2	6.9
30.....	4.0	74	18	15	8.2	6.9
31.....	68	.....	13	8.2	.....
Total.....	62.7	1817.4	1040	481	342.3	287.5
Mean.....	2.09	58.6	34.7	15.5	11.0	9.58
Max.....	4.0	95	58	18	16	13
Min.....	1.5	4.7	18	13	8.2	6.7
Acre-ft.....	124	3600	2060	954	679	570

Total run-off for period=7,990 acre-feet.

Discharge of Bull Creek at Goyn Ranch Near Molina, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	72	12	8.8	5.2
2.....	66	13	8.4	5.5
3.....	May 4	60	13	8.1	5.8
4.....	to 31	51	12	8.8	6.0
5.....	23	53	13	10	6.0
6.....	24	53	15	9.2	6.0
7.....	25	51	16	11	6.7
8.....	32	46	15	12	7.0
9.....	38	44	14	9.5	10
10.....	42	41	14	10	14
11.....	50	44	13	9.5	13
12.....	50	53	13	10	14
13.....	41	44	12	9.2	16
14.....	38	40	11	8.4	14
15.....	37	34	11	8.8	14
16.....	37	35	12	8.1	10
17.....	38	39	17	8.1	7.4
18.....	38	37	18	8.1	6.7
19.....	43	36	18	7.0	7.0
20.....	50	33	15	7.8	7.4
21.....	65	29	14	5.0	7.4
22.....	81	25	13	3.5	11
23.....	91	24	16	3.2	10
24.....	89	21	11	4.0	10
25.....	91	18	11	4.5	4.5
26.....	130	18	13	4.0	4.0
27.....	107	17	11	2.8	3.8
28.....	107	16	10	2.9	3.5
29.....	96	14	10	2.9	2.9
30.....	81	14	9.5	4.0	1.4
31.....	76	.....	9.5	5.5	.....
Total.....	1644	1128	405.0	223.1	240.2
Mean.....	58.7	37.6	13.1	7.20	8.01
Max.....	130	72	18	12	16
Min.....	23	14	9.5	2.8	1.4
Acre-ft.....	3260	2240	803	443	476

Total run-off for period=7,220 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Coon Creek Near Mesa, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....							1.3	3.6	17	6.5	7.4	3.1
2.....							1.2	4.1	16	6.1	7.4	2.8
3.....							1.2	5.2	15	6.1	7.0	3.0
4.....							1.2	10	14	5.7	7.0	2.7
5.....							1.2	7.6	14	5.4	6.7	2.8
6.....							1.2	8.6	14	5.2	6.5	2.8
7.....							1.1	9.6	21	4.8	6.5	3.3
8.....							0.8	13	16	4.6	6.5	3.8
9.....							1.2	16	14	4.6	6.2	3.3
10.....							1.3	20	14	4.6	6.5	3.4
11.....							1.4	23	13	5.9	5.9	4.1
12.....							1.6	26	12	5.9	4.2	4.4
13.....							1.5	31	12	5.4	3.6	7.4
14.....							1.3	29	11	5.2	3.3	5.4
15.....							1.3	25	11	5.4	4.6	4.1
16.....							1.3	23	10	6.1	4.6	2.0
17.....							1.3	26	9.8	6.1	4.6	1.3
18.....							1.1	28	9.1	6.3	4.2	3.6
19.....							0.8	22	8.3	6.7	3.3	2.8
20.....							0.9	17	8.6	7.0	2.6	2.0
21.....							1.3	20	9.3	8.1	2.2	1.8
22.....							1.1	21	10	5.9	2.2	5.9
23.....							1.1	26	9.8	9.6	1.9	2.8
24.....							1.3	23	9.8	9.1	1.9	1.9
25.....							1.4	24	9.3	9.1	1.5	2.0
26.....							1.7	26	8.8	9.1	1.4	3.3
27.....							1.8	25	8.3	8.3	1.6	2.6
28.....							3.6	22	7.6	8.1	2.4	2.5
29.....							3.6	20	6.7	8.1	3.0	2.5
30.....							3.1	19	6.5	7.9	3.1	2.5
31.....							3.0	18	6.2	7.9	4.6	3.0
Total.....							44.2	591.7	345.9	204.8	134.5	95.9
Mean.....							1.47	19.1	11.5	6.61	4.34	3.20
Max.....							3.6	31	21	9.6	7.4	7.4
Min.....							0.8	3.6	6.5	4.6	1.4	1.3
Acre-ft.....							88	1170	686	406	267	190

Total run-off for period=2,810 acre-feet.

Discharge of Coon Creek Near Mesa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.4	3.4	1.9	1.6	1.7	1.6	1.5	12	45	6.3	4.1	6.3
2.....	2.6	3.3	2.0	1.6	1.7	1.6	1.8	11	44	6.8	5.2	7.0
3.....	5.4	3.1	1.5	1.6	1.7	1.6	2.2	13	34	6.5	4.1	7.5
4.....	3.6	3.1	1.5	1.6	1.7	1.6	3.6	14	31	6.5	4.2	6.8
5.....	2.8	3.0	1.5	1.6	1.7	1.6	5.1	13	29	6.1	5.7	6.8
6.....	2.5	2.7	1.5	1.6	1.7	1.6	3.1	11	28	6.1	4.2	7.0
7.....	2.2	2.2	1.5	1.6	1.7	1.6	3.0	17	25	6.1	3.4	6.8
8.....	2.2	2.1	1.5	1.6	1.7	1.6	3.3	18	20	5.9	2.6	4.8
9.....	2.1	3.1	1.5	1.6	1.7	1.6	3.9	21	19	5.7	3.8	4.2
10.....	2.0	2.1	1.5	1.6	1.7	1.6	5.0	26	21	5.4	4.1	5.4
11.....	2.0	2.5	1.5	1.6	1.7	1.6	6.8	28	18	5.0	4.6	7.0
12.....	2.6	2.4	1.5	1.6	*1.7	1.6	7.5	28	16	4.8	5.4	6.1
13.....	5.7	2.1	1.5	1.6	1.7	1.6	8.5	23	14	4.6	4.6	4.2
14.....	4.6	1.9	1.5	1.6	1.7	1.6	9.6	19	14	5.7	5.2	2.6
15.....	3.9	2.2	1.5	1.6	1.7	1.6	9.3	19	12	5.2	5.7	2.6
16.....	3.4	2.1	1.5	1.6	1.7	1.6	9.3	20	11	7.0	5.9	2.2
17.....	3.0	1.9	1.5	1.6	1.7	1.6	10	22	12	9.3	6.3	3.8
18.....	2.7	1.6	1.5	1.6	1.7	1.6	8.8	23	13	9.0	6.5	2.5
19.....	2.7	2.2	1.5	1.6	1.7	1.6	6.8	25	12	6.3	7.8	3.0
20.....	2.7	2.0	1.5	1.6	1.7	1.6	6.3	28	15	5.4	8.2	3.0
21.....	6.5	1.6	1.5	*1.6	1.7	1.6	6.8	34	14	5.4	8.5	3.4
22.....	5.0	1.9	1.5	1.6	1.7	1.3	9.9	40	14	4.8	8.2	3.3
23.....	4.4	1.9	1.5	1.6	1.7	1.3	17	44	13	4.8	8.2	3.1
24.....	4.2	1.9	1.5	1.6	1.7	1.4	15	50	11	4.8	8.5	3.0
25.....	4.4	2.0	1.5	1.6	1.7	1.2	16	50	10	4.8	7.5	2.5
26.....	4.1	1.9	1.5	1.6	1.7	1.2	13	58	9.0	4.8	6.8	2.0
27.....	3.9	2.0	1.5	1.6	1.7	1.2	13	58	8.5	4.8	7.5	1.9
28.....	3.8	2.0	1.5	1.6	1.7	1.2	12	58	7.5	4.8	6.8	1.2
29.....	3.8	2.1	1.5	1.6	.....	1.2	11	56	7.0	4.6	6.5	1.6
30.....	3.6	2.0	1.5	1.6	.....	1.2	11	50	6.8	4.4	6.8	0.9
31.....	2.5	.....	1.5	1.6	.....	1.2	.....	44	.....	4.2	6.8	.....
Total.....	107.3	68.3	47.4	49.6	47.6	46.0	240.1	936	533.8	175.9	184.0	122.2
Mean.....	3.46	2.28	1.53	1.6	1.7	1.48	8.00	30.2	17.8	5.67	5.94	4.07
Max.....	6.5	3.4	.....	.....	.....	.....	17	58	45	9.3	8.5	7.5
Min.....	2.0	1.6	.....	.....	.....	.....	1.5	11	6.8	4.2	2.6	0.9
Acre-ft.....	213	135	94	98	94	91	476	1860	1060	349	365	242

Total run-off for water year=5,080 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mesa Creek Near Mesa, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....							2.0	7.1	37	37	30	21
2.....							1.7	8.2	36	36	30	20
3.....							1.4	10	39	35	30	21
4.....							1.2	14	39	35	28	20
5.....							3.7	16	44	35	28	22
6.....							6.3	17	50	35	28	20
7.....							6.0	17	58	34	28	17
8.....							5.3	24	32	32	27	16
9.....							5.3	27	48	31	27	17
10.....							5.3	35	48	31	26	19
11.....							5.6	44	44	36	25	19
12.....							6.6	76	40	32	23	21
13.....							5.3	94	40	32	24	23
14.....							5.3	56	39	32	22	23
15.....							5.3	36	39	32	20	23
16.....							5.3	40	37	35	22	23
17.....							5.3	46	36	36	24	22
18.....							5.3	48	35	39	23	22
19.....							11	42	36	40	21	21
20.....							6.0	32	37	40	21	18
21.....							5.3	34	39	40	20	17
22.....							5.3	34	40	35	19	21
23.....							5.3	40	42	35	17	21
24.....							5.3	42	40	35	17	19
25.....							5.3	46	37	35	17	19
26.....							6.0	71	39	35	19	19
27.....							6.0	65	39	35	19	18
28.....							7.1	52	37	32	19	18
29.....							6.3	42	37	31	22	17
30.....							6.6	44	37	31	22	17
31.....								37		31	20	
Total.....							157.7	1196.3	1201	1070	718	594
Mean.....							5.26	38.6	40.0	34.5	23.2	19.8
Max.....							11	94	58	40	30	23
Min.....							1.2	7.1	32	31	17	16
Acre-ft.....							313	2370	2380	2120	1420	1180

Total run-off for period=9,780 acre-feet.

Discharge of Mesa Creek Near Mesa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	17	11	9.6	10	10	11	9.8	12	46	32	30	22
2.....	20	11	9.6	10	10	11	9.8	12	39	28	31	22
3.....	24	11	9.6	10	10	11	10	12	32	27	30	22
4.....	25	11	9.6	10	10	11	10	13	32	26	30	24
5.....	22	9.8	9.6	10	10	11	10	13	34	26	30	24
6.....	22	9.8	9.6	10	10	11	9.8	14	32	25	30	22
7.....	20	9.8	9.6	10	10	11	9.8	17	30	25	30	22
8.....	18	11	9.6	10	10	11	9.8	17	32	25	30	24
9.....	18	9.8	9.6	10	10	11	10	22	37	24	30	23
10.....	18	9.8	9.6	10	10	11	10	22	42	25	27	22
11.....	18	9.8	9.6	10	10	11	11	23	46	25	28	22
12.....	18	9.8	9.6	10	10	11	14	23	46	24	28	22
13.....	25	9.8	9.6	10	10	11	14	22	44	24	26	21
14.....	24	9.8	9.6	10	10	11	16	20	44	26	25	20
15.....	22	10	9.6	10	10	11	16	21	46	26	24	20
16.....	22	10	9.6	10	10	11	16	21	44	27	23	19
17.....	20	11	9.6	10	10	11	17	21	46	34	20	20
18.....	19	11	9.6	10	10	11	16	25	40	28	18	22
19.....	18	10	9.6	10	10	11	14	27	37	27	18	22
20.....	18	9.6	9.6	10	10	11	13	37	40	26	20	21
21.....	22	9.4	9.6	*10	10	11	16	48	36	26	22	18
22.....	23	9.4	9.6	10	10	11	20	63	34	26	23	19
23.....	22	9.4	9.6	10	10	11	22	74	34	25	23	22
24.....	22	9.6	9.6	10	10	9.8	21	74	32	23	23	22
25.....	22	9.8	9.6	10	10	9.8	17	65	31	24	22	21
26.....	22	10	9.6	10	10	9.8	14	84	31	23	22	20
27.....	20	10	9.6	10	10	13	14	74	31	22	22	18
28.....	19	10	9.6	10	10	9.8	14	60	31	25	22	17
29.....	14	10	9.6	10	.....	9.8	14	52	30	25	22	14
30.....	13	10	9.6	10	.....	9.8	13	46	32	27	22	14
31.....	12	.....	9.6	10	.....	9.8	.....	46	.....	28	22	.....
Total.....	619	302.4	297.6	310	280	334.6	411.0	1080	1111	804	773	621
Mean.....	20.0	10.1	9.6	10	10	10.8	13.7	34.8	37.0	25.9	24.9	20.7
Max.....	25	11	.....	.....	.....	.....	22	84	46	34	31	24
Min.....	12	9.4	.....	.....	.....	.....	9.8	12	30	22	18	14
Acre-ft.....	1230	600	590	615	555	664	815	2140	2200	1590	1530	1230

Total run-off for water year=13,760 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Taylor River Below Taylor Park Reservoir, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	63	10	10	11	11	12	13	14	44	23	124	615
2.....	63	10	10	11	11	12	13	14	38	49	159	600
3.....	63	10	10	11	11	12	13	14	26	70	241	575
4.....	55	10	10	11	11	12	13	14	26	70	294	650
5.....	52	10	10	11	11	12	13	14	26	69	329	704
6.....	52	10	10	11	11	12	13	14	26	67	385	698
7.....	52	10	10	11	11	12	13	14	26	54	405	635
8.....	40	10	10	11	11	12	13	14	22	67	368	650
9.....	37	10	10	11	11	12	13	14	32	172	343	748
10.....	31	10	10	11	11	12	13	14	30	229	340	748
11.....	22	10	10	11	11	12	13	16	20	250	340	754
12.....	20	10	10	11	11	12	13	16	21	262	322	754
13.....	20	10	10	11	11	12	13	18	23	265	280	754
14.....	20	10	10	11	11	12	13	18	27	262	287	754
15.....	20	10	10	11	11	12	13	20	30	247	287	698
16.....	51	10	10	11	11	12	13	20	32	232	280	580
17.....	8.6	10	10	11	11	12	13	22	32	226	280	565
18.....	8.6	10	10	11	11	12	13	24	27	213	280	457
19.....	8.6	10	10	11	11	12	13	26	24	210	277	409
20.....	8.6	10	10	11	11	12	13	28	22	232	277	371
21.....	8.6	10	10	11	11	12	14	30	20	229	277	354
22.....	8.6	10	10	11	11	12	14	35	16	208	277	287
23.....	8.6	10	10	11	11	12	14	35	21	194	274	250
24.....	9.3	10	10	11	11	12	14	35	22	186	274	189
25.....	9.3	10	10	11	11	12	14	35	22	198	277	163
26.....	9.3	10	10	11	11	12	14	35	25	182	336	157
27.....	9.3	10	10	11	11	12	14	35	24	172	445	154
28.....	9.3	10	10	11	11	12	14	35	24	161	501	152
29.....	9.3	10	10	11	.....	12	14	35	23	146	560	150
30.....	9.3	10	10	11	.....	12	14	44	23	139	595	152
31.....	9.3	.....	10	11	.....	12	.....	44	.....	130	610	.....
Total	795.6	300	310	341	308	372	400	746	774	5214	10324	14727
Mean.	25.7	10	10	11	11	12	13.3	24.1	25.8	168	333	491
Max..	63	10	10	11	11	12	14	44	44	265	610	754
Min..	8.6	10	10	11	11	12	13	14	16	23	124	150
Acre-ft.	1580	595	615	676	611	738	793	1480	1540	10340	20480	29210

Total run-off for water year=68,660 acre-feet.

Discharge of Taylor River Below Taylor Park Reservoir, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	115	129	50	35	35	35	35	92	139	580	223	645
2.....	98	129	50	35	35	35	35	150	220	556	218	645
3.....	105	129	50	35	35	35	35	200	580	543	220	675
4.....	105	129	50	35	35	35	35	200	855	530	212	710
5.....	105	129	50	35	35	35	35	200	870	512	195	715
6.....	105	129	50	35	35	35	35	35	930	512	143	705
7.....	105	129	50	35	35	35	35	0	1040	494	162	705
8.....	107	129	50	35	35	35	35	0	1080	484	202	705
9.....	109	129	50	35	35	35	35	0	1040	466	229	700
10.....	105	123	50	35	35	35	35	0	980	466	326	705
11.....	115	107	42	35	35	35	35	0	1050	466	462	730
12.....	131	148	25	35	35	35	35	0	1170	444	462	675
13.....	131	51	25	35	35	35	35	0	1140	412	462	534
14.....	129	51	25	35	35	35	35	0	1030	366	462	498
15.....	129	50	42	35	35	35	35	0	930	346	462	498
16.....	129	50	75	35	35	35	45	0	900	354	466	494
17.....	129	50	75	35	35	35	75	0	1020	366	471	489
18.....	127	50	75	35	35	35	75	0	1120	366	575	489
19.....	127	50	62	35	35	35	75	0	1180	354	585	471
20.....	127	50	50	35	35	35	75	0	1160	322	595	440
21.....	127	50	50	35	35	35	75	0	1080	287	595	440
22.....	129	50	50	35	35	35	75	0	1010	265	600	440
23.....	129	50	50	35	35	35	75	29	950	241	600	435
24.....	129	50	50	35	35	35	75	49	910	226	570	430
25.....	129	50	50	35	35	35	75	49	865	215	552	394
26.....	129	50	50	35	35	35	75	74	815	205	507	382
27.....	129	50	50	35	35	35	75	138	765	210	480	301
28.....	129	50	50	35	35	35	86	365	675	244	484	259
29.....	129	50	42	35	.....	35	92	165	605	238	595	259
30.....	129	50	25	35	.....	35	93	165	585	294	650	259
31.....	129	.....	25	35	.....	35	.....	165	.....	250	650	.....
Total	3750	2441	1488	1085	980	1085	1666	2076	26694	11614	13415	15827
Mean.	121	81.4	48	35	35	35	55.5	67	890	375	433	528
Max..	131	148	75	35	35	35	93	365	1180	580	650	730
Min..	98	50	25	35	35	35	35	0	139	205	143	259
Acre-ft.	7440	4840	2950	2150	1940	2150	3300	4120	52950	23040	26610	31390

Total run-off for water year=162,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Taylor River at Almont, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	137	50	50	44	10	65	50	115	451	216	204	640
2.....	130	52	47	42	39	38	15	115	440	216	212	619
3.....	124	54	45	40	36	27	43	151	428	240	295	598
4.....	118	54	46	40	34	28	45	172	445	240	340	672
5.....	118	41	45	41	33	33	47	144	457	236	379	720
6.....	137	54	44	42	33	28	47	162	451	232	440	696
7.....	124	58	45	41	35	28	45	179	457	228	531	640
8.....	118	58	43	40	36	47	45	244	457	220	518	619
9.....	100	61	43	40	37	58	47	310	401	320	475	736
10.....	98	58	45	38	39	34	50	335	357	384	557	728
11.....	86	47	45	40	40	45	49	357	315	401	481	728
12.....	81	47	44	42	40	40	52	390	305	418	457	736
13.....	76	46	43	43	40	54	58	445	310	428	384	736
14.....	76	48	42	44	40	33	56	434	310	418	374	736
15.....	74	52	41	43	40	32	58	396	330	401	384	704
16.....	78	58	42	41	32	32	56	357	357	384	379	612
17.....	72	64	43	42	38	32	58	384	384	379	362	564
18.....	47	*67	45	41	28	30	56	428	406	357	357	499
19.....	47	63	46	40	27	32	54	412	440	357	352	418
20.....	47	54	47	40	30	32	47	340	418	384	352	396
21.....	47	58	46	42	27	32	52	330	390	379	346	362
22.....	47	56	44	*44	26	36	56	330	346	357	340	330
23.....	47	56	43	43	28	40	54	330	346	335	335	262
24.....	47	55	41	41	26	41	54	384	357	305	335	236
25.....	47	52	45	40	26	41	58	401	340	310	330	168
26.....	49	50	44	39	28	40	58	440	315	295	368	168
27.....	52	49	43	37	43	45	67	475	295	280	457	165
28.....	50	50	42	36	*65	45	78	445	285	267	531	162
29.....	49	51	44	38	....	47	88	423	258	244	570	162
30.....	50	50	45	40	....	45	100	434	236	232	619	165
31.....	47	....	45	40	....	47	....	451	....	220	640	....
Total	2420	1613	1376	1264	986	1207	1673	10313	11087	9683	12704	14977
Mean..	78.1	53.8	44.4	40.8	35.2	38.9	55.8	333	370	312	410	499
Max...	137	67	50	44	65	65	100	475	457	428	640	736
Min...	47	41	41	36	26	27	43	115	236	216	204	162
Acrc-ft.	4800	3200	2730	2510	1960	2390	3320	20460	21990	19210	25200	29710

Total run-off for water year=137,500 acre-feet.

Discharge of Taylor River at Almont, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	149	202	105	78	70	56	72	202	793	832	349	723
2.....	130	202	105	78	72	52	80	228	840	816	354	702
3.....	149	202	105	78	72	54	88	310	1200	779	388	716
4.....	152	199	105	76	74	52	96	366	1510	758	349	744
5.....	149	199	105	72	74	52	105	398	1460	744	322	744
6.....	146	196	100	66	72	54	118	421	1530	730	264	751
7.....	140	192	100	74	72	52	126	349	1640	716	260	751
8.....	140	189	105	82	70	52	126	300	1700	695	300	744
9.....	146	196	105	84	*70	*52	142	327	1620	688	327	744
10.....	146	192	105	82	68	52	152	366	1540	695	404	744
11.....	149	170	105	82	68	52	155	404	1610	647	547	772
12.....	173	258	100	82	70	52	161	371	1760	602	583	730
13.....	217	128	100	*80	70	54	192	269	1720	571	583	634
14.....	229	130	98	78	70	54	228	248	1580	559	583	559
15.....	213	125	94	76	68	52	260	248	1430	547	583	559
16.....	210	125	92	76	66	54	240	260	1390	541	583	559
17.....	206	125	90	76	64	52	305	269	1540	577	583	559
18.....	202	130	88	76	62	54	248	248	1610	553	660	559
19.....	202	110	84	76	64	56	220	278	1630	535	688	559
20.....	206	90	88	74	64	52	228	300	1610	493	688	505
21.....	210	90	90	74	66	50	252	354	1500	445	688	505
22.....	213	88	92	72	66	52	287	388	1420	404	695	511
23.....	210	86	90	72	64	56	349	427	1340	376	709	523
24.....	210	80	90	72	62	58	278	511	1270	360	695	511
25.....	221	96	90	76	62	56	236	583	1200	344	660	493
26.....	217	110	84	78	60	56	210	709	1140	327	628	463
27.....	210	110	82	76	60	54	213	832	1060	327	583	457
28.....	210	110	80	72	58	54	210	912	960	376	577	457
29.....	210	105	80	74	....	56	206	1140	872	371	654	427
30.....	206	110	82	74	....	60	206	793	840	415	716	327
31.....	199	....	80	66	....	66	....	772	....	376	716	....
Total	5770	4345	2919	2352	1878	1678	5799	13583	41315	17199	16719	18032
Mean..	186	145	94.2	75.9	67.1	54.1	193	438	1377	555	539	601
Max...	229	258	105	84	74	66	349	1140	1760	832	716	772
Min...	130	80	80	66	58	50	72	202	793	327	260	327
Ac-ft.	11440	8620	5790	4670	3720	3330	11500	26940	81950	34110	33160	35770

Total run-off for water year=261,000 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Gunnison River at Iola, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	235	*245	220	210	240	230	543	1290	2580	1680	692	900
2....	245	250	215	200	220	250	507	1270	2540	1500	660	888
3....	250	250	210	190	210	260	472	1480	2640	1420	692	828
4....	245	260	210	190	205	250	464	1710	2670	1400	725	852
5....	245	245	210	200	210	260	498	1620	2790	1400	758	900
6....	265	250	*206	220	220	255	543	1600	2770	1420	876	888
7....	265	260	205	230	220	250	480	1440	2850	1380	1050	840
8....	260	270	210	220	225	245	472	1670	2990	1420	1080	758
9....	260	270	210	205	225	240	472	2070	2770	1420	1080	876
10....	260	276	205	200	220	240	525	2470	2400	1440	1230	876
11....	250	260	195	210	220	240	525	2850	2130	1380	1150	828
12....	235	265	190	230	220	245	534	3270	1940	1370	1070	816
13....	230	230	195	235	*227	*251	620	4000	1830	1370	960	804
14....	225	200	180	250	230	265	590	4620	1760	1380	888	852
15....	225	215	170	240	235	275	534	4300	1830	1270	912	864
16....	225	225	170	230	240	270	516	3570	1970	1180	936	780
17....	235	230	185	235	240	270	507	3530	2200	1120	912	670
18....	225	235	200	240	240	275	489	3790	2640	1050	900	650
19....	225	235	195	230	240	290	456	3640	3030	1050	840	552
20....	225	230	210	225	250	295	432	2970	3110	1240	852	534
21....	225	230	190	*234	250	300	*408	2520	3110	1200	828	480
22....	225	230	185	240	250	310	440	2430	3030	1100	792	480
23....	225	230	200	250	250	320	440	2360	3050	1100	736	507
24....	220	225	205	255	250	320	472	2540	3190	1060	703	464
25....	220	225	225	250	260	318	561	2810	3070	1020	692	393
26....	225	225	215	240	240	318	630	3110	2830	936	681	356
27....	230	220	205	245	225	351	725	3290	2600	912	747	372
28....	240	220	210	255	225	379	888	2990	2250	864	816	379
29....	240	220	220	265	....	408	888	2690	2000	816	852	432
30....	245	220	230	270	....	448	1060	2560	1840	758	900	472
31....	250	....	235	260	....	472	....	2580	....	714	924	....
Total	7375	7146	6311	7154	6487	9100	16691	83040	76410	37370	26934	20321
Mean...	238	238	204	231	232	294	556	2679	2547	1205	869	677
Max....	265	276	235	270	260	472	1060	4620	3190	1680	1230	900
Min....	220	200	170	190	205	230	408	1270	1760	714	660	372
Ac.-ft.	14630	14170	12520	14190	12870	18050	33110	164700	151600	74120	53420	40310

Total run-off for water year=603,700 acre-feet.

Discharge of Gunnison River at Iola, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	468	620	458	280	240	230	350	1140	4060	1990	844	884
2....	414	641	430	280	250	220	430	1220	4100	1920	831	870
3....	478	641	420	280	250	230	520	1330	4490	1800	926	844
4....	556	663	430	250	250	220	700	1390	5110	1740	870	870
5....	578	663	420	230	250	220	820	1600	4930	1700	779	884
6....	546	641	400	200	*245	230	820	1680	4850	1670	766	926
7....	506	620	410	220	240	220	810	1820	5130	1620	718	926
8....	487	546	420	250	240	220	900	2020	5350	1620	729	884
9....	487	556	400	260	230	220	1010	2280	5270	1650	707	857
10....	478	578	410	260	220	230	1570	2570	4910	1670	718	844
11....	468	536	400	250	230	*230	1820	2910	5050	1520	818	870
12....	478	546	390	250	240	230	1870	3090	5270	1390	968	870
13....	567	620	400	250	240	230	2060	2700	5150	1280	1140	753
14....	805	516	390	250	230	230	2230	2380	4790	1170	1010	630
15....	740	487	380	250	230	230	2590	2180	4390	1170	940	609
16....	685	487	370	*247	220	240	2400	2040	4140	1230	912	588
17....	652	487	370	210	210	230	2360	2010	4370	1510	870	567
18....	641	506	360	240	210	240	2160	1900	4630	1410	912	556
19....	641	449	350	240	220	240	1550	2080	4730	1330	968	516
20....	663	382	360	240	230	230	1440	2180	4570	1170	968	496
21....	674	358	370	240	240	220	1590	2430	4240	1040	968	487
22....	729	350	370	240	240	230	1900	2810	3930	954	968	496
23....	707	344	350	240	240	240	2570	3150	3630	857	982	496
24....	696	332	350	250	230	250	2360	3530	3440	792	1040	496
25....	779	414	350	250	240	240	1920	3950	3200	766	1030	496
26....	857	449	310	250	230	230	1620	4470	2950	729	954	458
27....	753	458	300	240	230	230	1440	4870	2730	718	844	458
28....	707	449	290	250	230	240	1310	4730	2500	792	792	468
29....	707	440	300	240	....	250	1170	4910	2260	844	831	449
30....	674	458	290	240	....	260	1220	4310	2080	831	898	390
31....	652	....	290	230	....	300	....	4160	....	857	884	....
Total	19273	15237	11558	7637	6555	7260	45510	83840	126250	39740	27585	19938
Mean...	622	508	373	246	234	234	1517	2705	4288	1282	890	665
Max....	857	663	458	280	250	300	2590	4910	5350	1990	1140	926
Min....	414	332	290	200	210	220	350	1140	2080	718	707	350
Ac.-ft.	38230	30220	22920	15150	13000	14400	90270	166300	250400	78820	54710	39550

Total run-off for water year=814,000 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Gunnison River Near Grand Junction, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3590	1100	1020	980	868	810	1580	7440	9280	5650	1100	874
2.....	1910	1080	996	928	854	840	1850	7330	9210	5150	976	874
3.....	1580	1030	975	782	790	934	1670	8370	9210	4610	896	846
4.....	1460	1080	946	648	725	954	1530	1400	9500	4420	822	768
5.....	1820	1080	896	589	707	886	1470	14200	9590	4400	776	652
6.....	2730	947	869	644	720	891	1600	12400	9880	4210	778	577
7.....	1930	1010	888	839	752	872	1560	12000	10600	3990	1130	606
8.....	1680	1040	895	884	806	845	1370	12300	12000	3890	1990	670
9.....	1620	1050	885	922	811	815	1180	14800	11600	3810	2210	798
10.....	1550	1080	861	929	819	819	1240	17600	10400	3860	3090	843
11.....	1530	1140	938	897	827	790	1570	19400	9530	3740	3070	838
12.....	1480	1040	1060	840	917	798	1610	20800	8240	3710	2840	887
13.....	1380	924	983	849	1050	819	1790	23200	7340	3560	2500	931
14.....	1300	831	895	836	988	891	2050	26200	7070	3510	2170	1140
15.....	1250	748	782	849	936	970	1690	24400	7190	3210	1830	1360
16.....	1210	870	699	868	921	993	1640	19700	7640	2920	2150	1340
17.....	1170	991	622	832	931	892	1580	16500	8210	2740	2390	1290
18.....	1160	1120	716	790	939	876	1530	16900	9070	2450	2360	1240
19.....	1160	1260	886	819	988	892	1440	17200	10600	2640	2110	1420
20.....	1110	1260	954	865	1090	980	1430	14600	11300	2610	1890	1410
21.....	1090	1210	916	840	1020	991	1250	11100	11100	2890	1710	1320
22.....	1030	1180	782	845	1010	1220	1150	10400	10800	2530	1550	2730
23.....	996	1110	791	848	1030	1190	1150	10500	10800	2210	1330	2960
24.....	942	1100	808	819	1010	1520	1370	10700	11300	2040	1140	2500
25.....	1000	1090	943	810	1060	1530	1850	11100	11000	2010	941	2300
26.....	986	1050	1100	814	1070	1320	2460	12200	10100	2000	846	2150
27.....	1040	1030	1010	775	972	1220	3530	13100	9360	1870	734	1970
28.....	1170	957	913	760	863	1180	5200	13000	8360	1840	620	1810
29.....	1100	909	888	764	.....	1310	6410	11100	7410	1640	586	1750
30.....	1100	1010	928	819	.....	1420	6350	10200	6270	1400	620	1980
31.....	1090	.....	970	858	.....	1470	.....	9580	.....	1250	846	.....
Total	44174	31327	27815	25542	25474	31938	62100	439120	283960	96760	48001	40834
Mean...	1425	1044	897	824	910	1030	2070	14170	9465	3121	1548	1361
Max...	3590	1260	1100	980	1090	1530	6410	26200	12000	5650	3090	2960
Min...	942	748	622	589	707	790	1150	7330	6270	1250	586	577
Ac.-ft.	87620	62140	55170	50660	50530	63350	123200	871000	563200	191900	95210	80990

Total run-off for water year—2,295,000 acre-feet.

Discharge of Gunnison River Near Grand Junction, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2100	2790	1640	1260	1410	1260	1400	8790	13600	4350	1140	702
2.....	2020	2680	1660	1030	1260	1240	1730	8630	13200	4430	1210	698
3.....	3200	2750	1600	946	1150	1300	2280	8890	13100	4250	1310	669
4.....	2950	2630	1610	1000	1220	1320	3060	8950	13000	4090	1510	667
5.....	3800	2600	1650	851	1220	1360	4220	9310	13100	4060	1510	684
6.....	2990	2550	1490	788	1200	1400	5930	9760	13400	3960	1340	757
7.....	3260	2450	1340	980	1150	1280	5250	10100	14400	3980	1240	844
8.....	2570	2330	1280	1060	1180	1220	4500	10700	15900	3910	1160	916
9.....	2420	2180	1320	1100	1170	1280	4600	12100	16200	3800	1090	901
10.....	2350	2170	1380	1080	1040	1320	5300	14000	14800	3750	1040	871
11.....	2180	2140	1430	1060	1060	1400	5220	16400	14000	3390	996	941
12.....	2240	2080	1520	1040	913	1440	8090	17100	14900	3110	1020	1180
13.....	2700	2060	1510	1040	1000	1480	10300	14500	15100	2880	1390	1240
14.....	5330	2220	1450	1080	1020	1460	11900	10800	13800	2650	1650	1280
15.....	4630	2060	1410	1110	1120	1260	13900	8920	12600	2470	1500	1210
16.....	3850	2000	1350	1160	1040	1100	14900	8160	10400	2420	1330	1110
17.....	3400	1990	1280	1140	1090	1050	14400	8050	10500	2410	1210	1080
18.....	3150	2060	1300	1140	920	1000	14100	7970	11800	2690	1070	984
19.....	2970	2080	1340	1120	880	1060	12700	7980	12300	2940	976	918
20.....	2940	2000	1260	1110	800	1170	11000	8560	12600	2710	932	916
21.....	3680	1790	1240	1160	900	1080	10800	9760	11600	2330	942	934
22.....	3720	1560	1310	1180	1180	992	11400	12000	10500	2000	899	959
23.....	3400	1430	1280	1200	1260	1030	14100	13800	9650	1740	869	951
24.....	3160	1300	1220	1200	1200	1290	16100	16200	8740	1520	879	962
25.....	3490	1440	1120	1360	1320	1460	14200	17400	8070	1390	964	968
26.....	4350	1460	1220	1410	1240	1310	12800	18300	7240	1280	1040	962
27.....	3760	1560	1200	1440	1240	1190	11600	20600	6480	1210	954	968
28.....	3290	1480	1170	1410	1320	1070	10700	20300	5990	1130	850	944
29.....	3470	1700	1180	1390	.....	1060	9850	16300	5170	1080	746	886
30.....	3200	1640	1190	1390	.....	1120	9190	14200	4670	1170	695	884
31.....	3010	.....	1250	1400	.....	1260	.....	14400	.....	1210	630	.....
Total	99680	61180	42200	35645	31413	38262	275520	382930	346810	84310	34092	27986
Mean...	3215	2039	1361	1150	1122	1234	9184	12350	11560	2720	1100	933
Max...	5330	2790	1660	1440	1410	1480	16100	20600	16200	4430	1650	1280
Min...	2020	1300	1120	788	800	992	1400	7970	4670	1080	630	667
Ac.-ft.	197700	121300	83700	70700	62310	75890	546500	759500	687900	167200	67620	55510

Total run-off for water year—2,896,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East River Near Crested Butte, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....								205	518	385	75	54
2.....								250	523	354	76	52
3.....								245	575	358	75	46
4.....								250	691	367	75	46
5.....								300	587	385	75	47
6.....								335	534	385	75	45
7.....								360	575	320	75	51
8.....								380	523	280	75	56
9.....								425	410	296	75	53
10.....								480	344	276	75	50
11.....								560	316	276	75	47
12.....								700	288	276	75	47
13.....								789	300	219	75	52
14.....								817	316	207	75	76
15.....								712	349	312	75	67
16.....								677	490	204	75	55
17.....								789	644	225	75	55
18.....							April 20	705	852	192	75	53
19.....							to 30	599	789	204	66	56
20.....							204	440	768	228	65	56
21.....							195	540	684	201	68	56
22.....							246	479	691	180	68	56
23.....							201	557	705	162	66	56
24.....							195	605	712	135	64	56
25.....							192	824	684	125	60	56
26.....							201	670	644	125	57	55
27.....							232	664	569	117	55	56
28.....							198	587	501	113	54	62
29.....							219	468	452	99	55	70
30.....							201	484	410	98	56	80
31.....								518		92	54	
Total							2284	16414	16444	7196	2139	1667
Mean							208	529	548	232	69.0	55.6
Max.							246	824	852	385	76	80
Min.							192	205	288	92	54	45
Acre-ft.							4530	32560	32620	14270	4240	3310

Total run-off for period =91,330 acre-feet.

Discharge of East River Near Crested Butte, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	76	60					42	99	618	382	104	47
2.....	72	58					42	109	639	345	109	45
3.....	76	65					42	109	653	335	116	44
4.....	78	59					42	132	590	340	96	46
5.....	74	57					42	149	590	366	90	51
6.....	68	57					42	171	667	360	89	56
7.....	64	52					42	209	723	335	86	50
8.....	62	45					42	270	709	305	78	45
9.....	60	45					42	330	667	355	80	43
10.....	60	44					42	388	639	345	77	42
11.....	58	42					57	404	751	290	81	59
12.....	56	43					74	355	842	260	116	57
13.....	62	45					114	270	667	256	99	56
14.....	80	44					152	224	611	248	81	49
15.....	74	48					179	224	542	220	74	45
16.....	70	44					197	228	611	236	71	44
17.....	69	46					174	232	723	220	68	42
18.....	66	*44					144	236	737	252	67	39
19.....	64	44					121	275	737	209	63	37
20.....	62	41					140	330	688	171	61	36
21.....	66	39					186	432	660	154	60	36
22.....	70	38					232	536	632	144	60	36
23.....	69	37					242	572	597	128	62	36
24.....	65	34					162	667	572	119	68	36
25.....	78	34					135	695	536	121	67	36
26.....	72	34					128	765	500	117	62	36
27.....	65	35					117	772	464	112	57	36
28.....	68	34					102	660	371	125	54	34
29.....	69	34					107	660	355	114	51	32
30.....	63	34					102	604	371	107	50	31
31.....	58							584		104	48	
Total	2094	1337					3285	11691	18462	7175	2345	1282
Mean	67.5	44.6					110	377	615	231	75.6	42.7
Max.	80	65					242	772	842	382	116	59
Min.	56	34						99	355	104	43	31
Acre-ft.	4150	2650					6520	23190	36620	14230	4650	2540

Total run-off for period =94,550 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East River at Almont, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	108	84	76	61	61	47	69	555	1270	808	197	132
2.....	136	84	70	56	57	52	67	555	1250	711	194	130
3.....	131	87	69	54	53	50	67	732	1410	704	191	117
4.....	122	90	75	52	51	48	67	816	1440	718	194	108
5.....	119	76	73	53	50	52	70	697	1490	732	206	100
6.....	131	87	75	55	51	48	67	718	1410	669	226	96
7.....	119	87	70	55	53	48	66	683	1490	655	257	79
8.....	117	89	68	54	56	46	66	921	1440	662	254	81
9.....	117	89	70	53	58	52	76	1180	1130	655	268	98
10.....	126	87	72	53	59	48	88	1610	903	608	271	108
11.....	117	73	70	56	60	49	86	1800	784	566	257	104
12.....	108	72	69	60	62	46	104	2130	704	560	264	98
13.....	96	72	68	62	62	50	119	2610	690	520	246	106
14.....	92	70	60	63	61	49	106	2730	725	485	222	137
15.....	87	70	54	60	56	46	119	2300	792	451	226	128
16.....	86	75	54	60	52	43	128	1700	970	433	229	119
17.....	84	82	56	62	53	45	123	1800	1220	410	209	112
18.....	81	*89	58	60	52	48	117	2050	1560	402	200	102
19.....	76	94	60	59	52	52	108	1760	1700	397	203	100
20.....	75	89	62	58	50	52	96	1180	1700	442	218	100
21.....	75	90	58	62	50	55	102	1050	1700	388	209	102
22.....	73	87	56	66	52	58	119	1170	1650	356	200	102
23.....	73	86	57	65	46	62	128	1140	1620	343	177	102
24.....	72	81	59	63	50	61	165	1360	1680	338	163	102
25.....	72	81	64	63	52	56	222	1570	1500	313	154	102
26.....	73	76	60	61	48	52	260	1790	1410	285	150	102
27.....	81	72	56	58	42	55	334	1800	1260	268	144	102
28.....	81	74	60	56	*45	56	352	1410	1050	254	140	121
29.....	81	76	62	58	....	58	343	1260	940	236	142	134
30.....	96	76	63	62	....	61	475	1200	849	218	144	150
31.....	92	....	64	63	....	62	....	1290	....	206	137	....
Total	2997	2445	1988	1823	1494	1607	4309	43567	37737	14793	6292	3274
Mean.	96.7	81.5	64.1	58.8	53.4	51.8	144	1405	1258	477	203	109
Max.	136	94	76	66	62	62	475	2730	1700	808	271	150
Min.	72	70	54	52	42	43	66	555	690	206	137	79
Ac.-ft.	5940	4850	3940	3620	2960	3190	8550	86410	74850	29340	12480	6490

Total run-off for water year=242,600 acre-feet.

Discharge of East River at Almont, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	144	160	90	60	62	56	48	289	1410	685	209	106
2.....	137	165	86	58	64	56	55	330	1510	650	204	100
3.....	168	171	90	58	66	56	62	301	1560	626	212	98
4.....	203	163	92	60	68	58	92	338	1540	626	194	94
5.....	182	160	90	47	68	60	182	388	1270	626	209	90
6.....	165	157	82	45	68	62	177	402	1540	620	245	96
7.....	154	144	84	47	68	58	163	485	1770	626	233	94
8.....	152	125	86	50	68	56	191	572	1820	572	214	90
9.....	154	142	90	52	*69	62	215	676	1710	578	199	83
10.....	150	134	92	48	63	53	254	824	1500	590	188	81
11.....	142	125	94	48	64	50	289	980	1730	514	196	92
12.....	137	128	84	49	66	52	352	990	1860	470	245	104
13.....	197	*145	84	*51	68	50	446	746	1680	440	260	90
14.....	271	135	86	52	70	49	505	620	1420	425	214	81
15.....	229	130	78	52	70	46	572	560	1200	412	199	77
16.....	215	130	76	52	66	48	555	560	1190	430	186	76
17.....	206	130	76	54	62	46	550	578	1430	402	173	72
18.....	209	130	76	54	64	46	465	578	1560	416	168	70
19.....	203	125	76	52	52	48	384	662	1610	402	159	66
20.....	206	115	74	52	56	42	410	732	1440	344	152	64
21.....	215	100	76	50	58	43	470	903	1310	307	156	64
22.....	229	96	74	52	60	45	540	1140	1210	284	156	64
23.....	206	92	70	54	58	48	676	1330	1120	260	152	64
24.....	194	94	74	58	56	48	480	1520	1090	245	159	62
25.....	229	98	74	58	56	48	402	1610	1000	225	161	60
26.....	226	98	70	60	54	46	374	1800	950	217	152	60
27.....	200	96	64	60	56	41	352	2130	894	209	140	58
28.....	203	96	62	62	58	42	325	1660	762	225	130	58
29.....	200	96	64	64	....	45	305	1620	685	220	126	56
30.....	179	94	66	62	....	43	325	1430	685	209	120	54
31.....	163	....	66	60	....	45	....	1420	....	212	110	....
Total	5868	3774	2446	1681	1753	1548	10216	28174	40556	13067	5621	2324
Mean.	189	126	78.9	54.2	62.6	49.9	341	909	1352	422	181	775
Max.	271	171	94	64	70	62	676	2130	1860	685	260	106
Min.	137	92	62	45	52	41	48	289	685	209	110	54
Ac.-ft.	11640	7490	4850	3330	3480	3070	20260	55880	80440	25920	11150	4610

Total run-off for water year=232,100 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Coal Creek Near Crested Butte, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	5.2	5.6	.....	.....	.....	.....	.....	9.8	137	25	3.8	2.3
2.....	4.6	5.3	.....	.....	.....	.....	.....	9.8	136	23	3.8	2.2
3.....	4.9	5.4	.....	.....	.....	.....	.....	9.5	127	19	3.7	2.2
4.....	5.2	5.0	.....	.....	.....	.....	.....	10	122	15	3.3	2.2
5.....	5.4	5.2	.....	.....	.....	.....	.....	12	132	13	3.2	2.3
6.....	5.4	4.9	.....	.....	.....	.....	.....	14	142	12	3.2	2.4
7.....	5.2	4.9	.....	.....	.....	.....	.....	22	143	12	3.0	2.4
8.....	4.4	6.2	.....	.....	.....	.....	.....	31	134	10	3.0	2.2
9.....	4.9	5.0	.....	.....	.....	.....	.....	42	128	9.5	2.9	2.1
10.....	4.5	4.9	.....	.....	.....	.....	.....	58	128	8.6	2.8	2.2
11.....	4.0	5.4	.....	.....	.....	.....	.....	55	137	7.8	2.9	3.3
12.....	4.2	5.2	.....	.....	.....	.....	.....	53	128	7.3	5.3	2.7
13.....	10	5.3	.....	.....	.....	.....	April 11 to 30	44	114	7.0	3.9	2.4
14.....	9.8	6.0	.....	.....	.....	.....	.....	22	39	99	7.3	3.4
15.....	7.0	5.9	.....	.....	.....	.....	.....	29	39	89	7.0	3.2
16.....	5.4	6.0	.....	.....	.....	.....	.....	33	43	94	6.5	3.0
17.....	4.9	6.2	.....	.....	.....	.....	.....	29	45	98	7.0	3.0
18.....	4.3	6.3	.....	.....	.....	.....	.....	23	50	96	9.8	2.9
19.....	4.4	.....	.....	.....	.....	.....	.....	16	57	90	6.5	2.9
20.....	4.6	.....	.....	.....	.....	.....	.....	13	64	80	5.7	2.9
21.....	6.5	.....	.....	.....	.....	.....	.....	15	85	68	5.3	2.8
22.....	5.9	.....	.....	.....	.....	.....	.....	20	100	55	5.2	2.8
23.....	5.7	.....	.....	.....	.....	.....	.....	27	114	44	4.6	2.9
24.....	5.4	.....	.....	.....	.....	.....	.....	20	127	40	4.4	3.1
25.....	5.9	.....	.....	.....	.....	.....	.....	16	140	39	4.0	3.3
26.....	5.7	.....	.....	.....	.....	.....	.....	14	166	39	3.9	2.9
27.....	5.9	.....	.....	.....	.....	.....	.....	11	162	36	3.8	2.6
28.....	5.7	.....	.....	.....	.....	.....	.....	10	142	35	4.4	2.5
29.....	5.6	.....	.....	.....	.....	.....	.....	9.8	137	31	3.8	2.4
30.....	5.4	Nov. 1	.....	.....	.....	.....	.....	9.0	134	28	3.9	2.4
31.....	5.2	to 18	.....	.....	.....	.....	.....	.....	137	.....	3.8	2.4
Total	171.2	98.7	.....	.....	.....	.....	316.8	2154.1	2769	266.1	96.2	62.3
Mean..	5.52	5.48	.....	.....	.....	.....	18.6	69.5	92.3	8.58	3.10	2.08
Max...	10	6.3	.....	.....	.....	.....	33	166	143	25	5.3	3.3
Min...	4.0	4.9	.....	.....	.....	.....	9.0	9.5	28	3.8	2.4	1.7
Acre-ft.	340	196	.....	.....	.....	.....	628	4270	5490	528	191	124

Total run-off for period=11,779 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Slate River Near Crested Butte, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....								342	659	396	67	27
2.....								352	604	345	64	26
3.....								342	631	314	59	25
4.....								370	680	292	59	23
5.....								428	680	292	56	21
6.....								452	659	282	61	21
7.....								476	696	272	59	21
8.....								604	720	272	56	26
9.....								736	652	269	56	28
10.....								814	520	257	54	26
11.....								950	432	248	52	24
12.....								1110	328	233	48	23
13.....								1220	328	215	46	30
14.....								1200	328	191	46	36
15.....								1100	420	169	43	35
16.....							April 18	1010	440	161	42	34
17.....							to 30	1050	480	153	41	36
18.....							41	1000	540	147	41	36
19.....							39	920	645	158	39	35
20.....							36	712	736	191	38	34
21.....							39	598	823	163	36	33
22.....							39	624	805	150	35	35
23.....							54	778	744	142	32	43
24.....							121	880	688	126	30	47
25.....							139	910	624	118	29	45
26.....							180	950	604	114	28	41
27.....							206	930	520	99	27	37
28.....							227	920	492	95	27	36
29.....							257	850	460	86	29	40
30.....							303	778	436	79	29	53
31.....								712		70	28	
Total							1681	24118	17374	6099	1357	977
Mean							129	778	579	197	43.8	32.6
Max.							303	1220	823	396	67	53
Min.							36	342	328	70	27	21
Acres-ft.							3330	47840	34460	12100	2690	1940

Total run-off for period=102,400 acre-feet.

Discharge of Slate River Near Crested Butte, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	52	52	26	16	14	11	23	111	836	276	58	13
2.....	48	49	25	16	15	11	30	116	872	273	59	13
3.....	51	51	25	15	15	11	38	104	845	261	52	13
4.....	57	48	24	13	15	11	46	132	760	258	38	16
5.....	56	46	24	12	15	12	66	158	728	264	33	17
6.....	54	43	22	12	15	12	64	180	854	267	32	17
7.....	51	39	23	12	15	12	60	229	930	273	32	17
8.....	47	40	21	13	15	12	58	282	920	243	31	14
9.....	47	40	21	13	*15	*12	64	336	809	240	28	14
10.....	46	37	22	13	15	12	70	408	736	226	30	13
11.....	45	37	22	13	15	12	89	490	845	207	32	24
12.....	43	40	21	13	15	12	111	460	854	182	53	21
13.....	66	42	21	13	15	12	166	345	792	160	48	19
14.....	134	40	21	*13	14	12	212	288	632	170	37	16
15.....	93	45	19	13	14	12	273	279	495	140	32	14
16.....	84	41	19	13	13	12	267	291	500	150	30	14
17.....	76	43	18	13	12	13	249	315	632	130	25	14
18.....	67	41	19	13	12	13	212	318	657	140	25	13
19.....	64	41	19	13	12	13	180	357	692	110	24	14
20.....	63	39	19	13	12	13	188	420	602	101	25	14
21.....	72	37	19	13	13	13	226	550	540	92	25	13
22.....	70	36	19	14	12	13	261	692	490	80	24	12
23.....	67	28	19	14	12	13	297	818	455	70	22	12
24.....	61	26	19	14	12	14	212	920	432	68	28	11
25.....	81	25	18	14	11	14	169	950	384	66	27	10
26.....	72	26	17	14	11	15	153	1040	364	64	25	9.4
27.....	66	26	17	14	11	15	140	1100	345	62	20	8.8
28.....	67	26	16	14	11	15	119	920	300	66	18	8.8
29.....	67	26	16	14	.....	16	114	890	270	58	16	8.8
30.....	61	26	16	14	.....	17	132	800	276	56	15	9.4
31.....	54	.....	17	14	.....	19	.....	818	.....	58	13	.....
Total	1982	1136	624	418	376	404	4289	15117	18847	4811	957	413.2
Mean	63.9	37.9	20.1	13.5	13.4	13.0	143	488	628	155	30.9	13.8
Max.	134	52	26	16	15	19	297	1100	930	276	59	24
Min.	43	25	16	12	11	11	23	104	270	56	13	8.8
Acres-ft.	3930	2250	1240	829	746	801	8510	29980	37380	9540	1900	820

Total run-off for water year=97,930 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cement Creek Near Crested Butte, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1								24	114	69	24	17	
2								24	118	66	24	17	
3								27	136	63	22	17	
4								29	136	63	21	17	
5								29	140	60	21	16	
6								33	136	60	21	16	
7								34	136	56	21	16	
8								44	136	55	21	16	
9								58	118	53	20	17	
10								76	104	52	21	17	
11								86	96	50	22	17	
12								89	91	50	22	16	
13								116	89	50	21	16	
14								136	91	44	19	16	
15								140	102	42	19	17	
16								128	128	40	19	17	
17								148	148	36	21	17	
18								10	136	144	36	21	17
19								10	122	140	38	19	17
20								10	112	136	35	19	17
21								7.6	96	130	35	18	17
22								9.7	93	126	35	18	18
23								11	96	116	35	18	19
24								12	112	108	35	18	21
25								15	108	108	34	18	20
26								17	112	95	33	18	19
27								18	110	89	31	17	18
28								18	112	84	29	17	17
29								19	114	79	26	17	18
30								24	116	72	25	17	22
31								114	....	24	17	....
Total								181.3	2774	3446	1360	611	522
Mean								13.9	89.5	115	43.9	19.7	17.4
Max.								24	148	148	69	24	22
Min.								7.6	24	72	24	17	16
Acres-ft.								360	5500	6840	2700	1210	1040

Total run-off for period=17,650 acre-feet.

Discharge of Cement Creek Near Crested Butte, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	17	12	9.6	7.2	8.6	12	19	174	57	29	21
2	18	17	11	9.0	7.2	8.6	12	21	181	53	29	18
3	20	18	11	8.5	7.1	8.6	13	19	179	50	27	17
4	23	17	11	8.6	7.5	8.8	14	22	168	47	25	19
5	21	17	11	8.6	7.4	9.1	15	23	159	44	24	22
6	20	16	11	8.2	7.3	9.6	15	24	166	49	23	21
7	18	15	11	7.9	7.2	9.5	15	29	190	51	22	21
8	17	15	11	8.1	7.3	9.6	15	35	190	43	22	19
9	16	16	11	8.2	7.2	10	15	43	185	44	22	19
10	16	15	12	8.0	7.0	10	16	50	177	64	21	18
11	14	15	12	7.8	6.9	10	17	60	179	49	23	22
12	13	15	12	7.8	7.2	10	19	60	174	48	29	20
13	16	16	11	7.8	7.2	11	24	50	155	45	27	19
14	20	15	12	7.9	7.6	11	29	47	141	45	25	18
15	18	15	11	7.8	7.6	10	28	45	141	45	24	18
16	16	14	11	7.9	7.6	11	27	43	141	49	22	17
17	14	14	11	7.9	7.2	10	28	45	157	47	22	16
18	14	14	10	7.9	7.2	10	22	47	157	44	22	16
19	14	14	11	7.8	7.4	11	21	54	152	37	22	16
20	14	13	11	7.8	7.8	10	24	68	141	36	21	16
21	16	13	11	7.6	8.2	9.8	26	88	126	34	21	16
22	15	12	11	7.5	8.4	10	31	108	114	33	21	16
23	15	12	11	7.5	8.4	11	29	126	108	32	21	16
24	15	12	11	7.6	8.2	11	25	139	102	31	21	17
25	17	12	11	7.6	8.3	11	23	150	95	31	23	17
26	21	12	11	7.7	8.5	10	23	180	88	30	23	17
27	19	12	10	7.8	8.8	10	24	230	83	30	22	16
28	21	12	9.7	7.6	8.9	11	22	220	72	31	23	16
29	20	12	9.6	7.5	....	11	21	190	65	31	22	16
30	18	12	9.8	7.2	....	12	21	179	62	29	22	16
31	17	....	9.8	7.2	....	12	....	172	....	28	22	....
Total	536	429	338.9	245.9	214.1	315.2	626	2586	4222	1287	722	536
Mean	17.3	14.3	10.9	7.93	7.65	10.2	20.9	83.4	141	41.5	23.3	17.9
Max.	23	18	12	9.6	8.9	12	31	230	190	64	29	22
Min.	13	12	9.6	7.2	6.9	8.6	12	19	62	28	21	16
Acres-ft.	1060	851	672	488	425	625	1240	5130	8370	2550	1430	1060

Total run-off for water year=23,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

THIRTY-FIRST BIENNIAL REPORT

Discharge of Ohio Creek Near Baldwin, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								220	382	212	56	22
2								244	382	188	52	23
3								292	394	201	52	16
4								346	376	188	52	15
5								304	346	201	52	15
6								262	346	182	52	22
7								292	382	167	51	15
8								364	430	160	52	18
9								460	319	198	64	21
10								561	256	172	63	22
11								641	235	162	57	21
12								734	226	139	57	18
13							April 15	872	218	124	52	19
14							to 30	876	247	122	40	35
15							51	700	277	104	37	27
16							55	603	307	104	41	24
17							52	622	367	116	41	22
18							41	667	337	116	38	23
19							37	552	418	158	36	23
20							37	430	412	122	32	22
21							46	379	406	104	35	21
22							57	412	421	97	35	25
23							60	409	412	101	33	33
24							99	436	424	95	30	29
25							114	481	370	88	29	25
26							130	514	346	88	30	29
27							137	508	310	78	29	26
28							162	448	271	72	28	21
29							195	400	256	64	28	22
30							209	385	218	63	29	29
31								391		63	28	
Total							1482	14805	10091	4049	1311	683
Mean							92.6	478	336	131	42.3	22.8
Max.							209	876	430	212	64	35
Min.							37	220	218	63	28	15
Acre-ft.							2940	29370	20020	8030	2600	1350

Total run-off for period=61,310 acre-feet.

Discharge of Ohio Creek Near Baldwin, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	41	28	18	16	13	22	98	435	168	56	18
2	24	34	28	18	17	12	24	110	435	160	66	15
3	36	34	27	17	18	12	*23	101	428	160	62	15
4	41	33	27	15	18	12	45	124	407	163	51	16
5	32	32	26	13	17	13	78	139	404	165	48	22
6	29	31	24	13	18	14	76	153	435	158	48	25
7	27	31	25	14	18	13	74	188	463	146	45	22
8	27	31	24	14	18	13	78	240	449	146	43	19
9	23	30	24	15	18	13	88	294	410	146	39	18
10	23	30	24	14	*18	13	90	337	400	130	37	17
11	24	30	24	14	18	*13	120	379	442	116	36	25
12	24	31	24	14	18	13	180	368	449	109	67	22
13	57	32	23	*14	18	14	220	276	418	103	56	21
14	60	31	23	14	18	14	288	240	376	98	44	18
15	38	33	22	14	16	13	267	234	315	116	38	17
16	37	33	21	14	16	13	199	246	324	132	34	16
17	35	33	20	14	14	14	204	252	379	112	31	15
18	33	*34	20	14	13	15	151	252	390	146	30	15
19	33	34	20	14	13	16	120	288	379	107	30	15
20	35	32	20	14	13	16	144	327	351	91	30	16
21	44	29	20	14	14	14	168	393	318	79	28	16
22	41	29	20	15	14	14	228	446	300	70	27	15
23	43	27	20	15	13	15	285	494	276	64	27	15
24	39	26	20	16	12	16	177	530	261	64	29	15
25	47	27	20	16	12	17	139	554	237	58	31	15
26	50	28	19	16	12	17	128	603	225	50	29	15
27	47	28	18	16	12	17	120	631	213	49	25	14
28	47	28	18	16	13	18	109	519	185	55	22	14
29	47	28	18	17	....	19	101	498	172	50	21	14
30	42	27	18	16	....	20	101	456	172	52	20	14
31	33	....	18	16	....	21	....	442	....	52	18	....
Total	1145	924	683	464	435	457	4047	10212	10448	3315	1174	514
Mean	36.9	30.9	22.0	15.0	15.5	14.7	135	329	348	107	37.9	17.1
Max.	60	41	28	18	18	21	288	631	463	168	67	25
Min.	23	26	18	13	12	12	22	98	172	49	18	14
Acre-ft.	2270	1840	1350	920	863	905	8030	20260	20720	6580	2330	1020

Total run-off for water year=67,090 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Tomichi Creek at Sargents, Colo., for Year Ending Sept. 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	28	19	23	20	18	18	37	73	310	140	41	29
2....	27	20	23	17	17	19	34	75	285	129	39	29
3....	27	20	22	15	17	19	33	92	288	118	37	27
4....	24	20	22	15	16	18	36	105	298	114	33	26
5....	22	21	22	16	16	18	42	88	285	116	29	26
6....	22	22	21	17	17	18	39	94	278	114	33	26
7....	23	22	21	19	18	17	39	107	292	105	38	25
8....	23	22	22	19	18	17	39	131	288	111	42	30
9....	22	22	21	18	18	16	44	162	255	107	42	32
10....	22	22	20	17	18	16	48	202	262	98	43	30
11....	22	23	20	17	17	16	44	225	240	90	39	28
12....	22	21	20	17	18	17	63	268	205	83	42	28
13....	22	16	19	18	18	*17	60	355	192	79	39	29
14....	22	18	17	18	19	18	44	424	195	81	38	32
15....	21	20	16	17	19	18	43	412	205	75	43	30
16....	20	22	17	16	19	18	42	355	210	77	41	29
17....	19	24	18	16	19	18	43	376	210	73	43	28
18....	19	*25	19	17	19	19	42	394	230	77	39	29
19....	18	25	19	16	20	19	38	338	245	72	36	29
20....	18	25	20	17	*20	20	*37	295	245	90	36	28
21....	18	25	19	17	*21	21	37	268	232	77	36	27
22....	18	24	18	17	*20	21	43	282	228	72	38	30
23....	17	24	19	*17	20	22	46	265	235	65	35	16
24....	17	23	20	18	20	22	52	270	228	61	32	33
25....	16	24	20	18	21	22	54	310	222	66	31	30
26....	16	23	19	17	19	22	58	330	202	58	30	29
27....	20	22	18	18	18	23	65	349	188	55	29	28
28....	22	23	19	18	17	26	75	346	172	52	30	27
29....	21	23	19	19	....	28	68	325	152	48	32	33
30....	20	24	20	20	....	32	68	308	145	44	36	42
31....	21	....	21	20	....	35	....	302	....	42	31	....
Total	649	664	614	541	517	630	1413	7926	7022	2589	1133	895
Mean	20.9	22.1	19.8	17.5	18.5	20.3	47.1	256	234	83.5	36.5	29.8
Max.	28	25	23	20	21	35	75	424	310	140	43	46
Min.	16	16	16	15	16	16	33	73	145	42	29	25
Acres-ft.	1290	1320	1220	1070	1030	1250	2800	15720	13930	5140	2250	1780

Total run-off for water year=48,800 acre-feet.

Discharge of Tomichi Creek at Sargents, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	37	33	26	21	19	17	35	125	499	125	54	32
2....	36	33	26	20	20	17	45	148	496	125	73	33
3....	50	41	26	20	20	16	54	148	484	125	73	32
4....	58	37	26	20	20	16	64	158	502	116	61	36
5....	50	36	25	19	20	16	68	158	451	109	55	41
6....	46	33	26	19	19	16	*80	155	445	105	52	37
7....	39	31	26	20	*19	*16	90	182	451	111	50	37
8....	41	32	26	21	19	16	98	212	439	105	48	35
9....	41	27	25	22	18	16	110	262	424	96	46	33
10....	39	32	25	22	18	16	120	308	394	88	46	32
11....	37	32	24	22	18	16	130	346	406	79	44	33
12....	38	31	24	*23	19	16	140	320	400	72	46	32
13....	55	31	24	23	19	16	170	275	385	70	46	32
14....	58	29	24	23	19	16	195	232	358	73	42	30
15....	50	30	23	22	19	17	195	218	328	94	43	29
16....	48	31	23	22	18	17	160	212	320	88	43	29
17....	44	32	23	22	18	17	160	220	325	77	43	29
18....	41	26	23	22	18	17	125	218	318	79	42	29
19....	42	25	23	22	18	17	88	232	300	72	41	28
20....	42	24	23	22	19	17	100	262	278	75	39	28
21....	43	22	23	22	19	18	133	305	255	61	39	28
22....	48	21	23	22	20	19	158	346	232	61	42	28
23....	49	21	23	22	*19	19	212	406	210	63	43	28
24....	49	21	23	22	*17	19	190	466	195	56	44	31
25....	49	23	23	22	17	19	172	520	180	54	44	30
26....	50	26	21	22	17	19	155	565	168	50	41	29
27....	44	26	21	22	17	18	142	616	158	54	38	30
28....	43	26	21	21	17	18	127	550	145	61	36	30
29....	42	26	21	20	....	18	122	535	136	55	35	29
30....	41	26	21	20	....	20	120	514	131	55	33	29
31....	38	....	21	19	....	26	....	499	....	52	32	....
Total	1388	864	732	661	520	541	3758	9713	9813	2496	1414	939
Mean	44.8	28.8	23.6	21.3	18.6	17.5	125	313	327	80.5	45.6	31.3
Max.	58	41	26	23	20	26	212	616	502	125	73	41
Min.	36	21	19	17	17	16	35	125	131	50	32	28
Acres-ft.	2750	1710	1450	1310	1030	1070	7450	19270	19460	1950	2800	1860

Total run-off for water year=65,110 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Tomichi Creek at Gunnison, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	56	61	66	58	73	92	200	248	612	460	215	122
2.....	56	59	68	61	70	82	190	244	618	400	199	114
3.....	56	64	71	58	67	87	186	251	579	360	188	106
4.....	55	68	72	53	67	85	179	266	568	315	181	91
5.....	55	65	72	51	68	80	224	288	628	305	178	89
6.....	55	68	*69	53	71	89	241	255	623	310	184	83
7.....	52	72	68	55	73	87	210	237	634	305	223	76
8.....	54	75	69	58	75	89	213	241	687	300	235	78
9.....	55	76	70	63	76	85	213	276	735	285	235	83
10.....	52	76	66	62	78	82	237	307	735	300	262	85
11.....	52	65	66	61	78	78	227	352	699	280	262	78
12.....	52	62	65	61	77	76	227	388	657	276	244	74
13.....	52	62	65	63	77	80	288	486	579	290	219	70
14.....	52	64	62	64	78	73	248	634	530	310	211	71
15.....	54	67	59	67	78	73	220	759	495	271	227	73
16.....	55	70	60	67	78	78	210	831	513	235	235	73
17.....	55	71	62	67	79	76	210	825	513	223	240	68
18.....	56	72	64	67	80	76	200	807	568	181	258	63
19.....	58	71	66	66	80	83	190	790	651	192	231	62
20.....	56	71	67	66	80	85	164	740	711	262	211	60
21.....	55	70	65	66	*81	82	143	680	747	276	199	59
22.....	51	68	62	66	82	89	143	600	747	258	192	56
23.....	51	68	58	*65	*84	96	146	580	753	295	188	60
24.....	52	68	57	67	82	96	155	560	807	315	178	65
25.....	48	68	57	68	81	100	167	580	789	271	174	63
26.....	47	67	58	68	80	114	173	620	783	248	164	63
27.....	49	65	59	66	80	126	193	720	771	253	153	63
28.....	56	65	58	67	78	138	230	700	675	248	139	63
29.....	61	67	56	69	....	140	241	699	590	240	125	68
30.....	62	67	55	71	....	155	244	675	535	219	128	83
31.....	62	....	56	73	....	167	....	623	....	219	128	....
Total	1682	2032	1968	1967	2151	2939	6112	16262	19532	8702	6206	2262
Mean.	54.3	67.7	63.5	63.5	76.8	94.8	204	525	651	281	200	75.4
Max.	62	76	72	73	81	167	288	831	807	460	262	122
Min.	47	59	55	51	67	73	143	237	495	181	125	56
Acre-ft.	3340	4030	3900	3900	1270	5830	12120	32260	38740	17260	12310	4490

Total run-off for water year=142,400 acre-feet.

Discharge of Tomichi Creek at Gunnison, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	80	148	100	70	64	*80	130	170	1190	345	248	110
2.....	73	148	98	68	66	78	191	495	1170	335	269	108
3.....	87	151	96	68	68	76	200	505	1210	312	312	105
4.....	115	175	98	66	68	78	220	475	1290	300	273	100
5.....	137	181	96	60	68	74	395	520	1290	296	241	105
6.....	134	169	94	54	66	76	450	555	1190	288	230	115
7.....	123	163	96	61	*66	*73	455	560	1160	292	230	115
8.....	115	137	92	68	64	71	475	635	1200	296	220	112
9.....	108	137	90	70	64	74	605	692	1230	308	207	108
10.....	102	154	90	*68	64	71	695	747	1190	320	197	102
11.....	102	154	88	68	66	71	758	835	1130	312	191	89
12.....	102	142	86	68	66	74	769	928	1100	284	197	89
13.....	123	160	86	68	68	74	665	984	1130	251	204	86
14.....	160	166	86	66	68	76	703	923	1130	220	191	80
15.....	172	154	84	66	68	74	852	840	1090	207	175	73
16.....	163	154	82	66	68	76	862	752	1010	217	172	68
17.....	151	154	82	64	66	74	742	714	956	269	166	62
18.....	148	160	80	61	70	76	752	698	945	276	160	57
19.....	151	137	78	64	74	76	545	676	950	251	157	54
20.....	157	98	80	66	78	74	490	703	934	237	157	51
21.....	169	95	82	66	80	72	495	742	890	224	151	48
22.....	184	93	82	68	80	76	560	791	808	200	148	46
23.....	184	89	80	68	*78	80	720	857	747	184	166	46
24.....	188	84	82	66	*74	82	884	923	676	191	175	46
25.....	194	94	74	66	72	80	742	989	620	194	178	46
26.....	213	100	72	66	72	78	625	1110	570	204	169	46
27.....	204	100	72	66	*72	78	550	1220	525	197	154	47
28.....	184	98	70	66	*74	80	495	1320	485	237	131	47
29.....	178	100	72	64	....	84	455	1320	440	262	123	48
30.....	172	100	72	62	....	90	475	1260	390	251	115	48
31.....	166	....	70	60	....	110	....	1230	....	248	115	....
Total	4542	3995	2610	2034	1952	2415	16925	25469	28646	8008	5822	2257
Mean.	147	133	84.2	65.6	69.7	77.9	564	822	955	258	188	75.2
Max.	213	181	100	70	80	110	884	1320	1290	345	312	115
Min.	73	84	70	54	64	72	130	470	390	184	115	46
Acre-ft.	9010	7920	5180	4030	3870	4790	33570	50520	56820	15880	11550	4480

Total run-off for water year=207,600 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Quartz Creek Near Ohio, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	42	20	19	11	14	16	25	18	228	150	45	32
2.....	39	23	18	13	13	16	24	50	186	140	44	29
3.....	34	25	18	12	12	15	23	60	194	125	41	28
4.....	33	24	17	12	11	14	25	62	208	120	45	27
5.....	34	22	16	13	11	14	29	55	225	125	45	21
6.....	39	27	*16	14	12	14	28	66	233	115	52	16
7.....	35	25	16	15	12	13	27	72	258	105	72	11
8.....	33	24	17	15	13	13	28	94	239	100	65	17
9.....	33	25	17	14	13	12	31	121	205	92	68	18
10.....	36	24	16	11	12	12	32	142	186	86	82	20
11.....	33	21	16	14	12	11	31	186	164	82	66	20
12.....	31	18	15	14	13	11	40	228	152	78	58	21
13.....	30	15	14	15	13	*11	38	273	149	74	51	21
14.....	29	16	13	14	14	12	32	297	164	76	57	24
15.....	28	18	13	14	15	13	29	291	194	72	61	23
16.....	28	19	13	13	15	14	30	256	216	74	55	22
17.....	27	20	14	13	15	15	30	282	236	70	51	23
18.....	27	*20	14	14	16	16	29	297	288	72	48	22
19.....	27	20	14	13	16	17	27	250	312	84	45	21
20.....	26	20	15	14	17	18	*26	194	303	96	46	21
21.....	24	20	14	14	*18	18	27	180	285	84	43	22
22.....	22	19	13	15	*19	18	24	183	276	76	42	26
23.....	22	19	14	*15	*18	18	22	175	273	76	39	32
24.....	22	19	14	15	19	19	29	197	261	52	37	30
25.....	22	20	15	15	19	19	28	236	247	45	37	29
26.....	20	19	14	15	19	19	28	261	219	43	34	29
27.....	22	18	14	15	18	18	31	288	194	45	33	27
28.....	24	19	14	16	*23	18	39	261	183	46	31	25
29.....	29	19	14	16	.....	19	39	228	172	43	33	33
30.....	22	19	15	16	.....	20	45	208	155	42	34	35
31.....	20	.....	15	15	.....	23	.....	219	.....	44	29	.....
Total	884	617	467	411	422	486	896	5760	6605	2532	1489	728
Mean.	28.5	20.6	15.1	14.2	15.1	15.7	29.9	186	220	81.7	48.0	24.3
Max.	42	27	19	16	23	23	15	297	312	150	82	35
Min.	20	15	13	12	11	11	22	48	149	42	29	14
Acre-ft.	1750	1220	926	875	837	964	1780	11120	13100	5020	2950	1440

Total run-off for water year=42,280 acre-feet.

Discharge of Quartz Creek Near Ohio, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	29	38	29	23	22	17	23	62	510	151	65	44
2.....	28	40	29	23	24	17	24	69	510	146	75	42
3.....	36	54	28	22	27	16	25	67	518	136	79	37
4.....	42	45	29	22	28	17	27	79	500	134	68	37
5.....	46	43	29	21	28	16	36	81	458	134	63	37
6.....	40	42	28	20	28	17	35	91	500	139	61	37
7.....	31	38	28	22	*27	*16	31	107	563	131	59	38
8.....	36	28	28	23	26	16	42	129	535	129	59	38
9.....	36	25	28	25	26	16	47	143	476	125	58	37
10.....	33	35	28	26	26	17	48	172	420	116	57	36
11.....	34	33	28	26	26	17	58	204	493	109	55	38
12.....	36	32	27	*25	26	17	57	204	496	102	57	36
13.....	52	34	28	25	26	17	69	161	465	96	59	34
14.....	52	31	27	25	25	17	89	141	420	100	56	31
15.....	46	31	26	25	23	17	96	129	371	103	55	28
16.....	44	32	26	25	21	18	89	129	377	96	54	29
17.....	43	30	26	24	19	17	91	139	390	98	53	28
18.....	39	28	26	24	18	18	76	131	351	93	52	30
19.....	38	27	25	24	19	18	70	146	354	85	52	29
20.....	41	25	25	24	19	18	71	169	326	79	51	30
21.....	42	24	26	24	19	17	76	222	270	85	50	30
22.....	43	23	26	25	19	18	86	276	255	74	52	30
23.....	42	22	25	25	19	19	102	306	243	73	49	30
24.....	41	21	25	24	18	19	91	351	237	70	51	30
25.....	43	25	25	24	18	18	79	451	231	69	49	28
26.....	42	29	24	24	18	18	75	521	225	65	46	28
27.....	42	30	23	25	18	18	71	584	198	69	45	27
28.....	43	30	23	24	19	18	68	594	166	75	45	26
29.....	42	29	23	24	.....	20	65	570	158	67	47	26
30.....	41	29	24	22	.....	21	67	518	156	64	44	26
31.....	37	.....	23	21	.....	22	.....	504	.....	64	43	.....
Total	1237	953	815	736	632	547	1884	7450	11172	3067	1709	977
Mean.	39.9	31.8	26.3	23.7	22.6	17.6	62.8	240	372	99.0	55.1	32.6
Max.	52	54	29	26	28	22	102	594	563	151	79	44
Min.	28	21	23	20	18	16	23	62	156	64	43	26
Acre-ft.	2450	1890	1620	1460	1250	1080	3740	14780	22160	6080	3390	1940

Total run-off for water year=61,840 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cochetopa Creek Near Parlin, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....							34	94	148	193	68	42
2.....							30	86	161	180	67	41
3.....							30	118	156	153	66	38
4.....							30	107	178	140	64	37
5.....							42	90	172	151	61	33
6.....							43	84	185	150	65	30
7.....							48	85	196	148	75	28
8.....							42	86	237	140	82	30
9.....							48	91	228	161	79	33
10.....							59	85	203	153	88	30
11.....							72	97	198	126	81	30
12.....							135	119	161	126	76	29
13.....							88	201	148	146	71	28
14.....							66	250	128	126	67	28
15.....							64	257	135	115	77	28
16.....							63	245	158	115	83	27
17.....							72	237	185	102	87	18
18.....							48	250	237	91	91	15
19.....							44	259	304	96	76	18
20.....							41	245	329	114	69	18
21.....							33	207	336	96	69	15
22.....							42	180	324	88	75	16
23.....							46	223	311	87	67	24
24.....							64	186	317	87	63	24
25.....							76	180	354	83	60	24
26.....							79	172	380	96	57	23
27.....							85	161	336	94	54	23
28.....							96	156	319	90	50	23
29.....							90	158	260	79	52	29
30.....							98	148	206	73	57	28
31.....								135		79	54	
Total.....							1808	4992	6990	3678	2151	810
Mean.....							60.3	161	233	119	69.4	27.0
Max.....							135	259	380	193	91	42
Min.....							30	84	128	73	50	15
Acre-ft.....							3590	9900	13860	7300	4270	1610

Total run-off for period=40,530 acre-feet.

Discharge of Cochetopa Creek Near Parlin, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	25	44	21	16	19	21	34	89	216	107	81	37
2.....	27	39	21	16	19	21	39	110	219	103	95	37
3.....	34	49	21	16	19	21	44	98	235	96	98	35
4.....	41	52	21	16	19	21	48	107	278	93	78	35
5.....	46	55	21	16	19	21	56	162	253	92	69	38
6.....	31	51	21	16	19	21	66	138	245	82	69	38
7.....	30	42	21	16	19	21	74	176	269	88	68	39
8.....	27	50	21	16	19	21	80	186	298	99	65	36
9.....	25	56	21	16	19	21	86	179	299	114	60	34
10.....	25	30	21	16	19	21	76	251	282	107	51	28
11.....	25	36	21	16	19	21	115	301	267	87	48	28
12.....	27	44	21	*16	19	21	150	324	290	74	48	22
13.....	34	52	21	16	19	21	211	240	308	74	50	18
14.....	49	41	21	16	19	21	326	200	296	73	47	18
15.....	43	41	21	16	19	21	378	170	278	81	46	19
16.....	37	38	21	16	19	21	272	170	240	104	45	21
17.....	34	44	21	16	19	21	290	166	240	110	43	14
18.....	33	46	21	16	19	21	168	157	264	103	43	7.8
19.....	45	32	21	16	19	21	90	174	267	92	43	7.0
20.....	48	27	21	16	19	21	100	206	254	78	44	6.6
21.....	47	22	21	16	19	21	117	222	234	70	43	7.0
22.....	57	34	21	16	19	21	174	245	219	65	43	7.3
23.....	62	33	21	16	19	21	267	243	203	60	46	7.7
24.....	57	33	21	16	19	21	152	256	190	69	53	8.0
25.....	60	35	21	16	19	21	121	264	174	75	52	8.3
26.....	66	33	21	16	19	21	121	274	155	67	47	8.7
27.....	50	32	21	16	19	21	110	290	144	70	45	9.0
28.....	53	31	21	16	19	21	98	283	128	102	42	9.3
29.....	53	31	21	16	.....	21	102	285	109	81	39	9.7
30.....	54	32	21	16	.....	21	96	264	106	75	38	10
31.....	48	.....	21	16	.....	21	.....	226	.....	75	37	.....
Total.....	1293	1190	651	496	532	651	4061	6456	6960	2666	1676	603.4
Mean.....	41.7	39.7	21	16	19	21	135	208	232	86.0	54.1	20.1
Max.....	66	56	21	16	19	21	378	324	308	114	98	39
Min.....	25	22	21	16	19	21	34	89	106	60	37	6.6
Acre-ft.....	2560	2360	1290	984	1060	1290	8050	12810	13800	5290	3320	1200

Total run-off for water year=54,010 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cebolla Creek at Powderhorn, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	49	40	37	32	34	41	70	256	360	256	104	85
2....	45	44	38	29	33	42	66	270	332	248	104	83
3....	43	45	38	28	32	43	68	295	373	220	101	76
4....	43	45	36	29	32	44	73	340	453	216	101	76
5....	44	36	36	30	32	45	76	310	399	224	98	74
6....	49	43	36	32	33	44	79	325	412	232	104	72
7....	44	40	37	33	34	44	72	355	425	220	112	67
8....	43	39	36	32	35	42	70	453	399	208	131	78
9....	43	39	35	32	37	42	72	607	338	200	138	81
10....	39	40	33	31	37	43	76	663	300	192	148	72
11....	36	40	33	30	37	45	74	671	274	188	158	65
12....	37	41	31	31	37	*47	82	744	244	204	138	60
13....	38	39	31	32	*38	48	90	861	236	200	115	63
14....	38	33	31	33	39	48	78	852	240	180	115	67
15....	39	36	31	33	41	48	76	671	274	173	155	63
16....	39	38	31	32	40	48	76	551	316	158	155	60
17....	39	38	32	32	40	48	76	543	380	155	169	60
18....	39	39	32	33	40	48	74	599	488	144	158	63
19....	38	39	33	33	40	51	71	607	596	148	138	65
20....	37	38	33	33	41	52	69	399	540	158	134	63
21....	35	38	32	*32	41	51	*64	338	555	151	128	61
22....	35	37	32	32	41	53	64	332	502	141	128	65
23....	37	37	32	32	41	54	63	332	532	134	115	101
24....	37	37	33	32	42	55	61	316	570	134	112	81
25....	37	37	33	32	41	55	73	360	548	155	101	74
26....	42	37	32	32	39	55	77	392	481	180	96	74
27....	42	36	31	33	39	56	93	446	412	158	96	72
28....	37	36	32	34	38	56	130	412	373	144	90	74
29....	37	36	32	35	....	58	166	386	300	131	98	83
30....	37	37	33	35	....	62	220	344	278	138	107	90
31....	36	....	33	35	....	68	....	327	....	122	90	....
Total	1234	1160	1035	994	1054	1536	2499	14357	11930	5512	3737	2168
Mean.	39.8	38.7	33.4	32.1	37.6	49.5	83.3	463	398	178	121	72.3
Max.	49	45	38	35	42	68	220	861	596	256	169	101
Min.	35	33	31	28	32	41	61	256	236	122	90	60
Acre-ft.	2450	2300	2050	1970	2090	3050	4960	28480	23660	10930	7410	4300

Total run-off for water year=93,650 acre-feet.

Discharge of Cebolla Creek at Powderhorn, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	78	93	72	50	38	43	52	150	694	208	122	72
2....	76	96	68	45	38	43	60	178	721	199	150	70
3....	109	98	72	50	41	47	68	170	712	199	143	67
4....	119	93	74	43	44	44	76	208	658	190	115	65
5....	104	93	68	36	46	46	86	276	676	186	112	67
6....	98	90	58	37	44	48	84	262	793	186	109	72
7....	85	83	60	41	46	43	84	354	930	190	107	70
8....	88	74	62	42	44	44	96	416	890	190	101	67
9....	85	81	63	42	41	45	*115	472	840	190	98	67
10....	83	81	64	39	*43	*46	132	600	694	178	101	67
11....	83	78	66	41	42	47	154	616	811	154	101	76
12....	83	81	62	42	43	48	154	608	820	146	109	74
13....	129	90	62	42	45	49	204	387	739	139	109	74
14....	150	81	64	40	45	49	342	315	658	139	101	72
15....	115	81	62	*38	47	46	342	305	496	143	96	70
16....	101	78	62	40	42	47	361	281	456	170	93	67
17....	101	81	62	42	43	45	348	281	536	178	88	65
18....	96	82	62	39	35	46	170	262	512	166	88	63
19....	98	78	60	39	35	49	122	271	496	158	88	63
20....	98	74	58	38	38	45	143	276	464	136	88	65
21....	136	64	59	37	41	44	208	361	416	122	88	65
22....	139	68	60	37	44	46	305	432	394	119	90	63
23....	119	56	56	39	44	47	394	448	354	109	93	63
24....	115	54	57	41	40	48	221	584	330	109	98	63
25....	139	66	58	43	41	50	204	616	296	107	90	60
26....	129	68	54	44	40	49	195	703	267	109	81	60
27....	112	68	54	43	44	47	190	850	258	112	76	60
28....	115	68	55	45	48	48	170	802	230	136	76	60
29....	107	68	56	45	....	49	170	793	221	122	74	60
30....	104	68	56	43	....	50	162	757	212	112	74	60
31....	93	....	54	38	....	50	....	685	....	112	72	....
Total	3287	2334	1900	1281	1182	1448	5112	13719	16574	4714	3031	1987
Mean.	106	77.8	61.3	71.3	42.2	46.7	180	443	552	152	97.8	66.2
Max.	150	98	74	50	48	50	394	850	930	208	150	76
Min.	76	54	54	36	35	43	52	150	212	107	72	60
Acre-ft.	6520	4630	3770	2540	2340	2870	10730	27210	32870	9350	6010	3940

Total run-off for water year=112,800 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Steuben Creek Near Elkhorn, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							8.0	9.0	57	10	0.7	0.4
2							10	10	58	10	0.7	0.4
3							14	9.0	58	5.4	0.6	0.3
4							26	12	52	5.2	0.6	0.2
5							28	14	58	5.0	0.5	1.0
6							12	15	64	6.1	0.4	0.8
7							8.6	22	65	6.1	0.6	0.7
8							11	26	61	5.4	0.6	0.6
9							15	28	56	5.4	0.6	0.4
10							19	33	66	4.6	0.6	0.4
11							23	34	72	3.8	0.8	0.6
12							20	28	72	3.4	2.3	0.5
13							25	20	64	1.8	1.2	0.4
14							30	17	52	1.5	0.7	0.4
15							28	18	47	3.1	0.6	0.3
16							21	16	52	3.4	0.6	0.2
17							21	17	60	5.4	0.4	0.2
18							17	16	60	4.6	0.4	0.2
19							13	17	58	3.4	0.4	0.2
20							14	19	47	2.3	0.4	0.2
21							15	23	41	2.4	0.4	0.2
22							17	28	36	1.8	0.4	0.2
23							23	37	32	1.7	0.6	0.2
24							20	40	25	1.5	0.7	0.2
25							18	48	21	1.4	0.6	0.2
26							15	58	20	0.8	0.5	0.2
27							14	64	18	0.7	0.4	0.4
28							12	58	14	0.8	0.4	0.4
29							11	57	13	0.7	0.6	0.3
30							10	57	12	0.7	0.6	0.2
31								56		0.6	0.5	
Total							518.6	906.0	1411	109.0	19.4	10.9
Mean							17.3	29.2	47.0	3.52	0.63	0.36
Max.							30	64	72	10	2.3	1.0
Min.							8.0	9.0	12	0.6	0.4	0.2
Acre-ft.							1030	1800	2800	216	38	22

Total run-off for period=5,910 acre-feet.

Discharge of North Beaver Creek at Hierro, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								14	73	40	10	1.9
2								15	80	42	12	1.7
3								15	91	36	13	1.9
4								18	87	36	10	1.8
5								24	78	40	8.0	1.7
6								29	101	40	7.4	1.7
7								38	110	37	7.7	1.7
8							April 10	42	100	37	7.1	1.7
9								41	89	35	6.1	1.6
10							19	47	93	29	5.8	1.6
11							15	53	120	29	6.1	1.6
12							21	47	115	26	6.4	1.6
13							36	39	108	23	7.1	1.6
14							33	31	84	21	7.1	1.5
15							32	28	66	29	6.1	1.4
16							25	27	78	62	5.0	1.4
17							36	28	102	40	3.1	1.3
18							26	37	119	33	1.7	1.4
19							18	36	121	25	1.4	1.4
20							16	39	98	21	2.2	1.4
21							18	48	84	21	1.9	1.4
22							23	66	68	21	2.0	1.4
23							42	75	65	20	2.9	1.3
24							38	85	66	18	3.4	1.3
25							26	93	59	14	3.1	1.4
26							21	110	54	14	3.1	1.4
27							22	103	40	12	2.5	1.4
28							20	85	24	10	2.9	1.4
29							18	85	35	10	2.4	1.3
30							18	77	38	12	2.2	1.4
31								74		11	2.0	
Total							523	1549	2446	844	161.7	45.6
Mean							24.9	50.0	81.5	27.2	5.22	1.52
Max.							42	110	121	62	13	1.9
Min.							15	14	24	10	1.4	1.3
Acre-ft.							1040	3070	4850	1670	321	90

Total run-off for period=11,040 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lake Fork River at Gateview, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	118	62	45	48	42	43	54	138	734	1250	330	150
2....	115	66	45	48	42	43	62	128	891	1240	310	145
3....	115	67	45	48	42	43	60	152	1140	1210	290	139
4....	108	67	45	48	42	43	56	197	1140	1230	268	136
5....	110	58	45	48	42	43	54	203	1140	1140	268	133
6....	120	64	45	48	42	43	54	236	1130	982	261	133
7....	118	62	45	48	42	43	62	266	1140	974	310	126
8....	115	62	45	48	42	43	58	328	972	950	306	130
9....	112	62	45	48	42	43	60	457	746	1030	310	130
10....	108	64	45	48	42	43	64	620	610	950	322	124
11....	103	52	45	48	42	43	62	809	519	990	318	124
12....	99	56	45	48	42	43	71	1020	457	918	306	120
13....	95	49	45	48	*42	43	67	1330	470	902	279	124
14....	93	45	45	48	42	43	54	1590	605	821	261	139
15....	89	48	45	48	42	43	55	1250	728	751	268	156
16....	87	50	45	48	42	43	64	950	877	676	268	145
17....	85	51	45	48	42	43	66	996	1250	670	268	140
18....	85	52	45	48	42	43	62	1160	1810	694	258	150
19....	83	52	45	48	42	43	56	1170	2090	712	239	195
20....	81	50	45	48	42	43	54	790	2090	688	227	175
21....	80	50	45	*48	42	43	*58	610	2000	610	216	170
22....	78	50	45	48	42	43	56	542	1970	562	214	279
23....	76	49	45	48	42	43	55	501	2100	550	198	382
24....	74	49	45	48	42	43	55	510	2190	568	186	302
25....	72	49	45	48	42	43	60	666	2020	604	176	251
26....	71	50	45	48	42	43	66	822	2010	540	170	227
27....	76	50	45	48	42	43	81	1050	1850	510	163	214
28....	72	49	45	48	42	43	95	950	1660	470	154	198
29....	69	48	45	48	....	43	103	764	1370	422	154	198
30....	69	48	45	48	....	43	122	688	1270	386	161	198
31....	66	....	45	48	....	43	....	660	....	358	156	....
Total	2842	1631	1395	1488	1176	1333	1946	21553	38979	24358	7615	5233
Mean.	91.7	54.4	45.0	48.0	42.0	43.0	64.9	695	1299	786	246	174
Max.	120	67	....	....	....	....	122	1590	2190	1250	330	382
Min.	66	45	....	....	....	....	54	128	457	358	154	120
Ac.-ft.	5640	3240	2770	2950	2330	2640	3860	42750	77310	48310	15100	10380

Total run-off for water year=217,300 acre-feet.

Discharge of Lake Fork River at Gateview, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	191	211	96	58	37	42	60	196	1150	945	364	153
2....	181	208	94	58	38	42	66	238	1290	938	388	139
3....	214	201	90	56	39	43	74	220	1270	917	416	136
4....	227	193	92	54	40	44	80	235	1160	924	404	134
5....	219	188	86	50	38	45	86	258	1240	938	372	139
6....	208	181	80	43	38	49	94	269	1500	980	360	136
7....	191	174	82	48	37	46	100	296	1810	931	352	132
8....	188	161	82	52	36	47	110	336	1920	931	324	134
9....	184	163	80	52	36	48	119	392	1770	940	300	119
10....	179	159	82	52	*36	*49	135	472	1660	960	280	132
11....	176	154	78	52	36	49	145	525	1840	920	276	134
12....	181	152	74	51	37	49	150	550	1880	860	373	134
13....	251	156	76	50	37	50	180	480	1720	800	369	141
14....	338	146	74	49	36	50	217	420	1590	720	251	146
15....	306	148	74	*48	35	50	232	380	1280	730	238	130
16....	283	146	74	47	34	49	217	364	1320	740	220	127
17....	272	148	72	47	35	50	226	376	1660	880	214	125
18....	258	150	70	47	28	50	199	368	1800	800	205	114
19....	251	138	68	48	30	50	187	388	1920	700	199	116
20....	248	121	70	46	32	49	187	432	1760	620	190	108
21....	286	106	72	46	33	47	220	550	1600	550	187	94
22....	286	118	72	47	34	50	269	700	1560	476	184	98
23....	279	104	68	47	33	52	308	834	1470	472	179	104
24....	272	84	70	46	34	52	300	1030	1410	468	199	108
25....	302	94	70	46	35	52	276	1150	1280	444	211	104
26....	298	100	62	46	35	51	266	1270	1170	424	196	98
27....	272	100	60	45	39	50	255	1460	1120	396	193	87
28....	265	98	60	44	44	48	241	1280	938	392	166	98
29....	248	96	62	42	....	50	241	1250	875	400	171	92
30....	233	96	62	39	....	52	235	1170	931	384	158	87
31....	216	....	60	36	....	56	....	1090	....	372	148	....
Total	7503	4294	2312	1492	1002	1511	5475	18979	43894	21952	8087	3602
Mean.	242	143	74.6	48.1	35.8	48.7	182	612	1463	708	261	120
Max.	338	211	96	58	44	56	308	1460	1920	980	416	153
Min.	176	84	60	36	28	42	60	196	875	372	148	87
Ac.-ft.	14880	8520	4590	2960	1990	3000	10860	37640	87060	43540	16040	7140

Total run-off for water year=238,200 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Smith Fork Near Crawford, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						11	28	185	134	67	20	11
2						11	26	192	137	58	18	10
3						11	25	219	142	53	18	9.7
4						12	22	231	140	51	18	9.7
5					Feb. 7	11	29	239	138	47	17	9.7
6					to 28	9.7	29	269	134	43	18	9.4
7					2.9	9.7	26	266	145	36	17	10
8					2.3	12	25	306	151	48	17	16
9					2.3	10	27	338	132	60	20	14
10					2.1	9.4	34	322	138	57	22	13
11					2.0	9.4	37	354	111	52	20	12
12					2.2	10	59	362	110	47	18	11
13					2.4	9.7	73	422	108	44	16	16
14					2.5	9.4	54	344	108	42	16	32
15					2.6	9.4	52	228	105	41	17	23
16					2.7	9.4	53	179	105	40	21	20
17					2.8	10	51	215	108	35	19	18
18					2.9	12	44	242	128	33	18	20
19					3.0	16	39	237	128	34	16	20
20					3.1	22	36	183	112	35	15	19
21					3.2	21	35	162	100	31	14	18
22					3.4	24	40	159	93	28	14	25
23					3.8	25	53	174	93	27	13	32
24					4.4	25	84	194	89	25	12	32
25					5.2	20	105	222	87	24	12	31
26					6.0	18	137	242	84	22	12	30
27					6.4	16	166	253	79	22	11	28
28					10	17	148	185	73	21	11	26
29						19	167	132	67	23	12	29
30						20	183	140	65	22	12	33
31						22		138		20	11	
Total					78.2	451.1	1887	7334	3344	1188	495	587.5
Mean					3.55	14.6	62.9	237	111	38.3	16.0	19.6
Max.					10	25	183	422	151	67	22	33
Min.					2.0	9.4	22	132	65	20	11	9.4
Acres-ft.					155	895	3740	14550	6630	2360	982	1170

Total run-off for period=30,480 acre-feet.

Discharge of Smith Fork Near Crawford, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	31	19	14	13	14	22	135	296	70	18	9.4
2	21	32	18	13	13	14	30	140	306	64	17	9.1
3	25	32	18	13	13	15	48	140	288	58	17	9.1
4	33	32	18	13	13	15	64	138	280	55	16	9.4
5	30	32	18	12	13	15	82	151	269	58	16	9.7
6	30	30	17	10	13	15	74	167	262	57	16	9.7
7	28	27	17	10	13	15	70	219	318	55	15	9.4
8	29	23	17	12	13	16	86	280	316	53	14	8.8
9	29	24	16	14	12	16	100	330	280	48	14	8.8
10	28	23	16	14	12	15	115	382	273	45	13	9.1
11	28	22	16	14	13	15	130	394	266	43	14	11
12	27	21	16	14	13	15	160	368	266	40	16	9.7
13	40	*22	16	14	14	15	200	290	235	36	14	9.4
14	72	22	16	14	14	15	230	240	206	35	13	9.1
15	52	23	15	13	14	14	235	222	183	35	12	8.5
16	45	22	15	13	13	15	220	228	176	33	12	8.2
17	43	22	15	13	12	14	235	237	190	35	12	7.9
18	39	24	14	13	12	14	235	235	185	36	12	8.2
19	37	22	14	12	*13	14	210	269	201	28	12	8.5
20	36	21	14	12	13	14	180	302	176	27	12	8.8
21	36	13	15	12	14	14	200	380	176	26	12	8.5
22	36	11	15	13	14	15	240	432	169	24	12	8.5
23	33	11	15	13	14	17	300	436	151	22	12	8.2
24	34	12	14	13	15	20	250	398	134	23	12	8.2
25	36	16	14	14	15	19	220	386	121	24	12	8.2
26	39	21	14	14	15	18	195	372	110	22	11	7.9
27	36	21	13	*14	14	16	180	368	97	22	10	7.9
28	38	20	13	14	14	16	170	342	81	22	10	6.6
29	38	19	14	14		17	165	386	76	20	10	6.4
30	35	19	14	13		17	150	338	73	19	10	6.4
31	33		14	13		18		330		18	9.4	
Total	1091	670	480	404	374	482	4796	9035	6160	1153	405.4	258.6
Mean	35.2	22.3	15.5	13.0	13.4	15.5	160	291	205	37.2	13.1	8.62
Max.	72	32	19	14	15	20	300	436	318	70	18	11
Min.	21	11	13	10	12	14	22	135	73	18	9.4	6.4
Acres-ft.	2160	1330	952	801	742	956	9510	17920	12220	2290	804	513

Total run-off for water year=50,200 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East Muddy Creek Near Bardine, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	32	16	....	....	....	17	50	330	392	122	35	30
2....	29	16	....	....	....	19	42	345	374	113	36	30
3....	25	18	....	....	....	18	41	522	374	105	36	30
4....	22	19	....	....	....	16	40	760	345	100	36	30
5....	31	18	....	....	....	15	43	550	356	95	36	29
6....	38	*16	....	....	....	*14	41	558	330	90	38	29
7....	29	19	....	....	....	14	37	566	380	90	37	29
8....	25	19	....	....	....	14	35	750	398	80	36	29
9....	25	18	....	....	....	14	41	880	340	76	46	28
10....	23	18	....	....	....	12	54	1020	305	71	62	28
11....	22	....	....	....	....	14	52	1200	264	69	37	28
12....	20	....	....	....	....	13	70	1340	228	67	34	28
13....	20	....	....	....	....	14	82	1700	214	60	32	34
14....	19	....	....	....	....	15	76	1560	203	57	31	55
15....	18	....	....	....	....	14	*72	1250	206	53	31	36
16....	18	....	....	....	....	14	69	1010	214	51	37	32
17....	18	....	....	....	....	15	64	1020	228	49	37	31
18....	18	....	....	....	....	17	60	1020	255	44	42	32
19....	18	....	....	....	....	21	53	850	278	44	37	33
20....	18	....	....	....	....	27	54	606	273	49	36	32
21....	16	....	....	....	....	30	56	614	264	43	34	30
22....	16	....	....	....	....	33	67	657	250	40	34	32
23....	16	....	....	....	....	36	79	630	260	38	33	35
24....	16	....	....	....	....	34	111	622	305	41	32	37
25....	15	....	....	....	....	32	144	614	242	41	32	36
26....	16	....	....	....	....	28	170	666	210	40	31	35
27....	20	....	....	....	....	25	257	630	186	40	31	33
28....	18	....	....	....	....	27	289	522	168	38	31	32
29....	16	....	....	....	....	30	270	473	147	36	31	32
30....	18	Nov. 1	....	....	....	32	298	431	131	36	32	35
31....	16	to 10	....	....	....	36	....	424	....	36	31	....
Total	651	177	....	....	....	660	2822	24120	8120	1914	1104	970
Mean	21.0	17.7	....	....	....	21.3	94.1	778	271	61.7	35.6	32.3
Max.	38	19	....	....	....	36	298	1700	398	122	62	55
Min.	15	16	....	....	....	12	35	330	131	36	31	28
Acre-ft.	1290	351	....	....	....	1310	5600	47840	16110	3800	2190	1920

Total run-off for period=80,110 acre-feet.

Discharge of East Muddy Creek Near Bardine, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	32	51	31	23	21	24	40	300	529	83	30	22
2....	32	51	31	23	21	24	50	350	508	76	30	22
3....	36	51	31	23	21	24	62	335	466	71	30	21
4....	43	51	31	23	21	24	84	335	410	67	30	21
5....	38	48	31	23	21	24	130	380	392	60	29	20
6....	42	48	31	23	21	24	170	392	392	60	28	19
7....	38	42	31	23	21	24	160	450	410	58	27	19
8....	38	42	31	23	21	24	150	540	380	57	27	18
9....	38	46	31	23	21	24	170	640	340	53	27	17
10....	36	46	31	23	21	24	200	760	320	53	26	17
11....	35	43	31	23	21	24	286	840	330	49	26	18
12....	36	43	31	23	21	24	286	700	325	48	26	18
13....	102	44	31	23	21	24	291	620	286	46	27	17
14....	122	42	31	23	21	24	296	520	264	49	26	16
15....	83	42	31	23	21	24	374	445	237	49	25	16
16....	74	42	31	23	21	24	410	445	206	48	24	15
17....	67	44	31	23	21	24	466	431	210	48	24	15
18....	62	46	31	23	21	24	480	424	206	51	24	14
19....	62	44	31	23	21	24	362	487	196	44	24	15
20....	60	42	31	23	21	24	356	529	178	41	24	15
21....	58	40	31	23	21	24	380	684	164	36	24	16
22....	58	24	31	23	21	24	450	790	147	35	24	16
23....	53	22	31	23	21	24	580	820	137	33	24	16
24....	49	26	31	23	21	24	450	920	131	32	25	15
25....	58	34	31	23	21	24	374	860	122	31	25	15
26....	62	44	31	*23	21	24	362	980	113	31	24	15
27....	53	46	31	23	21	24	350	920	102	31	24	15
28....	58	44	31	23	21	24	330	750	92	32	24	15
29....	60	44	31	23	....	24	320	702	88	32	24	14
30....	55	42	31	23	....	24	315	639	83	31	23	14
31....	46	....	31	23	....	24	....	574	....	30	22	....
Total	1686	1274	961	713	588	744	8734	18562	7764	1465	797	506
Mean	54.4	42.5	31	23	21	24	291	599	259	47.3	25.7	16.9
Max.	122	51	....	....	....	....	580	980	529	83	30	22
Min.	32	22	....	....	....	....	40	300	83	30	22	14
Acre-ft.	3340	2530	1910	1410	1170	1480	17320	36820	15400	2910	1580	1000

Total run-off for water year=86,870 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of Gunnison River Near Somerset, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	214	76	54	50	62	88	286	1780	1970	952	170	103
2	172	76	54	47	56	95	225	2520	1950	856	157	97
3	159	81	52	45	63	83	214	2430	1950	848	151	86
4	140	100	52	45	66	72	214	3040	1930	824	148	78
5	146	72	54	48	69	81	247	2480	1960	776	145	74
6	214	*86	54	52	70	73	221	2380	1870	706	151	73
7	178	86	54	54	70	70	197	2360	2060	685	167	71
8	159	83	52	54	68	66	191	2690	2140	671	206	124
9	149	86	52	52	66	73	225	3420	1780	644	227	112
10	143	93	54	53	66	58	306	3660	1590	585	252	97
11	130	68	55	56	66	75	298	3960	1380	531	186	90
12	118	75	50	58	66	62	411	4300	1220	486	164	88
13	112	44	45	60	66	69	470	4800	1150	455	164	109
14	103	50	42	62	65	81	380	4490	1200	430	142	294
15	98	57	42	60	65	72	394	3810	1280	411	145	203
16	112	61	48	62	64	72	385	3240	1470	389	154	151
17	124	63	52	60	65	76	359	3350	1590	368	164	127
18	121	66	54	66	66	98	318	3450	1810	351	173	133
19	118	68	54	61	68	130	290	3090	1970	385	157	139
20	115	68	54	63	66	152	256	2360	1910	455	154	127
21	109	66	50	58	69	156	271	2300	1840	359	136	115
22	93	63	47	58	72	175	318	2440	1870	314	127	127
23	81	59	48	58	70	201	416	2440	1880	294	118	183
24	81	56	50	58	78	184	618	2560	1920	286	109	180
25	78	52	54	58	76	165	808	2710	1700	279	112	173
26	78	49	52	56	72	146	979	2810	1570	260	112	170
27	100	47	*52	*61	66	140	1340	2820	1390	249	115	164
28	93	51	52	58	62	165	1560	2420	1260	224	109	148
29	83	53	54	63	....	175	1540	2170	1130	206	112	151
30	86	54	54	65	....	181	1690	2060	1030	196	121	213
31	86	....	54	65	....	201	....	2090	....	183	109	....
Total	3793	2009	1595	1768	1880	3535	15427	90430	49770	14658	4657	4000
Mean	122	67.0	51.5	57.0	67.1	114	514	2917	1659	473	150	133
Max.	214	100	55	66	78	201	1690	4800	2140	952	252	294
Min.	78	44	42	45	56	58	191	1780	1030	183	109	71
Ac.-ft.	7520	3980	3160	3510	3730	7010	30600	179400	98720	29070	9240	7330

Total run-off for water year=383,900 acre-feet.

Discharge of North Fork of Gunnison River Near Somerset, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	188	267	176	102	92	91	204	1110	2640	748	188	117
2	170	275	155	97	94	91	279	1350	2650	698	207	114
3	191	271	155	100	91	95	372	1300	2520	643	207	104
4	279	271	155	97	91	93	480	1470	2370	622	182	107
5	256	264	138	84	91	97	739	1590	2350	594	170	104
6	256	256	109	70	93	100	650	1600	2500	580	164	95
7	227	231	120	90	93	97	622	1920	2600	568	158	91
8	231	261	118	105	93	97	706	2300	2440	526	150	86
9	238	217	118	110	86	112	874	2760	2290	500	144	80
10	231	207	120	102	84	104	1040	3260	2210	465	136	82
11	227	194	122	102	84	102	1410	3580	2370	430	130	104
12	224	191	112	100	95	97	1680	3560	2340	385	191	102
13	420	201	112	100	93	102	1940	2690	2110	372	194	97
14	629	185	110	100	97	102	2140	2180	1940	380	164	89
15	465	185	110	94	84	86	2260	2030	1680	376	150	82
16	394	182	110	96	82	100	2060	2080	1740	347	138	79
17	359	198	110	100	78	84	2300	2080	1940	347	133	77
18	334	214	110	94	74	93	2240	2040	1960	460	127	74
19	318	194	104	92	*76	104	1720	2260	1940	363	122	74
20	306	185	104	90	86	86	1650	2440	1770	318	138	76
21	306	112	117	88	94	80	1840	2900	1640	283	144	76
22	318	100	117	87	92	102	2160	3220	1530	264	130	76
23	286	91	95	88	91	130	2900	3610	1430	249	122	72
24	267	100	98	92	102	150	2260	3820	1340	231	136	72
25	314	150	100	94	91	127	1920	3640	1220	224	150	71
26	342	190	94	*97	93	114	1730	3900	1090	210	148	68
27	310	180	98	104	95	109	1610	3950	1000	201	140	68
28	334	180	94	95	80	112	1430	3280	838	214	132	68
29	340	176	100	97	....	127	1310	3160	766	207	130	66
30	310	173	110	95	....	144	1200	2930	766	204	122	66
31	285	....	105	88	....	158	....	2790	....	188	120	....
Total	9355	5841	3596	2950	2495	3286	43726	80800	55980	12197	4667	2537
Mean	302	195	116	95.2	89.1	106	1458	2606	1866	393	151	84.6
Max.	629	275	176	110	102	158	2900	3950	2650	748	207	117
Min.	170	91	94	76	74	80	204	1110	766	188	120	66
Ac.-ft.	18560	11590	7130	5550	4950	6520	86730	160300	111000	24190	9260	5030

Total run-off for water year=451,100 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Anthracite Creek Near Floresta, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....									221	146	14	3.5
2.....									230	132	13	3.2
3.....									225,	137	12	3.0
4.....									239	139	12	2.9
5.....									253	128	12	2.8
6.....									253	112	12	2.5
7.....									251	114	13	2.6
8.....									234	111	13	5.2
9.....									180	103	13	4.2
10.....									150	87	15	4.1
11.....									132	77	12	3.9
12.....									118	71	11	3.6
13.....									119	60	9.5	5.9
14.....									146	57	8.4	12
15.....								May 17	178	54	8.4	8.2
16.....							to 31	216	48	8.2	6.5	
17.....								301	256	45	7.9	5.9
18.....								311	329	44	7.7	6.3
19.....								251	371	52	7.4	5.9
20.....								184	342	50	6.7	5.6
21.....								201	329	38	6.3	4.9
22.....								225	340	32	5.9	8.2
23.....								234	342	30	5.4	12
24.....								258	311	28	5.2	12
25.....								322	275	27	4.6	12
26.....								316	258	24	3.8	12
27.....								282	225	22	3.5	11
28.....								214	205	20	3.4	10
29.....								205	188	18	3.6	14
30.....								216	158	16	3.9	19
31.....								232	15	15	3.5	...
Total								3752	7074	2037	265.3	212.9
Mean..								250	236	65.7	8.56	7.10
Max...								322	371	146	15	19
Min...								184	118	15	3.4	2.5
Acre-ft.								7440	14030	4040	526	422

Total run-off for period==26,460 acre-feet.

Discharge of Anthracite Creek Near Floresta, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	15	17						26	301	106	13	4.2
2.....	12	17						26	296	101	15	4.1
3.....	17	17						22	368	97	13	3.9
4.....	23	17						27	253	92	12	4.1
5.....	19	16						29	282	91	10	4.1
6.....	18	15						32	335	87	9.7	4.2
7.....	15	14						51	374	83	8.7	4.2
8.....	15	15						79	335	75	7.9	3.6
9.....	17	17						114	301	72	7.4	3.5
10.....	15	15						143	319	61	7.0	3.5
11.....	15	14						164	374	52	6.7	5.4
12.....	15	16					April 13	145	363	45	16	4.7
13.....	51						to 30	48	335	40	15	4.1
14.....	46							49	89	294	11	3.5
15.....	34							57	89	253	38	3.0
16.....	28							51	97	289	34	8.2
17.....	24							59	101	311	37	7.4
18.....	21							54	112	322	52	7.0
19.....	20							43	136	316	38	6.5
20.....	19							38	160	277	30	6.3
21.....	26							44	208	246	26	5.9
22.....	24							61	256	225	22	5.4
23.....	22							77	301	214	21	5.4
24.....	20							53	340	199	19	6.7
25.....	24							43	371	176	18	7.7
26.....	22							37	420	162	16	6.7
27.....	21							33	406	146	15	5.8
28.....	22							28	332	118	19	5.2
29.....	20							25	304	109	17	4.9
30.....	18	Nov. 1						23	275	111	15	4.7
31.....	16	to 12						284	...	13	4.4	...
Total	674	190						823	5245	8004	1470	259.8
Mean..	21.7	15.8						45.7	169	267	47.4	8.38
Max...	51	17						77	420	374	106	16
Min...	12	14						23	22	109	13	4.4
Acre-ft.	1340	377						1630	10400	15880	2920	515

Total run-off for period==33,250 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Cow Creek Below Overland Reservoir Near Bowie, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	0.4	35	.....	.....	.....	.....	.....	.....	53	22	34	25
2....	0.5	34	.....	.....	.....	.....	.....	.....	88	20	35	26
3....	0.6	33	.....	.....	.....	.....	.....	.....	103	20	35	26
4....	0.5	33	.....	.....	.....	.....	.....	.....	96	18	35	26
5....	0.4	31	.....	.....	.....	.....	.....	.....	126	19	35	25
6....	2.9	30	.....	.....	.....	.....	.....	.....	133	17	35	23
7....	10	29	.....	.....	.....	.....	.....	.....	133	16	35	1.6
8....	10	27	.....	.....	.....	.....	.....	.....	119	18	35	0
9....	14	26	.....	.....	.....	.....	.....	.....	119	18	35	0
10....	26	24	.....	.....	.....	.....	.....	.....	119	18	35	0
11....	26	22	.....	.....	.....	.....	.....	.....	130	18	33	0
12....	26	20	.....	.....	.....	.....	.....	.....	135	19	0.3	0
13....	27	16	.....	.....	.....	.....	.....	.....	108	20	0.2	0
14....	29	8.0	.....	.....	.....	.....	.....	.....	81	22	0.2	0
15....	29	6.5	.....	.....	.....	.....	.....	.....	65	22	0.2	0
16....	29	6.8	.....	.....	.....	.....	.....	.....	68	25	0.2	0
17....	38	5.8	.....	.....	.....	.....	.....	.....	31	26	6.5	0
18....	41	.....	.....	.....	.....	.....	.....	.....	86	25	22	0
19....	41	.....	.....	.....	.....	.....	.....	.....	83	23	26	0
20....	41	.....	.....	.....	.....	.....	.....	.....	79	25	26	0
21....	41	.....	.....	.....	.....	.....	.....	.....	69	26	26	0
22....	41	.....	.....	.....	.....	.....	.....	.....	57	26	26	0
23....	40	.....	.....	.....	.....	.....	.....	.....	48	29	26	0
24....	40	.....	.....	.....	.....	.....	.....	.....	43	30	26	0
25....	39	.....	.....	.....	.....	.....	.....	.....	33	33	26	0
26....	39	.....	.....	.....	.....	.....	.....	.....	29	34	26	0
27....	38	.....	.....	.....	.....	.....	.....	.....	28	34	26	0
28....	37	.....	.....	.....	.....	.....	.....	.....	27	35	26	0
29....	37	.....	.....	.....	.....	.....	.....	.....	24	34	26	0
30....	37	Nov. 1	.....	.....	.....	.....	.....	.....	21	34	26	0
31....	36	to 17	.....	.....	.....	.....	.....	.....	.....	34	26	.....
Total	817.3	387.1	.....	.....	.....	.....	.....	.....	2384	760	749.6	152.6
Mean..	26.4	22.8	.....	.....	.....	.....	.....	.....	79.5	24.5	24.2	5.09
Max..	41	35	.....	.....	.....	.....	.....	.....	135	35	35	26
Min..	0.4	5.8	.....	.....	.....	.....	.....	.....	21	16	0.2	0
Acre-ft.	1620	768	.....	.....	.....	.....	.....	.....	4730	1510	1490	303

Total run-off for period=10,420 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Minnesota Creek Near Paonia, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.6	22	6.8	5.8	5.7	7.0	21	104	166	56	25	11
2	8.5	16	6.8	5.8	5.1	7.0	25	110	163	52	25	11
3	10	15	6.8	5.8	5.7	7.0	29	110	159	48	24	11
4	13	14	6.8	5.8	5.7	7.0	42	108	151	46	22	8.1
5	11	14	6.8	5.8	5.7	7.0	41	120	147	44	22	3.5
6	14	14	6.8	5.8	5.7	7.0	34	140	148	43	9.8	3.4
7	10	13	6.8	5.8	5.7	7.0	38	150	152	42	4.7	3.2
8	10	16	6.8	5.8	5.7	7.0	39	160	150	40	4.6	3.2
9	11	15	6.8	5.8	5.1	7.0	48	167	150	37	3.9	3.2
10	10	12	6.8	5.8	5.7	7.0	60	175	144	34	3.6	3.1
11	10	11	6.8	5.8	5.7	7.0	78	184	143	32	3.5	3.7
12	10	9	6.8	5.8	5.7	7.0	88	173	146	29	6.0	3.5
13	24	9	6.8	5.8	5.7	7.0	92	154	141	28	4.7	3.3
14	28	9	6.8	5.8	5.7	7.0	115	136	134	28	4.2	3.1
15	21	9	6.8	5.8	5.7	7.0	112	135	127	27	3.9	3.1
16	20	9	6.8	5.8	5.7	7.0	107	135	124	27	3.8	2.9
17	19	9	6.8	5.8	5.7	7.0	112	135	127	30	4.7	2.9
18	18	9	6.8	5.8	5.7	7.0	110	134	125	30	5.3	3.1
19	18	9	6.8	5.8	*5.7	7.0	97	142	123	27	4.7	3.1
20	18	9	6.8	5.8	5.7	7.0	92	152	119	24	12	2.8
21	18	9	6.8	5.8	5.7	7.0	104	167	116	21	13	2.6
22	18	9	6.8	5.8	5.7	7.0	107	180	114	18	16	2.4
23	17	9	6.8	5.8	5.7	7.0	180	165	108	16	14	2.4
24	16	9	6.8	5.8	5.7	7.0	160	180	100	16	15	2.2
25	27	9	6.8	5.8	5.7	7.0	139	173	90	15	11	2.2
26	26	9	6.8	*5.8	5.7	7.0	133	177	80	14	3.1	2.7
27	19	9	6.8	5.8	5.7	7.0	127	180	74	28	2.8	2.8
28	23	9	6.8	5.8	5.7	7.0	123	169	60	30	6.6	2.7
29	20	9	6.8	5.8	...	7.0	122	163	58	28	13	2.7
30	17	9	6.8	5.8	...	16	112	162	56	26	13	2.7
31	20	...	6.8	5.8	...	16	...	167	...	25	12	...
Total	514.1	333	210.8	179.8	159.6	235.0	2687	4707	3695	961	321.9	117.6
Mean	16.6	11.1	6.80	5.8	5.7	7.58	89.6	152	123	31.0	10.4	3.92
Max	28	22	...	...	...	...	180	184	166	56	25	11
Min	8.5	...	...	...	...	...	21	104	56	14	2.8	2.2
Acre-ft.	1020	660	418	357	317	466	5330	9340	7330	1910	638	233

Total run-off for water year=28,020 acre-feet.

*Discharge measurement made on this day.

Discharge of East Fork of Minnesota Creek Near Paonia, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	3.8	...	...	...	...	...	6.5	31	15	6.0	1.6
2	2.1	3.7	...	...	...	...	...	6.5	34	15	6.0	1.4
3	2.5	3.7	...	...	...	...	...	6.8	33	15	5.8	1.2
4	3.2	3.7	...	...	...	...	...	7.2	47	14	5.6	1.2
5	2.6	3.4	...	...	...	...	...	8.6	52	13	5.4	1.2
6	2.8	3.2	...	...	...	...	...	9.3	50	12	5.2	1.2
7	2.5	2.8	...	...	...	...	...	14	49	11	5.0	1.2
8	2.8	4.8	...	...	...	...	...	19	44	11	4.9	1.2
9	3.1	3.0	...	...	...	...	...	25	43	11	4.7	1.2
10	2.6	1.7	...	...	...	...	...	36	48	9.5	4.6	1.2
11	2.5	1.4	...	...	...	...	...	40	50	9.5	4.6	1.5
12	3.1	...	...	...	...	...	...	34	52	9.5	5.8	1.4
13	9.3	...	...	...	...	...	...	25	50	9.0	5.0	1.3
14	11	...	...	...	...	...	...	22	48	9.0	4.9	1.3
15	8.6	...	...	...	...	...	...	23	38	9.0	4.7	1.2
16	7.2	...	...	...	...	...	...	30	35	8.5	4.6	1.2
17	6.2	...	...	...	...	...	...	35	35	8.5	4.4	1.2
18	5.8	...	...	...	...	...	...	38	35	8.5	4.3	1.2
19	6.0	...	...	...	...	...	...	41	35	8.0	4.3	1.2
20	5.5	...	...	...	...	...	...	49	35	7.8	4.0	1.2
21	5.8	...	...	...	...	...	...	61	34	7.5	3.2	1.2
22	5.0	...	...	...	...	...	...	29	99	29	7.2	3.7
23	4.8	...	...	...	...	...	...	20	115	27	7.0	3.5
24	4.5	...	...	...	...	...	...	12	86	27	6.8	4.7
25	6.2	...	...	...	...	...	...	12	28	20	6.4	4.6
26	5.8	...	...	...	...	...	...	10	26	15	6.2	4.0
27	5.2	...	...	...	...	...	...	9.0	41	15	6.2	3.5
28	5.5	...	...	...	...	...	...	7.9	37	18	6.4	3.0
29	4.8	...	...	...	...	...	...	7.2	48	16	6.2	2.2
30	4.2	Nov. 1	...	...	...	...	...	6.2	42	15	6.2	2.0
31	3.8	to 11	...	...	...	...	...	...	35	...	6.0	1.8
Total	147.1	35.2	...	...	...	...	113.3	1093.0	1060	285.9	1360	37.3
Mean	4.75	3.20	...	...	...	...	12.6	35.3	35.3	9.22	4.39	1.24
Max	11	4.8	...	...	...	...	29	115	52	15	6.0	1.6
Min	2.1	1.4	...	...	...	...	6.2	6.5	15	6.0	1.8	1.2
Acre-ft.	292	70	...	...	...	...	225	2170	2100	567	270	74

Total run-off for period=5,768 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Leroux Creek Near Cedaredge, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	44	12	.....	.....	.....	.....	.....	110	337	68	30	23
2....	45	13	.....	.....	.....	.....	.....	115	349	62	29	22
3....	50	13	.....	.....	.....	.....	.....	148	349	58	28	20
4....	38	12	.....	.....	.....	.....	.....	219	310	57	29	19
5....	67	10	.....	.....	.....	.....	.....	168	298	57	30	20
6....	65	*14	.....	.....	.....	.....	.....	164	280	56	33	19
7....	50	12	.....	.....	.....	.....	.....	15	172	563	60	32
8....	44	12	.....	.....	.....	.....	.....	16	267	369	67	28
9....	44	11	.....	.....	.....	.....	.....	16	402	260	68	29
10....	41	9.5	.....	.....	.....	.....	.....	21	352	235	62	30
11....	38	9.0	.....	.....	.....	.....	.....	19	409	208	56	26
12....	35	8.5	.....	.....	.....	.....	.....	20	604	182	54	23
13....	32	8.0	.....	.....	.....	.....	.....	21	884	182	54	22
14....	27	8.5	.....	.....	.....	.....	.....	19	785	180	52	24
15....	24	9.0	.....	.....	.....	.....	.....	20	517	178	51	30
16....	22	9.5	.....	.....	.....	.....	.....	20	484	182	52	34
17....	21	10	.....	.....	.....	.....	.....	18	555	182	50	34
18....	20	10	.....	.....	.....	.....	.....	17	572	205	48	33
19....	19	9.7	.....	.....	.....	.....	.....	17	362	225	45	26
20....	17	9.2	.....	.....	.....	.....	.....	17	298	235	38	24
21....	17	9.2	.....	.....	.....	.....	.....	19	344	186	37	26
22....	15	9.2	.....	.....	.....	.....	.....	22	423	172	34	28
23....	15	9.0	.....	.....	.....	.....	.....	27	476	172	33	27
24....	13	9.2	.....	.....	.....	.....	.....	41	445	184	37	26
25....	12	9.2	.....	.....	.....	.....	.....	53	464	147	42	26
26....	13	9.2	.....	.....	.....	.....	.....	67	577	124	33	26
27....	14	9.5	.....	.....	.....	.....	.....	75	509	110	32	27
28....	14	8.8	.....	.....	.....	.....	.....	79	394	94	31	27
29....	13	8.5	.....	.....	.....	.....	.....	73	325	85	31	26
30....	13	8.3	.....	.....	.....	.....	.....	107	404	74	30	26
31....	13	.....	.....	.....	.....	.....	.....	.....	362	.....	31	24
Total	895	300	.....	.....	.....	.....	.....	819	12310	6657	1486	863
Mean..	28.9	10.0	.....	.....	.....	.....	.....	34.1	397	222	47.9	27.8
Max...	67	14	.....	.....	.....	.....	.....	107	884	563	68	34
Min...	12	8.0	.....	.....	.....	.....	.....	15	110	74	30	22
Acre-ft.	1780	595	.....	.....	.....	.....	.....	1620	24420	13200	2950	1710

Total run-off for period = 47,960 acre-feet.

*Discharge measurement made on this day.

Discharge of Leroux Creek Near Cedaredge, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	28	47	.....	.....	.....	.....	.....	57	520	61	33	8.7
2....	30	42	.....	.....	.....	.....	.....	62	520	57	34	9.6
3....	70	41	.....	.....	.....	.....	.....	60	461	57	31	9.8
4....	61	38	.....	.....	.....	.....	.....	77	456	57	30	11
5....	47	36	.....	.....	.....	.....	.....	90	525	57	28	12
6....	44	35	.....	.....	.....	.....	.....	99	479	61	28	14
7....	44	28	.....	.....	.....	.....	.....	136	443	63	24	13
8....	58	26	.....	.....	.....	.....	.....	168	384	56	22	11
9....	56	29	.....	.....	.....	.....	.....	232	356	53	21	11
10....	50	27	.....	.....	.....	.....	.....	320	344	59	21	11
11....	45	.....	.....	.....	.....	.....	.....	300	316	56	22	19
12....	50	.....	.....	.....	.....	.....	.....	258	290	51	32	14
13....	200	.....	.....	.....	.....	.....	.....	164	258	45	28	12
14....	141	.....	.....	.....	.....	.....	.....	131	226	45	20	11
15....	104	.....	.....	.....	.....	.....	.....	127	206	51	16	11
16....	92	.....	.....	.....	.....	.....	.....	127	192	49	16	10
17....	82	.....	.....	.....	.....	.....	.....	128	185	47	16	9.8
18....	74	.....	.....	.....	.....	.....	.....	131	172	53	16	9.2
19....	70	.....	.....	.....	.....	.....	.....	160	158	60	15	9.2
20....	65	.....	.....	.....	.....	.....	.....	.....	262	137	50	15
21....	76	.....	.....	.....	.....	.....	.....	.....	389	130	46	15
22....	74	.....	.....	.....	.....	.....	.....	.....	150	416	119	45
23....	69	.....	.....	.....	.....	.....	.....	.....	168	466	107	45
24....	62	.....	.....	.....	.....	.....	.....	.....	116	535	100	44
25....	65	.....	.....	.....	.....	.....	.....	.....	106	365	96	44
26....	63	.....	.....	.....	.....	.....	.....	.....	86	874	88	42
27....	56	.....	.....	.....	.....	.....	.....	.....	74	974	82	39
28....	57	.....	.....	.....	.....	.....	.....	.....	68	754	75	37
29....	54	.....	.....	.....	.....	.....	.....	.....	58	830	67	38
30....	50	Nov. 1	.....	.....	.....	.....	.....	.....	60	545	65	37
31....	41	to 10	.....	.....	.....	.....	.....	.....	.....	510	.....	33
Total	2078	349	.....	.....	.....	.....	.....	.....	886	9947	7557	1538
Mean..	67.0	34.9	.....	.....	.....	.....	.....	.....	984	321	252	49.6
Max...	200	47	.....	.....	.....	.....	.....	.....	168	974	525	63
Min...	28	26	.....	.....	.....	.....	.....	.....	58	57	65	33
Acre-ft.	4120	692	.....	.....	.....	.....	.....	.....	1760	19730	14990	3050

Total run-off for period = 46,180 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Leroux Creek Near Hotchkiss, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								48	143	0	0.1	0.1
2								32	146	0	0.1	0.1
3							April 5	34	87	0	0.1	0.1
4							to 30	61	55	0	0.1	0.1
5								54	57	0	0.1	0.1
6								34	64	0	0.1	0.1
7								31	132	0	0.1	0.1
8								38	192	0	0.1	0.1
9								67	252	0	0.1	0.1
10								92	280	0	0.1	0.1
11								150	264	0	0.1	0.1
12								230	161	0	0.1	0.1
13								217	28	7.7	0.1	0.1
14								245	6.5	6.2	0	0.1
15								234	0.7	16	0	0.1
16								201	4.1	17	0	0.1
17								220	11	17	0	0.1
18								153	11	6.5	0	0.1
19								85	30	1.5	0.1	0.1
20								96	71	0.8	0.1	0.1
21								132	180	3.0	0.1	0.1
22								167	210	0.2	0.1	0.1
23								254	250	0.1	0.1	0.1
24								119	299	0.1	0.1	0.1
25								81	250	0.1	0.1	0.1
26								71	398	0.2	0.1	0.1
27								39	381	0.1	0.1	0.1
28								29	273	0	0.1	0.1
29								23	261	0	0.1	0.1
30								18	205	0	0.1	0.1
31									171		0.1	0.1
Total								3080	4587.3	755.5	1.3	3.1
Mean								103	148	25.2	0.4	0.1
Max.								254	398	146	0.1	0.1
Min.								18	0.7	0	0	0.1
Acres-ft.								6110	9100	1500	2.6	6.1

Total run-off for period=16,726 acre-feet.

Discharge of Currant Creek Near Eckert, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			11	11	8.4	8.0	23	39	0	0	0.1	0.1
2			11	10	8.0	7.6	36	45	0	0	0.1	0.1
3			12	10	9.3	8.0	45	42	0	0	0.1	0.1
4			14	9.0	9.3	7.8	52	55	0	0	0.1	0.1
5			12	8.0	10	8.0	62	63	0	0	0.1	0.1
6			8.8	7.8	9.3	8.8	62	40	0	0	0.1	0.1
7			8.4	13	11	7.5	56	55	0	0	0.1	0.1
8			8.4	12	9.8	7.5	58	73	0	0	0.1	0.1
9			9.8	12	8.4	11	71	86	0	0	0.1	0.1
10			11	11	8.4	12	78	90	0	0	0.1	0.1
11			11	11	6.7	11	92	91	0	0	0.1	0.1
12			11	11	8.8	18	92	85	0	0	0.1	0.1
13			11	11	7.5	18	94	61	0	0	0.1	0.1
14			11	11	8.8	14	100	50	0	0	0.1	0.1
15			11	11	8.4	11	101	34	0	0	0.1	0.1
16			11	12	7.6	10	93	19	0	0	0.1	0.1
17			12	12	7.8	9.3	93	8.8	0	0	0.1	0.1
18			11	9.3	6.6	11	79	8.0	0	0	0.1	0.1
19			9.3	10	7.2	13	66	12	0	0	0.1	0.1
20			10	12	7.8	9.8	65	13	0	0	0.1	0.1
21			10	12	8.2	8.4	78	26	0	0	0.1	0.1
22			12	12	8.4	11	86	46	0	0	0.1	0.1
23			9.3	12	8.0	18	105	50	0	0.1	0.1	0.1
24		Nov. 26	11	11	7.6	17	78	45	0	0.1	0.1	0.1
25		to 30	12	11	8.2	14	65	19	0	0.1	0.1	0.1
26		8.4	10	11	7.8	11	62	24	0	0.1	0.1	0.1
27		11	10	11	7.8	9.3	50	22	0	0.1	0.1	0.1
28		11	12	10	8.2	11	48	7.9	0	0.1	0.1	0.1
29		9.3	13	9.8		13	43	3.7	0	0.1	0.1	0.1
30		8.4	13	8.8		16	39	0	0	0.1	0.1	0.1
31			14	8.8		18		0		0.1	0.1	0.1
Total		48.1	341.0	332.5	233.3	358.0	2072	1213.4	0	0.9	3.1	3.0
Mean		9.62	11.0	10.7	8.33	11.5	69.1	39.1	0	0.03	0.10	0.10
Max.		11	14	13	11	18	105	91	0	0.1	0.1	0.1
Min.		8.4	8.4	7.8	6.6	7.5	23	0	0	0	0.1	0.1
Acres-ft.		95	676	660	463	710	4110	2410	0	1.8	6.1	6.0

Total run-off for period=9,140 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Surface Creek Below Park Reservoir Near Grand Mesa, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	27	36	1.6
2	66	26	44	0.5
3	68	25	41	0.5
4	65	24	41	0.5
5	69	25	40	0.5
6	70	58	39	0.5
7	95	58	36	0.5
8	85	61	36	0.5
9	66	61	34	0.5
10	54	60	33	0.5
11	41	64	32	0.5
12	29	65	30	0.5
13	34	65	28	0.5
14	47	26	25	0.5
15	53	25	23	0.5
16	57	52	17	0.5
17	57	45	16	0.5
18	56	36	14	0.5
19	52	38	12	0.5
20	48	53	11	0.5
21	45	50	9.2	0.5
22	47	50	8.2	0.5
23	48	50	7.5	0.5
24	47	52	8.5	0.5
25	43	51	8.5	0.5
26	37	50	7.2	0.5
27	33	50	6.5	0.5
28	32	50	6.5	0.5
29	30	48	8.0	0.5
30	28	47	8.0	0.5
31	68	.....	45	8.5	.....
Total	1566	1437	674.6	16.1
Mean	52.2	46.4	21.8	0.54
Max.	95	65	44	1.6
Min.	28	24	6.5	0.5
Acre-ft.	3110	2850	1340	32

Total run-off for period=7,330 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Surface Creek Near Cedaredge, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56	16						60	301	90	51	44
2	52	16						70	298	91	56	41
3	44	12						94	268	87	56	42
4	37	11						140	226	85	59	46
5	61	16						120	235	80	63	45
6	52	14						110	232	105	68	46
7	42	12						125	325	101	67	48
8	34	10						170	313	105	57	46
9	34							230	280	105	62	45
10	33							244	253	98	61	43
11	31							277	214	98	55	39
12	29							295	190	100	47	29
13	24							386	193	97	43	48
14	21							325	208	68	42	55
15	19							220	211	63	49	38
16	18							229	214	77	55	29
17	17							235	208	72	53	26
18	21							268	211	67	45	26
19	20							214	205	65	38	23
20	20							175	190	71	43	22
21	19							184	181	67	45	19
22	18							190	172	66	49	29
23	15							196	168	66	48	26
24	15							199	170	71	48	23
25	14							211	152	71	47	30
26	15							223	137	68	49	38
27	22							337	125	68	48	33
28	18							331	122	61	45	30
29	13							286	111	59	47	29
30	19	Nov. 1						295	101	59	46	29
31	16	to 8						280		59	47	
Total	849	107						6719	6214	2440	1589	1067
Mean	27.4	13.4						217	207	78.7	51.3	35.6
Max.	61	16						386	325	105	68	55
Min.	13	10						60	101	59	38	19
Acre-ft.	1680	212						13330	12330	4840	3150	2120

Total run-off for period=37,660 acre-feet.

Discharge of Surface Creek Near Cedaredge, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	56							196	96	57	48
2	26	53							255	88	77	65
3	43	52							226	83	82	54
4	37	52							221	78	77	52
5	32	53							267	74	70	52
6	30	48							282	88	60	44
7	29	44							282	88	53	42
8	32	39							279	154	47	32
9	29								279	152	44	32
10	27								261	157	33	38
11	27								240	154	36	47
12	36								212	118	57	44
13	190								193	115	40	14
14	150								196	111	19	16
15	88								177	97	30	15
16	75								167	84	20	22
17	68							May 19	172	89	18	23
18	63							to 31	169	106	31	22
19	63							157	172	97	37	18
20	60							185	152	77	63	28
21	70							235	132	74	65	28
22	66							240	120	91	45	27
23	64							240	118	91	43	26
24	62							229	118	77	41	27
25	65							240	113	78	44	27
26	63							267	91	72	64	17
27	62							243	86	72	63	15
28	61							218	96	77	50	14
29	60							218	91	76	52	14
30	57	Nov. 1						210	94	65	43	13
31	54	to 8						221		61	41	
Total	1815	397						2903	5457	2940	1502	916
Mean	58.5	49.6						223	182	94.8	48.5	30.5
Max.	190	56						267	282	157	82	65
Min.	26	39						157	86	61	18	13
Acre-ft.	3600	787						5760	10820	5830	2980	1820

Total run-off for period=31,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Surface Creek at Cedaredge, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	29	11	2.2	1.4	1.6	2.0	11	92	155	46	14	16
2.....	30	10	2.2	1.4	1.6	1.5	8.4	104	137	44	16	12
3.....	29	9.6	2.2	1.4	1.5	2.0	6.5	149	131	39	15	14
4.....	23	10	2.2	1.4	1.4	2.0	7.2	246	118	37	18	14
5.....	47	11	2.2	1.4	1.3	1.4	9.1	176	109	34	23	12
6.....	41	10	2.2	1.4	1.3	1.4	7.2	169	100	42	22	16
7.....	27	*9.6	2.2	1.4	1.4	*2.0	6.0	190	235	37	18	20
8.....	21	8.4	2.2	1.4	1.4	2.0	6.0	284	251	41	16	16
9.....	21	7.8	2.2	1.4	1.5	2.5	7.2	355	208	45	26	14
10.....	20	7.8	2.2	1.4	1.5	1.5	11	369	165	49	37	14
11.....	18	7.0	2.2	1.4	1.5	4.5	8.4	376	118	48	28	14
12.....	16	4.0	2.2	1.4	*1.5	3.0	9.8	465	98	51	26	13
13.....	14	3.5	2.2	1.4	1.4	2.0	9.1	553	94	51	24	30
14.....	12	3.7	2.2	1.4	1.4	2.5	8.4	404	100	37	22	51
15.....	11	4.0	2.2	1.4	1.4	2.5	9.1	290	102	37	23	24
16.....	9.6	4.3	2.2	1.4	1.4	3.0	9.8	240	100	44	35	21
17.....	9.0	4.5	2.2	1.4	1.5	2.0	8.4	273	94	37	25	22
18.....	7.2	4.7	2.2	1.4	1.5	2.5	8.4	251	86	32	23	16
19.....	6.0	4.7	2.2	1.4	1.5	3.5	8.4	194	76	30	19	7.2
20.....	5.1	4.3	2.2	1.4	1.5	4.5	9.1	143	62	26	15	4.0
21.....	5.1	3.7	2.2	1.4	1.5	4.0	8.4	146	55	19	14	7.8
22.....	6.0	3.4	2.2	1.4	1.5	5.0	9.1	146	54	19	15	16
23.....	5.1	3.2	2.2	1.4	1.5	6.5	10	149	60	19	14	16
24.....	6.6	3.1	2.2	1.4	1.5	6.0	16	143	70	23	16	15
25.....	7.8	3.2	2.2	1.4	1.5	5.0	23	137	63	28	18	26
26.....	8.4	3.1	2.2	1.4	2.0	4.5	37	143	58	28	14	32
27.....	11	3.0	2.2	*1.4	3.0	4.5	54	190	62	27	9.8	23
28.....	9.6	2.9	2.2	1.4	5.0	5.0	62	199	63	22	9.8	14
29.....	9.0	3.0	2.2	1.4	.....	5.5	65	165	60	20	13	13
30.....	9.6	3.3	2.2	1.4	.....	5.5	86	162	52	17	16	14
31.....	10	.....	2.2	1.4	.....	7.2	.....	158	.....	16	16	.....
Total	484.1	171.8	68.2	43.4	46.6	107.0	539.0	7061	3136	1048	600.6	528.0
Mean...	15.6	5.73	2.2	1.4	1.66	3.45	18.0	228	105	33.8	19.4	17.6
Max....	47	11	.....	.....	5.0	7.2	86	553	251	51	37	51
Min....	5.1	2.9	.....	.....	1.3	1.4	6.0	92	52	16	9.8	4.0
Acre-ft.	960	341	135	86	92	212	1070	14010	6220	2080	1190	1050

Total run-off for water year—27,450 acre-feet.

Discharge of Surface Creek at Cedaredge, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	11	44	12	4.6	4.2	4.2	10	45	134	50	16	23
2.....	11	42	12	4.6	4.2	4.2	11	48	130	41	20	34
3.....	31	41	12	4.6	4.2	4.2	13	45	124	39	18	22
4.....	26	41	12	4.6	4.2	4.2	16	56	112	38	17	15
5.....	19	41	12	4.6	4.2	4.2	20	68	138	39	14	12
6.....	18	40	12	4.6	4.2	4.2	20	72	159	46	20	11
7.....	20	40	12	4.6	4.2	4.2	19	112	155	46	20	9.7
8.....	20	39	12	4.6	4.2	4.2	21	171	134	77	17	6.2
9.....	19	31	12	4.6	4.2	4.2	34	215	127	67	17	6.7
10.....	17	29	12	4.6	4.2	4.2	48	263	117	67	13	12
11.....	15	26	12	4.6	4.2	4.2	68	245	106	65	13	18
12.....	18	25	12	4.6	4.2	4.2	95	175	95	49	24	13
13.....	191	24	12	4.6	4.2	4.2	134	117	74	46	18	13
14.....	171	23	12	4.6	4.2	4.2	179	90	70	46	9.0	9.7
15.....	112	24	12	4.6	4.2	4.2	191	85	57	45	15	9.7
16.....	65	25	12	4.6	4.2	4.2	163	77	60	31	12	11
17.....	57	26	12	4.6	4.2	4.2	175	65	72	20	8.1	10
18.....	49	24	12	4.6	4.2	4.2	124	81	74	38	12	11
19.....	42	24	12	4.6	4.2	4.2	90	90	72	42	12	12
20.....	39	24	12	4.6	*4.2	4.2	92	103	59	31	14	13
21.....	72	*26	12	4.6	4.2	4.2	127	167	54	28	6.7	12
22.....	56	26	12	4.6	4.2	*4.2	171	179	59	19	12	15
23.....	51	23	12	4.6	4.2	4.2	210	171	60	11	17	16
24.....	50	17	12	4.6	4.2	4.2	117	195	56	13	13	15
25.....	59	14	12	4.6	4.2	4.2	88	179	53	13	13	13
26.....	54	15	12	4.6	4.2	4.2	68	200	49	12	21	12
27.....	42	16	12	*4.6	4.2	4.2	59	205	49	8.4	18	11
28.....	49	16	12	4.6	4.2	4.2	54	159	50	7.8	18	9.0
29.....	51	16	12	4.6	.....	4.2	50	138	46	8.4	20	7.8
30.....	48	17	12	4.6	.....	4.2	45	124	50	12	20	7.8
31.....	44	.....	12	4.6	.....	4.2	.....	138	.....	14	19	.....
Total	1527	819	372	142.6	117.6	130.2	2512	4078	2595	1069.6	487.1	390.6
Mean...	49.3	27.3	12	4.6	4.2	4.2	83.7	132	86.5	34.5	15.7	13.0
Max....	191	44	.....	.....	.....	.....	210	263	159	77	24	34
Min....	11	14	.....	.....	.....	.....	10	45	46	7.8	6.7	6.2
Acre-ft.	3030	1620	738	283	233	258	4980	8090	5147	2120	966	775

Total run-off for water year—28,240 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ward Creek Below Deep Slough Reservoir Near Grand Mesa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.5	0	0	0	0	0	3	0	9.3	7.1	20	7.9
2.....	1.5	0	0	0	0	0	3	0	9.3	5.5	20	7.9
3.....	1.5	0	0	0	0	0	3	0	9.5	5.5	20	7.7
4.....	1.5	0	0	0	0	0	3	0	9.5	5.5	20	7.7
5.....	1.5	0	0	0	0	0	3	0	9.5	5.5	19	7.5
6.....	1.5	0	0	0	0	0	3	0	9.5	5.0	19	7.3
7.....	1.5	0	0	0	0	0	3	0	9.5	4.4	19	8.3
8.....	1.5	0	0	0	0	0	3	0	9.5	3.5	19	11
9.....	1.5	0	0	0	0	0	3	0	9.5	3.5	18	19
10.....	1.5	0	0	0	0	0	3	0	9.5	3.5	18	11
11.....	1.5	0	0	0	0	0	3	0	9.5	3.5	17	9.5
12.....	1.5	0	0	0	0	0	3	0	9.1	3.5	16	6.6
13.....	1.5	0	0	0	0	0	3	0	7.3	3.9	15	6.2
14.....	1.5	0	0	0	0	0	3	0	6.9	5.0	8.1	5.9
15.....	1.5	0	0	0	0	0	3	0	6.8	8.9	8.1	5.5
16.....	1.5	0	0	0	0	0	3	0	6.8	18	8.1	5.2
17.....	1.5	0	0	0	0	0	3	0	7.1	16	7.9	1.6
18.....	1.5	0	0	0	0	0	3	0	7.1	16	5.9	0.7
19.....	1.5	0	0	0	0	0	3	0	8.3	16	7.1	0.7
20.....	1.5	0	0	0	0	0	3	0	9.3	16	9.3	0.7
21.....	1.5	0	0	0	0	0	3	0	9.3	16	9.5	0.7
22.....	1.5	0	0	0	0	0	3	6.0	9.3	15	9.7	0.7
23.....	1.5	0	0	0	0	0	3	5.9	9.3	15	9.5	0.7
24.....	1.5	0	0	0	0	0	3	5.7	9.3	15	9.5	0.7
25.....	1.5	0	0	0	0	0	3	6.0	9.3	15	9.5	0.7
26.....	1.5	0	0	0	0	0	3	6.0	9.3	15	9.3	0.7
27.....	1.5	0	0	0	0	0	3	6.0	9.3	15	9.1	0.7
28.....	1.5	0	0	0	0	0	0	6.0	9.3	15	8.7	0.7
29.....	1.5	0	0	0	.....	0	0	6.0	8.9	18	8.5	0.7
30.....	1.5	0	0	0	.....	0	0	6.8	8.1	20	8.3	0.7
31.....	1.5	.....	0	0	.....	0	.....	8.5	.....	20	8.1	.....
Total	465	0	0	0	0	0	81	629	264.2	334.8	394.2	135.9
Mean	1.5	0	0	0	0	0	2.70	2.03	8.81	10.8	12.7	4.53
Max	.....	0	0	0	0	0	.....	8.5	9.5	20	20	11
Min	.....	0	0	0	0	0	0	0	6.8	3.5	5.9	0.7
Acre-ft.	92	0	0	0	0	0	161	125	524	664	782	270

Total run-off for water year==2,620 acre-feet.

Discharge of Ward Creek Near Cedaredge, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	18	26	24	0.3	0.2	0.3
2.....	24	32	24	0.3	0.2	0.2
3.....	27	29	20	0.3	0.2	0.2
4.....	28	29	19	0.3	0.2	0.3
5.....	27	29	17	0.3	0.2	0.3
6.....	24	31	17	0.3	0.2	0.2
7.....	22	36	17	0.2	0.2	0.1
8.....	27	38	15	0.2	0.2	0.1
9.....	30	40	13	0.2	0.2	0.1
10.....	36	44	13	0.2	0.2	0.1
11.....	46	44	14	0.2	0.2	0.6
12.....	53	41	13	0.2	2.6	0.3
13.....	51	36	8.7	0.2	0.2	0.2
14.....	54	32	7.1	0.3	0.1	0.1
15.....	48	31	3.7	0.2	0.1	0.1
16.....	44	31	1.3	0.2	0.1	0.1
17.....	45	31	0.7	0.2	2.7	0.1
18.....	43	32	0.6	1.5	2.4	0.1
19.....	41	34	0.4	0.3	0.3	0.1
20.....	41	32	2.6	0.2	0.1	0.1
21.....	42	32	1.3	0.2	0	0.1
22.....	43	34	0.5	0.2	0	0.1
23.....	48	35	0.5	0.2	0	0.1
24.....	43	35	0.4	0.2	0	0.1
25.....	43	37	0.3	0.2	0.1	0.1
26.....	35	44	0.3	0.2	0.1	0.1
27.....	31	40	0.3	0.2	0.2	0.1
28.....	29	38	0.3	0.2	0	0.1
29.....	26	33	0.3	0.2	0.1	0.1
30.....	27	31	0.3	0.2	0.1	0.1
31.....	36	.....	0.2	0.2	.....
Total	1096	1067	2356	8.3	11.6	4.7
Mean	36.5	34.4	7.85	0.27	0.37	0.16
Max	53	44	24	1.5	2.7	0.6
Min	18	26	0.3	0.2	0	0.1
Acre-ft.	2170	2120	467	16	23	9.3

Total run-off for period=4,810 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Kiser Creek Below Eggleston Reservoir at Grand Mesa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	6.5	2.5	0.1	0.1	0.1	0.1	7.0	0.1	2.0	8.0	4.0	3.2
2....	6.5	2.5	0.1	0.1	0.1	0.1	7.0	0.1	2.0	7.7	4.0	3.1
3....	6.5	2.5	0.1	0.1	0.1	0.1	7.0	0.1	2.0	7.1	4.0	3.1
4....	6.5	2.5	0.1	0.1	0.1	0.1	7.0	0.1	1.7	6.8	4.0	3.6
5....	6.5	2.5	0.1	0.1	0.1	0.1	7.0	0.1	1.7	6.8	3.0	3.8
6....	6.5	0.1	0.1	0.1	0.1	0.1	7.0	0.1	1.8	6.5	1.8	3.7
7....	6.5	0.1	0.1	0.1	0.1	0.1	7.0	0.1	1.9	6.2	1.8	3.4
8....	6.5	0.1	0.1	0.1	0.1	0.1	7.0	0.1	2.0	6.2	1.8	3.5
9....	6.5	0.1	0.1	0.1	0.1	0.1	7.0	0.1	2.0	5.6	1.8	3.4
10....	6.5	0.1	0.1	0.1	0.1	0.1	7.0	0.1	2.8	5.9	1.7	3.4
11....	6.5	0.1	0.1	0.1	0.1	0.1	7.0	0.1	3.1	5.6	1.8	3.3
12....	6.5	0.1	0.1	0.1	0.1	0.1	7.0	0.1	3.0	5.9	2.6	3.4
13....	6.5	0.1	0.1	0.1	0.1	0.1	7.0	0.1	3.0	5.9	2.5	3.4
14....	6.5	0.1	0.1	0.1	0.1	0.1	7.0	0.1	2.2	6.5	2.5	3.1
15....	6.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.1	6.8	2.4	3.6
16....	6.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.0	6.8	1.9	1.0
17....	6.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.6	7.7	1.5	0.9
18....	6.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4	1.0	1.3	0.8
19....	6.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.5	1.0	8.4	0.6
20....	6.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.5	9.6	2.2	0.7
21....	6.5	0.1	0.1	0.1	0.1	5.0	0.1	1.5	1.5	7.7	2.2	1.1
22....	6.5	0.1	0.1	0.1	0.1	5.0	0.1	1.5	1.4	6.8	3.2	2.3
23....	6.5	0.1	0.1	0.1	0.1	5.0	0.1	1.5	1.3	1.0	3.2	2.3
24....	6.5	0.1	0.1	0.1	0.1	5.0	0.1	1.5	1.2	2.1	3.2	2.3
25....	6.5	0.1	0.1	0.1	0.1	5.0	0.1	1.5	1.2	3.0	3.2	2.3
26....	6.5	0.1	0.1	0.1	0.1	5.0	0.1	1.5	1.1	2.9	4.2	2.3
27....	6.5	0.1	0.1	0.1	0.1	5.0	0.1	1.5	1.0	2.9	4.0	2.3
28....	6.5	0.1	0.1	0.1	0.1	5.0	0.1	1.5	9.6	2.8	3.8	2.3
29....	6.5	0.1	0.1	0.1	0.1	5.0	0.1	2.0	9.2	3.2	3.4	2.3
30....	6.5	0.1	0.1	0.1	....	7.0	0.1	2.0	8.8	4.0	3.3	2.3
31....	6.5	....	0.1	0.1	....	7.0	....	2.0	....	4.0	3.2	....
Total	201.5	15.0	3.1	3.1	2.8	61.0	99.6	20.0	478.6	415.1	843.4	503.4
Mean..	6.5	0.5	0.1	0.1	0.1	1.97	3.32	0.65	16.0	13.4	27.2	16.8
Max....	....	....	....	....	....	....	....	....	3.1	4.0	4.2	3.8
Min....	....	....	....	....	....	....	....	....	2.0	5.6	8.4	0.6
Acre-ft.	400	30	6.1	6.1	5.6	121	198	40	949	823	1670	998

Total run-off for water year=5,250 acre-feet.

Discharge of Kiser Creek Near Cedaredge, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	11	9.7	19	2.9	2.3	1.6
2....	16	11	21	2.9	2.3	1.6
3....	17	10	22	2.9	2.2	1.6
4....	17	6.8	25	2.9	2.3	1.7
5....	17	4.9	27	2.9	1.9	1.9
6....	13	4.7	26	2.9	1.9	1.8
7....	9.4	4.7	25	2.9	1.9	1.7
8....	6.8	4.7	21	2.4	2.0	1.8
9....	8.8	6.0	18	2.6	1.9	1.7
10....	12	6.6	17	2.6	2.0	1.7
11....	15	7.0	20	2.6	2.1	1.9
12....	18	7.0	20	2.6	2.8	2.2
13....	19	4.9	19	2.9	2.0	1.9
14....	24	4.3	16	4.0	2.0	1.9
15....	21	4.0	9.1	2.9	2.0	1.9
16....	20	3.7	4.9	2.7	1.9	1.9
17....	19	3.7	4.6	2.7	2.0	1.8
18....	15	3.2	4.6	2.7	2.0	1.8
19....	12	2.9	3.6	2.6	1.9	1.9
20....	13	3.0	4.6	2.5	1.9	2.1
21....	13	6.0	4.3	2.5	1.9	1.9
22....	15	6.6	4.3	2.4	1.8	1.9
23....	21	5.8	4.6	2.4	1.8	1.9
24....	12	5.2	4.6	2.3	1.8	1.9
25....	11	7.3	5.0	2.4	1.8	1.9
26....	9.1	7.3	4.6	2.3	1.8	1.9
27....	10	8.5	4.4	2.2	1.6	1.9
28....	11	6.6	4.4	2.2	1.6	1.9
29....	10	7.6	3.9	2.2	1.6	1.8
30....	9.7	14	3.2	2.1	1.6	1.7
31....	22	....	2.0	1.6	....
Total	425.8	209.7	370.7	81.1	60.2	55.2
Mean..	14.2	6.76	12.4	2.62	1.94	1.84
Max....	24	22	27	4.0	2.8	2.2
Min....	6.8	2.9	3.2	2.0	1.6	1.6
Acre-ft.	845	416	735	161	119	109

Total run-off for period=2,385 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cottonwood Creek Near Cedaredge, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							5.2	9.8	28	0	0.6	0.7
2							7.5	12	30	0	0.5	0.7
3							7.1	11	27	0	0.5	1.0
4							7.6	11	23	0.3	0.5	1.0
5							7.1	11	21	0.6	0.7	1.0
6							3.4	11	17	0.6	0.6	0.9
7							2.3	13	17	0.5	0.1	0.9
8							4.8	15	14	0.6	0.2	0.8
9							9.8	19	12	0.3	0.2	0.8
10							18	20	8.6	0.2	0.3	0.7
11							23	25	7.3	0.1	0.4	0.8
12							28	26	7.6	0.1	1.6	0.9
13							25	16	7.6	0.1	0.7	0.9
14							30	15	5.9	0.6	0.6	1.0
15							24	14	6.2	0.2	0.5	0.9
16							23	14	4.2	0.1	0.5	0.8
17							21	14	2.2	0.4	0.6	0.6
18							18	10	2.1	0.5	0.6	0.6
19							17	9.0	1.5	0.9	0.8	0.8
20							15	11	1.2	0.9	1.1	0.9
21							18	17	1.2	0.6	0.9	0.8
22							21	21	1.2	0.4	1.1	0.8
23							30	23	0.7	0.4	1.1	0.8
24							21	22	0	0.3	1.1	0.8
25							18	21	0	0.4	1.2	0.8
26							15	31	0	1.1	1.0	0.8
27							13	38	0	1.0	0.8	0.8
28							12	36	0	1.1	0.9	0.5
29							10	34	0	1.0	0.8	0.8
30							9.8	33	0	1.0	0.6	0.3
31								30		0.7	0.7	
Total							464.6	592.8	246.5	15.0	21.8	23.9
Mean							15.5	19.1	8.22	0.48	0.70	0.80
Max.							30	38	30	1.1	1.6	1.0
Min.							2.3	9.0	0	0	0.1	0.3
Acre-ft.							922	1180	489	30	43	47

Total run-off for period=2,710 acre-feet.

Discharge of Youngs Creek Near Cedaredge, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							4.5	11	28	1.3	0.6	0.3
2							7.6	14	20	1.4	0.5	0.4
3							10	11	13	1.8	0.5	0.4
4							14	14	13	1.8	0.4	0.4
5							16	13	8.5	1.1	0.4	0.4
6							12	14	3.9	1.1	0.4	0.4
7							13	20	2.6	1.3	0.4	0.4
8							17	28	4.5	1.2	0.3	0.4
9							21	36	6.7	1.7	0.4	0.4
10							29	38	3.8	1.4	0.3	0.4
11							38	41	3.1	1.1	0.3	0.4
12							42	41	2.8	1.1	0.4	0.4
13							50	26	2.0	1.3	0.2	0.4
14							55	22	1.8	1.0	0.2	0.4
15							44	16	3.2	0.6	0.2	0.4
16							50	13	5.1	0.6	0.2	0.4
17							50	9.8	2.8	0.8	0.2	0.4
18							41	13	2.4	0.9	0.2	0.4
19							34	11	1.9	0.5	0.2	0.4
20							26	11	1.6	0.7	0.2	0.4
21							28	7.4	1.4	0.9	0.2	0.4
22							34	6.2	1.5	1.0	0.2	0.4
23							14	6.7	1.3	0.8	0.2	0.4
24							31	7.4	1.2	0.8	0.2	0.3
25							26	12	1.4	0.8	0.2	0.3
26							20	20	1.3	0.9	0.2	0.3
27							16	16	1.1	1.0	0.2	0.4
28							16	22	1.2	1.0	0.2	0.3
29							14	28	1.4	0.6	0.2	0.3
30							13	41	1.2	0.6	0.3	0.3
31								34		0.6	0.3	
Total							816.1	603.5	143.7	31.7	8.9	11.3
Mean							27.2	19.5	4.79	1.02	0.29	0.38
Max.							55	41	28	1.8	0.6	0.4
Min.							4.5	6.2	1.1	0.5	0.2	0.3
Acre-ft.							1620	1200	285	63	18	22

Total run-off for period=3,210 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River at Colona, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	280	125	96	68	68	96	192	514	669	1270	373	184
2.....	223	128	98	64	62	94	150	508	770	1190	344	176
3.....	203	122	96	64	*66	88	142	766	900	1200	306	168
4.....	188	118	96	62	78	80	128	1910	890	1220	280	156
5.....	255	100	94	66	88	92	150	960	960	1110	280	146
6.....	334	102	96	70	90	90	136	815	993	1000	300	139
7.....	250	98	94	74	88	92	120	815	1020	1050	338	128
8.....	227	100	90	78	84	88	118	1020	1040	1000	350	150
9.....	231	98	88	76	80	86	128	1220	824	1020	494	142
10.....	223	102	84	76	80	84	160	1530	797	1030	599	136
11.....	195	84	84	76	80	84	150	1520	730	1080	501	136
12.....	184	86	76	76	82	84	156	1530	648	1030	467	132
13.....	178	78	72	77	84	90	150	1650	655	940	379	136
14.....	170	94	*76	78	84	96	132	1630	714	824	397	196
15.....	164	112	74	82	88	98	142	1430	788	770	428	168
16.....	160	115	72	82	86	92	146	1250	900	754	441	164
17.....	153	120	90	84	86	100	160	1480	1120	762	529	160
18.....	146	122	86	*74	86	120	146	1580	1530	806	422	192
19.....	142	122	84	72	88	146	125	1420	1670	842	361	230
20.....	139	122	85	73	86	164	115	851	1660	797	338	205
21.....	139	115	84	73	86	164	122	1020	1740	714	306	192
22.....	136	115	86	74	88	170	118	746	1780	683	290	385
23.....	136	112	*93	74	92	188	118	730	2050	676	270	397
24.....	136	102	95	*76	96	188	125	851	1670	714	260	316
25.....	128	98	76	76	96	139	164	1030	1780	690	240	295
26.....	125	96	74	76	88	125	192	1070	1700	620	225	275
27.....	160	80	72	74	78	136	280	1150	1520	599	215	260
28.....	150	96	76	74	84	160	346	842	1430	550	196	240
29.....	139	98	72	76	.....	160	400	730	1210	487	200	275
30.....	153	98	72	74	.....	160	496	690	1250	441	210	300
31.....	139	.....	74	70	.....	164	.....	634	.....	415	192	.....
Total	5586	3158	2603	2289	2342	3718	5207	33892	35408	26284	10531	6179
Mean	180	105	84.0	73.8	83.6	120	174	1093	1180	848	340	206
Max.	334	128	98	84	96	188	496	1910	2050	1270	599	397
Min.	125	78	72	62	62	80	115	508	648	415	192	128
Acre-ft.	11080	6260	5160	4540	4650	7370	10330	67220	70230	52130	20890	12260

Total run-off for water year—272,100 acre-feet.

Discharge of Uncompahgre River at Colona, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	260	265	160	108	96	85	210	578	1240	1020	350	116
2.....	250	265	150	92	94	88	290	641	1350	954	380	113
3.....	474	255	150	86	94	92	397	770	1290	978	426	108
4.....	564	250	150	86	96	90	480	770	1240	978	370	108
5.....	385	245	148	78	94	88	564	797	1510	962	331	110
6.....	373	230	148	74	92	107	467	806	1790	1030	322	113
7.....	316	220	145	76	92	82	448	950	1990	1140	313	113
8.....	311	200	141	80	90	85	397	1070	1890	1110	287	113
9.....	316	210	140	86	90	95	409	1280	1560	1020	267	110
10.....	290	205	145	90	88	107	448	1300	1540	834	247	110
11.....	285	205	150	88	84	101	515	1300	1800	792	243	191
12.....	285	205	152	86	86	101	606	1250	1700	778	275	154
13.....	824	215	150	86	86	116	842	940	1500	764	275	144
14.....	690	205	145	88	88	107	1160	833	1480	726	243	140
15.....	501	200	135	92	86	95	1080	842	1210	702	227	137
16.....	434	205	130	94	84	95	971	797	1340	732	211	134
17.....	397	205	125	92	82	90	971	779	1710	778	211	125
18.....	361	210	125	94	78	98	860	738	1880	806	211	125
19.....	333	196	125	94	74	110	770	762	1850	708	187	128
20.....	338	180	122	90	70	98	833	806	1650	630	179	122
21.....	627	153	125	94	72	85	860	971	1600	588	161	122
22.....	543	150	125	92	76	101	1180	1180	1630	546	147	119
23.....	379	160	120	94	80	133	1200	1410	1520	498	158	116
24.....	350	160	112	94	78	156	890	1650	1440	468	195	113
25.....	564	180	118	94	80	128	982	1580	1370	426	172	108
26.....	441	168	118	94	80	116	669	1670	1330	408	158	105
27.....	361	168	115	94	82	101	641	1660	1220	390	150	102
28.....	373	175	110	92	85	101	529	1450	970	375	150	100
29.....	344	175	110	92	.....	116	494	1470	962	365	144	98
30.....	322	170	110	*91	.....	136	474	1310	1040	350	134	95
31.....	409	.....	110	92	.....	156	.....	1210	.....	336	125	.....
Total	12700	6030	4109	2783	2377	3279	20637	33570	44602	22192	7249	3592
Mean	410	201	133	89.8	84.9	106	658	1083	1487	716	234	120
Max.	824	265	160	108	96	156	1200	1670	1990	1140	426	191
Min.	250	150	110	74	70	82	210	578	962	336	125	95
Acre-ft.	25190	11960	8150	5520	4710	6500	40930	66590	88470	44020	14380	7120

Total run-off for water year—323,500 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River at Delta, Colo., for Year Ending Sept. 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1160	175	138	115	89	72	184	796	637	330	366	170
2.....	595	181	142	102	85	77	229	650	818	372	265	126
3.....	530	178	140	95	74	81	214	957	797	585	345	134
4.....	512	181	145	83	59	75	172	1830	884	561	315	90
5.....	698	178	138	100	56	70	166	2810	720	694	305	138
6.....	780	172	151	115	58	75	163	2300	1090	513	366	90
7.....	605	160	157	102	66	70	142	2050	949	525	598	122
8.....	556	166	135	93	72	66	89	2150	1160	637	1280	224
9.....	538	140	122	89	72	63	175	2310	1090	720	1180	320
10.....	552	140	125	83	74	64	350	1920	1160	657	1410	232
11.....	512	151	135	85	75	74	394	1890	1130	924	1080	355
12.....	498	140	130	83	93	68	350	2160	839	797	976	345
13.....	480	145	120	91	95	70	370	2440	713	825	790	477
14.....	448	135	98	85	87	81	302	2110	650	692	678	579
15.....	430	154	98	81	85	93	232	1450	618	567	618	531
16.....	426	163	95	79	79	95	190	783	699	727	1120	531
17.....	408	172	120	79	83	93	217	604	692	644	1260	592
18.....	394	175	110	66	102	87	229	769	762	664	1160	811
19.....	394	190	100	63	108	102	232	713	994	755	967	797
20.....	382	169	100	70	108	118	266	543	734	916	734	860
21.....	358	151	93	72	93	118	229	501	1240	916	637	734
22.....	342	157	110	75	100	130	163	477	1190	573	465	908
23.....	334	157	110	70	105	151	172	388	1220	604	477	2100
24.....	246	154	115	68	102	190	175	382	1330	598	305	1320
25.....	178	151	112	70	110	178	187	644	1260	501	285	1100
26.....	163	142	102	64	102	130	238	832	1080	513	224	1100
27.....	196	140	95	62	85	125	394	846	1040	519	166	804
28.....	184	145	105	62	72	128	802	762	762	507	118	783
29.....	181	154	102	68	....	138	791	543	598	483	110	876
30.....	181	157	108	74	....	128	840	618	460	305	150	976
31.....	175	....	115	87	....	132	....	624	....	355	170	....
Total	13436	4773	3666	2531	2389	3142	8657	37852	27316	18889	18920	18225
Mean..	433	159	118	81.6	85.3	101	289	1221	911	609	610	608
Max...	1160	190	157	115	110	190	840	2830	1330	924	1410	2100
Min...	163	135	93	62	56	63	89	382	460	305	110	90
Ac.-ft.	26650	9470	7270	5020	4740	6230	17170	75080	54180	37470	37530	36150

Total run-off for water year—317,000 acre-feet.

Discharge of Uncompahgre River at Delta, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	748	839	179	146	158	113	161	450	784	572	244	172
2.....	790	727	173	130	152	102	220	1030	916	688	308	180
3.....	1410	637	185	120	143	128	370	776	864	470	416	172
4.....	1740	531	179	130	158	128	579	994	872	539	434	192
5.....	1130	445	176	110	158	131	884	1110	907	558	416	184
6.....	832	397	179	100	149	149	1090	846	952	526	398	236
7.....	1120	352	176	120	152	105	685	949	1100	640	355	244
8.....	630	352	173	130	152	95	644	1200	1410	664	326	240
9.....	650	343	167	130	140	105	678	1400	1060	648	330	228
10.....	755	334	170	131	140	152	776	1880	889	506	308	240
11.....	706	343	170	131	119	155	967	1870	925	392	276	410
12.....	525	312	173	131	122	152	1290	1970	1140	375	330	532
13.....	949	272	167	125	134	185	1750	1060	1100	370	476	422
14.....	1240	268	173	134	134	188	1900	539	1080	340	494	335
15.....	818	260	155	137	119	155	2140	321	526	303	470	380
16.....	790	248	140	152	122	119	1560	482	526	340	422	410
17.....	741	264	149	140	119	102	1420	470	1015	434	350	370
18.....	769	256	155	149	102	119	1260	380	1360	580	232	335
19.....	664	248	146	155	92	146	741	602	1520	572	224	330
20.....	513	244	149	137	85	143	940	610	1500	440	224	303
21.....	644	212	161	164	102	131	832	943	1160	326	200	312
22.....	839	212	155	155	134	116	1080	1180	1100	298	196	303
23.....	644	197	158	170	146	137	2320	1320	1010	240	196	312
24.....	567	197	152	167	116	240	1570	1570	752	220	208	326
25.....	664	191	143	164	122	185	1390	1270	632	220	224	335
26.....	1060	182	155	158	113	155	1040	1350	532	224	208	335
27.....	720	197	149	179	125	155	940	1570	520	224	200	321
28.....	727	204	149	170	128	161	624	1130	526	240	188	312
29.....	734	194	149	185	....	137	477	792	488	216	188	321
30.....	790	194	149	164	....	125	579	696	500	285	180	340
31.....	860	....	146	152	....	140	....	664	....	236	184	....
Total	25769	9652	5000	4466	3636	4354	30907	31424	27666	12686	9205	9132
Mean..	831	322	161	144	120	140	1030	1014	922	469	297	304
Max...	1740	839	185	185	158	240	2320	1970	1520	688	494	532
Min...	513	182	140	100	85	95	161	321	488	216	180	172
Ac.-ft.	51110	19140	9920	8860	7210	8640	61300	62330	54870	25160	18260	18110

Total run-off for water year—344,900 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roubideau Creek Near Delta, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	41	9.4	11	11	7.8	14	41	538	406	32	5.0	4.1
2.....	20	7.4	11	7.0	6.1	17	38	514	381	29	4.4	4.4
3.....	17	7.8	9.4	6.6	6.0	18	37	636	350	26	4.1	4.4
4.....	16	11	6.7	6.4	5.8	14	37	950	313	23	3.8	4.4
5.....	107	11	7.4	6.8	6.8	15	40	970	316	23	3.8	4.1
6.....	50	12	6.7	7.2	7.6	14	45	960	298	20	5.5	4.1
7.....	24	13	6.1	7.6	*8.4	11	38	975	502	20	31	4.1
8.....	18	15	6.7	8.0	10	10	34	980	402	19	10	4.1
9.....	15	12	7.8	8.8	9.4	11	37	1040	346	15	23	4.1
10.....	14	16	*7.8	9.5	10	11	52	1100	307	13	28	4.1
11.....	14	17	7.8	10	11	12	57	1320	268	13	17	4.4
12.....	12	12	8.2	10	17	12	66	1450	230	12	16	4.4
13.....	9.0	9.4	7.0	9.8	17	14	77	1500	215	14	20	4.7
14.....	8.2	9.4	6.4	12	*14	20	64	1430	198	12	19	4.7
15.....	7.4	11	*5.9	9.4	20	23	57	1300	200	11	18	7.0
16.....	8.6	9.4	6.4	11	24	19	71	1130	202	9.5	23	5.5
17.....	8.6	10	6.8	*11	24	17	70	1060	188	9.0	34	5.0
18.....	7.8	11	6.7	10	21	18	64	1020	174	7.5	22	6.0
19.....	4.9	9.8	7.4	9.4	25	20	68	880	159	8.0	20	6.5
20.....	6.1	12	7.8	9.0	26	21	58	631	145	9.0	16	8.0
21.....	5.2	14	7.4	9.0	24	24	54	662	125	9.0	15	7.5
22.....	4.6	14	7.0	9.4	23	26	50	658	109	6.5	12	7.2
23.....	4.6	13	8.6	8.6	19	29	51	708	96	6.5	9.5	4.7
24.....	4.6	13	*9.4	*9.0	20	38	80	739	88	7.5	9.0	25
25.....	5.5	12	10	9.0	21	27	98	685	90	6.0	7.5	22
26.....	8.2	12	9.0	8.2	20	24	139	676	72	5.5	4.1	20
27.....	12	13	9.0	8.6	11	17	242	703	62	5.5	4.1	13
28.....	16	12	11	8.6	11	20	520	631	52	6.0	4.4	13
29.....	13	9.0	11	8.2	.....	24	470	550	44	5.5	4.4	15
30.....	11	8.6	11	8.2	.....	26	510	506	36	5.0	4.1	16
31.....	10	.....	11	8.2	.....	28	.....	423	.....	5.0	4.1	.....
Total	503.3	346.2	255.4	275.5	425.9	594	3265	27325	6374	393.0	401.8	348.6
Mean..	16.2	11.5	8.24	8.89	15.2	19.2	109	881	212	12.7	13.0	11.6
Max..	107	17	11	12	26	38	520	1500	502	32	34	72
Min..	4.6	7.4	5.9	6.4	5.8	10	34	423	36	5.0	3.8	4.1
Acre-ft.	998	687	507	546	845	1180	6480	54200	12640	780	797	691

Total run-off for water year=80,350 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roubideau Creek at Mouth Near Delta, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	149	64	55	75	67	67	98	754	520	65	66	56
2.....	117	57	55	58	62	67	98	734	460	60	66	50
3.....	102	54	52	53	57	68	100	911	400	61	73	45
4.....	96	62	43	46	67	54	90	1310	354	58	75	46
5.....	307	61	44	49	68	62	90	1290	387	61	68	46
6.....	144	67	44	49	72	64	96	1240	369	60	65	45
7.....	104	67	41	46	73	60	83	1350	629	62	106	45
8.....	98	68	41	48	76	55	68	1410	598	63	98	48
9.....	90	66	45	49	72	55	83	1630	528	59	227	64
10.....	87	70	46	50	72	55	128	1680	531	54	246	71
11.....	83	70	49	53	68	54	139	1720	492	55	228	94
12.....	78	67	49	66	82	54	145	1780	462	59	186	115
13.....	70	58	44	64	85	58	170	1820	438	64	180	137
14.....	80	57	42	60	82	66	154	1630	417	67	176	119
15.....	76	58	45	67	87	73	128	1330	378	63	162	110
16.....	70	55	38	66	88	68	146	1060	372	63	152	140
17.....	72	57	42	70	92	64	146	1080	360	60	162	150
18.....	72	60	46	66	87	64	130	1180	321	59	158	176
19.....	67	58	54	70	94	66	142	1170	275	63	144	172
20.....	67	60	61	67	92	68	149	748	224	67	133	162
21.....	62	62	55	76	87	67	144	710	154	65	105	156
22.....	58	61	55	80	88	68	128	688	150	63	75	318
23.....	57	60	54	70	85	70	125	776	133	60	64	237
24.....	62	60	53	68	85	85	159	884	126	57	60	232
25.....	60	58	64	72	88	76	173	860	137	59	57	237
26.....	57	58	64	67	85	68	218	796	115	62	47	237
27.....	60	58	61	68	66	61	354	856	98	64	47	188
28.....	60	57	64	72	67	62	859	784	89	63	50	184
29.....	62	52	68	73	.....	72	662	671	75	55	54	188
30.....	64	52	70	78	.....	70	730	629	71	62	55	188
31.....	64	.....	75	67	.....	75	.....	576	.....	67	59	.....
Total	2695	1814	1617	1963	2194	2016	5936	34087	9663	1900	3444	4057
Mean	86.9	60.5	52.2	63.3	78.4	65.0	198	1100	322	61.3	111	135
Max.	307	70	75	80	94	85	859	1820	629	67	246	318
Min.	57	52	38	46	57	54	68	576	71	54	47	45
Ac.-ft.	5350	3600	3210	3890	4350	4000	11770	67610	19170	3770	6830	8050

Total run-off for water year=141,600 acre-feet.

Discharge of Roubideau Creek at Mouth Near Delta, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	184	215	110	55	43	43	97	380	323	54	78	65
2.....	188	208	103	53	42	43	121	356	311	51	90	61
3.....	344	193	106	54	44	46	131	353	290	51	97	63
4.....	240	175	108	44	41	49	167	350	260	48	103	69
5.....	173	187	97	43	48	49	218	394	245	50	102	78
6.....	211	177	82	42	46	63	242	384	230	51	100	91
7.....	181	175	85	46	45	42	242	471	230	52	97	91
8.....	167	149	88	47	48	48	245	672	218	52	98	94
9.....	161	159	79	48	42	54	290	916	187	53	84	94
10.....	151	139	85	45	43	65	365	1180	175	57	84	102
11.....	137	131	82	44	41	69	478	1200	155	60	75	140
12.....	135	130	81	45	43	71	616	1170	155	51	78	148
13.....	222	146	78	46	43	92	740	780	161	52	100	155
14.....	390	139	78	49	45	78	928	548	146	54	103	165
15.....	268	135	74	47	44	51	1020	502	149	50	85	159
16.....	222	131	72	46	44	52	976	552	137	55	81	159
17.....	213	133	81	48	43	50	1060	616	128	63	75	157
18.....	193	151	79	50	40	49	972	580	108	65	79	149
19.....	193	130	69	45	37	69	776	628	105	71	77	153
20.....	191	121	64	43	35	63	632	640	139	74	70	144
21.....	296	100	72	40	39	55	592	832	107	72	57	144
22.....	282	96	81	40	45	54	988	944	98	69	53	131
23.....	235	94	61	40	46	63	1740	944	78	63	54	131
24.....	215	98	71	38	46	92	1180	1010	79	64	58	130
25.....	245	92	77	39	49	71	876	932	74	64	57	128
26.....	265	94	61	41	46	61	744	916	61	64	55	124
27.....	255	115	55	42	49	54	628	892	61	67	55	115
28.....	258	112	47	43	46	51	528	612	75	61	55	105
29.....	255	112	53	52	.....	52	468	524	75	61	56	98
30.....	240	108	55	44	.....	77	440	408	61	71	60	98
31.....	211	.....	59	42	.....	86	.....	356	.....	75	63	.....
Total	6921	4145	2387	1401	1226	1862	18500	21042	4621	1845	2379	3541
Mean	223	138	77.0	45.2	43.8	60.1	617	679	154	59.5	76.7	118
Max.	390	215	110	55	49	92	1740	1200	323	75	103	165
Min.	135	92	47	38	35	42	97	350	61	48	53	61
Ac.-ft.	13730	8220	4730	2780	2430	3690	36690	41740	9170	3660	4720	7020

Total run-off for water year=138,600 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Kannah Creek Near Whitewater, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	10	7.4	6.3	6.1	3.6	3.6	14	44	382	55	34	27
2.....	9.4	8.0	5.8	5.1	3.6	3.6	9.4	52	385	55	35	46
3.....	10	9.4	5.8	4.5	4.1	3.0	6.3	68	368	48	37	46
4.....	8.5	10	5.8	4.3	3.6	2.8	5.8	139	352	46	32	46
5.....	15	7.4	5.2	4.1	3.6	3.0	6.3	136	355	43	20	41
6.....	16	8.5	4.1	4.5	3.6	3.0	5.2	144	365	39	27	35
7.....	14	8.5	3.6	4.9	3.6	3.0	3.6	112	453	35	27	32
8.....	14	8.5	4.1	5.1	3.6	3.0	3.6	162	342	43	25	32
9.....	13	8.5	5.2	5.1	3.6	4.1	3.6	180	278	37	30	30
10.....	13	8.0	4.1	4.9	3.6	3.6	7.0	189	253	35	30	29
11.....	14	6.1	4.1	4.7	3.6	4.6	6.5	210	225	34	29	27
12.....	12	5.1	4.1	4.7	4.1	4.1	6.0	237	213	34	16	21
13.....	11	5.3	3.6	4.7	4.1	4.1	6.3	294	228	35	12	29
14.....	11	5.5	3.2	4.9	4.1	4.1	6.3	298	228	39	10	29
15.....	10	5.5	3.2	4.7	4.1	3.6	6.8	285	240	30	12	24
16.....	9.4	5.9	3.6	4.5	3.6	4.6	7.4	288	237	27	16	24
17.....	8.5	6.6	4.0	4.3	3.6	5.2	7.4	326	243	27	21	22
18.....	8.5	8.0	4.2	4.3	5.2	6.3	6.3	349	253	30	20	25
19.....	8.5	7.4	4.0	4.5	4.1	8.0	5.2	317	246	37	17	24
20.....	8.5	6.8	3.6	4.9	3.6	8.5	6.8	266	231	35	20	22
21.....	8.0	6.8	3.4	4.5	4.1	8.5	9.4	298	216	27	17	21
22.....	8.0	6.8	3.2	4.1	3.6	11	9.4	336	198	24	10	48
23.....	8.0	6.3	3.6	3.9	3.6	9.4	8.5	352	177	25	8.0	44
24.....	7.4	6.0	4.4	3.9	3.6	8.0	9.4	362	168	25	8.0	43
25.....	7.4	6.0	4.6	3.2	4.1	5.8	11	371	147	30	8.5	44
26.....	8.0	6.0	4.4	3.2	7.4	5.2	14	443	130	32	27	46
27.....	10	6.0	4.2	3.4	5.2	6.3	18	433	109	30	29	39
28.....	8.0	6.0	4.0	3.4	5.2	6.8	32	412	91	30	29	27
29.....	8.0	6.0	4.2	3.6	.....	7.4	30	382	68	25	27	24
30.....	8.0	5.8	4.4	3.6	.....	8.0	39	382	66	26	26	25
31.....	7.4	.....	5.4	3.6	.....	13	.....	375	.....	27	26	.....
Total	312.5	298.1	133.4	135.2	113.4	175.2	310.5	827.2	7247	1065	685.5	972
Mean.	10.1	6.94	4.30	4.36	4.05	5.65	10.4	267	242	34.4	22.1	32.4
Max.	16	10	6.3	6.1	7.4	13	39	443	453	55	37	48
Min.	7.4	5.1	3.2	3.2	3.6	2.8	3.6	44	66	24	8.0	21
Acre-ft.	620	413	265	268	225	348	616	16410	14370	2110	1360	1930

Total run-off for water year—38,940 acre-feet.

Discharge of Kannah Creek Near Whitewater, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	21	35	16	12	11	8.0	14	50	462	41	24	16
2.....	21	37	16	11	11	7.8	17	52	479	39	21	16
3.....	55	35	17	10	10	8.2	30	53	412	37	21	16
4.....	62	35	16	10	11	8.4	35	74	423	34	21	15
5.....	52	34	16	9.2	11	8.6	37	72	434	34	22	15
6.....	46	34	16	8.4	10	9.4	29	70	412	29	18	18
7.....	43	33	16	9.6	10	8.8	25	83	353	27	18	22
8.....	48	31	15	10	10	8.2	26	105	342	26	18	22
9.....	46	31	14	11	9.6	8.8	37	121	331	35	17	22
10.....	37	31	15	10	8.8	9.4	46	150	337	34	15	22
11.....	35	31	14	10	*8.0	10	57	153	358	35	17	29
12.....	44	32	*14	10	7.8	10	72	147	316	34	27	27
13.....	124	31	14	10	7.8	11	83	120	254	37	18	25
14.....	111	29	14	10	8.2	10	96	105	224	39	13	20
15.....	72	27	13	11	8.2	9.4	94	102	200	39	13	20
16.....	57	26	12	11	7.8	9.6	81	105	192	46	12	20
17.....	48	24	12	11	7.6	8.6	85	107	182	50	18	18
18.....	43	23	13	11	7.2	10	70	116	161	52	20	17
19.....	46	23	12	11	7.0	9.6	57	136	134	35	18	16
20.....	48	23	12	*11	6.8	8.6	61	158	122	32	18	16
21.....	68	23	13	11	7.0	9.6	70	204	109	30	20	15
22.....	70	*23	13	11	7.6	10	122	263	85	30	20	15
23.....	62	22	12	11	8.4	*11	158	342	76	26	16	15
24.....	55	21	12	11	7.8	14	89	429	70	22	13	15
25.....	64	20	11	11	8.0	13	70	456	62	24	12	15
26.....	61	18	12	12	8.0	13	64	513	57	24	11	15
27.....	59	18	12	12	8.0	12	62	423	55	25	9.4	15
28.....	48	18	12	11	8.4	11	53	484	52	25	9.4	14
29.....	44	18	12	11	.....	11	50	496	48	25	9.4	14
30.....	39	17	12	11	.....	12	48	484	44	26	6.8	14
31.....	35	.....	12	11	.....	13	.....	434	.....	25	15	.....
Total	1655	893	420	330.2	242.0	311.4	1838	6617	6786	1017	511.0	539
Mean.	53.4	26.8	13.5	10.7	8.64	10.0	61.3	213	226	32.8	16.5	18.0
Max.	124	37	17	12	11	14	158	513	479	52	27	29
Min.	21	17	11	8.4	6.8	7.8	14	50	44	22	6.8	14
Acre-ft.	3280	1590	833	655	480	618	3650	13120	13460	2020	1010	1070

Total run-off for water year—41,790 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dolores River at Dolores, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	383	92	56	56	40	94	592	1580	2330	1800	321	161
2	322	91	56	56	40	92	398	1510	2390	1770	301	148
3	269	92	47	56	*40	92	360	1860	2400	1680	282	138
4	226	90	45	56	40	90	322	2690	2270	1620	265	152
5	260	86	46	56	40	88	371	2380	2420	1560	260	150
6	646	85	50	*56	40	91	341	2600	2390	1370	284	145
7	410	85	46	56	42	84	329	2870	2720	1360	312	140
8	333	84	52	55	45	78	406	3210	2790	1350	307	140
9	287	79	48	53	47	80	552	3660	2330	1330	357	145
10	260	86	51	51	50	73	605	4080	2050	1190	404	136
11	229	88	48	50	52	73	531	4360	1940	1240	361	130
12	209	90	50	49	55	82	456	5210	1860	1120	321	125
13	193	90	55	48	60	96	394	6360	1840	1060	279	163
14	180	90	55	46	62	98	356	6550	1960	1000	257	386
15	167	110	52	45	64	97	341	5040	2170	897	296	270
16	156	135	50	41	66	92	337	4080	2370	855	287	226
17	145	150	50	*43	68	102	322	4300	2570	814	350	187
18	136	94	50	43	70	125	311	4600	2930	784	296	273
19	129	91	50	43	72	154	291	4260	3290	760	250	469
20	122	85	50	43	75	187	260	2930	3290	736	224	318
21	118	78	52	42	80	191	291	2460	3220	684	209	268
22	111	72	52	42	84	189	291	2280	3240	625	197	1240
23	107	70	52	42	80	202	304	2560	3180	625	187	1460
24	100	68	52	42	81	209	326	3140	3080	589	176	808
25	97	67	52	42	79	171	422	3320	2890	594	166	700
26	96	61	54	42	86	176	692	3260	2840	517	155	589
27	131	65	54	42	79	189	926	3390	2520	530	150	508
28	129	61	54	41	85	219	1020	2940	2400	495	142	445
29	113	76	54	41	...	246	1220	2800	2030	430	148	517
30	105	63	54	41	...	281	1530	2700	1860	379	189	678
31	96	...	54	41	...	367	...	2380	...	344	195	...
Total	6265	2554	1591	1463	1725	4408	14868	105360	75570	30108	7928	11215
Mean	202	85.1	51.3	47.2	61.6	142	496	3399	2519	971	256	374
Max	646	135	56	56	86	367	1530	6550	3290	1800	404	1460
Min	96	61	45	41	40	73	260	1510	1840	344	142	125
Ac.-ft.	12430	5070	3160	2900	3420	8740	29490	209000	149900	59720	15720	22240

Total run-off for water year=521,800 acre-feet.

Discharge of Dolores River at Dolores, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	548	855	199	120	*112	70	530	1200	2850	649	308	185
2	482	790	209	115	110	68	742	1210	2900	613	339	177
3	848	706	189	110	110	*66	988	1140	2760	592	357	175
4	1110	662	195	110	105	76	1170	1220	2500	566	315	201
5	876	620	160	100	105	74	1580	1350	2660	536	302	182
6	802	614	165	95	100	80	1330	1450	2780	545	308	177
7	700	566	190	*110	105	84	1100	1800	2610	518	318	168
8	645	517	190	115	95	80	1120	2100	2830	509	318	124
9	594	522	189	110	90	90	1320	2470	2400	488	298	99
10	548	486	186	105	85	105	1570	3170	2190	456	295	96
11	539	473	184	110	90	110	1860	3380	2560	412	335	158
12	548	456	157	115	90	110	2120	3260	2620	392	353	190
13	2390	464	174	110	92	105	2660	2360	2300	380	318	129
14	2750	437	161	115	90	100	3170	1920	2100	361	282	107
15	1900	433	147	110	86	105	3330	1840	1740	380	264	96
16	1660	422	115	110	80	108	3100	1830	1840	436	252	87
17	1530	445	154	115	75	111	3240	1990	2060	472	240	81
18	1370	469	138	105	72	137	2830	1950	2160	480	226	76
19	1270	430	131	100	68	140	2170	2160	2050	384	226	74
20	1260	386	136	95	72	160	2000	2550	1810	335	224	72
21	1940	301	143	95	72	180	2110	3170	1590	298	221	79
22	1980	318	143	100	72	200	2850	3640	1420	361	218	70
23	1570	281	109	110	72	205	3440	3450	1280	350	224	88
24	1390	312	132	110	72	243	2570	3900	1180	335	249	67
25	1780	312	136	110	74	238	2100	3950	1050	325	190	66
26	1640	298	126	110	70	200	1840	4070	945	315	165	70
27	1420	281	126	110	68	220	1670	4110	873	311	210	87
28	1350	276	145	110	72	230	1470	3570	748	298	207	87
29	1240	250	133	105	...	280	1370	3380	681	292	198	87
30	1060	205	137	105	...	350	1290	3090	660	292	196	87
31	925	...	125	110	...	440	...	2830	...	282	190	...
Total	38665	13603	4854	3350	2404	4765	58640	79510	58127	12963	8146	3415
Mean	1247	453	157	108	85.9	154	1955	2565	1938	418	263	114
Max	2750	855	209	120	112	440	3440	4110	2900	649	357	201
Min	482	205	109	95	68	66	530	1140	660	282	165	66
Ac.-ft.	76690	26980	9630	6640	4770	9450	116300	157700	115300	25710	16160	6770

Total run-off for water year=572,100 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second

Discharge of Dolores River Near McPhee, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	366	17	33	50	57	83	1290	3220	2320	1380	15	8.8
2....	250	13	18	50	58	109	926	2810	2330	1340	14	7.7
3....	180	14	16	50	*59	98	786	3540	2290	1230	15	7.2
4....	137	18	13	50	67	79	686	5200	2150	1190	15	6.3
5....	270	17	15	50	67	94	864	4420	2110	1120	14	6.3
6....	646	10	12	*50	67	77	795	4450	2140	944	24	6.3
7....	388	13	15	50	67	79	795	4740	2580	925	20	6.8
8....	237	10	12	50	70	79	1110	5010	3000	889	18	6.3
9....	147	11	14	50	70	77	1500	5470	2590	898	29	6.3
10....	126	11	15	50	73	77	1580	5730	2350	740	74	6.3
11....	90	13	25	49	73	75	1110	5790	2090	800	28	6.0
12....	72	40	18	49	76	79	882	6120	1820	708	16	5.7
13....	55	94	66	49	60	98	703	7220	1730	592	13	9.6
14....	45	68	61	49	52	112	638	7180	1790	544	15	170
15....	48	116	58	48	54	132	695	5980	1970	462	28	111
16....	64	142	57	48	56	109	686	4850	2120	417	17	44
17....	55	75	55	*47	56	121	646	4760	2290	375	33	16
18....	50	27	55	47	58	174	551	4920	2650	322	34	31
19....	45	23	55	47	60	243	453	4670	3050	296	14	355
20....	39	19	55	48	61	331	373	3140	2990	266	12	188
21....	35	14	55	48	66	366	490	2620	2900	216	11	128
22....	32	18	55	49	70	402	528	2410	2870	156	9.6	1410
23....	28	70	55	50	66	482	662	2630	2790	128	9.1	1816
24....	23	70	55	51	79	497	873	3320	2690	125	9.1	916
25....	21	61	55	52	98	366	1300	3370	2480	131	8.2	740
26....	22	16	55	61	77	359	2320	3280	2410	48	7.7	499
27....	75	18	55	62	68	373	2920	3430	2070	31	7.7	360
28....	98	35	55	62	70	497	2840	3110	1970	32	6.8	296
29....	61	59	55	63	....	630	3320	2920	1640	14	6.8	355
30....	26	47	55	64	....	769	3530	2800	1490	15	8.2	592
31....	32	....	55	65	....	1050	....	2490	....	15	9.1	....
Total	3763	1159	1273	1608	1855	8117	35852	131600	69670	16349	541.3	8110.6
Mean...	121	38.6	41.1	51.9	66.2	262	1195	4245	2322	527	17.5	270
Max....	646	142	66	65	98	1050	3530	7220	3050	1380	74	1810
Min....	21	10	12	47	52	75	373	2410	1490	14	6.8	5.7
Acree-ft.	7460	2300	2520	3190	3680	16100	71116	261000	138200	32430	1070	16090

Total run-off for water year=555,150 acre-feet.

Discharge of Dolores River Near McPhee, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	434	982	265	200	*66	95	1130	1700	2600	196	9.9	8.4
2....	375	916	235	180	64	115	1540	1760	2660	161	12	7.8
3....	1100	809	240	170	64	*134	2120	1610	2490	134	17	6.6
4....	1510	749	275	180	62	140	2830	1730	2310	101	14	7.8
5....	1150	724	240	160	60	135	4800	1920	2420	78	11	7.8
6....	972	692	245	145	59	150	3700	1970	2550	61	12	7.2
7....	732	637	270	*165	57	140	2600	2360	2350	49	12	7.2
8....	652	555	270	180	56	130	2830	2590	2590	42	12	6.6
9....	599	562	270	180	54	140	3540	2870	2200	22	12	5.4
10....	541	512	270	160	52	155	3780	3380	2000	17	11	4.2
11....	505	492	260	160	51	170	4350	3500	2270	16	11	8.4
12....	526	466	226	170	50	175	4670	3370	2380	14	61	69
13....	4060	479	240	160	50	180	3990	2420	2120	14	35	14
14....	4490	446	230	170	62	180	3240	1960	1970	15	16	7.8
15....	2330	428	209	150	74	165	3350	1890	1640	14	11	6.0
16....	1870	416	192	150	64	153	4000	1860	1620	33	9.9	4.8
17....	1610	453	213	160	60	161	4060	1960	1740	61	9.9	3.6
18....	1400	592	192	100	60	187	3720	1850	1880	120	9.0	3.0
19....	1270	492	209	90	60	190	2810	1930	1770	28	9.0	2.8
20....	1240	398	188	90	60	210	2670	2230	1550	17	9.0	2.8
21....	2370	336	217	90	66	230	2690	2700	1370	15	8.4	2.8
22....	2420	364	217	90	66	250	3750	2990	1200	17	8.4	2.8
23....	1690	320	169	90	66	275	5260	2870	1030	15	9.0	2.8
24....	1460	300	188	90	66	330	3530	3350	907	14	20	2.8
25....	2630	341	205	66	66	260	2860	3580	724	12	29	2.7
26....	2420	380	196	66	70	222	2580	3660	592	12	15	2.6
27....	1790	369	196	66	75	240	2370	3900	486	13	12	2.6
28....	1750	341	205	66	80	275	2020	3420	352	12	11	2.7
29....	1670	290	213	66	....	336	1870	3140	265	9.9	9.9	2.7
30....	1300	270	217	66	....	486	1870	2870	222	9.9	9.0	2.7
31....	1100	....	205	66	....	740	....	2620	....	9.0	9.0	....
Total	47966	15111	6967	3942	1740	6749	94530	79960	50258	1331.8	444.4	218.4
Mean...	1547	504	225	127	62.1	218	3151	2579	1675	43.0	14.3	7.28
Max....	4490	982	275	200	80	740	5260	3900	2660	196	61	69
Min....	375	270	169	66	50	95	1130	1610	222	9.0	8.4	2.6
Ac-ft.	95140	29970	13820	7820	3450	13390	187500	158600	99690	2640	881	433

Total run-off for water year=613,300 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dolores River at Gateway, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	3130	268	195	294	271	335	2080	10800	4740	3470	590	256
2....	965	244	192	268	259	403	3070	9510	4390	3050	545	232
3....	675	220	192	215	235	453	2170	9150	4200	2780	502	232
4....	555	220	205	132	220	494	1860	11100	4140	2540	462	190
5....	635	212	200	132	220	440	1420	13800	3980	2340	435	166
6....	2180	205	200	220	220	403	1750	12800	3760	2160	419	182
7....	915	200	198	235	250	363	1620	12200	3780	1980	427	170
8....	770	195	198	210	287	351	1440	12200	4280	1860	466	152
9....	625	188	195	178	290	315	1770	12500	4720	1780	625	150
10....	585	182	195	161	277	301	2960	12800	4720	1710	635	182
11....	484	168	195	195	262	287	3850	13300	4440	1650	785	188
12....	407	161	215	238	301	287	3020	13800	3850	1620	785	182
13....	351	146	205	290	525	301	2560	14500	3300	1650	700	190
14....	335	138	198	256	466	395	2010	14600	2890	1690	615	205
15....	315	148	195	241	379	575	1620	13300	2630	1680	540	403
16....	298	178	192	241	355	565	1630	11900	2560	1630	502	298
17....	284	159	190	229	363	525	1810	10900	2680	1540	580	268
18....	268	182	185	205	367	489	1650	10300	2870	1450	745	229
19....	253	232	205	163	431	540	1460	10000	3240	1390	760	435
20....	250	280	215	185	466	745	1210	9370	3860	1340	675	440
21....	244	262	200	244	462	925	1080	8020	4280	1270	565	315
22....	241	244	212	253	550	1030	1150	7060	4450	1210	484	411
23....	232	220	210	250	476	1150	1420	6430	4660	1110	435	1780
24....	226	212	220	241	458	1350	1680	6220	5290	1050	391	2520
25....	220	200	271	190	466	1380	2350	6600	6060	1060	343	1660
26....	218	192	244	244	489	1070	3560	6810	6090	935	301	1240
27....	415	200	205	212	399	865	6640	6600	5710	830	290	1060
28....	383	208	235	210	367	820	9410	6510	5050	755	284	935
29....	308	208	274	226	....	930	9690	6140	4520	715	271	825
30....	268	200	277	241	....	1160	9930	5580	3960	680	268	735
31....	268	....	287	253	....	1470	....	5140	....	640	262	....
Total	17303	6081	6600	6852	10111	20717	87870	309940	125100	49565	15687	16231
Mean.	558	203	213	221	361	668	2929	9998	4170	1599	506	541
Max.	3130	280	287	294	559	1470	9930	14600	6090	3470	785	2520
Min.	218	138	185	132	220	287	1080	5140	2560	640	262	152
Ac.-ft.	34320	12060	13090	13590	20050	41090	174300	614800	248100	98310	31110	32190

Total run-off for water year=1,333,000 acre-feet.

Discharge of Dolores River at Gateway, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1106	2000	730	513	390	423	1770	6860	4980	1110	370	138
2....	1000	1840	684	419	394	398	2800	6900	4890	1070	376	130
3....	3170	1510	666	373	398	439	4210	6350	4860	1020	419	112
4....	3510	1370	657	356	419	483	6010	6760	4640	9980	427	110
5....	3490	1320	644	268	435	513	7760	6370	4390	964	404	132
6....	3050	1250	580	222	471	616	10600	5700	4410	925	345	146
7....	3100	1240	544	253	451	612	9580	5770	4510	947	324	136
8....	1840	1170	540	362	500	479	7180	6440	4420	925	292	128
9....	1600	1060	536	459	463	467	7960	6880	4600	925	271	118
10....	1400	1040	598	423	423	755	9720	7580	4170	881	256	110
11....	1200	1020	621	415	384	930	10600	8140	3920	775	240	116
12....	1060	969	608	447	362	881	11800	8080	4170	711	253	160
13....	1700	958	598	471	370	1340	12900	7300	4260	720	408	286
14....	8700	952	580	483	398	1180	13100	6420	4030	711	455	220
15....	7240	930	562	479	394	903	12500	5790	3780	711	331	178
16....	4320	908	540	471	387	760	10600	5400	3380	745	289	165
17....	3120	892	554	475	352	706	10100	5140	3340	770	259	140
18....	2670	908	536	475	289	648	9900	5000	3650	1100	230	136
19....	2460	1020	513	447	225	790	8800	5070	3830	925	225	124
20....	2180	992	500	439	298	790	7920	5140	3790	750	212	122
21....	3450	860	483	401	380	745	7460	5430	3310	662	205	128
22....	4690	780	536	380	401	680	8100	6010	3420	652	195	130
23....	4260	740	475	398	455	903	10900	6330	3120	576	180	134
24....	3360	657	439	451	423	1300	11300	6310	2830	522	172	131
25....	3560	662	451	423	415	1180	9660	6580	2520	491	200	130
26....	5410	684	447	451	431	1110	8660	6660	2220	467	215	128
27....	4570	720	427	451	398	1030	7780	6760	2010	455	210	126
28....	3580	775	467	447	431	903	7500	6760	1600	415	182	128
29....	3170	800	455	495	....	892	6570	6190	1280	408	172	126
30....	2910	760	526	459	....	1030	6600	5760	1170	423	168	122
31....	2500	....	544	415	....	1240	....	5290	....	398	150	....
Total	99370	30787	17041	13021	11337	25126	260340	195170	107480	23152	8435	4193
Mean.	3205	1026	550	420	398	811	8678	6296	3583	747	272	140
Max.	8700	2000	730	513	500	1340	13100	8140	4980	1110	455	286
Min.	1060	657	427	232	225	398	1770	5000	1170	398	150	110
Ac.-ft.	197100	61070	33800	25830	22090	49840	516400	387100	213200	45920	16730	8320

Total run-off for water year=1,577,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Fork of Dolores River at Dunton, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....									164	58	30	
2.....									160	54	28	
3.....									157	52	28	
4.....								248	157	52	22	
5.....								234	137	56	21	
6.....								221	124	64	23	
7.....								256	124	74	23	
8.....								243	121	64	22	
9.....								209	114	76	17	
10.....								193	118	80	16	
11.....								197	128	70	15	
12.....								185	112	67	17	
13.....								185	101	59	30	
14.....								197	92	55	42	
15.....								213	90	54	42	
16.....								221	88	57	34	
17.....								256	88	60	43	
18.....								320	90	52	67	
19.....								335	88	48	53	
20.....								325	87	42	47	
21.....								310	87	41	55	
22.....								297	87	39	80	
23.....								288	88	37	53	
24.....								306	85	36	50	
25.....								297	83	34	44	
26.....								302	83	33	43	
27.....								266	80	31	40	
28.....								205	74	28	40	
29.....								168	68	34	51	
30.....								164	64	38	46	
31.....									60	31		
Total.....								6641	3199	1576	1122	
Mean.....								246	103	50.8	37.4	
Max.....								335	164	80	80	
Min.....								164	60	28	15	
Acre-ft.....								13170	6350	3130	2230	

Total run-off for period—24,880 acre-feet.

Discharge of West Fork of Dolores River at Dunton, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	43	67					16	48	270	101	57	17
2.....	43	67					17	52	292	101	51	17
3.....	62	66					21	57	274	101	50	19
4.....	59	63					24	71	279	97	51	23
5.....	57	59					26	79	274	101	42	22
6.....	50	57					27	95	284	110	41	21
7.....	46	47					25	118	284	103	36	18
8.....	46	44					23	150	252	99	33	17
9.....	41	42					26	178	201	101	33	15
10.....	39	39					27	225	217	99	34	14
11.....	38	37					27	230	248	92	39	31
12.....	48	35					34	217	248	97	50	28
13.....	124	33					48	174	209	97	44	23
14.....	121	31					63	157	178	94	37	21
15.....	110	32					71	157	154	90	29	17
16.....	103	35				Mar. 18	74	164	168	101	24	16
17.....	99	34				to 31	80	164	197	110	20	18
18.....	97	34				24	68	168	221	103	18	17
19.....	95	Nov. 1				23	64	193	230	87	16	13
20.....	97	to 18				19	62	209	205	79	14	13
21.....	118					21	72	310	174	72	13	13
22.....	114					19	95	320	160	72	11	12
23.....	101					19	99	325	144	74	12	12
24.....	90					19	83	442	144	74	17	12
25.....	90					18	71	470	128	71	19	12
26.....	92					17	64	525	116	68	20	12
27.....	92					17	57	470	112	62	22	10
28.....	95					19	57	390	97	59	23	10
29.....	90					17	54	325	101	63	21	10
30.....	74					16	51	279	103	59	19	10
31.....	71					16		261		60	19	
Total.....	2445	822				264	1526	7023	5964	2697	915	493
Mean.....	78.9	45.7				18.9	50.9	227	199	87.0	29.5	16.4
Max.....	124	67				24	99	525	292	110	57	31
Min.....	38	31				16	16	48	97	59	11	10
Acre-ft.....	4850	1630				524	3030	13930	11830	5350	1810	978

Total run-off for period=43,932 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Fork of Dolores River Near Stoner, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1							111	597	638	426	120	56	
2							89	570	638	422	122	54	
3							78	633	650	350	110	55	
4							71	1010	620	386	92	86	
5							78	820	632	361	96	82	
6							73	882	620	349	116	82	
7							69	820	710	349	140	80	
8							82	1100	731	343	116	84	
9							107	1400	662	343	142	86	
10							135	1600	620	310	146	86	
11							116	1710	580	334	124	72	
12							107	1910	545	322	120	72	
13							93	2430	560	289	110	100	
14							80	1650	520	268	102	132	
15							78	1400	590	248	110	82	
16							78	1190	626	253	110	62	
17						Mar. 18	31	75	1210	638	238	134	54
18						to	38	75	1290	698	238	108	98
19							47	71	1150	752	240	94	132
20							46	61	844	724	225	90	116
21							44	67	731	692	195	76	182
22							46	66	780	680	202	72	215
23							47	64	887	668	198	68	142
24							46	89	887	656	180	58	130
25							42	125	852	602	172	56	108
26							40	162	914	560	172	56	98
27							48	192	844	535	162	54	86
28							56	240	759	466	142	67	108
29							61	579	704	438	136	92	146
30							78	662	662	662	128	80	66
31							885	3375	33002	18768	8226	3063	2956
Total							48.9	112	1065	626	265	98.8	98.5
Mean							78	579	2430	752	426	146	215
Max.							38	61	570	438	128	54	54
Min.							1360	6690	65460	37230	16320	6080	5680
Ac-ft.													

Total run-off for period=139,000 acre-feet.

Discharge of West Fork of Dolores River Near Stoner, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	116	215	74	28	33	30	119	400	906	225	225	135
2	98	198	70	28	33	30	151	425	897	212	248	135
3	180	170	67	28	33	30	183	395	862	207	234	137
4	220	168	55	28	33	30	188	435	814	199	225	137
5	175	165	56	28	33	30	251	485	830	183	217	128
6	155	152	40	28	33	30	258	530	822	199	227	126
7	134	142	40	28	33	30	265	638	755	192	220	119
8	136	134	40	28	33	30	320	776	769	183	220	56
9	128	130	40	28	33	30	369	906	685	173	217	51
10	118	116	40	28	33	30	485	1070	657	166	220	51
11	118	108	40	28	33	30	608	1110	720	149	240	84
12	124	168	40	28	33	*30	720	1040	727	148	251	67
13	450	106	40	28	33	30	924	806	664	140	225	47
14	495	102	40	28	33	30	1130	678	620	140	197	35
15	386	104	40	28	33	30	1120	671	542	140	192	31
16	355	102	40	28	33	28	1080	650	566	149	183	31
17	343	108	40	28	33	30	1100	678	620	177	172	27
18	319	116	40	28	33	35	951	664	650	181	172	27
19	292	112	40	28	33	39	776	713	638	148	177	29
20	283	108	40	28	33	45	748	814	590	128	170	27
21	402	78	40	28	*33	50	830	1000	530	128	166	24
22	410	106	40	28	33	56	1030	1140	480	159	168	26
23	337	88	40	28	33	64	1100	1110	425	192	164	27
24	316	86	40	28	33	70	822	1260	405	190	144	26
25	378	118	40	28	33	62	713	1300	352	195	93	26
26	355	126	40	*28	33	58	566	1360	308	192	103	49
27	310	108	40	28	33	64	520	1440	296	190	146	55
28	307	96	40	28	33	70	480	1260	251	188	144	53
29	298	90	40	28	...	78	475	1120	225	192	142	53
30	248	82	40	28	...	86	420	970	230	188	140	56
31	218	...	40	28	...	105	...	906	...	197	135	...
Total	8184	3642	1362	868	924	1390	18702	26750	17836	5490	5778	1875
Mean	264	121	43.9	28	33	44.8	623	863	595	177	186	62.5
Max.	495	215	74	...	...	105	1130	1440	906	225	251	137
Min.	98	78	...	...	...	28	119	395	225	128	93	24
Ac-ft.	16230	7220	2700	1720	1830	2760	37090	53060	35380	10890	11460	3720

Total run-off for water year=184,100 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lost Canyon Creek at Dolores, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....						16	166	430	109	20	0	0
2.....						12	96	358	90	17	0	0
3.....						10	73	458	70	15	0	0
4.....						9.2	58	574	70	15	0	0
5.....						8.6	82	474	56	14	0	0
6.....						6.1	62	478	53	14	0	0
7.....						4.2	57	515	48	14	0	0
8.....						4.6	89	485	50	13	0	0
9.....						5.3	153	580	45	13	0	0
10.....						3.5	180	650	43	12	0	0
11.....						3.8	103	720	44	12	0	0
12.....						3.7	74	780	45	11	0	0
13.....						6.1	60	880	54	10	0	0
14.....						7.2	52	640	58	10	0	0
15.....						8.6	54	500	50	9	0	0
16.....						9.2	48	380	45	8	0	0
17.....						12	70	430	52	7	0	5
18.....						19	66	440	53	6	0	10
19.....						26	58	237	45	5.4	0	8
20.....						31	53	149	41	4.9	0	5
21.....						32	70	126	40	4.5	0	10
22.....						38	73	114	39	4.0	0	15
23.....						49	78	116	38	3.6	0	12
24.....						54	94	194	36	3.2	0	9
25.....						42	121	183	34	2.7	0	5
26.....						40	247	183	31	2.2	0	5
27.....						47	374	155	29	1.8	0	5
28.....					14.9	64	406	167	27	1.4	0	5
29.....						81	374	146	24	0.9	0	5
30.....						90	434	136	22	0.4	0	5
31.....						128		126		0	0	
Total.....						871.1	3925	11804	1441	255.0	0	104
Mean.....						28.1	131	381	48.0	8.23	0	3.5
Max.....						128	434	880	109	20	0	15
Min.....						3.5	48	126	22	0	0	0
Acre-ft.....						1730	7790	23410	2860	506	0	206

Total run off for period=36,500 acre-feet.

Discharge of Lost Canyon Creek at Dolores, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3.2	71	22	12	6.2	5.4	125	113	17	12	0	0
2.....	3.5	58	20	11	6.2	6.0	190	101	20	13	0	0
3.....	9.8	51	20	12	6.4	7.0	258	93	25	12	0	0
4.....	26	50	20	11	6.2	6.8	325	113	32	12	0	0
5.....	20	43	14	10	6.4	7.8	608	115	26	12	0	0
6.....	16	38	15	11	6.4	8.6	482	122	25	12	0	0
7.....	12	32	16	11	6.6	8.4	375	158	24	11	0	0
8.....	11	29	15	12	6.0	8.2	340	162	23	11	0	0
9.....	10	31	19	11	5.4	9.2	325	175	19	9.8	0	0
10.....	8.6	27	16	9.0	5.6	10	360	233	21	7.4	0	0
11.....	7.7	27	17	9.2	5.2	12	420	237	23	4.5	0	0
12.....	8.6	29	16	9.2	5.4	13	450	197	20	1.6	0	0
13.....	300	31	14	9.4	5.6	13	460	106	20	0.8	0	0
14.....	735	27	15	9.2	5.2	13	460	78	27	0	0	0
15.....	300	27	15	8.6	5.0	14	440	86	24	0	0	0
16.....	201	29	14	8.8	4.6	12	390	95	23	0	0	0
17.....	148	29	14	9.0	4.2	12	385	108	22	0	0	0
18.....	120	29	14	8.0	4.0	15	310	84	21	0	0	0
19.....	115	23	12	8.2	4.0	18	209	76	18	0	0	0
20.....	110	21	12	7.8	4.2	17	162	97	15	0	0	0
21.....	249	21	14	7.2	*4.3	16	186	115	12	0	0	0
22.....	300	23	13	7.4	5.0	22	272	115	12	0	0	0
23.....	168	20	12	7.6	4.8	27	425	97	14	0	0	0
24.....	132	20	13	7.2	4.6	37	300	80	16	0	0	0
25.....	245	24	12	6.8	5.0	32	228	78	16	0	0	0
26.....	254	26	13	*6.6	4.8	28	216	74	16	0	0	0
27.....	168	24	12	6.6	5.2	24	193	74	13	0	0	0
28.....	148	25	13	7.0	5.4	27	179	65	12	0	0	0
29.....	132	23	13	7.0	....	31	140	54	12	0	0	0
30.....	97	23	13	6.6	....	40	127	37	12	0	0	0
31.....	76	....	12	6.4	....	73	....	18	....	0	0	....
Total.....	4128.4	931	460	273.8	147.9	573.4	9340	3356	580	119.1	0	0
Mean.....	133	31.0	14.8	8.83	5.28	18.5	311	108	19.3	3.84	0	0
Max.....	735	71	22	12	6.6	73	608	237	32	13	0	0
Min.....	3.2	20	12	6.4	4.0	5.4	125	18	12	0	0	0
Acre-ft.....	8190	1850	912	543	293	1140	18530	6660	1150	236	0	0

Total run-off for water year=39,500 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Disappointment Creek, Upper Station, Near Cedar, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1.....	127	33	7	.....	.....	.....	.....	45	142	88	11	3
2.....	120	33	7	.....	.....	.....	.....	45	129	88	11	3
3.....	110	35	7	.....	.....	.....	.....	78	106	86	11	5
4.....	80	35	8	.....	.....	.....	.....	166	88	90	10	3
5.....	62	34	8	.....	.....	.....	.....	279	92	88	10	3
6.....	42	32	8	.....	.....	.....	.....	372	88	88	9	3
7.....	38	34	8	.....	.....	.....	.....	229	102	82	9	3
8.....	42	36	9	.....	.....	.....	.....	186	100	81	8	3
9.....	113	36	8	.....	.....	.....	.....	229	86	82	6	3
10.....	148	33	9	.....	.....	.....	.....	183	90	75	5	4
11.....	72	31	9	.....	.....	.....	.....	214	92	68	5	5
12.....	36	30	10	.....	.....	.....	.....	244	94	67	4	4
13.....	34	27	9	.....	.....	.....	.....	244	96	63	4	3
14.....	37	24	10	.....	.....	.....	.....	232	106	61	5	2
15.....	40	22	9	.....	.....	.....	Apr. 16	241	120	54	6	3
16.....	77	20	9	.....	.....	.....	to 30	41	238	106	49	3
17.....	118	19	9	.....	.....	.....	.....	43	244	96	48	3
18.....	85	15	10	.....	.....	.....	.....	41	226	88	46	3
19.....	34	12	10	.....	.....	.....	.....	42	206	88	42	3
20.....	23	10	11	.....	.....	.....	.....	41	200	92	37	3
21.....	25	9	11	.....	.....	.....	.....	36	200	92	31	3
22.....	26	9	12	.....	.....	.....	.....	34	194	88	28	3
23.....	27	9	12	.....	.....	.....	.....	34	186	90	25	3
24.....	29	9	12	.....	.....	.....	.....	35	175	92	23	3
25.....	30	8	11	.....	.....	.....	.....	37	178	90	20	3
26.....	34	8	12	.....	.....	.....	.....	38	184	90	18	3
27.....	62	8	12	.....	.....	.....	.....	40	169	88	16	3
28.....	68	8	12	.....	.....	.....	.....	42	163	82	15	3
29.....	28	8	12	.....	.....	.....	.....	43	152	75	13	3
30.....	29	7	13	.....	.....	.....	.....	45	147	71	12	3
31.....	33	.....	12	.....	.....	.....	.....	144	.....	12	3	.....
Total	1829	634	306	592	5993	2859	1596	236	495
Mean...	59.0	21.1	9.9	39.5	193	95.3	51.5	7.6	16.5
Max...	148	36	13	45	372	142	90	48	181
Min...	23	7	7	34	45	71	12	3	2
Acre-ft.	3630	1260	607	1170	11890	5670	3170	468	982

Total run-off for period=28,850 acre-feet.

Discharge of Disappointment Creek, Upper Station, Near Cedar, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3.4	27	8	6	5	12	68	170	129	35	7.6	2.9
2.....	5.4	24	8	6	5	12	95	200	122	32	7.0	2.9
3.....	92	19	8	6	5	12	126	170	116	28	7.6	2.7
4.....	117	17	8	6	5	12	162	150	112	27	8.2	2.4
5.....	110	16	8	6	5	12	325	150	109	26	8.2	2.6
6.....	46	15	8	6	5	12	414	149	106	26	8.2	2.4
7.....	5.4	15	8	6	5	12	245	153	103	23	7.3	2.0
8.....	3.0	9.4	8	6	5	12	398	162	105	22	7.0	4.5
9.....	3.8	15	8	6	5	12	398	170	102	20	6.4	4.0
10.....	3.0	15	8	6	5	12	370	185	99	19	6.4	2.6
11.....	3.0	16	8	6	5	12	503	175	99	18	3.6	2.5
12.....	2.8	15	8	6	5	12	475	158	93	16	8.9	8.8
13.....	115	15	8	6	5	12	458	151	93	16	5.4	5.2
14.....	61	13	8	6	5	12	468	138	99	14	1.8	4.0
15.....	18	15	8	6	5	12	405	136	99	14	6.7	3.0
16.....	12	13	8	6	5	12	395	138	79	14	5.0	2.7
17.....	7.8	15	8	6	5	12	366	136	76	12	3.8	2.9
18.....	8.2	15	8	6	5	12	236	135	76	16	3.2	2.7
19.....	8.6	14	8	6	5	12	239	131	74	14	3.8	2.5
20.....	20	14	8	6	5	12	224	127	73	11	3.2	2.5
21.....	259	14	8	6	5	12	215	122	72	11	9.7	2.4
22.....	142	14	8	6	5	12	386	114	70	10	1.4	2.0
23.....	26	12	8	6	5	12	434	116	66	9.4	8.2	1.7
24.....	82	10	8	6	5	12	293	114	61	8.2	5.8	2.1
25.....	238	11	8	6	5	12	250	124	52	8.2	4.8	1.8
26.....	208	11	8	6	5	12	220	129	50	8.2	3.5	1.8
27.....	92	10	8	6	5	12	210	126	46	7.6	3.2	1.8
28.....	65	9.8	8	6	5	12	200	133	44	7.6	3.8	1.8
29.....	46	9.4	8	6	.....	12	200	136	41	8.2	3.2	1.6
30.....	35	9.0	8	6	.....	12	230	138	39	8.8	2.9	1.6
31.....	29	.....	8	6	.....	12	.....	138	.....	7.6	2.9	.....
Total	1867.4	427.6	248	186	140	372	9008	4474	2505	497.8	358.6	84.4
Mean...	60.2	14.3	8	6	5	12	300	144	83.5	16.1	11.6	2.81
Max...	259	27	.....	.....	.....	.....	503	200	129	35	8.9	8.8
Min...	2.8	9.0	.....	.....	.....	.....	68	114	39	7.6	2.9	1.6
Acre-ft.	3700	848	492	369	278	738	17870	8870	4970	987	711	167

Total run-off for water year=40,000 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Disappointment Creek Near Cedar, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....		5.1	10	2.8	14	11	68	195	152	100	25	8.4
2.....		4.8	7.6	2.8	14	11	66	242	148	100	24	5.1
3.....		4.5	8.4	2.8	15	8.4	59	218	148	100	19	5.1
4.....		4.2	6.8	2.6	16	9.2	49	305	152	98	18	5.1
5.....		4.2	5.7	2.4	16	6.0	56	307	155	96	17	3.3
6.....		4.2	5.1	2.4	18	6.0	56	383	160	94	17	1.2
7.....		3.9	4.5	2.4	16	6.8	57	340	162	94	17	1.6
8.....		3.6	4.5	1.8	15	6.8	54	340	165	88	16	1.2
9.....		3.6	4.2	0.9	14	10	53	346	160	84	14	1.2
10.....		3.6	3.9	0.9	11	11	59	347	160	80	19	1.2
11.....		5.4	3.3	0.8	12	13	57	339	152	75	18	1.2
12.....		4.8	2.8	0.6	11	13	59	336	142	74	17	1.2
13.....		4.2	2.6	0.6	7.6	15	56	343	142	72	14	1.2
14.....		3.9	2.4	0.6	6.0	16	53	358	138	68	14	5.7
15.....		3.6	2.4	0.2	5.4	19	60	353	132	64	14	4.5
16.....		3.3	2.4	0.2	4.8	23	57	302	132	60	13	4.5
17.....		3.3	2.4	0.4	4.2	25	56	357	128	56	13	4.2
18.....		3.0	2.2	0.6	4.2	24	44	333	124	53	108	1.6
19.....		3.0	2.2	0.6	4.2	20	50	337	120	53	52	1.6
20.....		2.6	2.4	0.6	5.4	17	50	328	120	49	302	10
21.....		2.6	2.4	0.6	5.4	15	46	148	120	30	6.8	4.8
22.....		2.4	3.0	0.8	11	14	59	124	118	27	5.7	630
23.....		4.5	4.5	0.9	28	13	62	114	152	20	5.7	29
24.....		4.8	5.1	1.0	41	12	52	110	152	5.1	5.7	1.6
25.....		5.1	5.7	1.2	52	13	80	114	118	4.8	5.1	1.5
26.....		4.8	5.7	1.6	53	17	368	110	116	3.0	5.7	700
27.....		3.9	6.8	1.6	53	36	359	108	114	2.2	4.8	100
28.....		3.3	6.8	1.8	69	75	278	108	114	1.2	4.8	50
29.....		2.2	5.4	2.0	.....	110	195	104	104	0.6	5.7	120
30.....	5.1	2.0	5.4	2.4	.....	112	218	94	100	0.3	20	550
31.....	5.1	.....	4.8	2.8	.....	142	.....	108	.....	0.3	31	.....
Total.....		114.4	141.4	43.7	529.2	830.2	2836	7651	4100	1652.5	852.0	2312.7
Mean.....		3.81	4.56	1.41	18.9	26.8	94.5	247	137	53.3	27.5	77.1
Max.....		5.4	10	2.8	69	142	368	383	165	100	302	700
Min.....		2.0	2.2	0.2	4.2	6.0	44	94	100	0.3	4.8	1.2
Acre-ft.....		227	280	87	1050	1650	5630	15180	8130	3280	1690	4590

Total run-off for period—41,790 acre-feet.

Discharge of San Miguel River Near Placerville, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....							123	660	1270	742	332	188
2.....							132	740	1230	731	363	193
3.....							158	820	1260	726	350	183
4.....							192	920	1190	714	352	183
5.....							225	787	1170	714	316	190
6.....							237	886	1270	714	301	190
7.....							212	941	1370	770	290	186
8.....							208	1120	1340	742	286	188
9.....							290	1200	1200	753	281	201
10.....							380	1250	1150	638	270	206
11.....							455	1200	1180	570	279	214
12.....							600	1130	1250	585	323	210
13.....							804	902	1220	610	321	204
14.....							936	853	1110	585	281	185
15.....							980	836	1050	610	266	186
16.....							952	842	1030	626	257	188
17.....							941	864	1100	731	257	162
18.....							638	875	1200	665	288	148
19.....							535	886	1220	560	299	143
20.....							590	886	1200	492	303	148
21.....							770	1040	1150	470	308	146
22.....							980	1120	1100	430	316	142
23.....							1200	1140	1080	386	286	146
24.....							1000	1400	1020	389	257	145
25.....							820	1370	958	392	244	146
26.....							800	1430	841	360	242	145
27.....							720	1400	780	370	224	135
28.....							680	1430	698	350	204	118
29.....							620	1370	704	360	204	120
30.....						116	600	1230	731	332	202	113
31.....						115	.....	1230	.....	332	195	.....
Total.....							17778	32758	33102	17449	8697	5052
Mean.....							593	1057	1103	563	281	163
Max.....							1200	1430	1370	753	363	214
Min.....							123	660	698	332	195	113
Acre-ft.....							35260	64970	65660	34610	17250	10020

Total run-off for period—227,800 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Miguel River at Naturita, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	211	122	99	93	96	103	1020	2780	1110	1450	468	169
2	182	122	99	93	98	119	1150	2780	1416	1450	439	169
3	182	122	92	93	96	119	1120	2880	1450	1370	388	169
4	194	106	92	93	90	103	895	6420	1580	1370	369	139
5	596	92	92	93	86	79	560	3280	1580	1370	369	139
6	390	95	92	93	90	79	450	2680	1630	1250	399	139
7	306	106	92	93	100	79	355	2780	1720	1330	447	139
8	232	106	92	93	106	79	560	2950	1900	1210	369	139
9	219	114	92	93	92	79	730	3000	1720	1170	447	139
10	211	110	92	93	86	79	1020	3340	1630	1060	655	139
11	182	121	92	93	95	79	925	3880	1500	1000	535	130
12	182	122	92	93	95	79	730	3520	1290	1330	535	122
13	171	106	92	93	99	109	560	4300	1130	1290	468	285
14	140	106	84	93	99	114	605	3980	858	1000	447	490
15	140	106	80	93	109	119	695	3170	805	830	427	270
16	136	106	82	93	109	126	705	2780	1330	830	1000	169
17	122	106	84	93	122	126	755	2680	1540	1100	680	165
18	122	119	86	93	122	126	538	2460	1900	940	512	242
19	122	106	88	92	119	131	372	1860	2100	1060	388	256
20	122	106	88	93	99	136	430	1760	2300	1330	369	256
21	122	106	86	93	114	160	538	1680	2250	885	369	256
22	122	106	86	93	114	171	680	1680	2300	885	369	970
23	122	106	88	93	114	171	730	1720	2300	940	369	885
24	122	106	88	93	109	290	1150	1810	2300	858	351	468
25	122	106	88	93	106	290	985	2150	2250	830	300	427
26	122	106	86	93	103	211	2020	1900	2100	705	256	407
27	182	106	86	93	99	227	2120	1810	2000	705	242	388
28	232	106	86	93	99	238	2780	1720	1630	655	229	369
29	160	106	88	93	...	290	2780	1720	1540	605	216	316
30	131	106	88	93	...	538	2780	1450	1450	490	204	427
31	122	...	92	93	...	538	...	1410	...	427	169	...
Total	5721	3299	2764	2883	2866	5187	30738	82330	50903	31725	12785	8778
Mean	185	110	89.2	93	102	167	1025	2656	1697	1023	412	293
Max.	596	140	99	...	122	538	2780	6420	2300	1450	1000	970
Min.	122	92	80	...	86	79	355	1410	805	427	169	122
Ac.-ft.	11350	6540	5480	5720	5680	10290	60970	163300	101000	62330	25360	17410

Total run-off for water year—176,000 acre-feet.

Discharge of San Miguel River at Naturita, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	270	499	264	120	134	122	466	2060	2000	775	328	93
2	187	481	264	102	140	132	660	2280	2020	760	344	81
3	590	439	253	113	152	156	1030	2440	1900	745	358	79
4	705	380	259	118	146	150	1620	2730	1770	745	334	90
5	571	423	209	80	148	163	2270	2480	1760	715	285	89
6	512	431	197	85	138	178	2650	2220	1850	795	276	89
7	499	403	206	103	146	144	1930	2530	1870	775	246	90
8	468	369	206	160	138	140	1800	2900	2000	800	227	84
9	456	362	204	167	124	174	2530	3070	1810	790	214	79
10	427	340	180	146	116	212	3130	3380	1640	680	200	78
11	427	340	169	150	110	200	3680	3220	1830	605	207	138
12	351	351	154	176	126	219	4190	3100	1900	620	282	207
13	988	351	150	185	130	241	4790	2420	1710	620	348	165
14	1720	351	148	187	128	219	5270	2080	1620	585	261	130
15	1000	340	156	176	114	165	4900	1970	1380	635	224	116
16	780	326	158	169	103	174	4210	1900	1350	650	198	108
17	655	326	158	187	114	152	4160	1920	1560	890	176	103
18	620	347	138	167	87	156	3550	1860	1680	878	165	93
19	605	333	136	167	110	219	2850	1930	1730	720	158	89
20	580	270	142	163	102	174	2860	2020	1680	580	152	87
21	896	232	165	144	118	150	3040	2290	1550	522	142	93
22	830	242	136	154	142	167	3880	2530	1460	470	132	97
23	620	219	114	185	120	258	4940	2450	1410	431	128	99
24	670	202	146	167	102	322	3300	2680	1300	412	154	96
25	858	262	134	167	146	261	2870	2710	1190	402	176	93
26	885	291	116	167	110	230	2420	2730	1090	387	176	92
27	760	294	124	156	130	185	2330	2880	1020	355	152	99
28	720	294	120	154	132	205	2050	2570	848	348	136	99
29	740	270	144	148	...	222	1800	2440	785	362	124	96
30	635	276	138	146	...	285	1830	2260	780	338	113	96
31	576	...	130	138	...	351	...	2080	...	318	105	...
Total	20601	10044	5218	4641	3506	6126	87006	76130	46493	18708	6521	3048
Mean	665	335	168	150	125	198	2900	2456	1550	603	210	102
Max.	1720	499	264	187	152	351	5270	3380	2020	890	358	207
Min.	187	202	114	80	87	122	466	1860	780	318	105	78
Ac.-ft.	40860	19920	10350	9210	6950	12150	172600	151000	92220	37110	12930	6050

Total run-off for water year—571,400 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cottonwood Creek Near Nucla, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	19	0.9	0.5	0.3
2....	18	1.0	0.4	0.3
3....	16	1.1	0.4	0.3
4....	14	0.8	0.4	0.3
5....	May 6 to 31	12	0.8	0.4	0.3
6....	54	11	0.7	0.4	0.2
7....	57	11	0.7	0.4	0.2
8....	64	10	0.7	0.4	0.2
9....	77	9.2	0.7	0.3	0.2
10....	81	8.1	0.7	0.3	0.2
11....	79	7.3	0.7	1.4	0.2
12....	69	6.8	0.7	0.3	0.2
13....	47	6.6	0.7	0.5	0.2
14....	40	5.7	0.6	0.5	0.1
15....	39	5.7	0.6	0.5	0.1
16....	38	4.5	0.6	0.4	0.1
17....	36	4.1	0.6	0.4	0.1
18....	40	4.3	0.6	0.4	0.2
19....	39	3.4	0.6	0.4	0.1
20....	41	3.1	0.5	0.3	0.1
21....	50	2.9	0.5	0.3	0.1
22....	51	2.8	0.5	0.3	0.1
23....	51	2.8	0.5	0.4	0.1
24....	49	2.1	0.5	0.4	0.1
25....	44	1.8	0.5	0.3	0.1
26....	43	1.6	0.5	0.3	0.1
27....	41	1.1	0.5	0.4	0.1
28....	31	1.0	0.5	0.4	0.1
29....	29	0.9	0.5	0.4	0.1
30....	24	0.8	0.5	0.3	0.1
31....	20	.....	0.5	0.3	.....
Total	1234	197.6	19.8	12.8	4.9
Mean.	47.5	6.59	0.64	0.41	0.16
Max..	81	19	1.1	1.4	0.3
Min..	20	0.8	0.5	0.3	0.1
Acres-ft.	2450	392	39	25	9.7

Total run-off for period = 2,920 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

GREEN RIVER BASIN**GREEN RIVER NEAR LINWOOD, UTAH**

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 29, T. 3 N., R. 21 E., $\frac{1}{4}$ mile upstream from Henrys Fork, 2 miles south of Wyoming-Utah State line, and 5 miles southeast of Linwood.

Drainage Area—14,300 square miles. Zero of gage is 5,844.64 feet above mean sea level, unadjusted.

Records Available—October, 1928 to September 30, 1942

Maximum discharge during period 1928-1942; 15,200 second feet June 4, 1936, from rating curve extended above 11,000 second feet. Gage height 10.11 feet.

Maximum Discharge—Year 1941; 10,000 second feet May 30. Gage height 7.62 feet.

Maximum Discharge—Year 1942; 10,200 second feet June 12. Gage height 7.90 feet.

Accuracy—Records considered good except those for periods of ice effect November 19, 1940 to March 6, 1941, and November 25, 1941 to March 28, 1942, and those for periods of missing gage heights June 2-10, 1941, which are fair.

Diversions for irrigation above station.

YAMPA RIVER AT STEAMBOAT SPRINGS, COLORADO

Location—Water stage recorder in Sec. 17, T. 6 N., R. 84 W., at First Street bridge in Steamboat Springs, $\frac{1}{4}$ mile upstream from Soda Creek.

Drainage Area—604 square miles. Zero of gage is 6,696.23 feet above mean sea level, adjustment of 1912.

Records Available—May 3, 1904 to October 31, 1906; March 1, 1910 to September 30, 1942.

Maximum discharge during period 1904-1906, 1910-1942; 6,820 second feet June 14, 1941. Gage height 7.08 feet.

Maximum Discharge—Year 1941; 3,770 second feet May 14. Gage height 5.32 feet.

Maximum Discharge—Year 1942; 3,330 second feet June 6. Gage height 5.20 feet.

Accuracy—Records considered excellent except those below 300 second feet, which are good. During periods of ice effect December 13, 14, 1940, January 1-5, 28-29, February 2-8, 1941, January 1, 1942 to January 7, 11-13, 19-22, February 10-12, 16-19, and those for periods of missing gage heights July 15-18, 1941, May 4-7, 1942, were estimated, and are fair.

Diversions for irrigation above station.

YAMPA RIVER NEAR MAYBELL, COLORADO

Location—Water stage recorder in Sec. 2, T. 6 N., R. 95 W., at highway bridge 3 miles east of Maybell.

Drainage Area—3,410 square miles. Zero of gage is 5,899.25 feet above mean sea level, unadjusted.

Records Available—April, 1904 to October, 1905; June, 1910 to November, 1912; April 24, 1916 to September 30, 1942.

Maximum discharge during period 1904-1905, 1910-1912, 1916-1942; 17,900 second feet May 19, 1917, from rating curve extended above 12,000 second feet. Gage height 10.4 feet, site and datum then in use, from flood marks.

Maximum Discharge—Year 1941; 11,700 second feet May 15. Gage height 8.50 feet.

Maximum Discharge—Year 1942; 9,930 second feet May 27. Gage height 7.85 feet.

Accuracy—Records considered excellent except those for periods of ice effect November 11, 1940, February 28, 1941, December 27, 1941 to March 24, 1942, which are fair.

Diversions for irrigation above station.

ELK RIVER AT CLARK, COLORADO

Location—Water stage recorder in Sec. 28, T. 9 N., R. 85 W., at Clark 1 mile upstream from Cottonwood Gulch.

Drainage Area—206 square miles. Zero of gage is 7,267.75 feet above mean sea level (state highway bench mark).

Records Available—May 1, 1910 to September 30, 1922; April 23, 1930 to September 30, 1942.

Maximum discharge during period 1910-1922, 1930-1942; daily discharge 4,470 second feet June 6, 9, 1912.

Maximum Discharge—Year 1941; 2,720 second feet May 13, from rating curve extended above 1,900 second feet. Gage height 4.73 feet.

Maximum Discharge—Year 1942; 2,830 second feet May 26. Gage height 4.76 feet.

Accuracy—Records considered good except those November 11 to April 20, 1941, and from November 21 to March 23, 1942, which were estimated, and are fair.

Practically no diversions above station.

LITTLE SNAKE RIVER NEAR DIXON, WYOMING

Location—Water stage recorder in Sec. 6, T. 12 N., R. 90 W., 600 feet upstream from Willow Creek and 1 mile west of Dixon.

Drainage Area—988 square miles. Zero of gage is 6,332.81 feet above mean sea level, unadjusted.

Records Available—May, 1910 to September, 1923; March, 1938 to September 30, 1942.

Maximum discharge during period 1910-1923, 1938-1942; 8,960 second feet May 23, 1920, from rating curve extended above 6,000 second feet. Gage height 8.3 feet, datum then in use.

Maximum Discharge—Year 1941; 4,920 second feet May 14. Gage height 6.58 feet.

Maximum Discharge—Year 1942; 5,350 second feet May 27. Gage height 6.75 feet.

Accuracy—Records considered good except those for periods of ice effect November 26-28, December 15, 1940 to March 5, 1941, December 7, 1941 to March 28, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

LITTLE SNAKE RIVER NEAR LILY, COLORADO

Location—Water stage recorder in Sec. 20, T. 7 N., R. 98 W., 6 miles north of Lily and 10 miles upstream from mouth of highway bridge.

Drainage Area—3,730 square miles.

Records Available—June to August, 1904; May 1, 1922 to September 30, 1942.

Maximum discharge during period 1904, 1922-1942; 14,200 second feet May 27, 1926. Gage height 10.5 feet.

Maximum Discharge—Year 1941; 8,740 second feet August 17, from rating curve extended above 4,300 second feet. Gage height 6.83 feet.

Maximum Discharge—Year 1942; 5,760 second feet May 29. Gage height 5.78 feet.

Accuracy—Records considered fair except those during periods of ice effect.

Diversions for irrigation above station.

SLATER FORK NEAR SLATER, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 21, T. 12 N., R. 89 W., about 1 mile upstream from mouth and 1 $\frac{1}{2}$ miles south of Slater.

Drainage Area—161 square miles.

Records Available—May, 1910 to May, 1912; June, 1931 to September 30, 1942.

Maximum discharge during period 1910-1912, 1931-1942; 1,700 second feet May 19, 1912. (Daily discharge.)

Maximum Discharge—Year 1941; 804 second feet May 14, from rating curve extended above 600 second feet. Gage height 7.86 feet.

Maximum Discharge—Year 1942; 960 second feet May 27, from rating curve extended above 800 second feet. Gage height 7.68 feet.

Accuracy—Records considered good except those during periods of ice effect November 13-17, 1940, February 1-11, 21-25, March 1-3, December 25, 1941 to January 15, 1942, and those during periods of missing gage heights October 13, 1941, July 16-19, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

WHITE RIVER NEAR MEEKER, COLORADO

Location—Water stage recorder in Sec. 30, T. 1 N., R. 93 W., 1 mile upstream from Curtis Creek and $3\frac{1}{2}$ miles east of Meeker.

Drainage Area—762 square miles.

Records Available—May, 1901 to October, 1906; May, 1910 to September 30, 1942. Station maintained $2\frac{1}{2}$ miles downstream prior to October, 1913.

Maximum discharge during period 1901-1906, 1910-1942; 6,070 second feet June 16, 1921.

Maximum Discharge—Year 1941; 4,100 second feet May 14. Gage height 4.07 feet.

Maximum Discharge—Year 1942; 4,560 second feet May 27. Gage height 4.15 feet.

Accuracy—Records considered excellent except those during periods of ice effect November 22, December 7, 1941; January 5, February 12, 14-22, 27 to March 24, 1942, which were computed on basis of weather records, and are fair.

Diversions for irrigation above station.

WHITE RIVER NEAR WATSON, UTAH

Location—Water stage recorder in Sec. 2, T. 10 S., R. 24 E., Salt Lake Meridian, just downstream from Evacuation Creek, and 7 miles north of Watson.

Drainage Area—4,020 square miles.

Records Available—April 1 to October 31, 1906; April 1, 1923 to September 30, 1942.

Maximum discharge during period 1906, 1923-1942: 8,160 second feet July 15, 1929.

Maximum Discharge—Year 1941; 4,210 second feet May 15. Gage height 4.63 feet.

Maximum Discharge—Year 1942; 4,620 second feet May 29. Gage height 4.73 feet.

Accuracy—Records considered good except those for periods of ice effect December 15, 1940 to February 27, 1941, December 30, 1941 to March 19, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversion for irrigation above station.

PICEANCE CREEK NEAR RIO BLANCO, COLORADO

Location—Staff gage in N $\frac{1}{2}$ Sec. 18, T. 3 S., R. 95 W., just downstream from Story Gulch, and 9 miles northwest of Rio Blanco.

Drainage Area—153 square miles. Zero of gage is 6,950 feet above mean sea level, by barometer.

Records Available—March 1, 1941 to September 30, 1942.

Maximum discharge during period 1941-1942; occurred during period of no gage-height record.

Maximum Discharge—Year 1941; 158 second feet April 12. Gage height 4.16 feet.

Accuracy—Records considered poor.

Diversions for irrigation above station.

Discharge of Green River Near Linwood, Utah, for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1100	586	510	350	360	560	2690	1410	7000	4480	1720	1310
2.....	880	586	530	340	360	570	3220	1480	5900	4230	1540	1190
3.....	712	593	550	350	365	560	3940	1510	5050	4020	1390	1110
4.....	664	600	560	350	365	550	4050	1520	4800	3730	1290	1080
5.....	688	593	540	370	360	560	4100	1520	4750	3420	1190	1050
6.....	704	600	560	375	350	579	3390	1520	5100	3140	1120	1020
7.....	720	608	580	380	340	586	3360	1570	6050	2850	1070	990
8.....	696	586	610	385	340	586	3040	1680	6250	2610	1040	960
9.....	688	579	600	385	350	558	2490	1660	6300	2480	1080	930
10.....	680	579	570	385	360	608	2130	1540	7800	2390	1320	888
11.....	656	593	510	390	380	537	1960	1430	9800	2280	1880	864
12.....	624	586	450	400	400	551	1890	1400	9010	2220	2220	856
13.....	600	432	420	400	385	551	1840	1400	7560	2200	2360	864
14.....	586	405	390	390	375	608	1750	1560	6480	2310	2010	848
15.....	579	432	390	380	360	586	1690	2310	6020	2350	1820	824
16.....	579	494	400	390	380	579	1880	3440	5910	2220	1760	784
17.....	579	459	405	390	*357	579	1940	4270	6480	2100	1690	768
18.....	572	437	420	400	370	632	1810	4560	6900	2000	2140	744
19.....	565	415	430	400	390	984	1740	4360	7290	1900	2270	736
20.....	551	425	430	375	390	1930	1580	4320	7290	1820	1680	768
21.....	544	440	420	380	380	2280	1400	5620	7530	1770	1520	824
22.....	544	430	410	380	400	2130	1290	5040	7420	1740	1440	864
23.....	537	415	425	*366	420	2240	1240	4390	7020	1840	1380	1090
24.....	530	400	430	355	420	2220	1170	4180	6740	1830	1340	1120
25.....	506	400	430	370	420	2030	1130	4660	6480	1770	1340	1060
26.....	494	430	415	370	430	1480	1210	5890	6200	1940	1450	1080
27.....	500	450	405	350	460	1510	1300	7080	6000	1930	1960	1000
28.....	524	470	415	365	510	1490	1360	7970	5620	1920	1720	968
29.....	530	500	410	370	....	1510	1340	9140	5240	2070	1410	920
30.....	544	520	400	360	....	1670	1400	9820	4720	2130	1390	904
31.....	565	....	380	350	....	1880	....	8660	....	1890	1390	....
Total	1241	15043	14395	11601	10777	33694	63330	116910	194710	75580	48930	28414
Mean	521	501	464	374	385	1087	211	3771	6490	2438	1578	947
Max	1100	608	610	400	510	2280	4100	9820	9800	4480	2360	1310
Min	494	400	380	340	340	537	1130	1460	4720	1740	1040	736
Ac.-ft.	38160	29840	28550	23010	21380	66830	125600	231900	386200	149900	97050	56360

Total run-off for water year—1,255,000 acre-feet.

Discharge of Green River Near Linwood, Utah, for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	920	1410	530	370	480	460	1930	2200	7720	4630	1820	708
2.....	1010	1380	540	350	470	460	3300	2160	6820	4120	1810	676
3.....	1210	1360	570	340	480	480	4050	2180	6100	3710	1730	652
4.....	1240	1380	560	320	500	510	4830	2050	5650	3490	1610	636
5.....	1320	1390	540	290	520	510	5650	1990	5460	3520	1510	620
6.....	1560	1480	500	300	530	500	6480	1960	5720	3590	1430	604
7.....	1260	1440	480	320	540	480	7130	2020	6350	3800	1350	572
8.....	1290	1420	500	340	540	510	5940	2110	6950	4040	1290	556
9.....	1340	1490	470	350	*520	*550	5340	2060	7380	4430	1210	548
10.....	1320	1340	460	380	510	590	5430	1960	8210	4700	1150	532
11.....	1320	1250	*490	420	480	630	5870	1910	9080	4800	1130	540
12.....	1280	1190	520	450	470	750	5780	1890	9940	4780	1100	540
13.....	1270	1170	500	*470	470	910	5360	1950	9940	4700	1060	532
14.....	1240	1140	480	480	470	950	5210	2060	9260	4360	1000	612
15.....	1230	1100	510	450	450	940	5280	2140	7910	3970	965	676
16.....	1200	1090	520	430	440	880	5070	2240	6690	3680	938	636
17.....	1220	1090	490	420	400	820	4630	2460	6300	3490	902	636
18.....	1220	1110	480	400	380	790	4050	2550	6150	3410	866	628
19.....	1210	1100	470	380	370	760	3440	2880	6140	4360	830	612
20.....	1170	1000	510	370	370	760	3200	3030	5480	3980	803	612
21.....	1170	1050	540	380	400	800	2950	2880	5290	4020	776	604
22.....	1170	692	500	380	450	950	2830	2780	5240	3880	749	596
23.....	1180	320	450	390	490	1100	2780	2620	5290	3540	724	588
24.....	1210	312	420	400	520	1350	2830	2660	4950	3120	716	580
25.....	1300	340	380	420	530	1800	3180	3240	4580	2710	716	564
26.....	1300	500	350	450	520	2950	3180	4430	4360	2460	776	548
27.....	1250	510	320	440	500	2550	2980	5720	4460	2240	830	540
28.....	1240	490	310	470	470	2200	2680	6950	4660	2140	794	532
29.....	1260	500	330	490	....	1930	2580	8680	4880	2110	758	516
30.....	1310	520	350	500	....	1600	2430	9080	4850	1980	740	516
31.....	1330	....	380	490	....	1510	....	8540	....	1870	724	....
Total	38550	30564	14450	12440	13270	31980	126390	101320	191810	111630	32807	17712
Mean	1244	1019	466	401	474	1032	4213	3268	6394	3601	1058	590
Max	1560	1490	570	500	540	2950	7130	9080	9940	4800	1820	708
Min	920	312	310	290	370	460	1930	1890	4360	1870	716	516
Ac.-ft.	76460	60620	28660	24670	26320	63430	250700	201000	380400	221400	65070	35130

Total run-off for water year—1,434,000 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Yampa River at Steamboat Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	182	88	74	100	93	72	406	927	2030	301	157	100
2.....	174	81	74	93	89	86	334	1030	1980	330	151	95
3.....	157	90	70	87	88	107	297	1410	1840	281	138	93
4.....	135	95	63	83	86	114	293	2140	1750	249	127	90
5.....	157	77	63	79	80	110	356	2330	1700	228	120	84
6.....	198	84	68	72	75	102	392	1680	1600	208	122	72
7.....	176	122	68	81	70	114	289	1270	1570	188	127	70
8.....	157	114	58	74	67	112	253	1150	1540	182	116	81
9.....	176	112	63	84	63	100	285	1490	1350	171	132	93
10.....	224	112	65	84	63	107	356	1930	1520	176	130	90
11.....	188	86	65	88	70	95	415	2390	1490	168	162	81
12.....	162	79	58	74	77	114	586	2650	1240	176	179	68
13.....	138	81	58	77	79	81	697	3160	1300	201	218	58
14.....	122	110	56	84	81	79	471	3640	1260	218	157	143
15.....	117	110	54	79	84	97	428	3440	1260	215	130	130
16.....	107	93	48	81	81	100	451	2740	1350	200	146	110
17.....	102	97	68	84	81	90	471	2720	1300	195	214	95
18.....	88	104	81	84	79	107	370	2910	1200	191	249	88
19.....	84	100	93	93	72	140	309	2660	1070	188	211	84
20.....	81	93	84	84	74	195	278	2120	934	548	179	80
21.....	79	86	77	77	81	256	317	2120	842	366	171	75
22.....	77	79	72	74	88	246	410	2430	764	260	162	71
23.....	74	72	72	79	93	289	488	2590	679	211	162	65
24.....	74	65	79	95	100	253	515	2660	643	188	176	81
25.....	72	54	77	81	102	214	548	2760	771	179	162	102
26.....	72	65	97	90	107	179	603	2710	570	185	151	110
27.....	84	70	97	86	112	192	649	2870	460	211	143	100
28.....	88	63	88	86	81	228	703	2430	424	211	124	93
29.....	86	74	93	83	.....	281	823	2260	361	185	122	86
30.....	88	74	95	81	.....	320	856	2160	325	182	117	95
31.....	90	.....	100	84	.....	361	.....	2110	.....	165	112	.....
Total	3809	2630	2278	2581	2316	4941	13649	70887	35123	6957	4797	2683
Mean...	123	87.7	73.5	83.3	82.7	159	455	2287	1171	224	155	89.4
Max....	224	122	100	100	112	361	856	3640	2030	548	249	143
Min....	72	54	48	72	63	72	253	927	325	165	112	58
Ac.-ft.	7560	5220	4520	5120	4590	9800	27070	140600	69670	13800	9510	5320

Total run-off for water year=302,800 acre-feet.

Discharge of Yampa River at Steamboat Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	102	157	110	92	120	97	165	894	2490	392	121	41
2.....	102	176	100	88	97	102	201	982	2590	357	116	38
3.....	112	188	95	95	100	107	267	856	2430	318	128	36
4.....	160	208	114	88	100	112	330	800	2440	287	144	38
5.....	146	195	102	83	97	120	548	880	2570	268	126	47
6.....	140	188	95	84	100	122	797	850	2800	246	126	54
7.....	151	179	95	117	100	146	868	880	2740	225	116	54
8.....	165	151	95	140	100	130	823	996	2520	213	104	48
9.....	168	157	97	157	100	130	934	1150	2470	198	94	59
10.....	168	160	95	116	90	132	1140	1360	2520	190	85	45
11.....	168	149	112	115	84	135	1190	1540	2500	178	81	50
12.....	179	146	104	112	94	135	1320	1650	2490	154	81	70
13.....	338	165	110	109	100	138	1530	1360	2200	136	116	66
14.....	285	151	112	102	90	135	1540	1110	1770	121	108	62
15.....	260	154	110	96	104	146	1530	989	1680	121	104	62
16.....	211	154	122	97	100	146	1190	968	1760	160	99	54
17.....	185	165	132	122	98	135	1280	914	1770	234	92	54
18.....	171	174	132	120	94	130	1250	842	1640	280	85	56
19.....	157	143	138	117	105	140	1000	862	1430	287	83	70
20.....	165	110	122	112	130	138	934	875	1240	234	81	74
21.....	160	113	124	113	84	149	894	1020	1060	192	81	76
22.....	171	122	120	115	84	138	968	1380	950	170	72	68
23.....	162	127	120	117	86	132	1140	1800	884	152	54	62
24.....	149	138	114	120	120	135	1050	2060	800	154	54	62
25.....	149	160	114	122	93	146	1030	2200	704	141	60	62
26.....	174	149	97	114	86	151	947	2620	592	126	66	62
27.....	179	138	120	114	110	160	975	3060	543	116	72	62
28.....	176	132	114	114	93	154	868	2759	538	121	66	66
29.....	179	122	107	114	.....	149	739	2790	470	123	58	66
30.....	179	110	122	117	.....	146	836	2780	406	128	58	62
31.....	149	.....	93	117	.....	157	.....	2660	.....	136	50	.....
Total	5360	4581	3437	3427	2759	4193	28284	45888	50997	6158	2781	1717
Mean...	173	153	111	111	98.5	135	943	1480	1700	199	89.7	57.2
Max....	338	208	138	157	130	157	1540	3060	2800	392	144	76
Min....	102	110	93	82	84	97	165	800	406	116	50	36
Ac.-ft.	10630	9090	6820	6800	5470	8320	56100	91020	101200	12210	5520	3410

Total run-off for water year=316,609 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Yampa River Near Maybell, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	250	302	296	260	245	448	1190	3300	5760	1650	382	210
2....	318	302	318	228	218	538	1490	3540	5560	1510	352	197
3....	358	290	334	194	235	594	1290	4060	5360	1410	329	192
4....	334	312	318	172	235	657	1210	5240	5060	1360	302	189
5....	460	334	285	170	186	580	1270	8480	4940	1240	280	186
6....	388	334	312	168	180	466	1430	9130	5140	1140	260	178
7....	412	296	312	175	180	442	1410	6740	4880	1060	245	168
8....	484	296	280	186	183	436	1210	5300	4580	982	255	165
9....	460	352	307	194	214	424	1170	4940	4980	897	255	165
10....	442	388	296	207	200	340	1140	6420	4360	808	280	161
11....	526	376	235	210	200	352	1260	7710	4450	720	394	168
12....	587	352	214	207	224	250	1290	8900	4490	678	296	168
13....	508	200	122	218	352	376	1480	9330	3770	657	312	168
14....	436	255	135	221	200	358	2260	10700	3590	650	318	197
14....	436	255	135	221	290	358	2260	10700	3590	650	318	197
16....	346	228	150	235	346	307	1570	10900	3700	657	329	192
17....	324	280	170	240	364	307	1520	8780	3890	594	334	302
18....	302	340	220	245	346	32	1530	8100	4130	556	664	250
19....	285	352	275	255	364	948	1370	8660	4310	538	502	210
20....	265	382	265	260	340	1210	1160	8460	4250	526	532	189
21....	250	334	250	260	340	622	1020	6720	4060	824	466	186
22....	240	255	245	250	394	808	999	6180	3820	1140	400	178
23....	235	388	250	245	382	940	1160	6760	3540	832	364	175
24....	228	265	265	235	418	1150	1470	7160	3320	664	346	165
25....	221	296	260	228	412	1050	1810	7440	3050	556	334	161
26....	224	250	235	228	358	888	1020	7560	3080	502	329	172
27....	265	307	240	224	388	776	2340	7710	2860	484	307	197
28....	280	275	232	228	394	699	2640	8130	2450	478	280	218
29....	285	370	240	224	....	880	2760	7400	2240	472	270	228
30....	290	376	250	235	....	1130	3100	6380	1950	460	250	228
31....	296	....	250	240	....	1180	....	5860	....	418	224	....
Total	10681	9362	7701	6866	8278	19813	46379	227490	121090	25148	10520	5743
Mean...	345	312	248	221	296	639	1546	7338	4036	811	339	191
Max....	587	388	334	260	418	1210	3100	11500	5760	1650	664	302
Min....	221	200	122	168	180	250	999	3300	1950	418	224	161
Ac.-ft.	21190	18570	15270	13620	16420	39300	91990	451200	240200	49880	20870	11390

Total run-off for water year=989,900 acre-feet.

Discharge of Yampa River Near Maybell, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	214	664	472	350	340	430	1480	3590	8460	1710	388	93
2....	221	544	454	315	342	440	1830	3730	7930	1630	382	90
3....	245	562	466	311	350	460	2110	3790	7780	1570	370	86
4....	245	608	448	302	352	500	2180	3560	7930	1480	346	82
5....	265	629	418	294	350	550	2280	3300	7350	1380	352	80
6....	364	650	346	295	349	560	2640	3770	7180	1340	346	76
7....	400	587	307	335	349	550	2680	3730	7200	1280	324	74
8....	376	574	346	360	350	640	2600	3820	7200	1210	307	72
9....	394	502	370	390	342	640	2470	4620	7060	1160	280	70
10....	424	442	436	405	322	640	2730	5540	6780	1080	255	70
11....	430	460	400	380	312	680	3050	6400	6780	1020	240	70
12....	450	472	484	378	315	720	3750	7370	6940	940	235	70
13....	594	448	466	360	335	750	4730	7610	7200	848	232	69
14....	1260	454	430	350	355	730	5400	6470	7060	760	224	72
15....	1910	496	442	330	330	690	5880	5360	5860	692	232	71
16....	1310	454	448	345	310	710	6530	4690	5120	664	224	69
17....	990	460	406	375	285	740	5200	4620	5080	728	210	76
18....	832	472	364	380	*276	740	5520	4380	5340	897	200	78
19....	744	502	430	350	280	740	5700	4040	5500	1060	194	81
20....	678	508	406	330	290	700	4490	4000	5380	1300	183	77
21....	636	436	406	315	340	690	4090	4110	4880	1050	172	64
22....	636	334	358	*301	380	940	4430	4690	4250	888	163	92
23....	622	235	312	305	400	1300	5120	5920	3260	760	154	99
24....	636	221	358	315	360	1730	6270	7350	3190	657	148	104
25....	720	370	324	335	400	1530	5460	8830	3080	594	143	104
26....	848	346	270	360	400	1340	4960	9330	2860	562	137	102
27....	816	382	300	360	400	1110	4470	9800	2620	526	132	102
28....	832	446	340	355	450	914	4380	9880	2380	478	120	105
29....	728	472	360	355	....	888	4200	9670	2170	442	113	106
30....	720	466	385	353	....	956	3640	9280	1910	418	104	106
31....	728	....	375	350	....	1230	....	8830	....	400	98	....
Total	20268	14216	12127	10639	9664	25268	120270	182080	165730	29524	7008	2510
Mean...	654	474	391	343	345	815	4009	5874	5524	952	226	83.7
Max....	1910	664	484	405	450	1730	6530	9880	8460	1710	388	106
Min....	214	221	270	294	276	430	1480	3300	1910	400	98	64
Ac.-ft.	40200	28200	24050	21100	19170	50120	238600	361200	328700	58560	13900	4980

Total run-off for water year=1,189,000 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Elk River at Clark, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	139	86	85	50	51	44	126	673	1050	490	141	85
2.....	117	83	84	48	53	18	112	835	1000	455	132	90
3.....	110	90	82	46	52	54	106	1010	1020	430	126	80
4.....	92	94	81	45	51	58	102	1240	1020	416	119	75
5.....	117	71	82	44	51	56	106	918	1050	398	115	69
6.....	139	90	83	44	46	52	100	738	820	384	112	64
7.....	110	86	80	45	42	58	108	600	972	364	117	69
8.....	100	85	82	45	39	58	94	768	948	348	123	86
9.....	152	85	82	46	43	54	104	1020	805	328	112	82
10.....	141	78	82	48	46	56	117	1290	842	312	120	78
11.....	119	73	81	48	52	54	117	1410	666	292	128	72
12.....	106	70	76	48	54	60	141	1700	606	280	140	65
13.....	104	68	72	47	51	54	166	2070	606	268	150	64
14.....	100	69	65	46	50	52	143	1930	673	250	138	108
15.....	98	81	64	46	47	54	128	1460	775	240	129	134
16.....	94	88	68	46	52	58	121	1160	925	236	123	100
17.....	90	88	73	47	57	56	115	1370	1050	226	134	86
18.....	86	*88	77	47	57	58	100	1580	1150	216	154	85
19.....	85	85	80	48	58	60	90	1400	1160	236	155	83
20.....	80	83	80	51	51	64	86	1050	1140	352	139	77
21.....	77	83	69	52	47	69	98	1140	1090	284	131	74
22.....	77	80	71	52	48	69	123	1360	1060	243	128	72
23.....	75	78	68	51	50	80	161	1450	1000	221	126	68
24.....	77	75	62	51	52	82	203	1440	964	208	120	70
25.....	77	67	78	56	54	86	253	1610	972	198	112	84
26.....	75	65	60	53	56	86	316	1570	828	192	123	94
27.....	86	70	*56	51	58	88	340	1840	738	182	115	94
28.....	86	74	59	*49	50	98	384	1240	680	173	100	88
29.....	88	80	71	48	.....	106	445	1070	574	164	96	88
30.....	94	83	65	47	.....	106	547	1060	525	154	92	102
31.....	88	.....	53	49	.....	108	.....	1070	.....	150	92	.....
Total	3079	2396	2271	1494	1418	2086	5152	39072	26709	8690	3842	2486
Mean.	99.3	79.9	73.3	48.2	50.6	67.3	172	1260	890	280	124	82.9
Max..	152	94	85	58	56	108	547	2070	1160	490	155	134
Min..	75	65	53	44	39	44	86	600	525	150	92	64
Acres-ft.	6110	4750	4500	2960	2810	4140	10220	77500	52980	17240	7620	4930

Total run-off for water year=195,800 acre-feet.

Discharge of Elk River at Clark, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	85	134	96	84	66	52	66	380	1590	547	152	56
2.....	80	141	90	76	62	52	69	412	1640	525	143	54
3.....	85	148	92	82	64	52	72	360	1610	505	141	53
4.....	90	148	100	78	64	52	80	389	1560	505	139	52
5.....	87	132	94	74	64	54	90	440	1620	495	141	61
6.....	86	143	90	76	64	54	88	389	1580	500	130	59
7.....	110	121	90	80	64	54	108	500	1660	505	115	61
8.....	118	115	90	86	60	54	126	652	1680	480	108	57
9.....	121	130	*98	90	56	52	145	798	1740	455	102	51
10.....	121	128	94	82	54	52	173	988	1800	420	100	50
11.....	137	115	100	78	58	52	216	1080	1870	389	98	71
12.....	154	117	98	76	60	54	284	1040	1950	368	100	72
13.....	593	134	102	74	60	54	425	835	1280	344	104	64
14.....	352	123	100	70	56	*54	525	659	1120	328	94	53
15.....	243	128	104	66	54	56	645	606	1050	328	90	52
16.....	208	130	108	70	50	56	632	673	1270	416	85	51
17.....	192	132	114	74	48	56	730	564	1410	364	85	51
18.....	173	131	117	74	48	58	680	520	1560	485	92	56
19.....	157	130	120	70	*48	58	525	515	1470	364	90	62
20.....	152	100	115	70	52	58	619	520	1200	312	92	64
21.....	150	86	115	68	56	60	805	687	1060	272	98	61
22.....	148	78	110	66	56	70	925	948	956	246	86	56
23.....	144	80	106	66	52	82	918	1300	1030	239	82	53
24.....	139	90	100	68	50	130	626	1620	1010	223	82	53
25.....	145	105	96	70	52	77	552	1940	976	208	83	51
26.....	161	110	88	*71	52	64	465	2180	902	192	85	48
27.....	154	107	94	72	50	69	425	2070	820	188	77	50
28.....	164	107	94	72	50	65	402	1580	659	182	71	48
29.....	168	105	90	72	.....	65	389	1690	542	180	68	48
30.....	159	100	92	72	.....	72	380	722	542	178	66	47
31.....	115	.....	86	70	.....	65	.....	1490	.....	161	59	.....
Total	4991	3548	3083	2297	1570	1903	12185	28547	39157	10904	3058	1665
Mean.	161	118	99.5	74.1	56.1	61.4	406	921	1305	352	98.6	55.5
Max..	593	148	120	90	66	130	925	2180	1950	547	152	72
Min..	80	78	86	66	48	52	66	360	542	161	59	47
Acres-ft.	9900	7040	6120	4560	3110	3770	24170	56620	77670	21630	6070	3300

Total run-off for water year=224,000 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Snake River Near Dixon, Wyoming, for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	65	72	60	76	122	581	1660	1940	162	9.8	50
2	52	61	75	60	68	130	424	1830	1810	155	12	40
3	52	61	69	56	64	125	345	2330	1670	131	12	32
4	49	69	68	56	64	122	316	3400	1570	106	9.8	30
5	46	65	68	58	67	125	392	3710	1740	88	8.6	31
6	61	61	70	62	68	126	365	2750	1750	73	7.8	31
7	16	75	66	64	64	121	268	2170	1460	63	5.6	28
8	57	73	63	66	66	121	272	1990	1740	56	6.4	31
9	52	78	68	66	68	119	312	2890	1520	48	12	39
10	70	83	66	66	74	107	350	3280	1620	43	28	45
11	73	66	66	68	82	103	320	3640	1500	38	7.6	32
12	56	55	60	68	86	119	148	3530	1210	34	67	25
13	48	51	52	68	84	98	640	4240	1190	32	73	26
14	43	52	50	68	86	105	490	4470	1140	32	48	60
15	40	68	48	66	86	107	496	3760	1210	31	28	142
16	38	72	51	62	*85	109	466	2960	1230	28	28	88
17	35	72	58	*62	88	126	442	2820	1210	25	80	67
18	33	73	65	62	90	230	345	3210	1230	23	168	57
19	34	73	60	66	92	436	276	3240	1150	20	102	55
20	32	72	57	64	94	484	233	2500	1030	22	69	56
21	32	69	56	70	94	442	248	2420	899	30	50	48
22	32	72	58	66	96	386	307	2430	809	22	40	45
23	31	66	64	64	100	484	418	2690	688	18	34	45
24	33	70	71	66	104	320	614	2760	584	16	31	54
25	35	63	66	70	104	236	685	2870	584	14	40	72
26	37	58	60	70	100	198	810	2880	455	14	88	76
27	49	56	62	68	100	205	916	3020	350	13	84	78
28	65	59	66	66	110	272	1020	2740	295	13	63	73
29	68	76	70	66	110	397	1280	2350	232	13	55	72
30	63	75	74	70	110	430	1440	2150	195	12	46	72
31	68	78	68	74	110	345	121	1970	11	11	48	80
Total	1426	2009	1970	2018	2260	6850	15579	88660	34011	1386	1430.0	1600
Mean	46.0	67.0	63.5	65.1	84.3	221	519	2860	1134	44.7	46.1	53.3
Max.	73	83	75	74	110	484	1440	470	1940	162	168	142
Min.	16	51	48	56	64	98	233	1660	195	11	5.6	25
Ac.-ft.	2830	3980	3940	4000	4680	13590	30900	175900	67460	2750	2840	3170

Total run-off for water year=316,000 acre-feet.

Discharge of Little Snake River Near Dixon, Wyoming, for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	162	147	105	100	105	592	1320	3160	448	9.2	3.4
2	69	195	142	100	100	110	664	1410	3240	372	9.2	3.6
3	67	191	144	98	105	110	688	1400	3340	320	9.2	3.4
4	72	198	134	96	105	110	653	1280	3210	252	8.6	4.0
5	81	188	129	96	105	115	1550	1430	3000	206	8.0	6.0
6	93	195	126	100	110	115	1470	1430	3000	171	8.0	7.2
7	104	178	115	105	110	115	1210	1470	2960	134	7.6	8.6
8	104	136	115	110	110	120	872	1840	2910	113	6.8	7.6
9	124	136	115	115	105	120	1160	2300	2790	93	6.4	7.2
10	117	149	120	115	100	125	1240	2660	2730	76	6.4	5.2
11	108	136	125	120	95	130	1740	3680	2720	64	6.4	4.4
12	119	134	125	110	95	135	1960	3240	3050	52	6.4	6.8
13	315	165	120	105	96	135	2080	2560	2660	36	5.2	9.8
14	768	144	125	100	100	130	2280	2050	2040	18	5.2	12
15	427	147	120	100	98	125	2940	1810	1800	15	7.6	9.8
16	270	147	120	105	95	125	1960	1810	1700	17	11	7.6
17	216	152	120	110	92	125	2160	1640	1630	34	8.6	7.2
18	188	171	120	*103	90	130	2280	1470	1610	64	7.2	9.2
19	165	144	120	100	90	125	1610	1370	1590	129	6.0	11
20	152	101	120	98	92	125	1580	1380	1420	91	5.2	16
21	149	117	120	96	94	125	1960	1600	1220	66	6.0	14
22	152	126	115	96	98	130	2400	2190	1100	45	11	13
23	158	117	110	100	96	180	2950	2910	980	26	9.8	8.6
24	149	111	115	105	*95	200	1990	3510	890	18	7.2	8.0
25	195	131	110	105	95	165	1710	3840	784	16	8.6	7.2
26	295	155	105	105	98	160	1480	4310	680	12	9.2	6.8
27	260	152	105	105	100	*148	1320	4860	624	9.2	8.0	6.8
28	224	147	115	105	100	180	1280	4310	688	9.2	8.0	6.8
29	232	152	120	110	110	232	1430	3820	600	12	6.8	6.8
30	220	147	120	105	110	335	1330	3550	490	10	4.8	6.4
31	181	110	120	100	110	490	110	3340	110	9.2	3.6	110
Total	5873	4527	3757	3223	2769	4775	18839	75190	58616	2937.6	231.2	234.4
Mean	189	151	121	104	98.9	154	1628	2425	1954	94.8	7.46	7.81
Max.	768	198	147	120	110	490	2950	4860	3340	448	11	16
Min.	67	104	105	96	90	105	592	1280	490	9.2	3.6	3.4
Ac.-ft.	11650	8980	7450	6390	5490	9470	96870	449100	116300	5830	459	465

Total run-off for water year=418,500 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Snake River Near Lily, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1190	88	.....	.....	.....	77	601	1650	1990	335	10	356
2.....	1240	82	.....	.....	.....	83	580	1800	1900	295	8.0	335
3.....	720	95	.....	.....	.....	87	804	2100	1820	263	6.0	174
4.....	162	88	.....	.....	.....	85	713	2350	1680	216	5.5	163
5.....	320	125	.....	.....	.....	85	615	3050	1600	197	1.6	122
6.....	229	170	.....	.....	.....	86	594	1440	1580	182	4.6	85
7.....	155	118	.....	.....	.....	86	571	3120	1900	159	5.5	68
8.....	114	201	.....	.....	.....	86	587	2510	1680	129	25	58
9.....	101	122	.....	.....	.....	85	451	2070	1670	107	25	50
10.....	111	90	.....	.....	.....	85	580	2800	1760	104	29	42
11.....	95	60	.....	.....	.....	87	713	3360	1560	78	556	36
12.....	95	78	.....	.....	.....	89	800	3520	1680	65	2660	32
13.....	118	75	.....	.....	.....	89	720	3780	1470	60	2060	44
14.....	114	70	.....	.....	.....	78	1000	3940	1240	48	1060	75
15.....	92	50	.....	.....	.....	79	1050	3850	1200	60	491	378
16.....	82	18	.....	.....	.....	82	900	4260	1180	50	250	320
17.....	68	16	.....	.....	.....	100	910	3480	1200	28	1480	497
18.....	62	41	.....	.....	.....	140	840	3040	1200	22	2230	325
19.....	58	39	.....	.....	.....	*350	800	3260	1200	20	787	212
20.....	55	39	.....	.....	.....	1030	650	3340	1180	18	485	136
21.....	55	39	.....	.....	.....	1120	520	2970	1110	16	377	140
22.....	50	39	.....	.....	.....	990	430	2670	1010	16	282	104
23.....	70	41	.....	.....	.....	838	*460	2600	916	46	208	100
24.....	68	42	.....	.....	.....	780	540	2620	829	62	159	95
25.....	68	37	.....	.....	.....	854	800	2680	735	30	201	80
26.....	46	38	.....	.....	.....	629	1000	2760	643	21	361	62
27.....	58	35	.....	.....	.....	479	1100	2960	608	18	970	52
28.....	80	32	.....	.....	.....	411	1200	2840	544	16	685	58
29.....	88	39	.....	.....	.....	439	1350	2890	456	13	508	72
30.....	90	42	.....	.....	.....	451	1500	2460	400	11	356	78
31.....	100	.....	.....	.....	.....	526	.....	2180	.....	10	272	.....
Total	6257	2109	1685	1240	1568	10477	23382	91350	37941	2695	16561.2	4359
Mean...	202	70.3	35.0	40.0	56.0	338	779	2947	1265	86.9	534	145
Max....	1240	201	.....	.....	.....	1120	1500	4440	1990	335	2660	497
Min....	46	32	.....	.....	.....	77	430	1650	400	10	4.6	32
Ac.-ft.	12410	4180	2150	2460	3110	20780	46380	181200	75250	5350	32850	8650

Total run-off for water year=394,800 acre-feet.

Discharge of Little Snake River Near Lily, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	78	411	240	139	113	118	804	1360	3260	615	12	0.6
2.....	82	345	239	132	113	119	1630	1110	3050	526	11	0.6
3.....	95	305	*237	124	116	122	1880	980	3000	491	13	0.5
4.....	95	282	222	118	117	124	1520	934	3120	456	22	0.5
5.....	350	300	212	112	118	126	1860	925	3150	400	8.5	0.6
6.....	497	305	208	113	120	137	2250	916	2890	345	8.0	0.6
7.....	434	295	191	115	120	137	2240	916	2830	291	7.5	0.5
8.....	310	282	190	119	120	138	1780	925	2780	246	6.5	0.3
9.....	233	282	190	122	117	147	1590	934	2750	220	5.0	0.1
10.....	208	250	188	125	114	159	1260	1710	2670	185	4.0	0.2
11.....	182	208	185	129	112	158	1110	2700	2550	147	3.4	0.3
12.....	178	204	184	128	109	170	1510	3280	2610	111	3.0	0.5
13.....	189	212	180	118	109	178	2020	3340	2700	85	2.2	0.5
14.....	305	201	178	113	110	167	2310	2720	3070	62	1.4	0.3
15.....	445	197	173	115	109	152	2260	2140	2150	46	1.0	0.3
16.....	742	229	171	116	106	152	3180	1890	1830	147	0.9	0.2
17.....	657	208	170	117	*102	157	2520	1750	1620	38	0.8	0.1
18.....	447	225	168	115	102	166	2280	1720	1560	92	0.8	0.3
19.....	330	216	168	114	103	190	2340	1510	1470	104	0.7	0.3
20.....	286	225	168	113	106	150	1960	1350	1460	204	0.6	0.2
21.....	268	180	164	*112	110	240	1650	1310	1410	100	0.7	0.2
22.....	237	184	159	111	118	400	1750	1450	1240	136	0.6	0.1
23.....	220	169	158	112	113	900	1960	2030	1080	140	0.6	0.1
24.....	212	162	158	112	108	2120	2260	2730	952	88	4.2	0.0
25.....	268	180	156	113	108	2240	1890	3370	854	55	0.8	0.0
26.....	291	210	144	113	109	1310	1290	3720	788	36	0.7	0.0
27.....	550	240	141	115	112	872	1580	4200	735	23	0.7	0.0
28.....	497	244	147	118	115	671	1280	5040	678	19	0.6	0.0
29.....	520	250	151	119	.....	720	1060	5200	629	18	0.7	0.0
30.....	411	247	149	118	.....	706	1020	3940	678	16	0.7	0.0
31.....	400	.....	141	115	.....	699	.....	3570	.....	15	0.6	.....
Total	10017	7248	5530	3655	3129	12845	54044	69670	59594	5457	123.2	7.9
Mean...	323	242	178	118	112	447	1801	2247	1986	176	3.97	0.26
Max....	742	411	240	139	120	2240	3180	5200	3260	615	22	0.6
Min....	78	162	141	111	102	118	804	916	629	15	0.6	0
Ac.-ft.	19870	14380	10970	7250	6210	27460	107200	138200	118200	10820	244	16

Total run-off for water year=160,800 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Slater Fork Near Slater, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	37	18	15	12	13	24	36	250	292	50	9.2	11
2.....	26	18	17	13	12	26	32	274	265	44	8.4	10
3.....	22	18	16	12	12	22	32	330	247	38	6.8	9.6
4.....	18	21	16	12	13	19	31	582	248	35	5.0	9.6
5.....	17	16	15	12	14	21	40	464	277	27	1.0	10
6.....	22	21	15	13	15	18	33	367	261	21	1.8	9.2
7.....	21	20	16	13	15	19	38	323	261	22	3.4	9.0
8.....	19	18	15	13	16	19	35	362	336	21	5.7	9.4
9.....	21	20	15	13	17	23	38	477	255	20	5.4	10
10.....	29	19	14	13	18	19	43	518	274	19	5.7	10
11.....	21	15	9.6	12	18	19	40	536	264	15	16	9.4
12.....	16	18	13	12	19	13	60	532	202	16	32	8.7
13.....	14	12	11	12	19	21	73	644	202	14	27	9.6
14.....	13	12	11	12	18	18	55	618	203	15	18	34
15.....	13	13	12	13	18	16	54	484	235	14	15	26
16.....	12	15	12	14	17	19	57	389	242	13	15	16
17.....	12	16	13	14	17	21	54	397	222	12	33	13
18.....	12	17	14	13	17	41	42	443	219	10	44	12
19.....	12	18	13	13	17	57	38	401	202	10	26	14
20.....	12	17	13	13	16	47	32	313	179	14	19	12
21.....	13	17	13	14	16	36	34	328	159	16	16	11
22.....	13	17	12	13	18	38	47	356	143	14	15	10
23.....	14	16	13	13	17	42	68	367	128	12	14	10
24.....	14	15	13	12	17	35	84	371	126	11	14	13
25.....	14	16	13	12	16	29	88	399	131	9.8	15	15
26.....	15	17	13	11	14	26	116	414	101	9.4	16	17
27.....	20	15	13	11	13	27	121	427	81	12	15	15
28.....	21	16	13	11	19	26	159	369	72	12	13	15
29.....	20	17	13	12	.....	27	197	327	57	12	11	15
30.....	20	17	12	14	.....	28	214	315	51	10	11	16
31.....	19	.....	13	14	.....	25	.....	302	.....	8.8	12	.....
Total	552	505	417.6	392	451	821	1991	12679	5935	557.0	449.4	389.5
Mean.	17.8	16.8	13.5	12.6	16.1	26.5	66.4	409	198	18.0	14.5	13.0
Max..	37	21	17	14	19	57	214	644	336	50	44	34
Min..	12	12	9.6	11	12	13	31	250	51	8.8	1.0	8.7
Acre-ft.	1090	1000	828	778	895	1630	3950	25150	11770	1100	891	773

Total run-off for water year=49,860 acre-feet.

Discharge of Slater Fork Near Slater, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	16	38	21	20	18	19	57	176	415	72	7.4	4.2
2.....	16	38	21	20	19	19	51	206	440	63	7.4	4.2
3.....	18	37	22	20	20	19	59	177	448	55	8.1	4.5
4.....	19	36	22	19	19	19	84	182	421	49	8.7	4.6
5.....	18	32	20	19	19	21	113	217	414	45	8.0	4.9
6.....	20	35	17	20	18	20	76	198	402	38	6.3	5.2
7.....	21	31	22	19	19	19	70	230	380	32	2.3	5.0
8.....	22	23	18	20	18	20	61	312	389	30	2.5	4.6
9.....	25	20	19	21	20	20	83	402	375	29	3.0	4.3
10.....	22	28	20	22	16	22	96	483	368	26	2.9	4.1
11.....	22	24	20	21	19	23	125	550	380	23	3.6	5.3
12.....	25	29	19	22	21	24	115	574	505	20	2.4	8.4
13.....	68	32	19	20	20	30	199	368	360	15	2.3	11
14.....	140	28	19	20	22	27	250	272	269	13	2.0	7.6
15.....	85	30	19	20	21	19	274	242	239	12	1.4	6.8
16.....	54	30	20	21	20	22	213	282	233	14	1.7	6.2
17.....	47	31	22	22	20	21	244	228	224	18	2.4	6.0
18.....	40	32	22	20	20	23	244	207	226	22	3.2	7.5
19.....	36	26	21	20	21	22	181	213	215	35	2.1	8.1
20.....	37	20	20	19	23	17	192	216	195	19	2.8	8.6
21.....	38	20	19	19	26	19	275	293	163	15	3.3	8.6
22.....	40	25	18	20	24	25	394	394	145	13	3.7	8.6
23.....	40	17	17	21	22	36	567	532	127	11	3.8	8.6
24.....	40	21	20	20	21	47	308	610	129	11	4.6	8.4
25.....	47	24	19	20	21	31	251	638	115	9.8	4.9	8.1
26.....	59	24	17	20	20	21	204	749	106	8.4	5.2	7.6
27.....	45	22	18	20	19	21	182	789	100	8.4	6.6	8.1
28.....	42	21	21	19	20	22	182	527	102	9.0	5.3	8.4
29.....	48	22	22	20	.....	23	187	513	87	8.6	4.7	8.4
30.....	44	21	22	19	.....	31	181	473	72	7.8	4.2	8.2
31.....	33	.....	21	18	.....	40	.....	424	.....	7.2	3.8	.....
Total	1227	826	617	622	564	742	5548	11687	8044	739.2	130.6	204.1
Mean.	39.6	27.5	19.9	20.1	20.1	23.9	185	377	268	23.8	4.21	6.80
Max..	140	38	22	22	26	47	567	789	505	72	8.7	11
Min..	16	17	17	18	16	17	51	176	72	7.2	1.4	4.1
Acre-ft.	2430	1640	1220	1230	1120	1470	11000	23180	15960	1470	259	405

Total run-off for water year=61,380 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of White River Near Meeker, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	385	335	330	258	262	290	401	842	2260	904	345	345
2.....	355	330	325	222	222	282	365	940	2150	868	325	345
3.....	345	340	315	230	238	282	370	1170	2140	786	320	325
4.....	330	355	310	242	258	266	365	1560	2060	735	315	325
5.....	390	305	300	258	266	274	380	1430	2050	714	305	320
6.....	428	340	310	290	278	274	401	1320	2080	686	310	310
7.....	390	340	310	266	274	262	370	1050	1960	672	330	310
8.....	380	335	300	300	258	258	350	1090	2030	651	335	335
9.....	418	340	295	290	290	278	345	1530	1720	630	360	330
10.....	423	335	300	274	286	250	385	1960	1590	617	401	330
11.....	401	300	282	274	282	274	385	2010	1420	578	406	325
12.....	385	282	295	295	295	238	375	2060	1260	591	380	330
13.....	375	254	278	300	286	278	406	2650	1390	584	360	350
14.....	370	258	230	278	274	286	396	3460	1470	559	350	481
15.....	565	310	238	295	274	270	385	3150	1450	529	350	428
16.....	360	330	262	266	282	266	375	2610	1520	517	406	406
17.....	360	345	305	278	266	278	380	2610	1660	523	423	375
18.....	360	345	325	262	278	300	355	2880	1860	529	423	375
19.....	355	355	286	266	282	320	345	2930	2050	499	396	380
20.....	355	340	270	274	274	340	320	2320	2150	598	390	355
21.....	350	335	278	290	274	350	330	2050	2140	553	380	355
22.....	345	335	286	278	278	385	355	2280	2050	493	375	365
23.....	315	310	295	282	278	423	370	2440	1870	451	375	385
24.....	340	295	305	274	278	406	401	2540	1730	440	360	390
25.....	310	300	305	286	286	370	434	2580	1630	434	355	385
26.....	345	315	282	262	266	330	481	2560	1620	423	355	375
27.....	380	274	270	278	238	340	565	2930	1490	418	345	365
28.....	355	320	300	258	262	350	604	2690	1320	423	335	365
29.....	310	335	295	266	.....	360	672	2500	1130	406	340	370
30.....	350	335	295	290	.....	360	735	2280	1010	390	350	370
31.....	350	.....	290	282	.....	370	.....	2300	.....	355	340	.....
Total	11370	9628	9067	8464	7585	9610	12401	66722	52260	17556	11140	10805
Mean.	367	321	292	273	271	310	413	2152	1742	566	359	360
Max.	428	355	330	300	295	423	735	3460	2260	904	423	481
Min.	330	254	230	222	222	238	320	842	1010	355	305	310
Ac.-ft.	22550	19100	17980	16790	15040	19060	24600	132300	103700	34820	22100	21430

Total run-off for water year=449,500 acre-feet.

Discharge of White River Near Meeker, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	335	421	353	300	281	295	335	750	3000	768	402	273
2.....	347	440	330	269	305	300	341	777	3000	710	402	273
3.....	408	440	335	290	330	320	365	710	2900	670	460	277
4.....	402	428	353	265	320	300	414	710	2660	628	440	295
5.....	389	421	335	280	325	310	586	822	2570	593	428	315
6.....	460	428	290	285	315	310	572	750	2660	558	408	325
7.....	421	414	300	325	325	280	509	822	2770	551	395	305
8.....	421	371	305	330	330	300	488	990	2830	565	395	305
9.....	454	395	310	335	310	310	509	1170	2720	551	395	290
10.....	414	402	325	310	281	320	523	1500	2770	509	365	290
11.....	408	389	347	320	265	320	516	1710	2880	495	341	341
12.....	408	395	335	325	280	370	600	1840	3090	454	389	341
13.....	686	414	330	320	290	340	649	1390	2610	414	395	325
14.....	742	395	325	310	330	330	694	1190	2280	395	359	320
15.....	579	395	325	290	280	320	831	1100	2080	467	347	310
16.....	530	395	320	295	260	340	795	1130	2020	558	341	305
17.....	495	402	330	335	260	330	858	1030	2130	579	335	295
18.....	474	428	310	315	250	350	1040	1020	2260	544	335	300
19.....	460	383	325	281	260	330	894	1120	2340	530	341	325
20.....	467	347	315	300	270	310	831	1190	2190	481	320	315
21.....	460	310	320	315	310	315	822	1540	1950	460	315	305
22.....	460	320	341	325	360	320	903	2050	1760	460	300	300
23.....	447	295	300	347	305	320	1300	2360	1590	434	305	295
24.....	434	300	325	335	285	325	1110	2920	1460	428	315	295
25.....	467	335	325	341	310	315	990	3000	1340	395	315	285
26.....	502	365	273	335	300	315	960	3310	1220	383	305	285
27.....	460	359	265	315	310	300	940	3870	1090	395	285	285
28.....	467	347	290	320	320	305	894	3430	1080	428	277	285
29.....	460	341	335	325	.....	320	831	3430	980	414	273	281
30.....	447	341	335	305	.....	320	804	3360	840	440	273	281
31.....	395	.....	320	277	.....	325	.....	3280	.....	395	273	.....
Total	14299	11416	9927	9620	8407	9865	21904	54271	65070	15652	10829	9022
Mean.	461	381	320	310	300	318	730	1751	2169	505	349	301
Max.	742	440	353	340	360	370	1300	3870	3090	768	460	341
Min.	335	295	265	265	260	280	335	710	840	383	273	273
Ac.-ft.	28360	22640	19690	19080	16680	19570	43450	107600	129100	31050	21480	17890

Total run-off for water year=476,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of White River Near Watson, Utah, for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1600	383	410	280	280	644	508	990	2430	1200	354	426
2.....	981	378	394	260	270	950	571	1100	2390	1080	342	414
3.....	564	372	372	220	270	1140	557	1170	2270	980	318	414
4.....	515	388	350	230	290	810	522	1460	2240	900	312	408
5.....	564	416	330	260	310	599	536	1850	2200	820	312	402
6.....	728	394	325	300	340	494	522	2250	2300	790	300	396
7.....	600	366	325	310	370	462	564	2170	2380	745	324	390
8.....	520	383	320	300	350	420	557	1990	2500	754	462	384
9.....	476	394	310	310	320	396	501	1840	2570	700	692	390
10.....	498	405	305	300	350	396	468	2120	2230	676	1300	408
11.....	510	394	310	300	390	366	501	2550	2020	668	644	396
12.....	466	378	330	320	440	342	543	2680	1820	628	536	390
13.....	427	340	230	320	410	348	564	3090	1630	628	487	390
14.....	405	340	112	310	410	330	620	3430	1640	840	420	692
15.....	394	290	150	310	*425	348	599	3930	1700	652	402	644
16.....	388	275	210	320	415	342	550	3820	1690	599	480	543
17.....	383	345	300	300	400	342	557	3130	1720	571	1350	480
18.....	383	394	350	*293	410	378	564	2840	1790	550	810	462
19.....	378	405	300	295	450	501	536	2950	1890	571	620	426
20.....	372	405	250	305	460	578	508	3220	2030	578	557	390
21.....	361	394	260	310	450	578	474	2840	2110	599	529	384
22.....	356	383	270	315	450	515	456	2560	2120	613	550	1100
23.....	356	366	290	320	460	494	456	2590	2070	564	543	1120
24.....	356	378	310	300	470	585	494	2660	1950	522	550	613
25.....	350	366	320	305	480	599	536	2740	1830	515	529	444
26.....	350	345	300	300	450	508	578	2810	1750	529	515	408
27.....	510	350	250	290	520	468	628	2850	1700	474	501	390
28.....	416	325	270	300	564	468	709	2920	1580	432	468	384
29.....	388	356	310	280	.....	468	830	2930	1450	402	438	384
30.....	378	383	300	310	.....	474	920	2710	1320	384	426	390
31.....	372	.....	300	300	.....	487	.....	2510	.....	372	456	.....
Total	15243	11091	9163	9173	11204	15830	16929	78700	59320	20336	16527	14462
Mean.	495	370	296	296	400	511	564	2539	1977	656	523	482
Max..	1600	416	410	320	564	1140	920	3930	2570	1200	1350	1120
Min..	350	275	112	220	270	330	456	990	1320	372	300	384
Ac.-ft.	30430	22000	18170	18190	22220	31400	33580	156100	117700	40340	32780	28680

Total run-off for water year=551,600 acre-feet.

Discharge of White River Near Watson, Utah, for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	404	555	454	355	380	410	1470	1620	3460	1060	510	320
2.....	386	528	468	340	360	460	1950	1560	3280	970	475	330
3.....	392	528	440	330	380	430	2050	1650	3190	920	528	336
4.....	422	555	454	310	390	445	2290	1540	3170	880	528	325
5.....	428	573	440	330	400	460	2140	1470	2940	830	564	330
6.....	468	564	404	320	390	440	2590	1580	2830	810	489	347
7.....	573	537	404	340	400	450	1750	1610	2870	790	468	369
8.....	489	519	315	360	390	450	1310	1640	2980	780	447	364
9.....	428	503	352	380	400	400	1130	1870	2930	770	440	352
10.....	440	482	410	380	410	420	1180	2180	2800	770	440	342
11.....	428	482	404	390	380	440	1200	2700	2750	730	428	352
12.....	422	482	428	370	380	460	1290	3030	2840	740	428	503
13.....	1230	482	468	380	400	460	1450	3280	2980	690	440	468
14.....	2480	489	434	390	410	540	1550	3000	2960	645	482	440
15.....	1350	482	404	380	400	520	1630	2600	2600	609	447	410
16.....	810	468	404	360	370	500	1760	2350	2400	700	434	398
17.....	690	468	392	360	370	480	1710	2290	2250	760	428	392
18.....	636	489	404	370	390	500	1810	2180	2260	950	416	386
19.....	600	503	404	350	370	520	2010	2030	2320	1040	416	380
20.....	591	489	380	350	350	591	1820	2090	2330	880	410	398
21.....	636	428	386	360	350	537	1620	2110	2230	710	398	416
22.....	820	404	404	370	420	690	1550	2470	2060	618	380	416
23.....	609	410	404	370	420	1780	1710	2930	1900	582	374	410
24.....	537	428	404	400	420	2460	2240	2680	1760	555	428	404
25.....	636	369	380	420	*473	1620	2290	3770	1630	537	386	404
26.....	1320	380	392	410	420	1000	2170	3770	1520	510	489	398
27.....	750	428	259	410	450	681	2090	3800	1430	510	386	392
28.....	636	475	214	400	430	609	2110	4160	1320	510	358	398
29.....	1240	482	247	380	.....	780	2030	4340	1280	528	342	392
30.....	750	468	300	380	.....	1090	1750	3880	1200	519	330	386
31.....	600	.....	370	390	.....	1230	.....	3710	.....	510	320	.....
Total	22201	14450	12023	11435	11133	21883	53960	79890	72470	22413	13409	11558
Mean.	716	482	388	369	398	706	1799	2577	2416	723	433	385
Max..	2480	573	468	420	473	2460	2590	4340	3460	1060	564	503
Min..	386	369	214	310	350	400	1130	1470	1200	510	320	326
Ac.-ft.	44040	28660	23850	22680	22080	43400	107000	158500	143700	44460	26600	22920

Total run-off for water year=687,900 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Piceance Creek Near Rio Blanco, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						2.5	40	80	22	8.5	6.3	4.4
2						2.5	38	75	22	8.8	6.1	4.4
3						2.5	33	85	22	8.8	6.1	4.4
4						2.5	34	113	23	9.1	6.3	4.4
5						2.5	30	93	22	9.1	6.5	4.0
6						2.5	42	82	20	8.8	6.5	4.0
7						2.5	27	66	22	10	6.3	4.5
8						2.5	28	68	36	10	6.7	4.2
9						2.5	38	73	24	9.1	16	4.4
10						2.5	49	78	24	8.8	28	4.4
11						2.5	51	93	21	8.5	24	4.0
12						2.5	115	102	20	8.8	20	3.8
13						2.5	73	110	19	8.8	17	3.4
14						2.5	62	90	20	8.8	13	4.0
15						2.5	61	80	21	8.5	9.7	4.0
16						2.5	63	72	19	8.1	8.3	4.2
17						2.5	59	65	19	7.9	7.9	3.9
18						11	50	60	17	7.9	6.5	3.6
19						33	44	57	14	7.9	6.3	3.9
20						36	40	56	15	7.7	6.1	3.8
21						29	38	51	16	7.7	5.7	3.9
22						28	47	50	16	7.5	8.1	3.6
23						14	58	46	16	7.3	6.7	3.8
24						7.7	59	42	16	7.7	5.9	3.4
25						7.9	55	41	16	7.5	5.5	3.6
26						7.7	63	38	16	7.3	5.1	3.4
27						10	78	40	12	6.9	4.5	3.4
28						19	70	38	11	6.7	4.4	3.6
29						22	83	30	11	6.5	4.7	3.4
30						26	83	26	10	6.1	4.4	3.4
31						44	...	21	...	6.3	4.4	...
Total						337.8	1611	2021	562	251.4	273.0	117.2
Mean						10.9	53.7	65.2	18.7	8.11	8.81	3.91
Max.						44	115	113	36	10	28	4.5
Min.						2.5	27	21	10	6.1	4.4	3.4
Acre-ft.						670	3200	4010	1110	499	541	232

Total run-off for period=10,260 acre-feet.

Discharge of Piceance Creek Near Rio Blanco, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.6	4.4	3.8				12	283	75	22	19	8.2
2	3.9	4.3	3.8				21	263	71	22	18	8.2
3	3.6	4.3	3.8				62	206	64	22	20	7.8
4	3.3	4.3	3.8				97	215	56	21	20	7.8
5	3.3	4.3	3.8				167	260	55	21	18	7.4
6	3.6	4.3	3.8				98	242	52	21	18	7.8
7	3.9	4.2	3.8				81	221	48	22	15	7.4
8	3.8	4.2	3.6				128	248	45	22	14	7.0
9	3.9	4.2	3.4				158	250	42	22	13	6.6
10	3.8	4.2	3.4				181	253	38	21	12	6.6
11	4.2	4.1	3.4				260	267	37	21	12	6.6
12	4.4	4.1	3.4				271	297	36	20	19	6.6
13	4.4	4.1	3.4			Mar. 15	280	286	35	19	14	6.6
14	4.4	4.0				to 31	282	332	36	19	12	7.4
15	5.1	4.0				2.2	292	318	36	19	12	6.6
16	5.5	4.0				2.3	300	289	31	29	12	6.6
17	5.9	4.0				2.3	268	280	34	27	12	6.6
18	5.3	3.9				2.4	280	259	33	28	12	6.6
19	5.5	3.8				2.4	325	229	32	27	12	6.3
20	5.5	3.8				2.4	230	191	32	25	12	6.6
21	5.1	3.8				2.4	188	161	32	24	12	5.9
22	4.9	3.8				2.3	196	162	32	24	11	5.9
23	5.3	3.8				2.9	339	145	31	23	11	5.9
24	4.9	3.4				5.1	368	149	30	21	11	5.9
25	4.5	3.8				3.6	283	129	29	21	11	5.9
26	4.5	3.8				2.9	294	118	27	19	13	6.3
27	4.5	3.8				2.7	229	110	23	18	11	6.3
28	4.4	3.8				2.9	241	101	23	23	11	5.9
29	4.4	3.8				3.2	242	94	23	18	11	5.9
30	4.4	3.8	Dec. 1			3.4	231	88	23	22	9.3	5.9
31	4.4		to 13			5.7	...	80	...	19	8.2	...
Total	138.2	120.1	47.2			51.1	6404	6526	1161	682	415.5	201.1
Mean	4.46	4.00	3.63			3.01	213	211	38.7	22.0	13.4	6.70
Max.	5.9	4.4	3.8			5.7	368	332	75	29	20	8.2
Min.	3.3	3.4	3.1			2.2	12	80	23	18	8.2	5.9
Acre-ft.	274	238	94			101	12700	12940	2300	1350	824	399

Total run-off for period=31,220 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

SAN JUAN RIVER BASIN

SAN JUAN RIVER NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 12, T. 36 N., R. 1 W., $\frac{1}{4}$ mile upstream from private highway bridge, $\frac{1}{2}$ mile upstream from West Fork of San Juan River, and $9\frac{1}{2}$ miles northeast of Pagosa Springs.

Drainage Area—86.9 square miles. Zero of gage is 7,599.48 feet above mean sea level.

Records Available—May, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; that of May 12, 1941. (Greatest known flood occurred October 5, 1911. (Discharge not determined.)

Maximum Discharge—Year 1941; 2,070 second feet May 12 from rating curve extended above 1,220 second feet. Gage height 4.84 feet.

Maximum Discharge—Year 1941; 1,330 second feet October 14. Gage height 3.89 feet.

Accuracy—Records considered fair. Ice effect periods occurred November 12-24, November 29, 1940; January 22, January 27-February 17, March 1-13, 1941, and November 25, 26, December 6, 1941 to March 22, 1942.

Diversions for irrigation above station.

SAN JUAN RIVER AT PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in S $\frac{1}{2}$ Sec. 13, T. 35 N., R. 2 W., under lower highway bridge at Pagosa Springs.

Drainage Area—298 square miles. Zero of gage is 7,052.03 feet above mean sea level, unadjusted.

Records Available—January, 1911 to November, 1914; May, 1935 to September 30, 1942.

Maximum discharge during period 1911-1914, 1935-1942; 5,790 second feet May 13, 1941, from rating curve extended above 4,500 second feet. Gage height 7.92 feet.

Maximum Discharge—Year 1941; 5,790 second feet May 13. Gage height 7.92 feet.

Maximum Discharge—Year 1942; 3,660 second feet October 14. Gage height 6.72 feet.

Accuracy—Records considered good except for period of missing gage heights January 11 to 14, 1941, which are fair.

Diversions for irrigation above station.

SAN JUAN RIVER AT ROSA, NEW MEXICO

Location—Water stage recorder in Sec. 21, T. 32 N., R. 5 W., about 75 feet upstream from highway bridge, and $\frac{1}{4}$ mile down-

stream from Piedra River, and about 1 mile north of Rosa. From 1895 to 1899, and August 21, 1910 to September 30, 1920, a station was maintained at Arboles. For this period the San Juan River at Arboles plus the Piedra River at Arboles, gives the total flow of the San Juan at Rosa.

Drainage Area—1,990 square miles.

Records Available—October 1, 1920 to September 30, 1942.

Maximum discharge during period 1930-1942; that of April 23, 1942.

Maximum Discharge—Year 1941; 16,800 second feet May 13, from rating curve extended above 10,200 second feet by logarithmic plotting. Gage height 8.26 second feet.

Maximum Discharge—Year 1942; 17,200 second feet April 23, from rating curve extended above 10,200 second feet. Gage height 8.50 feet.

Accuracy—Records considered good except those for period of ice effect November 13-16, 1940, November 27 to February 8, 1941, February 22-27 and November 15, 1941, February 23, 1942, and for periods of missing gage heights June 13, 14, July 27-August 3, 1941, which were computed on basis of weather records and records for stations at Pagosa Springs and near Blanco and are poor.

Diversions for irrigation above station.

WEST FORK OF SAN JUAN RIVER ABOVE BORNS LAKE NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 36, T. 38 N., R. 1 W., $\frac{1}{2}$ mile downstream from Beaver Creek, $1\frac{1}{2}$ miles upstream from Borns Lake, and 16 miles northeast of Pagosa Springs.

Drainage Area—41.2 square miles.

Records Available—April, 1937 to September 30, 1942.

Maximum discharge during period 1937-1942; that of June 11, 1942.

Maximum Discharge—Year 1941; 888 second feet June 23, from rating curve extended above 450 second feet. Gage height 4.87 feet.

Maximum Discharge—Year 1942; 1,190 second feet June 11, from rating curve extended above 600 second feet. Gage height 4.25 feet.

Accuracy—Records considered good except those for periods of ice effect November 11, 1940 to February 28, 1941, November 18, 1941 to April 19, 1942, which were computed on basis of discharge measurements and records for San Juan at Pagosa Springs. During period of no gage height June 19 to August 18, 1941, records computed on basis of station at Pagosa Springs, and are fair.

No diversions or regulations above station.

WEST FORK OF SAN JUAN RIVER NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in the NE $\frac{1}{4}$ Sec. 12, T. 36 N., R. 1 W., 30 feet downstream from highway bridge, 0.6 of a mile upstream from mouth, and 10 miles northeast of Pagosa Springs.

Drainage Area—87.9 square miles. Zero of gage is 7,607.42 feet above mean sea level, adjustment of 1912.

Records Available—April 26, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; that of June 23, 1941.

Maximum Discharge—Year 1941; 2,300 second feet June 23, from rating curve extended above 1,300 second feet. Gage height 5.83 feet.

Maximum Discharge—Year 1942; 1,420 second feet June 11. Gage height 4.65 feet.

Accuracy—Records considered good except those for period of ice effect November 11-17, 1940, November 28 to February 10, 1941, and from December 22, 1941 to April 17, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

Diversions for irrigation above station.

TURKEY CREEK NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder at west side of Sec. 10, T. 36 N., R. 1 W., 2 $\frac{1}{4}$ miles upstream from mouth and 8 miles northeast of Pagosa Springs.

Drainage Area—23.0 square miles.

Records Available—May 1, 1937 to September 30, 1942.

Maximum discharge during period 1937-1942; that of May 12, 1941.

Maximum Discharge—Year 1941; 860 second feet May 12, from rating curve extended above 550 second feet. Gage height 3.73 feet.

Maximum Discharge—Year 1942; 332 second feet May 26. Gage height 2.58 feet.

Accuracy—Records considered fair. Ice effect period during November 11-14, November 28, 1940, March 17, 1941, November 21-26, 1941, December 5 to March 28, 1942.

Diversions for irrigation above station. Most of water is diverted from drainage basin above station during the irrigation season.

RIO BLANCO NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in center of Sec. 1, T. 34 N., R. 1 E., at highway bridge 0.4 mile upstream from Leche Creek, and 12 $\frac{1}{2}$ miles southeast of Pagosa Springs.

Drainage Area—58.0 square miles.

Records Available—May 24, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; 1,340 second feet May 17, 1937, from rating curve extended above 600 second feet. Gage height 4.06 feet.

Maximum Discharge—Year 1941; 1,260 second feet May 11, from rating curve extended above 710 second feet. Gage height 3.77 feet.

Maximum Discharge—Year 1942; 1,490 second feet October 12. Gage height 3.32 feet.

Accuracy—Records considered good except those for periods of ice effect November 28, 1940 to February 7, 1941, February 11, 14, 15.

Diversions for irrigation above station.

RITO BLANCO NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in SW $\frac{1}{4}$ Sec. 12, T. 34 N., R. 1 W., at road crossing 0.1 mile upstream from Sheep Cabin Creek, and 7 $\frac{3}{4}$ miles southeast of Pagosa Springs. Prior to June 20, 1941, recorder at site 100 feet downstream at datum 2.00 feet lower.

Drainage Area—23.3 square miles.

Records Available—May 1, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 475 second feet May 13, from rating curve extended above 350 second feet, site and datum then in use. Gage height 3.21 feet.

Maximum Discharge—Year 1942; 387 second feet October 14. Gage height 3.24 feet.

Accuracy—Records considered good except those for periods of ice effect November 12-14, 17-21, November 28 to December 17, 1940, March 8, 1941 to March 12, 14, 15 and November 21-28, December 5, 1941 to April 15, 1942, which were computed from discharge measurements and records for San Juan River at Pagosa Springs, and are fair.

Diversions for irrigation above station.

NAVAJO RIVER AT BANDED PEAK RANCH NEAR CHROMO, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 24, T. 33 N., R. 2 E., on Banded Peak Ranch $\frac{1}{2}$ mile downstream from Aspen Creek, and 9 miles northeast of Chromo.

Drainage Area—69.8 square miles.

Records Available—April 1, 1937 to September 30, 1942.

Maximum discharge during period 1937-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 1,340 second feet May 13.
Gage height 4.02 feet.

Maximum Discharge—Year 1942; 760 second feet May 26.
Gage height 3.02 feet.

Accuracy—Records considered fair.

No diversions or regulations above station.

NAVAJO RIVER AT EDITH, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 24, T. 32 N., R. 1 W., 340 feet downstream from highway bridge at Colorado-New Mexico State line $\frac{1}{4}$ mile east of Edith and 1 mile upstream from Coyote Creek. Prior to June 27, 1941, water stage recorder at site 250 feet upstream and at datum 2.00 feet higher.

Drainage Area—165 square miles. Zero of gage is 7,033.00 feet above mean sea level (Bureau of Reclamation bench mark).

Records Available—September, 1912 to December, 1928, June, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; that of April 23, 1942.

Maximum Discharge—Year 1941; 2,380 second feet May 13, from rating curve extended above 2,200 second feet. Gage height 6.36 feet, site and datum then in use.

Maximum Discharge—Year 1942; 2,840 second feet April 23, from rating curve extended above 2,200 second feet. Gage height 6.55 feet.

Accuracy—Records considered good except those for periods of ice effect November 14-25, 1940, December 17, 1940 to February 22, 1941.

Diversions for irrigation above station.

LITTLE NAVAJO RIVER AT CHROMO, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 4, T. 32 N., R. 1 E., at highway bridge at Chromo $\frac{1}{4}$ mile upstream from mouth. Prior to June 20, 1941, water stage recorder 20 feet downstream at same datum.

Drainage Area—21.9 square miles. Zero of gage is 7,288.52 feet above mean sea level, datum of 1929.

Records Available—May 28, 1935 to September 30, 1942.

Maximum discharge during period 1935-1942; that of May 14, 1941.

Maximum Discharge—Year 1941; 399 second feet May 14, from rating curve extended above 250 second feet. Gage height 4.32 feet, site then in use.

Maximum Discharge—Year 1942; 366 second feet April 22. Gage height 4.96 feet.

Accuracy—Records considered fair. Discharge computed during periods of ice effect November 23 to December 28, 1940,

January 3, 4, 5 and November 20, 1941 to March 19, 1942, on basis of discharge measurements and weather records.

Diversions for irrigation above station.

PIEDRA RIVER AT BRIDGE RANGER STATION NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 22, T. 37 N., R. 3 W., $\frac{1}{4}$ mile downstream from Bridge Ranger Station, 1 mile downstream from Middle Fork and 15 miles northwest of Pagosa Springs.

Drainage Area—82.3 square miles.

Records Available—April 1, 1937 to September 30, 1941 (discontinued).

Maximum discharge during period 1937-1941; that of June 23, 1941.

Maximum Discharge—Year 1941; 1,570 second feet June 23, from rating curve extended above 800 second feet. Gage height 4.41 feet.

Accuracy—Records considered good except those for periods of ice effect November 14-17, 1940, November 26, 1940 to March 14, 1941, and for periods of no gage heights March 18-20, 21-22, 24-25, 26-29, 31 to April 5, which were computed on basis of records of station near Piedra, and are fair.

Diversions for irrigation above station.

PIEDRA RIVER NEAR PIEDRA, COLORADO

Location—Water stage recorder in Sec. 8, T. 34 N., R. 4 W., at bridge on U. S. Highway 450, $\frac{3}{4}$ mile upstream from Yellow Jacket Creek, and $1\frac{1}{2}$ miles north of Piedra. This station is $1\frac{1}{2}$ miles downstream from station used March, 1940 to May 12, 1941.

Drainage Area—371 square miles.

Records Available—November, 1911 to July, 1912; October, 1939 to September 30, 1942.

Maximum discharge during period 1911-1912, 1939-1942; 5,400 second feet May 13, 1941, from rating curve extended above 3,040 second feet. Gage height 8.0 feet from high water marks, present site and datum.

Maximum Discharge—Year 1941; 3,040 second feet May 13. Gage height 8.0 feet.

Maximum Discharge—Year 1942; 3,600 second feet April 23. Gage height 6.20 feet.

Accuracy—Records considered excellent except those for periods December 16, 1940 to February 16, 1941, April 28 to September 30 and during period of ice effect December 24-26, 1941, January 4, 14, 1942, which are fair. Chain gage read twice daily December 16 to February 16, and May 25 to September 26, 1941.

Diversions for irrigation above station.

WILLIAMS CREEK NEAR BRIDGE RANGER STATION
NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 10, T. 37 N., R. 3 W., at bridge $2\frac{1}{2}$ miles north of Ranger Station, $3\frac{1}{2}$ miles upstream from mouth and 17 miles northwest of Pagosa Springs.

Drainage Area—43.7 square miles.

Records Available—May 1, 1937 to September 30, 1941 (discontinued).

Maximum discharge during period 1937-1941; 940 second feet May 11, 1941, from rating curve extended above 450 second feet. Gage height 3.68 feet.

Maximum Discharge—Year 1941; that of May 11.

Accuracy—Records considered good except those for periods of ice effect, or no gage height record November 12, 1940 to April 24, 1941. Discharge computed on basis of weather records and records for Piedra River near Piedra.

No diversions for irrigation above station.

WEMINUCHE CREEK NEAR BRIDGE RANGER STATION
NEAR PAGOSA SPRINGS, COLORADO

Location—Water stage recorder in Sec. 5, T. 37 N., R. 3 W., $3\frac{1}{2}$ miles northwest of Bridge Ranger Station, 5 miles upstream from mouth, and 19 miles northwest of Pagosa Springs.

Drainage Area—53.4 square miles.

Records Available—April, 1937 to September 30, 1941 (discontinued).

Maximum discharge during period 1937-1941; that of May 13, 1941.

Maximum Discharge—Year 1941; 867 second feet May 13, from rating curve extended above 500 second feet. Gage height 5.34 feet.

Accuracy—Records considered good except those for periods of ice effect November 11, 1940 to April 4, 1941, and period of no gage height record April 13 to May 5, August 9-15, 26-29, September 8-10, discharges computed on basis of records for Piedra River near Piedra and are fair.

A few diversions for irrigation above station.

LOS PINOS RIVER BELOW SNOWSLIDE CANYON
NEAR WEMINUCHE PASS, COLORADO

Location—Water stage recorder in Sec. 5, T. 39 N., R. 4 W., 100 feet downstream from Snowslide Canyon, $3\frac{1}{2}$ miles south of Weminuche Pass, and 7 miles southwest of Rio Grande Reservoir.

Drainage Area—23.8 square miles.

Records Available—April 1, 1937 to September 30, 1941 (discontinued).

Maximum discharge during period 1937-1941; 650 second feet May 29, 1938, from rating curve extended above 300 second feet. Gage height 3.26 feet.

Maximum Discharge—Year 1941; 585 second feet June 23, from rating curve extended above 375 second feet. Gage height 3.98 feet.

Accuracy—Records considered good except those for period of no gage height record, May 1 to June 27, 1941, which are poor.

Two small transmountain diversions above station to Rio Grande basin.

PINE, OR LOS PINOS, RIVER, NEAR BAYFIELD, COLORADO

Location—Water stage recorder in Sec. 26, T. 36 N., R. 7 W., $\frac{1}{4}$ mile downstream from Red Creek, and 9 miles north of Bayfield.

Drainage Area—284 square miles. Zero of gage is 7,415.08 feet above mean sea level, adjustment of 1912.

Records Available—October 26, 1927 to September 30, 1942.

Maximum mean daily discharge during period 1927-1942; 5,070 second feet May 26, 1926. (Greatest known flood occurred October 5, 1911, discharge not determined.)

Maximum Discharge—Year 1941; 2,270 second feet July 5. Gage height 5.00 feet.

Maximum Discharge—Year 1942; 2,190 second feet April 24. Gage height 4.93 feet.

Accuracy—Records considered excellent except those during period of missing gage height October 22 to 31, 1941, which are fair.

Diversions for irrigation above station. Natural regulation by many lakes and storage in Vallecitos Reservoir three-fourths mile upstream; capacity 129,700 acre-feet.

PINE, OR LOS PINOS, RIVER AT IGNACIO, COLORADO

Location—Water stage recorder in Sec. 5, T. 33 N., R. 7 W., $\frac{3}{4}$ mile upstream from Ignacio and about 2 miles upstream from Rock Creek.

Drainage Area—448 square miles.

Records Available—April 22, 1899 to October 31, 1903, September 1, 1910, to November 30, 1912, March 10, 1913, to September 30, 1942.

Maximum discharge during period 1910-1914, 1930-1942; 5,570 second feet August 27, 1932, from rating curve extended above 2,600 second feet by logarithmic plotting. Gage height 6.19 feet.

Maximum Discharge—Year 1941; 3,860 second feet May 4, from rating curve extended above 3,000 second feet. Gage height 5.33 feet.

Maximum Discharge—Year 1942; 2,770 second feet April 25. Gage height 4.83 feet.

Accuracy—Records considered good except those for periods of ice effect November 13-16, 1940, December 14-28, 1940, January 3-11, 16-20, 24-27, February 2, 3, 1941, and during period of no gage heights November 6, 1941 to December 16, and ice effect period January 1-11, 18-19, 1942, February 18-20, 1942, which were computed on basis of weather records and records of station on San Juan River at Pagosa Springs, and are fair.

Diversions for irrigation above station, and flow regulated by Vallecitos Reservoir.

ANIMAS RIVER AT HOWARDSVILLE, COLORADO

Location—Water stage recorder in Sec. 12, T. 41 N., R. 7 W., 0.4 mile southwest of Howardsville, and $\frac{1}{2}$ mile downstream from Cunningham Creek.

Drainage Area—55.9 square miles. Zero of gage is 9,616.98 feet above mean sea level, adjustment of 1912.

Records Available—May 1, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; 1,700 second feet June 21, 1938, from rating curve extended above 800 second feet. Gage height 4.50 feet, present datum.

Maximum Discharge—Year 1941; 1,080 second feet June 22, from rating curve extended above 800 second feet. Gage height 3.53 feet.

Maximum Discharge—Year 1942; 1,060 second feet June 18, from rating curve extended above 800 second feet. Gage height 3.54 feet.

Accuracy—Records considered good except those for periods of ice effect November 12, 1940 to March 1, 1941, and November 21, 1941 to March 30, 1942, which are fair.

No diversions above station.

ANIMAS RIVER AT DURANGO, COLORADO

Location—Water stage recorder in Sec. 20, T. 35 N., R. 9 W., at Western Colorado Power Company's plant at Durango, $\frac{1}{2}$ mile upstream from Lightner Creek.

Drainage Area—692 square miles. Zero of gage is 6,503.28 feet above mean sea level, datum of 1929.

Records Available—June 20, 1895 to December 31, 1905, January 1, 1910 to September 30, 1942.

Maximum discharge during period 1895-1905, 1910-1942; 25,000 second feet October 5, 1911, from rating curve extended above 7,000 second feet. Gage height 11.00 feet, corrected.

Maximum Discharge—Year 1941; 10,500 second feet May 14. Gage height 7.40 feet.

Maximum Discharge—Year 1942; 5,450 second feet June 12.
Gage height 5.35 feet.

Accuracy—Records considered excellent.

Diversions for irrigation above station. Regulation of flow for power and by numerous lakes.

MINERAL CREEK NEAR SILVERTON, COLORADO

Location—Water stage recorder in Sec. 13, T. 41 N., R. 8 W., 300 feet upstream from Bear Creek, and 2 miles west of Silverton.

Drainage Area—43.9 square miles.

Records Available—May 1, 1936 to September 30, 1942.

Maximum discharge during period 1936-1942; 1,700 second feet June 29, 1938, from rating curve extended above 550 second feet. Gage height 4.69 feet.

Maximum Discharge—Year 1941; 1,060 second feet June 23, from rating curve extended above 550 second feet. Gage height 3.83 feet.

Maximum Discharge—Year 1942; 906 second feet June 11. Gage height 3.55 feet.

Accuracy—Records considered good except those during periods of ice effect December 14, 1940 to January 13, 1941, January 23 to February 3, November 20-26, 1941, December 23, 1941 to April 23, 1942, which were computed on basis of discharge measurements and weather records, and are fair.

No diversions above station.

HERMOSA CREEK AT HERMOSA PARK, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 26, T. 39 N., R. 10 W., N.M.P.M., $\frac{3}{4}$ mile downstream from forks and 16 miles northwest of Hermosa.

Drainage Area—37.8 square miles. Zero of gage is 8,716.59 feet above mean sea level.

Records Available—October 1, 1940 to September 30, 1942.

Maximum discharge during period; 1,210 second feet May 13, 1941. Gage height 4.16 feet.

Maximum Discharge—Year 1941; 1,210 second feet May 13. Gage height 4.16 feet.

Maximum Discharge—Year 1942; 704 second feet May 26. Gage height 3.44 feet.

Accuracy—Records considered fair.

No diversions for irrigation above station.

HERMOSA CREEK NEAR HERMOSA, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 3, T. 36 N., R. 9 W., 1 mile northwest of Hermosa and 2 miles upstream from mouth.

Drainage Area—172 square miles. Zero of gage is 6,705.88 feet above mean sea level, datum of 1929.

Records Available—November, 1911 to June, 1912, April, 1913 to September, 1914, April, 1920 to September, 1928, October, 1940 to September 30, 1942. During periods April, 1920 to September, 1928, water stage recorder, and prior to September, 1914, a staff gage, both at site one-half mile upstream at different datum.

Maximum discharge during period 1920-1928, 1940-1942; 3,040 second feet, September 12, 1927, by slope area method. (Gage height 8.50 feet from flood marks, site and datum then in use.

Maximum Discharge—Year 1941; 2,980 second feet May 12, from rating curve extended above 1,800 second feet. Gage height 6.02 feet.

Maximum Discharge—Year 1942; 1,560 second feet October 21, 1941. Gage height 4.18 feet.

Accuracy—Records considered good except those for periods of ice effect November 12, 13, 25-December 9, December 12-30, 1940, January 1-12, 14, 16-28, February 1-6, 1941, and December 24, 1941 to January 26, 1942, February 5 to March 15, 1942, which are fair.

Diversions for irrigation above station.

LIGHTNER CREEK NEAR DURANGO, COLORADO

Location—Water stage recorder in Sec. 30, T. 35 N., R. 9 W., $\frac{1}{2}$ mile upstream from mouth and $\frac{1}{2}$ mile west of Durango. Prior to June 18, 1941, water stage recorder 50 feet upstream at different datum.

Drainage Area—66 square miles.

Records Available—July 1, 1927 to September 30, 1942, June, 1927 to September, 1939, at site 2 miles upstream. All records equivalent.

Maximum discharge during period 1927-1942; that of October 25, 1941.

Maximum Discharge—Year 1941; 1,780 second feet May 4, by slope area method. Gage height 5.20 feet present site and datum from flood marks.

Maximum Discharge—Year 1942; 2,500 second feet October 25, 1941, by slope area method. Gage height 5.90 feet.

Accuracy—Records considered good except those for periods of ice effect December 13, 1940 to February 16, 1941, December 21, 1941 to March 5, 1942, which were computed on basis of four discharge measurements, and are fair. During period of missing gage heights June 13-17, 1941, May 23-28, 1942, discharges estimated.

Diversions for irrigation above station.

FLORIDA RIVER NEAR DURANGO, COLORADO

Location—Water stage recorder in Sec. 4, T. 35 N., R. 8 W., just downstream from Red Creek and $10\frac{1}{2}$ miles northeast of Durango. During period of record this station has been located at several different sites in same vicinity. All records are comparable.

Drainage Area—96 square miles. Zero of gage is 7,301.88 feet above mean sea level, datum of 1929.

Records Available—May 21 to July 31, 1899, April 1, 1901 to October 5, 1903, September 8, 1910 to September 10, 1924, April 1, 1927 to September 30, 1942.

Maximum discharge during period 1899, 1901-1903, 1910-1924, 1927-1942: 4,640 second feet, June 28, 1927. Gage height 4.50 feet, former site and datum. Greatest flood known occurred October 5, 1911, discharge not determined.

Maximum Discharge—Year 1941; 1,530 second feet June 24, from rating curve extended above 950 second feet. Gage height 4.42 feet.

Maximum Discharge—Year 1942; 1,020 second feet, June 11. Gage height 3.75 feet.

Accuracy—Records considered good except those of periods of ice effect December 13, 1940 to March 2, 1941, December 23, 1941 to March 19, 1942, which were computed on basis of discharge measurements and records for Animas River at Durango, and are fair.

Diversions for irrigation above station.

LA PLATA RIVER AT HESPERUS, COLORADO

Location—Water stage recorder in Sec. 14, T. 35 N., R. 11 W., at weir $\frac{1}{8}$ mile west of Hesperus.

Drainage Area—37.0 square miles. Zero of gage is 8,105.65 feet above mean sea level, datum of 1929. Datum lowered one foot October 1, 1941.

Records Available—June 15 to August 11, 1904, April 1, 1906 to August 11, 1908, August 24 to December 31, 1910, May 25, 1917 to September 30, 1942.

Maximum discharge during period 1904, 1906, 1910, 1917-1942; that of September 22, 1941.

Maximum Discharge—Year 1941; 1,880 second feet September 22, by slope area method. Gage height 3.30 feet.

Maximum Discharge—Year 1942; 505 second feet October 13, 1941. Gage height 2.35 feet.

Accuracy—Records considered good except those for periods of ice effect December 1, 1940 to February 28, 1941, December 7, 1941 to April 6, 1942, which were computed on basis of seven discharge measurements, weather records, and which are fair.

Diversions for irrigation above station.

LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

Location—Water stage recorder at masonry control in Sec. 10, T. 32 N., R. 13 W., 300 feet south of Colorado-New Mexico State line at Hill Ranch, and 3 miles north of Pendleton, New Mexico.

Drainage Area—331 square miles. Zero of gage is 5,975.15 feet above mean sea level, datum of 1929.

Records Available—February 19, 1920 to September 30, 1942.

Maximum discharge during period 1920-1942; 4,750 second feet, August 24, 1927. Gage height 11.36 feet.

Maximum Discharge—Year 1941; 1,360 second feet May 4. Gage height 5.54 feet.

Maximum Discharge—Year 1942; 1,960 second feet October 25, 1941. Gage height 6.78 feet.

Accuracy—Records considered good except those for period of ice effect December 20, 1940 to January 10, 1941, January 3 to 14, 1942, and during period of no gage heights March 29 to April 5, 1941, February 27, 28, 1942, which were computed from discharge measurements, records at Hesperus and Cherry Creek near Red Mesa, and are fair.

Diversions for irrigation above station.

CHERRY CREEK NEAR RED MESA, COLORADO

Location—Water stage recorder in Sec. 7, T. 33 N., R. 12 W., $\frac{1}{4}$ mile upstream from mouth and 2 miles northwest of Red Mesa. Prior to May 14, 1941, water stage recorder at site 700 feet downstream at different datum.

Drainage Area—66 square miles. Zero of gage is 6,466.46 feet above mean sea level.

Records Available—March 21, 1928 to September 30, 1942.

Maximum discharge during period 1928-1942; 1,480 second feet August 25, 1940, site and datum then in use from rating curve extended above 800 second feet on basis of slope area measurement. Gage height 5.90 feet.

Maximum Discharge—Year 1941; 377 second feet May 4. Gage height 3.40 feet.

Maximum Discharge—Year 1942; 690 second feet October 25, 1941. Gage height 4.95 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

EAST MANCOS RIVER NEAR MANCOS, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 24, T. 36 N., R. 13 W., 800 feet upstream from mouth and 4 miles northeast of Mancos.

Drainage Area—11.1 square miles.

Records Available—March 1, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; that of May 8, 1941.

Maximum Discharge—Year 1941; 642 second feet May 8, from rating curve extended above 130 second feet. Gage height 2.67 feet.

Maximum Discharge—Year 1942; 111 second feet May 23. Gage height 1.32 feet.

Accuracy—Records considered good, except those during ice effect periods November 18, 1941 to March 12, 1942, which were estimated, and are fair.

Diversions for irrigation above station.

MIDDLE MANCOS RIVER NEAR MANCOS, COLORADO

Location—Water stage recorder in SE $\frac{1}{4}$ Sec. 13, T. 36 N., R. 13 W., 500 feet upstream from East Mancos River, and 4 miles northeast of Mancos on road to Red Arrow Mine.

Drainage Area—13.7 square miles.

Records Available—March 1, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; that of May 14, 1941.

Maximum Discharge—Year 1941; 233 second feet May 14, from rating curve extended above 170 second feet. Gage height 4.08 feet.

Maximum Discharge—Year 1942; 127 second feet April 22. Gage height 2.12 feet.

Accuracy—Records considered good except those during period of ice effect March 1-19, 1941, November 21 to 30, 1941, and from December 1, 1941 to March 31, 1942, which were estimated and are fair. No gage height record May 28 to September 30, 1941, as stream moved away from recorder.

Diversions for irrigation above station.

WEST MANCOS RIVER NEAR MANCOS, COLORADO

Location—Water stage recorder in Sec. 14, T. 36 N., R. 13 W., 1 $\frac{1}{2}$ miles upstream from mouth, and 3 $\frac{1}{2}$ miles northeast of Mancos.

Drainage Area—42.1 square miles. Zero of gage is 7,458.54 feet above mean sea level.

Records Available—April 26, 1938 to September 30, 1942.

Maximum discharge during period 1938-1942; that of May 13, 1941.

Maximum Discharge—Year 1941; 1,080 second feet May 13, from rating curve extended above 260 second feet. Gage height 4.55 feet.

Maximum Discharge—Year 1942; 633 second feet October 13, 1941. Gage height 3.50 feet.

Accuracy—Records considered good, except those for period of ice effect November 22-26, 1941, December 5, 1941 to March 9, 1942, which were estimated, and are fair.

Diversions for irrigation above station.

MANCOS RIVER NEAR TOWAOC, COLORADO

Location—Water stage recorder in NW $\frac{1}{4}$ Sec. 18, T. 32 N., R. 17 W., at crossing of U. S. Highway 84, 12 miles south of Towaoc, and 28 miles south of Cortez.

Drainage Area—550 square miles. Zero of gage is 5,051.17 feet above mean sea level, unadjusted.

Records Available—February, 1921 to September 30, 1942.

Maximum discharge during period 1921-1942; that of October 14, 1941.

Maximum Discharge—Year 1941; 1,290 second feet May 14. Gage height 5.90 feet.

Maximum Discharge—Year 1942; 5,260 second feet October 14, 1941, by slope area method. Gage height 9.50 feet. (Old datum.) Gage height, present datum, 7.30 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

McELMO CREEK NEAR CORTEZ, COLORADO

Location—Water stage recorder in NE $\frac{1}{4}$ Sec. 1, T. 35 N., R. 17 W., $\frac{1}{2}$ mile downstream from Alkali Canyon, and 5 miles southwest of Cortez. Prior to September, 1929, water stage recorder at site 3 miles downstream. Records equivalent.

Drainage Area—233 square miles.

Records Available—May, 1926 to September, 1929, October, 1940 to September 30, 1942.

Maximum discharge during period 1926-1929, 1940-1942; that of September 22, 1941.

Maximum Discharge—Year 1941; 4,540 second feet September 22, by slope area method. Gage height 6.85 feet from flood marks.

Maximum Discharge—Year 1942; 324 second feet July 17. Gage height 2.27 feet.

Accuracy—Records considered fair.

Diversions for irrigation above station.

Discharge of San Juan River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	67	29	24	20	23	22	87	382	796	646	140	54
2....	53	31	24	19	21	24	69	445	808	598	130	52
3....	48	32	24	13	20	23	62	475	784	646	122	49
4....	43	30	23	14	21	22	59	460	820	652	115	46
5....	140	23	25	17	22	24	69	556	826	748	112	44
6....	135	26	24	20	22	23	60	736	808	592	125	42
7....	89	26	24	19	23	22	59	862	868	574	125	41
8....	72	27	23	18	25	22	69	984	1140	545	140	43
9....	64	27	24	20	20	23	94	1260	958	556	135	45
10....	57	25	25	20	*24	24	125	1390	778	525	130	40
11....	51	17	25	19	*24	23	98	1580	688	510	110	38
12....	45	16	24	21	24	22	89	1710	682	445	103	37
13....	42	16	21	22	24	23	84	1680	628	364	108	59
14....	39	*14	20	21	25	24	77	1610	622	368	127	185
15....	37	18	18	*20	24	24	77	1250	712	337	233	108
16....	37	21	16	17	22	24	80	1120	754	328	176	84
17....	33	23	21	19	22	28	78	1120	844	324	159	91
18....	33	25	23	19	22	36	72	1310	1010	360	140	105
19....	28	27	21	19	23	45	63	1240	1240	355	120	117
20....	27	26	19	20	21	51	59	940	1260	342	110	185
21....	25	25	20	21	21	46	62	862	1260	286	103	162
22....	24	24	21	21	20	43	60	862	1190	260	93	145
23....	24	24	22	21	21	42	60	916	1230	224	84	148
24....	23	23	24	20	23	40	78	1050	1220	230	77	125
25....	23	23	23	21	23	37	117	1020	1190	224	72	112
26....	24	23	20	19	21	37	130	1150	1120	212	67	100
27....	41	24	23	20	20	39	194	1080	988	203	62	94
28....	38	21	24	21	21	43	246	984	856	191	59	100
29....	37	22	24	23	...	45	324	940	760	179	63	200
30....	36	23	23	24	...	46	382	838	724	162	74	215
31....	30	...	22	23	...	62	...	808	...	148	60	...
Total	1463	711	692	611	626	1009	3183	31620	27574	12134	3474	2866
Mean.	47.2	23.7	22.3	19.7	22.4	32.5	106	1020	919	391	112	95.5
Max.	140	32	25	24	25	62	382	1710	1260	748	233	215
Min.	23	14	16	13	20	22	59	382	622	148	59	37
Ac.-ft.	2900	1410	1370	1216	1240	2000	6310	62720	51690	24070	6890	5680

Total run-off for water year=170,500 acre-feet.

Discharge of San Juan River Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	154	194	50	28	24	24	57	202	808	326	78	22
2....	157	178	47	27	24	23	76	206	808	286	70	22
3....	274	157	47	27	25	24	103	190	878	266	63	22
4....	242	151	46	27	24	26	121	226	948	246	52	29
5....	230	151	41	25	24	25	157	278	892	238	47	31
6....	214	148	41	24	23	26	138	350	885	242	50	25
7....	194	130	40	23	23	27	110	386	838	242	55	24
8....	182	116	40	24	23	26	113	420	820	258	50	22
9....	164	113	40	25	22	27	141	535	796	234	44	21
10....	151	108	42	24	21	29	164	700	748	206	41	20
11....	144	101	40	23	23	32	242	808	820	186	39	127
12....	167	95	39	24	23	33	274	610	844	178	40	60
13....	580	92	38	24	23	32	314	430	730	164	39	47
14....	1040	86	36	24	22	32	402	398	616	157	38	37
15....	616	82	35	23	22	31	402	386	500	148	36	34
16....	470	80	33	24	21	30	370	382	550	144	45	31
17....	394	84	36	25	21	32	450	398	585	218	37	29
18....	382	84	33	24	*20	35	420	398	664	210	36	29
19....	358	78	33	24	21	32	354	406	646	138	35	27
20....	346	68	33	23	22	30	342	465	585	116	33	26
21....	346	60	33	*23	23	*37	350	580	525	101	31	25
22....	342	58	32	23	22	28	440	736	505	92	31	25
23....	346	55	30	24	22	31	585	857	460	86	34	25
24....	326	55	30	23	22	35	425	955	425	80	32	24
25....	370	58	29	24	23	31	350	941	398	74	31	23
26....	374	60	30	25	22	29	294	1020	390	70	29	22
27....	350	58	30	24	23	25	242	1050	362	66	26	22
28....	342	55	31	26	24	25	242	899	350	74	25	22
29....	306	52	30	25	...	30	234	838	318	66	26	21
30....	234	51	29	22	...	35	222	885	306	60	25	21
31....	214	...	29	25	...	44	...	820	...	62	23	...
Total	10009	2858	1123	757	632	926	8134	17755	19000	5034	1241	915
Mean.	323	95.3	36.2	24.4	22.6	29.9	271	573	633	162	40.0	30.5
Max.	1040	194	50	28	25	44	585	1050	948	326	78	127
Min.	144	51	29	23	20	23	57	196	306	60	23	20
Ac.-ft.	19850	5670	2230	1500	1250	1840	16130	35220	37690	9980	2460	1810

Total run-off for water year=135,600 acre-feet.

* Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Juan River at Pagosa Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	294	100	85	72	64	95	434	1170	2340	2370	434	147
2....	240	102	85	71	61	100	309	1350	2510	2260	399	140
3....	212	104	84	44	63	95	294	1420	2630	2270	369	129
4....	185	100	82	48	67	88	303	1390	2620	2350	345	122
5....	459	82	82	60	68	96	319	1460	2540	2830	338	114
6....	667	92	84	75	74	84	253	1740	2440	2230	372	110
7....	410	88	82	67	87	84	279	1920	2660	2040	395	104
8....	325	92	82	64	81	82	348	2210	3450	2090	430	104
9....	279	90	85	68	81	88	446	2690	2910	1960	434	116
10....	246	92	88	68	76	79	490	3020	2410	1860	402	106
11....	215	67	90	65	75	79	399	3370	2120	1880	352	100
12....	193	66	84	70	78	84	399	3920	1960	1870	316	98
13....	177	54	72	75	78	92	391	4640	1910	1700	291	129
14....	162	54	72	70	81	88	338	4580	1970	1530	300	442
15....	150	66	54	69	85	88	348	3810	2120	1280	515	270
16....	138	76	50	52	85	93	352	3300	2230	1300	418	210
17....	129	82	79	57	87	114	338	3340	2540	1300	348	210
18....	120	84	84	58	88	145	306	3540	3070	1540	325	246
19....	112	95	71	66	92	169	270	3120	3540	1470	288	306
20....	108	92	66	67	88	187	252	2780	3610	1470	270	490
21....	100	88	71	71	90	182	279	2420	3810	1270	264	477
22....	98	87	76	67	87	185	273	2370	3810	1160	243	414
23....	95	84	78	68	90	207	288	2280	4040	1040	215	477
24....	92	81	88	64	98	196	406	2540	3940	1040	201	333
25....	88	79	82	68	95	169	606	2640	3640	988	190	338
26....	88	81	69	58	84	169	779	2720	3570	835	180	300
27....	140	82	74	62	79	172	996	2740	3210	737	169	276
28....	120	74	88	63	82	204	1110	2580	3170	642	159	276
29....	116	76	84	79	...	210	1180	2410	2750	578	159	589
30....	125	82	84	78	...	235	1220	2520	2510	515	185	572
31....	104	...	81	74	...	325	...	2620	...	464	162	...
Total	5987	2492	2436	2038	2264	4284	14022	82610	86300	46669	9468	7795
Mean..	193	83.1	78.6	65.7	80.9	138	467	2665	2868	1515	305	260
Max..	667	104	90	79	98	325	1220	4640	1040	2330	434	589
Min..	88	54	50	44	61	79	252	1170	1910	464	159	98
Ac.-ft.	11880	4940	4830	4040	4490	8500	27810	163900	170600	93160	18780	15460

Total run-off for water year—528,100 acre-feet.

Discharge of San Juan River at Pagosa Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	438	525	182	198	82	72	243	624	1890	744	172	64
2....	438	486	180	160	85	71	325	690	1980	708	158	66
3....	1050	446	177	96	88	78	450	624	2070	678	203	63
4....	972	422	174	100	84	82	535	684	2270	606	153	75
5....	793	398	157	88	85	79	956	794	2140	564	130	83
6....	730	383	157	84	81	85	730	920	2140	558	126	78
7....	612	355	154	95	85	79	600	1130	2380	530	133	75
8....	572	328	152	104	82	76	600	1280	2280	500	128	69
9....	535	322	152	100	75	82	779	1500	2230	472	116	65
10....	495	309	150	93	68	92	842	1820	2000	429	110	60
11....	472	300	154	95	79	96	1160	1920	2280	389	110	240
12....	495	285	140	98	78	93	1380	1810	2450	365	106	153
13....	1950	282	142	96	81	93	1240	1380	2200	339	121	128
14....	2570	276	138	100	78	92	1430	1180	2060	310	102	100
15....	1610	270	133	90	75	87	1560	1110	1730	296	100	91
16....	1320	267	127	93	72	85	1400	1110	1810	278	104	82
17....	1160	270	129	98	74	79	1480	1180	2020	361	106	76
18....	1030	285	127	90	61	85	1340	1140	2280	413	94	74
19....	948	258	118	92	74	92	1040	1170	2210	310	92	72
20....	948	240	120	85	76	85	972	1350	2000	263	85	69
21....	1040	224	120	87	76	79	1060	1700	1790	234	83	68
22....	1020	212	125	88	75	92	1510	1930	1650	215	80	64
23....	848	198	100	95	76	114	2450	2140	1540	197	83	60
24....	870	196	114	88	74	127	1720	2660	1430	186	80	59
25....	1220	204	114	88	78	116	1320	2680	1240	177	96	58
26....	1060	210	106	90	69	106	1110	2920	1110	163	80	56
27....	870	204	114	88	76	96	968	3110	1020	153	74	55
28....	877	198	110	93	76	108	836	2400	892	163	70	54
29....	786	190	120	93	...	122	756	2340	794	153	70	53
30....	648	187	116	85	...	147	714	2140	738	143	68	53
31....	578	...	112	88	...	180	...	1950	...	133	66	...
Total	29055	8730	4214	2888	2160	2970	31506	49386	54624	11030	3299	2363
Mean..	937	291	136	93.2	77.1	95.8	1050	1593	1821	356	106	78.8
Max..	2570	525	182	108	88	180	2450	3110	2450	744	203	240
Min..	438	187	100	85	61	71	243	624	738	133	66	53
Ac.-ft.	57630	17320	8360	5730	4280	5890	62490	97960	108300	21880	6540	4690

Total run-off for water year—401,100 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Juan River at Rosa, New Mexico, for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1280	344	280	290	270	644	3850	8670	6390	5510	1200	478
2.....	866	332	270	*240	250	942	2790	9620	6390	5150	1120	454
3.....	722	344	260	250	220	764	2420	9300	6650	5150	1070	424
4.....	655	358	260	160	220	636	2210	10600	8920	5390	1040	375
5.....	760	325	260	170	240	780	2640	8670	6650	6520	1010	360
6.....	2400	351	*270	190	*260	684	2420	9620	6390	5760	1050	345
7.....	1260	301	260	180	280	620	2350	9950	7060	4920	1240	316
8.....	980	295	250	170	320	557	2720	10300	11300	4920	1220	302
9.....	860	307	260	160	320	578	3040	11000	9950	4690	1330	325
10.....	737	332	290	*170	325	532	3850	10600	8670	4160	1530	330
11.....	638	289	300	200	320	490	3290	11700	6390	4260	1250	302
12.....	564	202	290	240	355	520	3380	13200	5630	4260	1030	284
13.....	516	190	270	300	375	606	3660	13600	5300	4160	924	340
14.....	484	170	220	250	414	628	2870	13600	5400	3560	888	1610
15.....	453	190	170	200	460	1070	2790	12000	5630	3290	1430	1220
16.....	425	220	140	190	544	1490	2790	10300	6000	3120	1490	861
17.....	404	255	*170	*180	564	1600	2870	10300	6520	3040	1350	692
18.....	377	283	270	196	613	1620	2870	11000	7480	3470	1380	852
19.....	358	370	220	180	724	1690	2560	9950	8670	3470	1070	1230
20.....	338	377	190	210	748	1650	2070	7480	8670	4160	933	1690
21.....	325	351	230	220	897	2000	2280	6780	8670	3120	879	2000
22.....	307	313	210	210	950	1760	3120	6920	8670	3040	825	1350
23.....	289	307	190	200	850	2000	2720	6780	8670	2560	724	2000
24.....	283	295	220	200	900	2420	2640	7620	9500	2280	644	1370
25.....	277	301	270	*230	900	1880	3760	8360	8980	2560	592	1160
26.....	283	301	220	210	700	1680	5510	8670	8360	2210	550	996
27.....	626	290	200	220	650	1530	8360	8670	7620	2000	514	897
28.....	500	270	190	250	585	1740	9950	8060	7480	1850	472	816
29.....	411	*250	250	290	.....	2000	8670	7200	6520	1700	448	2070
30.....	390	270	300	320	.....	2140	8360	6780	5760	1500	514	2210
31.....	384	.....	320	290	.....	2640	.....	6390	.....	1300	538	.....
Total	19152	8733	7500	6760	14254	39891	112810	293690	222090	113080	30255	27659
Mean...	618	293	242	218	509	1287	3760	9474	7403	3648	976	922
Max....	2400	377	320	320	950	2640	9950	13600	11300	6520	1530	2216
Min....	277	170	140	160	220	490	2070	6390	5300	1300	448	284
Ac.-ft.	37990	17420	14880	13410	28270	79120	223800	582500	440500	224300	60010	54860

Total run-off for water year=1,777,060 acre-feet.

Discharge of San Juan River at Rosa, New Mexico, for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1510	2030	700	400	440	345	2320	3500	5160	1650	417	208
2.....	1430	1840	690	350	430	320	2960	3680	5280	1710	498	193
3.....	3760	1710	680	300	*420	372	3970	3490	5160	1630	586	182
4.....	3970	1570	670	250	430	453	4710	3040	5640	1500	572	185
5.....	2630	1500	610	230	440	465	8100	3130	5280	1390	435	251
6.....	2170	1410	610	250	450	510	7530	3310	5280	1340	383	278
7.....	1770	1310	590	300	470	441	5520	3780	5520	1270	417	260
8.....	1650	1180	580	400	480	361	4930	4180	5400	1270	423	251
9.....	1550	1170	580	490	420	378	5400	4380	5400	1290	388	223
10.....	1430	1140	570	*460	350	544	5760	5040	4820	1160	356	208
11.....	1380	1100	590	430	383	726	6560	5280	5280	1040	350	396
12.....	1340	1090	540	450	383	702	8700	5280	5400	938	411	774
13.....	5980	1070	550	470	400	983	6940	4180	5040	848	400	537
14.....	8850	1070	530	480	417	866	6660	3580	4820	798	372	411
15.....	3970	1040	510	470	380	607	7080	3400	4070	798	340	335
16.....	2960	1020	490	440	345	544	6140	3220	4070	742	315	291
17.....	2630	1040	504	460	300	447	6270	3310	4380	884	356	264
18.....	2320	1100	491	170	280	504	6940	3310	4710	1230	320	239
19.....	2170	1000	472	450	260	742	5160	3310	4710	884	310	215
20.....	2240	920	453	420	300	628	4490	3580	4280	710	300	211
21.....	2880	850	484	400	250	530	4280	4280	3970	593	278	211
22.....	3310	800	524	410	423	702	5040	4930	3680	517	273	196
23.....	3130	760	430	*430	394	1120	11300	5280	3310	484	255	185
24.....	2710	740	453	470	361	1410	8400	5880	3220	544	264	171
25.....	4280	770	480	450	394	1020	6940	6140	2790	558	286	168
26.....	3920	800	400	440	356	875	5700	6270	2470	498	320	168
27.....	2960	*768	420	450	361	758	5000	6800	2320	498	268	165
28.....	3880	750	450	460	394	866	4500	5880	2030	447	235	162
29.....	3310	730	510	470	.....	1110	4100	5760	1840	491	247	152
30.....	2470	710	480	460	.....	1490	3900	5520	1650	423	239	152
31.....	2240	.....	460	450	.....	1840	.....	5160	.....	368	219	.....
Total	89800	32988	16501	12860	10811	22659	175400	137880	126980	28503	10833	7647
Mean...	2897	1100	532	415	336	731	5847	4448	4233	919	349	255
Max....	8850	2030	700	490	480	1840	11300	6800	5840	1710	586	774
Min....	1340	710	400	230	260	320	2320	3040	1650	368	219	152
Ac.-ft.	178100	65430	32730	25510	21440	44940	347900	273500	251900	56330	21490	15160

Total run-off for water year=1,334,630 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of West Fork of San Juan River Above Borns Lake Near Pagosa Springs, Colo.,
for Year Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	74	31	21	14	20	24	28	59	389	560	125	41
2.....	54	32	21	14	20	25	22	79	431	530	115	40
3.....	42	32	21	14	20	26	20	80	474	510	105	38
4.....	33	30	21	14	20	26	20	74	470	495	95	37
5.....	117	28	21	14	20	26	22	105	470	660	89	35
6.....	156	29	21	14	20	25	20	156	461	530	105	34
7.....	117	29	21	14	20	25	19	170	474	505	110	33
8.....	94	29	21	14	20	23	20	290	474	490	125	36
9.....	76	29	21	14	20	24	24	326	386	480	120	35
10.....	62	26	21	14	20	21	29	398	320	470	105	34
11.....	51	24	21	14	20	18	26	467	299	470	96	33
12.....	43	22	21	14	20	23	23	550	296	455	86	33
13.....	39	21	21	14	20	26	21	572	314	435	79	56
14.....	38	*20	21	14	20	27	20	558	353	405	73	93
15.....	38	22	21	14	20	29	20	477	401	365	110	69
16.....	38	24	21	14	20	26	20	458	455	365	100	54
17.....	38	26	21	14	20	24	19	502	526	335	88	62
18.....	37	27	21	14	20	21	18	508	628	395	76	73
19.....	36	29	21	14	20	*21	18	440	670	390	70	90
20.....	35	29	21	14	20	24	18	365	630	370	66	139
21.....	35	29	21	14	20	20	18	329	680	340	65	115
22.....	34	28	21	14	20	19	18	323	710	300	60	114
23.....	34	27	21	14	20	18	18	332	790	280	55	124
24.....	32	26	21	14	20	18	18	386	790	260	45	114
25.....	31	25	21	14	20	17	20	425	760	230	51	96
26.....	33	25	21	14	20	17	23	470	730	205	47	84
27.....	30	24	21	14	20	16	32	458	710	185	45	76
28.....	33	24	21	14	20	17	35	425	690	170	43	79
29.....	35	24	21	14	.....	16	47	383	650	160	46	115
30.....	35	25	21	14	.....	18	59	362	600	145	47	107
31.....	32	.....	21	14	.....	26	.....	365	.....	135	43	.....
Total	1582	796	651	424	560	686	715	10892	16031	11625	2494	2089
Mean.	51.0	26.5	21.0	14.0	20.0	22.1	23.8	351	534	375	80.5	69.6
Max.	156	32	.....	.....	.....	29	59	572	790	660	125	139
Min.	36	20	.....	.....	.....	16	18	59	296	135	43	33
Ac.-ft.	3140	1580	1290	861	1110	1360	1120	21600	31800	23060	4950	4140

Total run-off for water year = 96,310 acre-feet.

**Discharge of West Fork of San Juan River Above Borns Lake Near Pagosa Springs, Colo.,
for Year Ending Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	88	81	24	15	12	14	50	38	490	189	55	17
2.....	88	78	24	15	12	14	50	39	480	192	66	16
3.....	182	75	24	15	12	14	50	41	500	187	62	20
4.....	160	74	24	15	12	14	50	57	510	176	47	24
5.....	144	74	24	15	12	14	50	75	505	171	42	21
6.....	139	73	24	15	12	14	50	99	530	169	41	18
7.....	126	65	24	15	12	14	50	121	525	156	38	17
8.....	126	60	24	15	12	14	50	144	610	144	35	16
9.....	124	59	24	15	12	14	50	203	490	133	33	15
10.....	119	58	24	15	12	14	50	246	515	121	32	15
11.....	117	57	24	15	12	14	50	259	660	114	30	105
12.....	141	54	24	15	12	14	50	199	620	104	35	4
13.....	390	54	24	15	12	14	50	139	475	99	33	35
14.....	360	53	24	15	12	14	50	121	435	100	30	29
15.....	268	52	24	15	12	14	50	124	395	93	28	25
16.....	221	51	24	15	12	14	50	141	420	87	30	23
17.....	196	51	24	15	12	14	50	148	520	128	28	21
18.....	184	40	24	15	*12	*14	50	146	535	104	26	20
19.....	171	40	24	15	12	14	50	174	465	87	25	19
20.....	184	40	24	15	12	14	60	259	435	75	24	18
21.....	221	40	24	*15	12	14	72	380	405	67	23	18
22.....	203	40	24	15	12	14	110	395	385	62	22	17
23.....	179	40	24	15	12	14	115	460	370	57	22	17
24.....	160	40	24	15	12	14	83	550	345	54	24	16
25.....	189	40	24	15	12	14	64	570	306	49	24	16
26.....	171	40	24	15	12	14	54	630	310	46	22	15
27.....	139	40	24	15	12	14	47	640	263	43	19	15
28.....	124	40	24	15	12	14	45	575	228	52	18	15
29.....	114	40	24	15	.....	14	41	550	206	47	18	15
30.....	90	40	24	15	.....	14	38	550	192	42	17	14
31.....	84	.....	24	15	.....	14	.....	490	.....	41	16	.....
Total	5210	1591	714	465	326	434	1679	8563	13125	3189	965	679
Mean.	168	53.0	24	15	12	14	56.0	276	438	103	31.1	22.6
Max.	890	81	.....	.....	.....	.....	115	640	660	192	66	105
Min.	84	.....	.....	.....	.....	.....	.....	58	192	41	16	14
Ac.-ft.	10330	3160	1480	922	666	861	3330	16980	26030	6330	1910	1350

Total run-off for water year = 73,350 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of West Fork of San Juan River Near Pagosa Springs, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	177	56	46	40	32	34	80	279	855	1170	197	68
2.....	152	57	46	39	30	34	66	343	942	1120	180	68
3.....	135	57	45	24	30	32	61	363	1090	1120	159	67
4.....	117	57	44	25	30	31	60	327	1110	1200	149	67
5.....	261	49	44	34	31	33	66	371	1100	1590	144	66
6.....	331	52	45	41	32	32	61	494	1060	1140	170	66
7.....	237	50	44	37	34	31	61	606	1140	1070	175	66
8.....	194	52	44	35	31	30	67	665	1370	1090	208	66
9.....	175	51	46	37	29	31	77	840	1040	954	202	66
10.....	154	49	44	37	27	30	93	981	815	915	175	65
11.....	132	36	48	36	*29	29	80	1240	695	915	157	65
12.....	120	36	45	38	31	30	80	1520	675	926	137	65
13.....	109	33	39	41	28	33	80	1710	646	790	124	78
14.....	100	*36	39	38	32	37	72	1580	730	685	117	180
15.....	91	39	29	*30	30	34	74	1320	820	584	197	111
16.....	85	41	27	31	29	33	74	1190	893	584	172	81
17.....	80	43	43	33	28	35	72	1240	1070	552	147	95
18.....	74	47	45	35	28	41	68	1310	1400	651	130	113
19.....	71	47	39	36	30	46	63	1150	1640	624	117	162
20.....	66	47	36	36	27	49	62	830	1380	610	113	287
21.....	63	46	39	36	28	16	65	730	1720	520	111	254
22.....	61	44	41	34	27	44	65	745	1750	484	102	277
23.....	58	44	43	35	28	46	66	750	1890	444	89	240
24.....	57	43	47	35	29	46	81	888	1890	435	85	194
25.....	56	43	45	36	29	12	111	970	1800	395	78	167
26.....	58	44	38	30	27	41	142	1110	1750	347	72	142
27.....	71	43	39	30	27	40	194	1120	1670	327	70	124
28.....	65	38	47	32	28	42	221	1030	1620	283	68	126
29.....	65	41	45	37	.....	43	283	898	1380	254	68	250
30.....	66	44	45	37	.....	46	291	820	1250	230	71	227
31.....	58	44	44	35	.....	61	.....	805	.....	218	68	.....
Total	3540	1365	1311	1080	821	1182	2936	28225	37191	22227	4052	3853
Mean	114	45.5	42.3	34.8	29.3	38.1	97.7	910	1240	717	131	128
Max.	331	57	48	41	34	61	291	1710	1890	1590	208	287
Min.	56	33	27	24	27	29	60	279	646	218	68	65
Ac.-ft.	7020	2710	2600	2140	1630	2340	5820	55980	73770	44090	8040	7640

Total run-off for water year=213,800 acre-feet.

**Discharge of West Fork of San Juan River Near Pagosa Springs, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	178	192	67	47	47	44	68	136	930	406	94	34
2.....	201	183	67	46	49	42	88	158	946	386	92	36
3.....	446	173	65	46	50	43	110	147	978	370	114	37
4.....	398	166	61	47	48	44	140	168	1030	330	82	46
5.....	330	158	58	45	48	41	180	201	1030	310	68	48
6.....	310	152	58	43	45	42	150	250	1030	306	67	43
7.....	274	138	51	46	47	40	115	306	1110	286	67	39
8.....	258	130	51	49	47	39	100	366	1100	266	61	37
9.....	246	125	51	52	44	40	115	442	990	246	58	34
10.....	234	121	54	49	41	41	140	518	910	218	54	32
11.....	226	116	47	49	48	41	170	534	1060	195	53	141
12.....	250	108	47	50	47	40	230	494	1170	180	61	92
13.....	626	108	46	49	49	39	280	366	1110	173	61	67
14.....	590	106	44	52	49	38	340	318	1010	175	54	53
15.....	442	104	44	50	47	37	400	306	922	168	50	47
16.....	390	104	44	50	45	36	306	314	954	149	53	46
17.....	366	112	46	52	47	39	422	342	1030	218	50	43
18.....	350	108	44	50	*45	42	338	330	1100	198	48	41
19.....	338	102	43	52	41	36	258	354	1090	161	47	40
20.....	346	96	43	56	45	*34	222	426	998	141	44	40
21.....	402	84	43	*49	46	44	242	578	886	125	43	38
22.....	378	84	45	48	44	38	362	611	822	112	43	37
23.....	358	72	42	50	45	47	466	706	782	104	43	36
24.....	330	72	45	52	44	43	370	842	726	100	44	36
25.....	402	74	46	49	45	40	290	894	658	92	50	34
26.....	370	76	44	52	41	39	250	994	630	84	44	33
27.....	310	76	47	50	43	37	210	1060	566	74	40	33
28.....	314	74	46	52	45	39	183	962	522	86	39	32
29.....	266	68	48	52	.....	42	166	1000	466	76	39	32
30.....	230	68	48	49	.....	47	154	950	410	72	37	31
31.....	201	.....	48	50	.....	56	.....	902	.....	67	36	.....
Total	10360	3350	1533	1527	1282	1270	6859	15938	26966	5874	1736	1338
Mean	334	112	49.5	49.3	45.8	41.0	229	514	899	189	56.0	44.6
Max.	626	192	67	52	50	56	466	1060	1170	406	114	141
Min.	178	68	42	43	41	34	88	126	410	67	36	31
Ac.-ft.	20550	6640	3040	3030	2540	2520	13000	31610	53490	11650	2140	2650

Total run-off for water year=154,800 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Turkey Creek Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	48	11	11	10	10	11	27	116	225	229	50	15
2.....	38	12	11	9.6	9.5	12	21	143	233	213	45	12
3.....	31	12	11	8.4	10	11	19	149	261	221	41	8.6
4.....	25	12	11	9.0	10	11	21	143	249	241	40	8.2
5.....	106	13	11	10	10	12	21	179	241	301	41	7.8
6.....	96	11	11	11	11	11	19	241	241	233	40	7.2
7.....	55	11	11	10	11	10	19	266	293	209	47	7.0
8.....	37	11	11	10	11	10	20	320	357	217	54	7.8
9.....	29	11	11	10	10	10	29	371	297	205	51	8.2
10.....	30	12	11	10	10	10	36	405	249	202	47	8.6
11.....	26	10	11	10	10	10	27	493	202	213	46	8.2
12.....	23	10	10	10	10	10	28	529	177	221	37	8.0
13.....	16	12	9.8	11	10	10	26	534	184	177	34	14
14.....	8.4	*15	9.0	10	10	10	22	540	202	152	33	41
15.....	7.2	16	8.6	9.7	10	10	22	424	245	146	36	29
16.....	6.2	15	9.8	8.7	10	10	22	390	269	138	38	20
17.....	6.0	14	11	9.0	10	11	21	390	309	142	34	19
18.....	5.2	12	12	9.7	10	12	19	400	345	163	32	27
19.....	4.8	12	11	16	*10	12	18	338	396	152	29	33
20.....	4.3	12	10	11	10	14	18	271	378	152	28	50
21.....	5.5	11	10	11	10	14	16	249	396	130	26	42
22.....	7.5	11	10	11	10	15	16	275	392	116	22	43
23.....	9.1	11	11	11	10	15	16	275	414	106	20	47
24.....	9.4	11	12	11	11	15	21	284	406	127	19	39
25.....	9.9	10	11	11	11	14	31	297	378	138	18	33
26.....	11	11	10	10	10	13	41	306	357	101	16	27
27.....	14	10	11	10	9.5	12	78	297	333	86	16	24
28.....	13	10	12	10	9.5	13	89	285	313	77	16	24
29.....	13	10	11	11	.....	14	96	249	265	64	16	57
30.....	13	10	11	11	.....	15	111	237	261	57	18	46
31.....	11	.....	11	11	.....	24	.....	233	.....	53	16	.....
Total	718.5	349	332.2	314.9	283.5	381	970	9629	8868	4982	1006	721.6
Mean	23.2	11.6	10.7	10.2	10.1	12.3	32.3	311	296	161	32.5	24.1
Max.	106	16	12	11	11	24	111	540	414	301	54	57
Min.	4.3	10	8.6	8.4	9.5	10	16	116	177	53	16	7.0
Acre-ft.	1430	692	659	625	562	756	1920	19100	17590	9880	2000	1430

Total run-off for water year=56,610 acre-feet.

Discharge of Turkey Creek Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	37	52	24	15	13	14	26	72	205	47	12	3.8
2.....	39	49	22	15	13	14	35	76	193	47	16	3.5
3.....	88	45	21	15	13	14	45	74	202	45	16	3.8
4.....	76	44	20	15	13	11	53	82	205	41	12	12
5.....	64	42	20	15	13	14	72	94	205	38	8.6	12
6.....	57	42	20	15	13	14	60	105	208	37	7.9	9.0
7.....	49	39	20	15	13	14	50	120	222	30	8.6	6.8
8.....	46	37	20	15	13	14	57	140	216	29	7.6	4.7
9.....	44	36	20	15	13	14	71	169	190	28	7.6	4.1
10.....	41	33	20	15	13	14	83	196	169	26	6.2	3.8
11.....	41	33	20	15	13	14	107	193	175	22	6.5	3.2
12.....	48	32	20	15	13	14	107	181	184	20	9.3	2.4
13.....	122	33	20	15	13	14	109	130	166	18	9.6	1.6
14.....	138	32	20	15	13	14	130	116	160	16	7.9	1.0
15.....	109	32	20	15	13	14	160	114	145	16	7.6	9.0
16.....	94	31	20	15	13	14	154	118	151	15	7.9	7.2
17.....	83	32	20	15	13	14	169	118	175	24	8.6	5.6
18.....	76	31	20	15	*13	14	138	114	172	27	6.2	5.0
19.....	71	30	20	15	13	14	110	116	163	24	5.0	4.4
20.....	76	30	20	15	13	14	110	135	142	18	4.4	4.4
21.....	85	29	20	*15	13	*14	118	163	132	16	4.1	3.8
22.....	83	27	20	15	13	14	175	187	128	14	3.8	3.8
23.....	80	26	20	15	13	14	208	219	125	12	3.5	3.5
24.....	76	26	20	15	13	14	154	236	116	12	6.2	3.3
25.....	105	27	20	15	13	14	110	252	99	10	7.9	3.3
26.....	94	29	20	15	13	14	99	284	85	10	4.7	3.1
27.....	82	29	20	15	13	14	94	284	74	9.0	4.7	2.9
28.....	77	28	20	15	13	14	88	252	65	10	4.4	2.9
29.....	71	24	20	15	.....	16	83	244	58	9.6	4.7	2.9
30.....	62	24	20	15	.....	17	78	222	51	8.6	4.1	2.9
31.....	57	.....	20	15	.....	20	.....	208	.....	8.2	3.8	.....
Total	2271	1004	627	465	364	445	3053	5014	4581	687.4	227.4	213.5
Mean	73.3	33.5	20.2	15	13	14.4	102	162	153	22.2	7.34	7.12
Max.	138	52	.....	.....	.....	.....	208	284	222	47	16	3.2
Min.	37	24	.....	.....	.....	.....	26	72	51	8.2	3.5	2.9
Acre-ft.	4500	1990	1240	922	722	883	6060	9950	9090	1360	451	423

Total run-off for water year=37,590 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Blanco Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	76	33	25	22	19	25	62	162	671	565	139	36
2.....	53	39	25	20	19	22	18	205	727	550	128	34
3.....	51	40	25	17	20	22	15	238	560	550	119	31
4.....	45	43	25	17	20	20	18	229	602	560	111	30
5.....	132	36	25	18	20	21	50	217	608	570	116	30
6.....	83	38	26	19	20	20	18	296	584	500	108	34
7.....	59	39	26	20	21	28	50	350	614	475	80	32
8.....	50	43	26	20	21	20	59	390	578	460	80	35
9.....	45	40	27	21	20	20	76	193	614	425	101	37
10.....	38	38	27	21	21	31	86	209	542	400	151	35
11.....	32	40	27	21	21	32	66	986	476	329	101	33
12.....	30	46	27	20	22	32	61	1010	428	321	86	31
13.....	26	46	25	20	22	24	60	965	452	281	82	74
14.....	24	50	24	20	22	25	51	846	422	262	96	270
15.....	23	33	23	19	22	24	48	762	506	265	148	126
16.....	21	45	20	19	22	26	50	755	548	230	78	77
17.....	19	39	24	*20	22	31	50	685	524	258	128	98
18.....	19	29	25	21	21	36	48	644	375	420	51	119
19.....	17	29	24	21	21	43	43	518	360	395	68	148
20.....	16	25	24	21	19	42	43	536	482	420	58	272
21.....	16	22	25	21	19	36	43	524	578	368	53	152
22.....	15	23	25	21	21	32	48	524	657	297	47	122
23.....	15	20	26	21	20	31	46	620	690	258	41	156
24.....	15	20	27	21	19	31	62	614	475	240	37	104
25.....	15	23	26	20	19	30	81	542	545	220	35	92
26.....	19	26	26	20	21	26	94	506	450	200	34	81
27.....	38	24	27	26	22	28	116	566	510	198	32	72
28.....	35	25	28	20	26	29	122	476	545	182	31	79
29.....	39	26	28	21	.....	29	138	542	570	166	36	406
30.....	38	25	28	19	.....	31	158	530	570	154	43	320
31.....	29	.....	27	18	.....	53	.....	584	.....	148	37	.....
Total	1133	1005	793	619	582	939	2003	16254	16263	10675	2495	3166
Mean.	36.5	33.5	25.6	20.0	20.8	30.3	66.8	524	542	344	80.5	106
Max....	132	50	28	22	26	53	158	1010	727	570	151	406
Min....	15	20	20	17	19	22	43	162	360	148	31	30
Ac.-ft.	2250	1990	1570	1230	1150	1860	3970	32240	32260	21170	4950	6280

Total run-off for water year=110,900 acre-feet.

*Discharge measurement made on this day.

Discharge of Rio Blanco Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	220	107	47	32	24	19	44	123	343	143	69	7.0
2.....	170	110	46	28	24	19	60	139	351	139	59	7.2
3.....	383	126	44	26	24	21	85	160	391	131	77	6.0
4.....	355	95	44	24	24	21	104	180	399	123	61	10
5.....	355	90	43	22	25	21	98	200	407	127	50	16
6.....	308	85	46	23	25	23	85	235	424	127	46	20
7.....	250	74	50	23	24	22	77	286	449	135	46	16
8.....	255	67	50	24	22	21	79	307	432	147	43	13
9.....	245	68	52	24	19	23	107	351	458	135	39	11
10.....	215	70	52	23	19	25	131	432	440	119	35	19
11.....	201	70	50	24	19	27	174	483	563	119	41	41
12.....	235	68	46	24	20	29	174	440	474	115	35	30
13.....	900	70	45	24	19	29	174	300	449	105	30	28
14.....	750	68	44	25	18	28	230	279	399	98	29	15
15.....	446	65	44	25	17	22	255	265	335	95	28	13
16.....	355	62	44	24	17	21	284	247	351	98	48	12
17.....	284	63	45	24	16	22	308	253	367	131	34	11
18.....	240	63	45	25	16	23	255	253	415	105	28	9.6
19.....	225	56	44	25	17	23	260	265	375	95	26	9.4
20.....	225	50	46	26	17	22	225	343	321	85	26	9.4
21.....	220	48	43	28	21	23	220	492	286	79	22	8.8
22.....	220	47	39	28	21	23	302	503	265	74	16	8.2
23.....	220	46	35	29	19	25	278	359	247	69	14	8.2
24.....	210	46	36	28	19	27	210	375	217	66	18	8.2
25.....	260	48	35	28	20	26	165	474	185	64	24	8.2
26.....	183	50	36	28	19	24	148	440	175	59	19	8.0
27.....	156	52	38	28	19	24	139	328	165	56	16	7.9
28.....	152	50	37	29	20	25	126	328	147	61	14	7.7
29.....	139	48	40	27	.....	26	119	351	143	56	12	7.4
30.....	116	47	37	24	.....	28	126	314	143	48	9.0	7.2
31.....	113	.....	35	25	.....	32	.....	307	.....	48	7.8	.....
Total	8606	2009	1338	797	564	744	5042	972	10116	3052	1021.8	383.4
Mean.	278	67.0	43.2	25.7	20.1	24.0	168	318	337	98.5	33.0	12.8
Mean.	900	126	52	32	25	32	308	563	563	147	77	41
Min....	113	46	35	22	16	19	41	123	143	48	7.8	6.0
Ac.-ft.	17070	3980	2650	1580	1190	1480	10000	19580	20060	6050	2030	760

Total run-off for water year=86,430 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rito Blanco Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3.0	2.1	2.2	1.7	1.1	4.0	19	77	168	82	15	1.0
2.....	1.5	2.4	2.2	1.6	1.5	3.0	16	87	173	79	11	0.8
3.....	1.1	3.0	2.2	1.4	1.4	2.7	15	98	186	77	9.4	0.5
4.....	1.0	1.8	2.2	1.5	1.4	3.7	16	91	176	79	8.3	0.4
5.....	6.5	1.7	2.3	1.4	1.4	3.4	19	98	181	85	9.4	0.3
6.....	6.1	1.7	2.3	1.2	1.6	3.4	16	150	168	82	13	0.2
7.....	1.8	1.8	2.2	1.2	1.7	3.4	18	182	178	72	8.8	0.1
8.....	1.6	2.4	2.2	1.2	1.7	3.3	25	174	120	67	18	0.2
9.....	1.6	2.1	2.3	1.2	1.6	3.4	33	188	125	63	18	0.3
10.....	1.5	2.4	2.4	1.1	1.6	3.3	40	240	137	60	21	0.3
11.....	1.3	1.6	2.5	1.2	1.7	3.1	29	244	137	60	16	0.2
12.....	1.0	1.6	2.4	1.2	1.8	3.0	30	292	112	60	12	0.2
13.....	1.0	1.5	2.2	1.4	2.1	3.0	29	364	125	54	9.4	0.9
14.....	1.0	1.7	2.1	1.4	2.1	3.1	23	368	128	51	10	2.6
15.....	1.0	2.1	1.6	1.5	2.1	2.8	24	290	116	48	27	9.4
16.....	0.9	2.4	1.5	1.5	2.4	2.7	25	240	112	43	23	3.2
17.....	0.9	2.5	2.1	1.4	2.7	3.7	25	260	108	43	29	4.0
18.....	0.9	2.6	2.4	1.4	2.4	6.1	22	280	135	49	33	6.6
19.....	0.9	2.7	1.8	1.2	2.4	7.0	19	250	145	49	25	8.8
20.....	0.9	2.3	1.6	1.3	2.4	8.2	18	220	147	52	21	1.9
21.....	0.8	2.0	1.6	1.2	2.1	8.2	20	185	172	45	18	1.6
22.....	0.8	1.8	1.7	1.2	2.7	7.8	22	180	144	42	16	14
23.....	0.8	1.7	1.7	1.2	2.7	7.8	20	180	162	38	14	1.9
24.....	0.7	1.8	1.8	1.1	2.7	7.8	26	194	176	37	12	1.6
25.....	0.6	2.1	1.8	1.1	3.4	7.8	36	160	168	35	10	1.2
26.....	0.7	1.8	1.7	1.2	3.0	7.4	55	108	141	30	8.3	10
27.....	3.0	1.7	1.6	1.4	3.7	7.4	91	184	125	25	7.2	8.8
28.....	2.4	1.7	1.7	1.5	4.0	9.0	100	176	112	21	5.6	10
29.....	1.7	1.8	1.7	1.4	.....	9.5	108	173	100	20	2.2	4.7
30.....	2.1	2.1	1.7	1.4	.....	10	89	163	87	16	3.2	52
31.....	1.7	.....	1.7	1.2	.....	17	.....	168	.....	16	1.5	7.7
Total	50.8	60.8	61.4	40.8	61.2	176.0	1028	6064	4264	1580	435.3	287.2
Mean.	1.64	2.03	1.98	1.32	2.19	5.68	34.3	196	142	51.0	14.0	9.57
Max...	6.5	3.0	2.5	1.7	4.0	17	108	368	186	85	33	52
Min....	0.6	1.5	1.5	1.1	1.1	2.7	15	77	87	16	1.5	0.1
Acre-ft.	101	121	122	81	121	349	2040	12030	8460	3130	863	570

Total run-off for water year=27,990 acre-feet.

Discharge of Rito Blanco Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	40	43	13	7.6	5.0	3.1	12	96	107	9.8	1.4	0.5
2.....	38	40	12	6.8	5.0	3.1	18	100	107	9.4	1.4	0.5
3.....	64	38	11	6.4	5.0	3.6	27	94	94	8.4	1.8	0.4
4.....	66	37	10	5.8	5.2	3.5	40	96	89	7.7	1.3	0.6
5.....	60	36	9.8	5.0	5.3	3.6	72	102	98	6.8	0.9	1.4
6.....	64	35	11	5.6	5.4	3.8	50	102	102	6.0	1.0	1.6
7.....	54	33	14	6.2	5.3	3.7	46	98	100	6.0	1.3	1.4
8.....	56	32	15	6.5	4.6	3.3	45	89	100	6.2	1.2	1.0
9.....	50	29	16	6.4	4.1	3.5	70	94	94	5.2	0.8	0.9
10.....	45	27	16	6.2	4.1	3.8	90	49	96	4.3	0.6	0.9
11.....	39	26	15	6.2	4.1	4.2	120	53	96	3.7	0.6	7.7
12.....	40	23	14	6.3	4.2	5.0	180	70	93	3.4	0.8	2.8
13.....	146	21	13	6.3	4.1	5.0	160	105	93	3.2	0.7	1.8
14.....	277	19	11	6.4	3.4	4.7	170	100	93	4.3	0.7	1.4
15.....	155	17	11	6.1	3.1	3.6	170	94	89	3.0	1.1	1.2
16.....	118	17	11	6.2	2.8	3.6	152	94	85	3.0	2.1	1.0
17.....	99	17	11	6.3	2.5	3.7	167	94	85	9.8	2.2	0.9
18.....	81	18	12	6.0	2.4	4.0	188	102	89	10	1.8	0.8
19.....	72	19	11	6.0	2.4	4.2	107	102	87	5.2	1.2	0.8
20.....	64	19	11	6.1	*2.5	*4.0	93	107	85	4.1	0.8	0.8
21.....	64	18	12	6.1	3.2	4.1	101	84	84	2.4	0.7	0.7
22.....	66	14	10	6.1	3.3	4.4	217	78	82	2.2	1.1	0.6
23.....	59	13	7.8	*6.1	3.1	4.8	80	57	80	2.2	1.3	0.6
24.....	55	13	8.0	5.8	2.9	4.5	80	61	68	2.1	1.4	0.7
25.....	66	13	7.8	5.7	3.1	4.4	98	82	56	2.0	1.6	0.8
26.....	72	14	8.4	5.8	2.9	4.3	102	77	44	2.2	1.4	0.7
27.....	56	14	9.0	6.0	3.1	4.3	100	63	30	1.8	1.2	0.6
28.....	56	15	8.6	6.3	3.4	4.4	102	76	21	1.7	1.0	0.6
29.....	52	16	9.8	5.7	.....	4.8	100	123	14	1.7	0.8	0.6
30.....	48	15	9.2	5.0	.....	5.8	100	123	10	1.7	0.7	0.6
31.....	47	.....	8.4	5.3	.....	8.0	.....	116	.....	1.4	0.6	.....
Total	2269	691	346.8	188.3	105.5	130.8	3057	2781	2371	140.9	35.5	34.9
Mean.	73.2	23.0	11.2	6.07	3.77	4.22	102	89.7	79.0	4.55	1.15	1.16
Max...	277	43	16	7.6	5.4	8.0	232	123	107	10	2.2	7.7
Min....	38	13	7.8	5.0	2.4	3.1	12	49	10	1.4	0.6	0.4
Acre-ft.	4500	1370	688	373	209	259	6060	5520	4700	279	70	69

Total run-off for water year=24,100 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Navajo River at Banded Peak Ranch Near Chromo, Colo., for Year Ending
Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	78	36	38	27	29	33	64	174	707	635	171	57
2.....	61	35	39	22	28	34	53	185	716	630	160	54
3.....	66	36	39	19	28	34	49	360	720	626	147	48
4.....	58	35	39	22	29	34	52	320	702	622	134	46
5.....	161	32	39	25	29	34	53	380	698	622	134	44
6.....	101	31	39	22	30	34	52	450	666	620	131	43
7.....	84	31	39	22	30	32	52	520	725	620	131	42
8.....	72	32	40	32	29	34	56	600	745	550	152	47
9.....	64	34	39	32	29	34	66	690	689	510	168	52
10.....	58	30	36	32	29	30	80	698	599	510	197	47
11.....	52	27	39	32	29	32	68	760	527	510	147	45
12.....	48	17	39	32	29	32	63	1060	486	490	134	42
13.....	45	16	34	34	29	34	61	1180	486	470	128	58
14.....	43	15	32	33	29	31	56	995	500	446	155	195
15.....	42	17	25	30	29	27	56	1020	522	419	228	110
16.....	42	20	19	*25	29	28	56	960	527	390	144	82
17.....	39	27	26	26	30	35	56	975	563	414	194	77
18.....	38	28	26	27	*30	38	55	990	630	432	194	81
19.....	36	31	28	28	30	42	53	910	680	428	114	90
20.....	34	35	30	29	30	45	49	820	707	419	103	105
21.....	32	35	33	29	30	43	53	785	730	382	100	130
22.....	31	36	34	29	30	43	56	785	740	366	88	108
23.....	31	36	35	29	30	40	56	840	735	323	79	120
24.....	31	36	36	29	31	44	70	860	735	320	74	105
25.....	30	37	33	29	31	38	86	895	735	295	70	94
26.....	31	38	31	28	30	38	99	910	740	278	65	89
27.....	35	37	32	29	30	37	130	890	750	250	62	84
28.....	36	36	34	30	32	42	144	805	712	228	66	74
29.....	38	36	32	30	....	40	154	730	689	209	70	139
30.....	40	36	31	30	....	44	172	712	658	197	68	265
31.....	36	....	29	30	....	53	....	712	....	183	59	....
Total	1593	928	1045	893	828	1136	2170	22971	19799	13394	3844	2573
Mean.	51.4	30.9	33.7	28.8	29.6	36.6	72.3	741	660	432	124	85.8
Max...	161	38	40	34	32	53	172	1180	745	635	228	265
Min...	30	15	19	19	28	27	49	174	486	183	59	42
Acre-ft.	3160	1840	2070	1770	1640	2250	1300	45560	39270	26570	7620	5160

Total run-off for water year=141,200 acre-feet.

**Discharge of Navajo River at Banded Peak Ranch Near Chromo, Colo., for Year Ending
Sept. 30, 1942.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	183	141	68	54	45	56	94	170	630	281	116	31
2.....	152	134	64	54	45	56	125	180	630	277	91	31
3.....	183	125	61	54	45	56	150	165	655	261	102	31
4.....	200	123	62	54	45	56	180	155	640	225	96	31
5.....	186	123	62	54	45	56	290	175	630	218	81	31
6.....	197	118	62	54	45	56	250	200	630	214	80	31
7.....	155	107	62	54	45	56	210	250	645	204	80	31
8.....	158	98	62	54	45	56	190	290	630	222	80	31
9.....	147	96	62	54	45	56	240	350	625	208	78	31
10.....	134	92	62	54	45	56	280	430	610	190	70	31
11.....	123	88	62	54	45	56	390	400	645	184	55	136
12.....	116	88	62	54	45	56	430	360	635	176	55	83
13.....	166	86	62	54	45	56	350	330	610	157	55	56
14.....	290	83	62	54	45	56	390	312	575	159	55	40
15.....	260	81	62	54	45	56	400	309	520	152	52	39
16.....	240	81	62	54	45	56	370	298	555	144	60	38
17.....	230	86	62	54	45	56	420	306	590	179	55	38
18.....	225	86	62	54	45	56	370	320	610	154	52	38
19.....	222	77	62	54	45	56	290	338	580	131	48	38
20.....	219	66	62	54	45	56	250	378	540	116	46	38
21.....	212	64	62	54	45	56	265	428	510	107	42	38
22.....	203	70	62	54	45	56	342	482	471	102	32	38
23.....	194	70	62	54	45	56	370	550	453	96	32	38
24.....	212	72	62	54	45	56	298	586	426	89	34	38
25.....	197	72	62	54	45	56	253	604	372	87	46	38
26.....	180	71	62	54	45	56	234	658	345	83	32	38
27.....	170	71	62	54	45	56	219	680	333	78	31	38
28.....	190	71	62	54	45	56	210	640	297	93	31	38
29.....	174	68	62	54	....	56	200	660	273	96	31	38
30.....	155	68	62	54	....	56	190	630	265	80	31	38
31.....	152	....	62	54	....	56	....	615	....	80	31	....
Total	5825	2677	1929	1674	1260	1736	8250	12249	15930	4843	1780	1234
Mean.	188	89.2	62.2	54	45	56	275	395	531	156	57.4	41.1
Max...	290	141	....	....	....	....	430	680	655	281	116	136
Min...	116	64	....	....	....	....	94	155	265	78	31	31
Acre-ft.	11550	5310	3830	3320	2500	3440	16360	24300	31600	9610	3530	2450

Total run-off for water year=117,800 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Navajo River at Edith, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	112	46	44	38	36	50	281	740	830	808	197	78
2.....	78	47	46	30	34	54	215	912	836	808	188	76
3.....	78	49	46	25	35	50	206	960	854	796	176	72
4.....	72	48	46	28	38	45	224	846	848	814	165	68
5.....	150	40	46	35	40	54	247	852	848	834	165	68
6.....	178	45	46	40	44	47	228	1160	860	796	165	65
7.....	112	42	45	38	46	47	247	1280	926	718	165	62
8.....	92	43	46	38	42	44	302	1370	1420	724	168	64
9.....	84	43	46	39	42	47	364	1470	1010	748	200	70
10.....	74	44	48	39	42	42	381	1530	890	664	285	66
11.....	66	31	53	38	42	42	299	1590	760	652	206	62
12.....	61	29	48	39	42	43	330	1850	740	640	162	59
13.....	56	23	40	41	*12	49	288	2000	710	580	148	80
14.....	53	25	40	40	*42	49	228	1960	710	515	152	-276
15.....	50	45	34	38	42	46	250	1670	710	490	284	158
16.....	48	48	23	31	44	48	269	1490	715	450	176	122
17.....	47	50	44	*33	44	64	279	1400	782	455	173	110
18.....	45	54	47	34	*16	82	240	1330	956	495	191	114
19.....	44	56	43	36	46	104	200	1160	1020	470	148	140
20.....	43	54	39	38	46	111	174	974	1070	520	130	212
21.....	40	52	41	39	46	111	242	914	1080	440	125	230
22.....	36	50	43	38	46	111	271	974	1070	420	118	165
23.....	35	48	45	38	47	124	281	962	1070	372	110	197
24.....	35	46	46	38	50	125	384	1030	1080	368	100	168
25.....	35	45	44	38	50	106	479	1050	1170	348	94	145
26.....	36	45	40	34	43	93	576	1030	1110	320	86	130
27.....	50	44	44	35	42	90	770	1080	1070	292	84	120
28.....	50	40	47	36	44	120	846	926	932	268	78	114
29.....	50	41	45	41	.....	139	775	854	848	248	82	300
30.....	56	43	44	40	.....	180	780	878	827	224	96	296
31.....	48	.....	42	40	.....	259	.....	818	.....	209	84	.....
Total	2014	1316	1351	1135	1203	2576	10657	37060	27752	16486	4701	3887
Mean.	65.0	43.9	43.6	36.6	43.0	83.1	355	1195	925	532	152	130
Max.	178	56	53	41	50	259	846	2000	1420	834	285	300
Min.	35	23	23	25	34	42	174	740	710	209	78	59
Ac.-ft.	3990	2610	2680	2250	2390	5110	21140	73510	55050	32700	9320	7710

Total run-off for water year=218,500 acre-feet.

*Discharge measurement made on this day.

Discharge of Navajo River at Edith, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	221	245	92	97	58	45	340	512	756	254	130	40
2.....	200	233	90	95	60	42	430	550	768	257	112	35
3.....	242	215	92	93	60	43	506	435	829	257	125	35
4.....	296	203	92	93	60	45	589	420	829	221	125	36
5.....	276	203	77	45	62	45	920	480	732	209	101	41
6.....	272	200	86	49	64	45	708	506	738	215	93	40
7.....	245	188	107	54	64	49	567	594	768	203	90	42
8.....	242	176	109	58	62	48	534	654	720	209	88	42
9.....	233	168	112	56	56	45	690	726	714	215	82	37
10.....	224	140	116	54	50	50	850	801	690	191	79	38
11.....	209	132	116	56	48	50	1080	815	750	179	77	140
12.....	209	128	110	60	48	56	1340	787	750	168	74	114
13.....	445	130	110	58	50	58	1010	612	714	152	68	86
14.....	829	128	107	58	46	60	1220	540	672	148	65	67
15.....	435	122	105	56	42	54	1230	518	572	148	62	60
16.....	390	120	105	56	39	52	1080	485	612	135	62	58
17.....	365	122	105	56	37	51	1290	501	648	176	56	54
18.....	332	155	105	56	37	64	1190	518	678	162	59	50
19.....	324	125	105	56	38	90	738	528	654	142	56	49
20.....	308	107	105	56	40	110	696	584	606	125	52	49
21.....	300	101	105	57	43	120	714	678	572	114	47	46
22.....	312	101	107	57	45	130	968	750	528	114	50	42
23.....	300	92	105	56	42	145	1730	808	480	109	50	41
24.....	288	92	107	54	42	158	1210	836	460	105	50	40
25.....	380	93	107	54	42	155	960	906	390	95	53	40
26.....	336	101	109	56	40	150	815	928	346	92	50	40
27.....	288	105	109	58	40	148	750	984	324	90	47	40
28.....	316	103	110	60	45	152	660	850	288	90	46	37
29.....	296	97	114	60	.....	165	572	857	257	109	42	36
30.....	254	93	107	54	.....	194	584	794	251	90	42	35
31.....	257	.....	101	56	.....	245	.....	738	.....	82	40	.....
Total	9624	4218	3227	1884	1360	2864	25971	20695	18090	4856	2173	1510
Mean.	310	141	104	60.8	4.86	92.4	866	668	603	157	70.1	50.3
Max.	829	245	116	97	64	245	1730	984	829	257	130	140
Min.	200	92	77	45	37	42	340	420	251	82	40	35
Ac.-ft.	19090	8370	6400	3740	2700	5680	51510	41050	35880	9630	4310	3000

Total run-off for water year=191,400 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Navajo River at Chromo, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.4	3.1	2.6	3.2	9.3	67	128	67	28	6.7	2.2
2	0.6	1.6	3.0	2.6	3.6	6.4	44	190	62	30	5.8	1.8
3	1.3	1.7	3.0	2.5	3.0	6.0	39	190	64	28	5.0	1.8
4	1.5	2.6	3.0	2.6	3.0	7.4	47	196	56	27	4.6	1.8
5	4.7	2.0	3.1	2.7	3.0	6.4	51	214	56	31	4.8	1.9
6	5.3	2.2	3.0	3.2	3.0	6.2	40	242	55	22	5.8	1.9
7	3.0	2.0	3.0	3.2	3.0	6.9	41	308	97	21	5.2	1.9
8	2.4	2.0	3.0	3.2	3.0	9.6	60	287	252	23	6.1	1.9
9	2.0	1.8	3.1	3.0	2.6	8.4	75	298	179	25	7.6	1.9
10	1.9	1.3	3.2	3.0	2.2	11	73	318	166	25	8.2	1.9
11	1.7	1.8	3.0	3.2	2.6	9.3	11	290	125	24	8.0	1.9
12	1.6	1.8	2.8	3.2	2.4	10	73	287	97	24	7.8	2.0
13	1.6	3.4	2.7	3.4	2.4	5.5	47	308	85	22	7.6	3.1
14	1.6	2.6	2.5	3.4	3.4	5.1	33	326	78	21	7.2	1.1
15	1.5	2.4	2.3	3.4	4.2	5.8	36	326	71	19	6.7	7.9
16	1.3	2.6	2.4	3.4	3.8	5.8	36	294	71	17	6.4	5.8
17	1.4	2.8	2.7	3.2	4.9	9.3	39	290	75	16	6.1	5.0
18	1.2	3.0	3.2	3.0	3.4	13	31	262	82	14	5.8	7.0
19	1.2	3.2	3.0	3.0	3.6	18	25	200	80	24	5.0	1.1
20	1.2	3.6	2.7	3.0	3.6	20	23	147	80	28	4.0	1.6
21	1.2	2.8	2.6	3.0	3.4	16	29	190	48	24	4.2	1.0
22	1.2	2.8	2.6	3.2	2.8	18	32	166	39	22	3.8	1.2
23	1.1	2.6	2.8	3.0	2.8	26	39	166	39	22	3.8	1.2
24	1.1	2.9	2.9	3.0	3.4	22	51	176	72	20	3.4	9.3
25	1.1	3.1	3.1	3.0	4.2	18	94	157	49	19	3.1	7.0
26	1.1	3.0	3.1	3.0	4.3	16	190	141	29	17	3.1	5.5
27	1.9	2.7	3.0	3.2	6.2	16	193	134	39	15	2.7	5.2
28	1.9	2.6	2.9	3.0	8.4	23	163	109	51	13	2.5	5.5
29	1.7	2.8	3.0	4.2	....	26	157	97	38	10	2.4	2.9
30	1.5	3.0	3.0	4.7	....	36	122	94	30	7.9	2.4	2.9
31	1.5	....	3.2	3.6	....	69	....	78	....	7.0	2.2	....
Total	53.3	73.3	90.0	97.7	99.4	165.4	1994	6590	2353	649.9	158.4	202.2
Mean	1.72	2.44	2.90	3.15	3.55	15.0	66.5	213	78.4	21.0	5.11	6.74
Max.	5.3	3.6	3.2	4.7	8.4	69	193	326	252	31	8.2	2.9
Min.	0.6	1.0	2.3	2.5	2.2	5.1	23	78	29	7.0	2.2	1.8
Acre-ft.	106	145	179	194	197	923	3960	13070	4670	1290	314	401

Total run-off for water year=25,450 acre-feet.

Discharge of Little Navajo River at Chromo, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	27	8.0	4.5	5.0	4.5	70	88	50	3.0	2.2	1.4
2	14	24	8.0	4.5	5.0	5.0	98	94	47	3.2	2.3	1.4
3	27	22	8.0	4.5	5.0	6.0	142	84	56	3.7	2.2	1.4
4	29	21	8.0	4.5	5.0	6.5	154	85	67	4.9	2.1	1.4
5	23	21	8.0	4.5	5.0	7.0	171	94	61	3.7	2.2	1.4
6	21	20	8.0	4.5	5.0	8.0	122	99	56	3.4	2.2	1.3
7	19	19	8.0	4.5	5.0	7.5	117	112	50	3.4	2.2	1.3
8	19	18	8.0	4.5	5.0	7.0	120	128	40	3.2	2.2	1.3
9	19	18	8.0	4.5	5.0	8.5	129	126	34	3.2	2.3	1.4
10	18	16	8.0	4.5	5.0	10	132	122	31	3.2	2.2	1.4
11	16	16	8.0	4.5	5.0	13	156	123	28	3.1	2.2	1.9
12	16	15	8.0	4.5	5.0	14	186	112	30	3.0	2.3	2.1
13	74	15	8.0	4.5	5.0	15	166	95	26	2.6	2.3	2.3
14	125	14	8.0	4.5	5.0	15	190	80	28	2.5	2.2	2.2
15	52	14	8.0	4.5	5.0	13	180	73	25	2.6	1.8	2.0
16	44	14	8.0	4.5	5.0	11	172	69	21	2.6	1.6	1.8
17	40	14	8.0	4.5	5.0	*10	189	72	20	3.8	1.6	1.7
18	35	15	8.0	4.5	5.0	15	174	73	20	3.7	1.5	1.5
19	35	14	8.0	4.5	*5.0	20	135	74	17	2.5	1.5	1.5
20	33	13	8.0	4.5	5.0	26	126	80	13	2.4	1.5	1.5
21	31	12	8.0	4.5	5.0	32	135	89	14	2.4	1.5	1.6
22	33	12	8.0	4.5	5.0	33	170	94	12	2.6	1.5	1.6
23	32	11	8.0	*4.5	5.0	35	130	91	7.8	3.0	1.5	1.6
24	33	11	8.0	4.5	5.0	34	114	91	6.1	2.6	1.5	1.6
25	47	11	8.0	4.5	5.0	29	104	91	3.7	2.3	1.5	1.7
26	39	11	8.0	4.5	5.0	31	105	91	3.4	2.1	1.6	1.7
27	33	12	8.0	4.5	5.0	38	104	85	3.4	2.0	1.5	1.6
28	35	11	8.0	4.5	5.0	36	101	77	2.8	2.0	1.5	1.5
29	34	11	8.0	4.5	5.0	33	98	73	2.8	2.0	1.4	1.5
30	29	10	8.0	4.5	....	41	98	62	2.6	2.1	1.4	1.5
31	29	....	8.0	4.5	....	54	....	55	....	2.1	1.4	....
Total	1048	462	248.0	139.5	140.0	618.0	4088	2782	778.6	88.9	56.9	48.1
Mean	33.8	15.4	8.0	4.5	5.0	19.9	136	89.7	26.0	2.87	1.84	1.60
Max.	125	27	....	....	....	54	190	128	67	4.9	2.3	2.3
Min.	14	10	....	....	....	4.5	70	55	2.6	2.0	1.4	1.3
Acre-ft.	2080	916	492	277	278	1230	8110	5520	1540	176	113	95

Total run-off for water year=20,830 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Piedra River at Bridge Ranger Station Near Pagosa Springs, Colo., for Year
Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	180	34	26	18	20	20	64	367	644	726	135	42
2....	137	35	26	18	20	19	62	490	765	690	120	42
3....	116	37	26	18	20	18	57	406	740	713	115	40
4....	98	36	26	18	20	17	53	478	740	760	108	40
5....	340	30	26	18	20	18	61	498	825	1060	110	39
6....	297	37	26	18	20	16	58	532	731	770	138	37
7....	202	35	26	18	20	15	63	555	825	695	127	29
8....	148	36	26	18	20	16	75	622	890	686	125	30
9....	126	35	26	18	20	18	95	654	672	623	130	31
10....	106	33	26	18	20	15	104	710	574	628	122	29
11....	91	24	26	18	20	17	80	810	499	618	113	27
12....	81	27	26	18	20	18	70	895	471	677	102	26
13....	73	27	26	18	20	19	69	975	471	592	96	43
14....	68	31	26	18	20	18	69	920	495	515	96	125
15....	64	41	26	18	20	18	75	790	551	459	127	96
16....	60	43	26	18	20	20	74	731	605	451	257	70
17....	55	39	26	18	20	21	72	770	686	463	169	62
18....	51	32	26	18	20	24	63	795	815	596	138	81
19....	49	30	26	18	20	28	58	755	955	596	113	120
20....	45	31	26	18	20	33	55	682	1060	569	102	327
21....	43	31	26	18	20	32	61	650	1050	471	102	324
22....	40	30	26	18	20	30	58	641	1020	419	90	327
23....	39	28	26	18	20	33	54	641	1150	371	83	327
24....	39	28	26	18	20	36	76	750	1300	427	74	250
25....	36	27	26	18	20	32	116	785	1150	427	70	226
26....	36	27	26	18	20	33	145	810	1050	341	62	190
27....	42	27	26	18	20	34	226	790	975	292	57	154
28....	40	25	26	18	20	36	250	718	915	235	52	143
29....	40	25	26	18	...	38	320	641	800	202	52	285
30....	41	26	26	18	...	40	382	641	731	178	57	241
31....	36	...	26	18	...	47	...	677	...	157	50	...
Total	2819	947	806	558	560	779	3065	21179	24155	16407	3292	3803
Mean...	90.9	31.6	26	18	20	25.1	102	683	805	529	106	127
Max....	340	43	...	...	...	47	382	975	1300	1060	257	327
Min....	36	24	...	...	...	15	53	367	471	157	50	26
Acre-ft.	5590	1880	1600	1110	1110	1550	6080	42010	47910	32540	6530	7540

Total run-off for water year=155,400 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Piedra River Near Piedra, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	464	102	87	72	64	94	337	1640	2190	2500	400	135
2	352	104	89	63	61	98	302	2110	2180	2110	365	128
3	302	108	83	54	66	90	275	2110	2660	2120	355	122
4	259	108	83	50	76	81	256	2440	2380	2230	346	115
5	542	85	81	57	66	98	288	2560	2210	2500	342	113
6	822	100	87	63	68	76	262	2780	2820	2110	390	109
7	514	94	85	64	74	79	262	3040	2880	1930	420	105
8	412	98	81	76	66	72	295	3260	3140	1830	385	111
9	348	96	83	75	66	85	368	3420	2600	1660	430	113
10	292	100	102	69	68	68	460	3600	2550	1640	380	105
11	252	56	100	61	68	77	392	3900	1840	1540	355	101
12	224	59	87	72	69	87	341	4150	1620	1330	324	95
13	205	50	74	70	66	94	341	4350	1730	1210	274	105
14	187	58	62	68	68	89	312	4400	1860	1140	270	160
15	171	65	62	66	75	87	334	3750	2950	1090	430	292
16	159	76	59	52	69	87	334	3300	2190	1090	638	263
17	149	87	74	48	81	102	341	3350	3090	1100	430	139
18	138	90	88	*46	83	120	309	3500	3390	1090	370	274
19	129	96	81	52	87	138	275	3200	3640	1090	346	385
20	122	92	76	60	83	159	252	2950	3380	1110	314	676
21	118	98	76	66	87	154	292	2700	3330	986	288	575
22	112	92	74	66	81	149	285	2500	3720	872	257	545
23	106	90	76	66	83	161	278	2450	3780	878	233	776
24	106	83	80	64	90	176	305	2800	4020	742	222	520
25	102	87	80	64	90	147	460	3000	4220	788	197	465
26	100	85	70	61	68	149	600	3010	3450	784	175	415
27	159	90	64	59	65	154	945	2640	2830	688	160	342
28	124	62	74	59	76	164	1260	2350	2770	610	152	314
29	116	70	81	72	.....	174	1480	2260	2710	520	138	590
30	124	87	80	69	.....	176	1640	2290	2640	485	175	535
31	108	.....	76	70	.....	229	.....	2180	.....	420	155	.....
Total	7318	2568	2449	1954	2064	3714	13881	91990	84770	40173	9716	8743
Mean	236	85.6	79.0	63.0	73.7	120	463	2967	2826	1296	313	291
Max.	822	108	102	76	90	229	1640	4400	4220	2500	638	776
Min.	100	50	59	46	61	68	252	1640	1620	420	138	95
Ac.-ft.	14520	5090	4860	3880	4090	7370	27530	182500	168100	79680	19270	17340

Total run-off for water year=534,200 acre-feet.

*Discharge measurement made on this day.

Discharge of Piedra River Near Piedra, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	495	615	193	109	84	78	209	774	1740	505	107	62
2	445	580	184	102	87	78	308	804	1870	500	128	61
3	822	535	184	100	90	79	505	756	1750	470	178	59
4	950	515	184	102	84	79	660	750	1740	445	135	67
5	786	500	148	98	87	81	1060	845	1780	425	109	81
6	714	485	148	90	82	87	978	925	1870	415	118	78
7	605	445	160	96	85	81	817	1070	2000	395	111	74
8	575	405	154	106	85	79	798	1220	1920	371	105	68
9	540	415	160	107	77	84	992	1340	1850	353	98	62
10	510	385	157	160	76	90	1160	1630	1660	335	90	60
11	490	358	169	98	76	98	1500	1660	1820	304	98	215
12	490	348	142	100	76	98	1710	1550	1870	263	96	157
13	1270	353	163	100	78	95	1670	1170	1610	237	118	142
14	2000	330	151	100	79	92	1860	1010	1510	225	92	98
15	922	317	160	96	77	87	1940	971	1230	202	93	84
16	792	322	132	105	78	85	1710	922	1240	199	90	76
17	696	335	138	102	84	77	1860	971	1390	237	100	69
18	620	380	120	98	74	82	1640	908	1490	227	87	66
19	590	308	118	96	70	95	1240	943	1470	199	92	62
20	666	272	125	93	78	85	1160	1070	1210	172	87	61
21	1060	237	130	90	76	79	1190	1340	1130	157	87	60
22	1040	221	146	98	78	90	1600	1640	1040	142	84	59
23	999	175	92	100	74	109	2670	1700	936	135	78	57
24	950	181	100	98	72	120	2060	2070	908	132	81	56
25	1480	209	104	95	73	113	1440	2160	792	118	105	54
26	1270	233	109	95	75	102	1190	2300	714	107	98	54
27	964	225	120	93	73	93	1030	2540	666	116	82	53
28	964	209	118	95	76	100	929	2140	580	120	77	53
29	873	202	135	96	.....	109	859	2080	550	125	69	52
30	728	196	130	88	.....	130	824	1910	520	113	68	51
31	666	.....	130	96	.....	157	.....	1710	.....	100	65	.....
Total	26012	10291	4398	3034	2202	2912	37509	42893	40856	7838	3036	2251
Mean	839	343	142	97.9	78.6	93.9	1250	1384	1362	253	97.9	75.0
Max.	2000	615	193	109	90	157	2670	2540	2060	503	178	215
Min.	445	175	92	88	70	77	209	750	520	100	65	51
Ac.-ft.	51560	20410	8720	6020	4370	5780	74400	85080	81040	15550	6020	4460

Total run-off for water year=363,400 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Williams Creek Near Bridge Ranger Station Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	84	21	14	12	13	16	30	226	330	383	62	24
2.....	67	21	14	12	13	16	30	300	330	383	54	16
3.....	60	21	14	12	13	16	30	285	356	388	48	14
4.....	52	21	14	12	13	16	30	350	340	410	50	12
5.....	140	19	14	12	13	16	30	400	340	493	44	12
6.....	140	19	14	12	13	16	30	366	335	422	49	11
7.....	95	19	14	12	13	16	30	432	394	400	47	12
8.....	80	19	14	12	13	16	30	476	427	383	40	12
9.....	68	19	14	12	13	16	30	526	366	340	40	13
10.....	56	17	14	12	13	16	30	532	305	340	39	13
11.....	48	17	14	12	13	16	30	606	260	340	35	12
12.....	41	17	14	12	13	16	30	594	238	372	30	11
13.....	38	17	14	12	13	16	30	588	255	340	26	27
14.....	35	17	14	12	13	16	30	532	285	295	24	65
15.....	32	17	14	12	13	16	30	449	330	270	48	59
16.....	29	17	14	12	13	16	30	116	378	255	100	46
17.....	28	*17	14	12	13	16	30	444	416	238	64	43
18.....	25	17	14	12	13	16	30	438	449	265	48	70
19.....	23	17	14	12	13	16	30	444	471	280	38	95
20.....	21	17	14	12	13	16	30	394	498	255	34	161
21.....	20	17	14	12	13	16	30	366	482	214	32	158
22.....	19	17	14	12	13	16	30	356	498	174	28	155
23.....	19	17	14	12	13	16	30	366	542	167	26	146
24.....	19	17	14	12	13	16	30	416	554	186	23	122
25.....	19	17	14	12	13	16	53	405	493	174	22	102
26.....	21	17	14	12	13	16	65	405	520	140	22	84
27.....	28	17	14	12	13	16	90	400	498	128	20	70
28.....	25	17	14	12	13	16	108	360	482	105	17	64
29.....	24	17	14	12	.....	16	149	340	427	92	17	120
30.....	24	17	14	12	.....	16	202	335	394	80	17	108
31.....	22	.....	14	12	.....	16	.....	330	.....	70	27	.....
Total	1402	536	434	372	364	496	1387	12877	11993	8382	1171	1857
Mean.	45.2	17.9	14.0	12.0	13.0	16.0	46.2	415	400	270	37.8	61.9
Max.	140	.....	.....	.....	.....	.....	202	606	554	493	100	161
Min.	19	.....	.....	.....	.....	.....	.....	226	238	70	17	11
Acre-ft.	2780	1060	861	738	722	984	2750	25540	23790	16630	2320	3680

Total run-off for water year=81,860 acre-feet.

Discharge of Weminuche Creek Near Bridge Ranger Station Near Pagosa Springs, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	102	20	14	12	15	18	34	230	408	410	94	34
2.....	78	20	14	12	15	18	32	260	420	385	87	33
3.....	71	21	14	12	15	18	31	285	438	382	81	30
4.....	59	21	14	12	15	18	30	335	452	398	78	27
5.....	140	17	14	12	15	18	33	365	420	567	71	24
6.....	140	19	14	12	15	18	30	458	410	445	74	23
7.....	108	18	14	12	15	18	24	415	485	392	81	22
8.....	85	19	14	12	15	18	27	470	531	405	74	22
9.....	77	21	14	12	15	18	33	525	420	365	90	23
10.....	66	22	14	12	15	18	45	558	348	340	81	21
11.....	58	16	14	12	15	18	37	627	300	340	71	19
12.....	52	16	14	12	15	18	34	711	288	380	62	17
13.....	46	16	14	12	15	18	32	765	318	340	54	32
14.....	43	16	14	12	15	18	31	717	370	332	53	63
15.....	38	16	14	12	15	18	33	591	415	345	82	47
16.....	36	16	14	12	15	18	33	505	468	332	120	35
17.....	33	*16	14	12	15	18	33	515	520	330	97	34
18.....	30	16	14	12	15	18	30	500	609	322	83	70
19.....	29	16	14	12	15	18	27	452	678	315	68	74
20.....	27	16	14	12	15	18	25	430	657	280	63	123
21.....	24	16	14	12	15	18	28	375	660	232	59	114
22.....	21	16	14	12	15	18	27	375	663	208	57	158
23.....	21	16	14	12	15	18	26	392	669	195	50	208
24.....	21	16	14	12	15	18	40	448	669	192	42	140
25.....	21	16	14	12	15	18	75	498	615	220	38	118
26.....	23	16	14	12	15	18	100	488	588	180	36	97
27.....	30	16	14	12	15	18	135	505	522	164	33	81
28.....	27	16	14	12	15	18	175	460	515	146	32	69
29.....	25	16	14	12	.....	18	195	418	458	127	31	132
30.....	26	16	14	12	.....	18	225	408	428	114	42	136
31.....	20	.....	14	12	.....	18	.....	385	.....	102	36	.....
Total	1577	518	434	372	420	558	1660	14466	14742	9285	2020	2026
Mean.	50.9	17.3	14.0	12.0	15.0	18.0	55.3	467	491	300	65.2	67.5
Max.	140	.....	.....	.....	.....	.....	225	765	678	567	120	208
Min.	20	.....	.....	.....	.....	.....	24	230	288	102	31	17
Acre-ft.	3130	1030	861	738	833	1110	3290	28690	29240	18420	4010	4020

Total run-off for water year=95,370 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

**Discharge of Los Pinos River Below Snowslide Canyon Near Weminuche Pass, Colo., for Year
Ending Sept. 30, 1941.**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	14						175	180	292	42	15
2	40	12						175	210	284	38	14
3	37	9.0						175	230	282	36	14
4	32	7.8						175	255	284	35	14
5	67							175	260	336	34	13
6	58							175	250	274	35	13
7	47							175	245	264	35	12
8	42							175	230	252	34	12
9	40							175	210	226	35	12
10	35							175	190	226	32	12
11	32							175	160	230	30	12
12	29							175	140	244	28	12
13	27							175	160	208	26	20
14	26							175	200	188	27	27
15	25							175	230	172	37	19
16	23							175	270	162	42	16
17	22							175	320	150	32	19
18	21							175	360	144	27	46
19	20							175	410	154	24	32
20	20							175	420	142	22	43
21	19							175	430	126	21	33
22	17							175	450	120	21	170
23	16							175	470	113	19	104
24	17							175	440	115	18	82
25	17							175	420	102	18	69
26	15							175	405	87	16	62
27	13							175	395	77	15	54
28	20							175	376	64	15	54
29	23							175	326	56	17	79
30	17							175	302	51	18	64
31	18							175	...	47	15	...
Total	883							5425	8944	5472	844	1148
Mean	28.5							175	298	177	27.2	38.3
Max.	67							...	470	336	42	170
Min.	13							...	140	47	15	12
Acre-ft.	1750							10760	17740	10850	1670	2280

Total run-off for period=45,050 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Pine or Los Pinos River Near Bayfield, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	612	190	111	192	78	392	184	542	1580	2010	600	434
2....	606	184	109	88	72	39	192	642	1520	2170	606	439
3....	565	179	109	84	70	10	190	700	1600	2160	600	411
4....	510	179	104	78	69	22	184	824	1620	2170	576	430
5....	504	167	102	75	70	208	190	873	1580	2200	537	430
6....	720	162	102	76	42	206	187	930	1500	2200	537	430
7....	741	157	93	80	39	190	187	988	1630	2170	531	430
8....	681	155	104	78	62	179	195	1070	1700	2110	478	340
9....	618	150	115	81	80	164	206	1180	1650	2170	439	287
10....	554	150	117	81	68	155	228	1280	1780	2130	439	287
11....	499	136	123	84	32	143	247	1370	1440	2150	430	287
12....	463	134	125	86	32	132	247	1570	1780	2190	425	287
13....	425	123	107	87	18	129	241	1770	1800	2170	425	287
14....	388	113	104	86	46	132	228	1870	1720	2110	425	287
15....	357	111	92	87	16	20	225	1920	1700	1860	430	287
16....	328	115	82	80	18	150	225	1950	1740	1600	425	287
17....	305	117	93	75	13	152	228	1950	1780	1200	425	287
18....	287	121	102	75	21	169	228	1910	1770	1460	425	287
19....	267	132	104	78	28	155	217	1950	1810	1330	425	247
20....	257	134	98	82	44	143	206	1910	1900	1220	444	228
21....	244	129	97	86	52	143	211	1840	1920	1210	444	225
22....	231	125	97	84	53	141	217	1720	1960	1200	444	231
23....	220	123	97	86	56	148	208	1610	2070	1130	444	231
24....	211	121	100	82	76	157	206	1610	2060	1100	444	234
25....	203	121	104	82	76	143	220	1580	2090	1110	444	234
26....	200	119	92	75	102	132	254	1560	2040	1110	434	234
27....	222	119	88	72	127	132	313	1520	2100	1110	425	234
28....	217	115	92	72	86	134	370	1470	2140	894	411	238
29....	197	113	95	74	....	138	415	1570	2140	901	415	241
30....	195	113	98	82	....	141	473	1650	2170	817	411	302
31....	200	....	102	81	....	152	....	1600	....	687	434	....
Total	12027	4107	3158	2519	1341.6	4451	7122	44929	54290	50049	14372	9093
Mean.	388	137	102	81.3	47.9	144	237	1449	1810	1614	464	303
Max.	741	190	125	102	127	392	473	1950	2170	2200	606	439
Min.	195	111	82	72	3.2	10	184	542	1440	637	111	225
Ac.-ft.	23860	8150	6260	5000	2460	8830	11130	89120	107700	99270	28510	18040

Total run-off for water year—411,500 acre-feet.

Discharge of Pine or Los Pinos River Near Bayfield, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	397	439	195	250	257	141	60	415	1580	761	468	468
2....	388	439	195	250	257	123	68	294	1570	761	489	444
3....	537	379	195	250	257	54	76	250	1580	754	489	444
4....	782	463	195	247	257	54	81	250	1550	768	494	439
5....	859	463	234	250	257	53	100	250	1360	748	494	406
6....	915	463	298	263	257	53	97	254	1200	741	499	402
7....	901	463	302	277	257	53	87	257	694	714	499	415
8....	901	463	305	277	257	54	88	260	700	576	504	430
9....	714	324	305	277	257	54	93	324	720	554	504	406
10....	618	190	305	277	257	54	100	484	714	548	510	388
11....	800	190	302	274	250	54	121	499	720	542	515	349
12....	588	190	302	270	250	53	136	504	748	542	504	345
13....	687	190	302	270	250	53	141	504	1160	531	478	340
14....	866	190	302	270	250	54	145	504	1530	458	478	328
15....	930	190	302	274	250	54	143	618	1550	458	478	270
16....	944	190	302	270	250	53	134	901	1550	449	478	267
17....	944	190	298	270	247	53	132	901	1600	449	489	260
18....	901	190	298	270	247	53	123	908	1750	444	494	260
19....	852	190	294	270	247	53	155	908	1790	439	510	260
20....	332	190	294	267	195	52	559	908	1880	439	494	260
21....	600	190	291	263	145	52	817	908	1940	494	489	260
22....	930	197	291	263	145	53	824	1050	1900	531	484	260
23....	930	192	291	263	145	54	838	1360	1670	531	484	257
24....	950	192	291	263	143	54	1360	1360	1560	531	484	254
25....	1010	195	287	263	143	54	1670	1500	1420	537	484	250
26....	1010	192	284	260	143	54	973	1600	1230	537	478	250
27....	1010	192	284	260	143	53	958	1610	1090	489	478	250
28....	1010	192	284	260	143	53	951	1610	859	444	478	250
29....	735	192	284	257	....	54	845	1600	768	449	473	250
30....	700	195	284	260	....	56	612	1600	768	444	473	250
31....	*700	....	267	260	....	59	....	1600	....	444	473	....
Total	24241	7915	8663	8195	6156	1821	12487	25931	39151	17107	15146	9712
Mean.	782	264	279	264	220	58.7	416	836	1305	552	489	324
Max.	1010	463	305	277	257	141	1670	1610	1940	768	515	468
Min.	332	190	195	247	143	52	60	250	694	439	468	250
Ac.-ft.	48080	15700	17180	16250	12210	3610	24770	51430	77650	33930	30040	19260

Total run-off for water year—350,100 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Pine or Los Pinos River at Ignacio, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	475	124	121	129	111	302	634	1240	1640	1910	262	106
2.....	480	148	121	121	100	351	538	1910	1510	2060	237	176
3.....	445	148	119	100	90	141	485	1550	1490	2060	244	212
4.....	390	148	117	80	104	117	435	2880	1580	2040	220	117
5.....	390	138	117	90	102	230	465	1970	1490	2020	159	126
6.....	550	129	117	100	102	285	415	1830	1430	2010	200	126
7.....	592	129	117	90	85	262	400	1850	1570	1980	175	131
8.....	450	124	115	90	74	237	430	1920	2020	1950	138	131
9.....	496	119	115	100	104	230	470	2020	1840	1970	138	72
10.....	415	129	117	*100	88	208	526	2120	2070	1920	204	64
11.....	395	121	131	100	44	195	538	2260	1730	1910	181	62
12.....	354	115	136	168	54	195	557	2290	2040	1910	172	54
13.....	317	110	131	111	72	201	538	2540	2010	1900	164	76
14.....	285	100	110	108	60	198	460	2620	1840	1840	153	119
15.....	254	90	106	106	50	195	445	2540	1740	1690	166	108
16.....	234	100	80	100	64	224	460	2450	1710	1410	208	96
17.....	208	106	*100	*90	70	361	455	2370	1740	826	198	102
18.....	189	111	120	90	81	414	465	2370	1700	1030	181	124
19.....	175	146	110	100	104	420	430	2370	1700	985	156	136
20.....	164	148	110	100	119	358	400	2230	1780	810	161	113
21.....	148	136	100	111	156	386	460	2080	1760	786	159	200
22.....	146	136	110	106	159	390	662	2080	1810	762	156	170
23.....	133	141	110	111	156	470	520	1950	1940	746	153	181
24.....	124	136	120	100	184	634	480	1850	2070	612	153	148
25.....	117	133	133	111	184	410	532	1780	2040	634	151	141
26.....	108	131	120	100	166	345	754	1730	1940	627	146	141
27.....	143	129	100	100	270	329	940	1700	2000	620	136	138
28.....	153	129	110	102	138	350	1220	1660	2060	538	119	146
29.....	178	121	119	115	.....	372	1070	1620	2040	485	124	261
30.....	151	124	131	121	.....	386	1100	1840	2020	410	121	204
31.....	119	.....	133	119	.....	435	.....	1690	.....	368	104	.....
Total	8908	3799	3590	3209	3091	9631	17284	63310	54310	40820	5239	3981
Mean.	287	127	116	104	110	311	576	2042	1810	1317	169	133
Max...	592	148	136	129	270	634	1220	2880	2070	2060	262	261
Min...	108	90	80	80	44	117	400	1240	1430	368	104	54
Ac.-ft.	17670	7540	7120	6360	6130	19110	34280	125600	107700	80970	10390	7900

Total run-off for water year=430,770 acre-feet.

Discharge of Pine or Los Pinos River at Ignacio, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	258	564	210	250	297	169	365	660	1120	320	61	235
2.....	342	544	210	255	297	169	421	584	1120	324	67	146
3.....	587	483	210	260	297	122	454	465	1150	328	69	143
4.....	874	551	210	255	288	97	460	448	1150	346	67	155
5.....	807	551	220	260	302	97	675	432	866	333	78	108
6.....	840	540	300	285	297	106	577	416	849	324	95	97
7.....	799	530	330	310	297	95	625	432	338	324	125	103
8.....	815	*520	330	320	302	88	495	432	270	212	128	103
9.....	723	450	325	305	292	97	471	426	262	198	108	97
10.....	590	270	325	*300	292	132	477	618	365	192	118	90
11.....	577	230	320	305	292	128	525	618	250	169	130	97
12.....	577	225	320	292	288	138	625	597	262	166	152	86
13.....	1010	220	320	288	284	169	597	577	566	163	106	84
14.....	963	220	320	288	288	157	564	538	1030	120	101	80
15.....	927	220	320	284	288	122	544	544	1040	92	101	58
16.....	927	225	320	284	288	108	489	832	1040	84	122	43
17.....	909	230	315	288	288	103	471	832	1040	64	130	37
18.....	883	235	306	280	288	115	438	824	1190	63	120	37
19.....	849	230	306	285	284	138	380	799	1250	59	115	38
20.....	591	225	302	284	288	112	644	759	1310	35	120	39
21.....	544	220	302	292	198	115	972	720	1320	65	118	40
22.....	945	220	302	292	185	141	1050	759	1350	160	128	38
23.....	963	215	288	297	179	206	1240	954	1120	185	132	37
24.....	1010	210	302	297	176	223	1610	972	1020	185	146	36
25.....	1800	210	297	297	179	182	2440	1060	954	192	152	37
26.....	1310	215	297	292	176	166	1360	1220	728	185	160	36
27.....	1170	*215	302	292	173	157	1300	1210	618	173	157	34
28.....	1136	215	302	297	176	189	1260	1180	416	95	160	33
29.....	1150	210	302	297	.....	223	1170	1150	320	69	169	31
30.....	616	210	302	284	.....	270	999	1130	315	61	192	30
31.....	932	.....	297	302	.....	310	.....	1150	.....	58	192	.....
Total	26418	9403	9112	8912	7279	4644	23698	23338	24629	5364	3829	2228
Mean.	852	313	294	287	260	150	790	753	821	175	124	74.3
Max...	1800	564	330	320	302	310	2440	1220	1350	346	192	235
Min...	258	210	210	250	173	88	365	416	250	55	61	30
Ac.-ft.	52400	18650	18070	17680	14440	9210	47000	46290	48850	10640	7590	4420

Total run-off for water year=295,240 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Animas River at Howardsville, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	92	29	23	16	15	13	19	65	350	650	202	67
2....	89	31	21	15	15	13	18	65	445	620	188	63
3....	83	31	19	14	15	13	18	75	490	626	177	62
4....	75	29	18	14	15	12	18	88	470	608	172	58
5....	94	26	19	14	14	14	19	88	490	584	163	56
6....	94	28	20	15	14	14	18	114	460	530	158	53
7....	86	28	20	15	15	13	18	153	445	530	161	52
8....	83	29	20	15	14	13	20	244	355	530	163	57
9....	80	29	20	15	14	13	22	305	284	542	161	53
10....	74	26	20	15	14	14	22	385	236	590	151	50
11....	68	24	20	16	14	15	21	450	206	554	148	48
12....	64	24	18	15	14	16	20	590	196	524	148	47
13....	60	*23	17	15	14	16	20	596	244	506	136	77
14....	59	25	16	*15	14	16	20	554	305	465	134	98
15....	57	27	15	14	14	16	20	470	360	450	151	94
16....	54	27	16	14	14	16	20	435	440	435	153	88
17....	51	27	17	15	*14	16	20	518	542	445	148	84
18....	47	27	17	15	14	15	20	542	704	460	132	144
19....	44	26	17	15	14	14	20	445	752	470	121	169
20....	43	25	17	14	14	14	22	325	794	455	112	177
21....	42	25	18	14	14	14	19	305	818	415	112	156
22....	40	25	18	14	13	14	18	284	848	410	107	236
23....	40	25	17	14	13	13	19	264	842	415	98	232
24....	39	24	17	14	14	14	20	325	650	410	88	199
25....	37	21	18	14	14	18	22	405	680	380	83	180
26....	39	19	17	14	12	18	24	475	728	340	80	166
27....	33	18	16	14	11	18	27	410	728	370	75	156
28....	32	23	17	15	11	17	32	345	668	315	72	144
29....	40	23	17	16	....	17	39	300	626	272	74	148
30....	36	23	17	16	....	18	56	288	632	240	77	139
31....	32	....	17	15	....	18	....	292	....	220	70	....
Total	1807	767	559	456	387	465	671	10200	15788	14361	4015	3353
Mean	58.3	25.6	18.0	14.7	13.8	15.0	22.4	329	526	463	130	112
Max.	94	31	23	16	15	18	56	596	848	650	202	236
Min.	32	18	15	14	11	12	18	65	196	220	70	47
Acres-ft.	3580	1520	1110	904	768	922	1330	20230	31320	28480	7960	6650

Total run-off for water year=104,800 acre-feet.

Discharge of Animas River at Howardsville, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	125	84	37	23	23	20	20	45	488	472	150	55
2....	123	85	37	22	23	20	21	47	548	450	152	56
3....	152	84	38	22	24	19	23	44	521	477	160	55
4....	150	80	34	22	23	20	24	50	466	482	145	54
5....	138	80	32	21	22	20	24	55	548	494	138	54
6....	128	76	29	21	23	20	24	63	638	532	135	54
7....	115	70	28	22	23	20	24	78	680	499	121	52
8....	119	65	27	24	22	19	24	95	644	532	109	49
9....	117	66	28	23	21	19	26	128	620	477	102	45
10....	115	63	26	24	20	20	29	178	694	400	96	47
11....	115	62	24	25	19	21	31	190	743	400	93	90
12....	132	62	23	26	20	21	33	193	743	395	95	73
13....	223	65	24	27	21	20	40	148	680	375	90	62
14....	217	60	23	27	23	19	51	121	604	342	86	56
15....	208	62	22	27	22	19	63	119	510	342	82	52
16....	193	61	23	26	*21	20	65	119	632	342	78	47
17....	181	63	21	26	20	21	67	123	743	342	76	44
18....	170	59	23	26	20	21	58	123	771	322	74	43
19....	165	55	25	26	21	22	54	150	778	294	72	39
20....	162	51	24	*25	22	21	59	184	729	260	70	37
21....	175	38	21	25	23	19	74	263	668	238	66	34
22....	172	37	20	25	23	19	98	342	626	223	63	33
23....	165	35	22	25	22	*20	93	380	620	211	67	33
24....	158	40	22	25	21	20	80	466	614	205	84	33
25....	158	43	21	24	20	19	73	477	576	193	73	32
26....	142	43	20	25	19	19	69	538	554	172	70	31
27....	128	43	21	24	20	17	63	560	510	165	66	29
28....	142	41	22	25	20	17	59	504	411	172	63	29
29....	150	39	24	25	....	18	55	499	438	172	62	28
30....	128	38	25	24	....	19	45	450	477	158	60	27
31....	86	....	23	23	....	20	....	444	....	148	56	....
Total	4652	1750	789	755	601	609	1469	7176	18274	10286	2854	1373
Mean	150	58.3	25.5	24.4	21.5	19.6	49.0	231	609	332	92.1	45.8
Max.	223	85	38	27	24	22	98	560	778	532	160	90
Min.	86	35	20	21	19	17	20	44	411	148	56	27
Acres ft.	9230	3470	1560	1500	1190	1210	2910	14230	36250	20400	5660	2720

Total run-off for water year=100,300 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Animas River at Durango, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	986	307	222	187	211	280	540	1540	3250	3980	1150	442
2....	830	290	214	161	181	296	552	1660	3520	3860	1090	442
3....	728	286	218	125	177	296	518	1760	3980	3790	1040	432
4....	638	290	218	110	171	272	475	2210	3940	3790	959	412
5....	676	286	218	145	164	272	485	2240	4170	3660	968	398
6....	1200	282	225	135	161	264	480	2570	4070	3350	959	378
7....	878	274	214	180	211	256	445	3010	4250	3300	914	369
8....	743	274	204	174	236	250	455	3340	4440	3260	950	360
9....	663	270	204	174	228	250	507	3930	4000	3280	1040	373
10....	625	278	214	171	214	242	612	5010	3220	3200	1060	369
11....	571	270	228	177	236	246	630	5780	2850	3480	959	369
12....	521	254	228	204	232	250	576	6590	2680	3170	914	364
13....	482	246	222	200	228	256	540	8610	2720	3130	823	388
14....	452	231	197	211	225	272	502	9500	3040	2790	786	757
15....	442	250	142	204	232	276	485	7290	3320	2550	878	714
16....	427	266	119	194	246	276	480	7090	3640	2460	1060	676
17....	407	274	180	174	253	264	475	5840	4350	2520	1070	613
18....	383	286	204	187	260	288	475	6590	5370	2410	905	750
19....	364	307	194	194	268	320	445	6320	6480	2310	816	1480
20....	355	290	158	187	268	358	430	4130	6700	2220	736	1160
21....	346	262	151	197	276	372	445	3060	6750	2200	682	1050
22....	341	262	164	197	280	367	485	2880	6890	2090	650	1720
23....	341	266	161	184	268	380	480	2910	7180	2100	594	3150
24....	337	254	187	184	268	395	480	3540	7410	2030	554	1900
25....	328	235	174	204	284	372	529	4290	6220	2000	521	1530
26....	319	235	142	184	276	367	636	4480	6300	1780	494	1290
27....	360	239	151	174	276	358	800	4920	5770	1820	472	1100
28....	337	227	187	187	272	367	1010	4290	5400	1800	457	968
29....	337	235	187	218	....	390	1080	3500	4500	1510	447	1070
30....	324	235	190	225	....	390	1280	3330	4050	1320	427	1240
31....	319	....	197	218	....	425	....	3100	....	1210	427	....
Total	16060	7961	5914	5669	6605	9667	17332	135310	140470	82380	24802	26264
Mean.	518	265	191	182	236	312	578	4365	4682	2660	800	875
Max.	1200	307	228	225	284	425	1280	9500	7410	3980	1150	3150
Min.	319	227	119	110	161	242	430	1540	2680	1210	427	360
Ac.-ft.	31850	15790	11730	11240	13100	19170	34380	268400	278600	163400	49190	52090

Total run-off for water year=948,900 acre-feet.

Discharge of Animas River at Durango, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	1080	1340	532	337	274	239	467	1030	3640	2130	786	328
2....	995	1280	516	278	278	231	549	1030	3880	2080	838	315
3....	1520	1160	510	274	274	239	676	986	3750	2060	845	311
4....	2090	1100	504	274	270	250	764	1030	3450	2080	808	332
5....	1770	1080	477	246	274	266	905	1170	3590	1980	728	340
6....	1550	1070	467	303	274	274	977	1250	4040	2140	736	332
7....	1340	1040	467	350	278	270	869	1470	4310	2000	708	315
8....	1280	959	462	372	278	246	779	1710	4830	1980	656	303
9....	1210	941	452	332	270	262	823	1900	4500	1960	631	298
10....	1100	887	447	303	258	294	950	2390	4050	1680	600	290
11....	1080	853	442	298	246	303	1120	2670	4560	1570	600	427
12....	1080	823	427	311	242	294	1230	2740	5110	1590	631	594
13....	2340	808	427	298	258	290	1500	2240	4580	1550	613	532
14....	3620	779	412	298	270	290	1670	1820	4250	1430	549	467
15....	2710	757	402	286	254	278	1940	1680	3400	1420	521	418
16....	2260	743	398	282	235	274	1860	1620	3480	1520	482	378
17....	1980	750	398	290	239	266	1900	1680	4090	1460	467	350
18....	1730	757	388	286	212	262	1730	1680	4370	1520	447	332
19....	1620	721	383	274	282	278	1410	1790	4630	1410	447	315
20....	1650	676	383	282	286	278	1310	2070	4350	1260	447	303
21....	2410	625	378	274	274	270	1420	2560	3980	1130	427	286
22....	3070	631	383	278	274	270	1920	3170	3730	1040	432	282
23....	2380	600	360	290	262	290	2560	3170	3500	968	393	278
24....	2090	577	264	286	246	328	2130	3710	3330	941	407	274
25....	2510	588	341	274	258	324	1740	4050	2980	896	467	266
26....	2440	594	324	286	242	307	1530	4330	2710	845	457	266
27....	2120	588	337	278	246	294	1370	4920	2540	786	412	258
28....	1970	582	332	286	262	294	1260	4580	2100	786	407	246
29....	1830	566	355	290	....	303	1170	4210	2030	808	369	250
30....	1580	538	355	278	....	328	1060	3830	2140	801	355	242
31....	1450	....	350	274	....	383	....	3540	....	72	337	....
Total	57855	24413	12773	9069	7316	8775	39589	76026	111900	44593	17003	9928
Mean.	1866	814	412	292	261	283	1320	2452	3730	1438	548	331
Max.	3620	1340	532	373	286	383	2560	4920	5110	2140	845	594
Min.	995	538	324	246	212	231	467	986	2030	72	337	242
Ac.-ft.	114800	48420	25330	17990	14510	17400	78520	150800	222000	88450	33720	19690

Total run-off for water year=831,600 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mineral Creek Near Silverton, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	143	31	25	20	18	17	28	61	297	612	258	68
2.....	127	32	24	17	18	16	26	56	356	600	246	63
3.....	109	32	22	16	18	14	25	70	369	606	230	59
4.....	93	32	21	16	19	14	25	79	356	565	230	54
5.....	146	30	21	17	16	18	26	83	387	530	254	50
6.....	136	31	18	18	16	16	25	118	387	515	246	46
7.....	118	32	22	18	17	16	23	153	382	540	242	46
8.....	104	32	22	18	16	14	23	211	310	575	250	48
9.....	96	33	22	18	16	14	26	278	262	575	262	44
10.....	83	32	23	18	16	15	29	335	234	575	238	39
11.....	76	31	24	19	16	18	28	380	222	565	215	38
12.....	70	29	21	20	16	16	26	465	226	540	196	39
13.....	68	29	19	19	16	18	28	600	246	525	178	116
14.....	65	30	18	19	16	18	26	545	274	475	178	118
15.....	61	31	17	18	16	17	27	432	306	446	215	99
16.....	58	30	19	17	16	16	27	410	374	470	242	84
17.....	56	30	20	18	16	16	26	460	450	505	246	82
18.....	51	30	21	18	16	18	24	490	575	465	185	279
19.....	50	30	21	18	16	19	22	387	654	450	163	258
20.....	48	28	21	17	16	21	21	279	738	446	146	234
21.....	45	28	22	17	16	20	22	258	738	432	130	181
22.....	44	27	21	17	15	21	23	250	780	450	113	315
23.....	42	27	20	17	15	21	24	238	870	455	104	274
24.....	41	26	21	17	16	14	25	238	846	428	94	219
25.....	39	26	22	17	16	19	26	324	804	400	86	185
26.....	42	21	20	17	16	20	27	396	726	369	84	167
27.....	39	20	19	18	12	22	31	378	672	418	79	150
28.....	41	26	20	18	14	23	34	302	672	351	72	137
29.....	37	25	21	20	.....	23	47	274	606	306	77	150
30.....	38	25	21	20	.....	23	61	270	600	288	84	130
31.....	34	.....	21	19	.....	25	.....	270	.....	270	72	.....
Total	2200	866	653	556	450	564	831	9090	14719	14747	5415	3772
Mean.	71.0	28.9	21.1	17.9	16.1	18.2	27.7	293	491	476	175	126
Max.	146	33	25	20	19	25	61	600	870	612	262	315
Min.	34	20	17	16	12	14	21	56	222	270	72	38
Acre-ft.	4360	1720	1300	1100	893	1120	1650	18030	29190	29250	10740	7480

Total run-off for water year=106,800 acre-feet.

Discharge of Mineral Creek Near Silverton, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	118	77	36	24	25	24	19	40	400	475	192	46
2.....	124	72	34	23	26	22	19	39	450	485	211	46
3.....	163	68	35	22	26	22	20	38	436	480	178	48
4.....	156	67	32	23	26	23	21	48	400	460	153	50
5.....	137	65	34	22	25	22	22	65	450	465	134	48
6.....	127	65	30	21	26	24	22	79	540	500	121	48
7.....	113	59	31	23	26	23	23	110	600	490	104	47
8.....	116	56	27	25	25	21	24	140	666	500	94	46
9.....	113	59	29	24	24	22	25	160	606	450	91	43
10.....	113	59	28	24	23	23	25	215	624	382	84	50
11.....	118	59	25	25	22	22	27	230	744	396	104	174
12.....	150	58	24	26	24	23	29	215	762	405	124	118
13.....	286	58	26	27	25	23	33	153	702	396	104	91
14.....	250	54	26	28	27	22	43	121	642	392	91	72
15.....	207	54	29	28	25	21	52	118	545	369	77	63
16.....	188	54	25	26	*25	19	60	113	630	364	70	59
17.....	170	56	22	27	24	19	60	140	714	378	65	53
18.....	153	56	25	27	23	20	54	143	756	351	59	50
19.....	146	53	25	26	24	21	50	170	750	315	58	47
20.....	143	45	25	*25	25	20	54	207	696	279	54	44
21.....	153	36	23	25	25	18	66	279	678	250	53	43
22.....	146	40	20	26	26	17	80	342	666	234	50	41
23.....	140	34	21	26	26	18	76	338	654	222	53	40
24.....	134	40	22	25	26	19	68	432	612	222	67	39
25.....	134	42	21	25	25	18	63	460	580	211	61	38
26.....	116	44	19	26	23	17	58	470	550	192	59	37
27.....	104	40	21	25	24	14	51	540	490	178	54	36
28.....	99	39	23	26	24	11	47	465	414	192	51	35
29.....	91	37	26	27	.....	12	44	446	446	196	51	34
30.....	82	37	26	26	.....	13	40	405	470	170	47	34
31.....	79	.....	25	26	.....	13	.....	387	.....	178	47	.....
Total	4371	1583	808	779	695	606	1275	7108	17673	10577	2761	1620
Mean.	141	52.8	26.1	25.1	24.8	19.5	42.5	229	589	341	89.1	54.0
Max.	288	77	36	28	27	24	80	540	762	500	211	174
Min.	79	34	19	21	22	11	19	38	400	170	47	34
Acre-ft.	8670	3140	1600	1550	1380	1200	2530	14100	35050	20980	5480	3210

Total run-off for water year=98,890 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Hermosa Creek at Hermosa Park, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	14						70	356	232	27	18
2	24	14						78	410	214	26	17
3	20	13						82	420	194	25	16
4	19	12						99	420	173	24	16
5	49	12						130	445	158	23	16
6	42	12						207	430	140	25	16
7	30	12						284	515	132	24	15
8	26	12						383	488	120	24	15
9	25	12						466	370	110	29	14
10	23	12						526	306	108	28	14
11	20	12						554	293	101	26	14
12	19	11						702	284	91	23	14
13	18	10						904	302	84	22	29
14	18	10						864	342	81	24	32
15	16	15						682	365	72	26	26
16	16	19						612	420	67	29	22
17	15	19						695	504	62	30	19
18	14	20						754	588	58	25	48
19	14	20						564	612	55	24	33
20	13	18						324	588	52	22	26
21	14	17						247	564	48	22	23
22	13	17						251	554	43	21	174
23	13	17						275	526	42	20	110
24	13	16						388	455	55	20	76
25	13	16						460	396	57	19	64
26	15	15						526	356	45	19	54
27	18	13						504	338	54	18	47
28	15	13						388	302	42	20	44
29	14	15						365	255	34	20	59
30	14	17						352	239	31	22	56
31	13							324		30	19	
Total	606	435						13070	12442	2785	726	1127
Mean	19.5	14.5						422	415	89.8	23.4	37.6
Max.	49	20						904	612	232	30	174
Min.	13	10						70	239	30	18	14
Acre-ft.	1200	863						25920	24680	5520	1440	2240

Total run-off for period = 61,860 acre-feet.

Discharge of Hermosa Creek at Hermosa Park, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	48	109	38						342	50	16	9.0
2	53	104	38						342	48	16	8.7
3	107	98	36						314	47	16	9.0
4	101	96	35						294	44	14	9.4
5	90	94							302	42	14	9.8
6	84	93							298	44	14	10
7	76	86							302	44	15	9.4
8	75	82							298	37	14	9.0
9	72	79						May 11	258	35	13	9.0
10	71	75						to 31	246	34	14	9.4
11	70	71						266	262	29	14	22
12	87	70						223	246	26	15	14
13	223	70						155	220	25	14	12
14	230	67						128	186	26	13	10
15	189	66						124	160	25	12	9.8
16	168	66						124	162	28	12	9.4
17	148	67						136	171	28	12	9.4
18	134	63						140	165	25	11	9.0
19	136	59						165	148	22	11	8.7
20	142	54						220	130	21	11	8.7
21	282	56						290	114	20	11	8.4
22	254	53						314	101	20	11	8.4
23	206	55						346	94	18	11	8.4
24	186	53						435	86	18	13	8.1
25	209	50						480	77	18	12	8.1
26	180	47						570	71	18	11	8.1
27	158	46						570	66	18	10	7.8
28	150	42						465	60	17	10	7.8
29	136	41						430	55	16	10	7.8
30	120	40						382	53	16	9.8	7.8
31	112							350		16	9.4	
Total	4297	2052						6313	5623	875	389.2	286.4
Mean	139	68.4						301	187	28.2	12.6	9.55
Max.	282	109						570	342	50	16	22
Min.	48	40						124	53	16	9.4	7.8
Acre-ft.	8520	4070						12520	11150	1740	772	568

Total run-off for period = 39,340 acre-feet.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Hermosa Creek Near Hermosa, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	73	25	*25	22	17	32	231	534	1110	586	85	54
2.....	58	27	25	20	18	36	186	592	1160	579	81	52
3.....	50	28	24	13	19	33	162	624	1150	553	78	50
4.....	44	28	23	12	20	30	150	943	1140	520	78	49
5.....	82	21	20	13	22	36	170	930	1240	508	81	48
6.....	109	27	*19	13	25	31	154	1290	1200	456	88	47
7.....	73	24	*19	13	28	31	138	1370	1350	442	85	47
8.....	61	26	19	14	27	33	162	1600	1390	449	81	47
9.....	56	25	20	*14	25	40	237	1810	1290	416	85	47
10.....	53	26	20	17	27	39	321	1810	1090	378	84	46
11.....	48	23	20	20	25	44	261	2060	1030	371	79	44
12.....	44	22	19	22	26	41	208	2330	995	345	74	44
13.....	41	18	18	24	25	46	166	2460	982	309	69	62
14.....	38	19	17	22	26	46	146	2400	1030	291	66	95
15.....	36	29	16	21	30	44	138	2080	1050	249	78	74
16.....	34	32	16	19	29	40	146	1880	1070	231	77	63
17.....	33	32	18	17	28	48	138	1830	1130	202	86	57
18.....	32	31	19	16	29	60	127	1860	1200	189	73	124
19.....	30	31	18	18	30	80	115	1560	1220	171	65	108
20.....	29	26	19	18	27	103	100	1050	1130	162	62	76
21.....	28	24	18	19	29	94	112	852	1050	146	61	78
22.....	28	25	18	20	27	88	106	839	1000	135	60	898
23.....	28	24	18	17	28	84	98	943	995	128	57	633
24.....	28	23	19	18	29	82	106	1290	995	146	57	352
25.....	27	21	18	18	30	74	130	1420	924	137	56	220
26.....	29	20	17	17	26	70	198	1410	839	118	55	165
27.....	44	19	19	*17	26	74	333	1530	794	143	54	137
28.....	35	19	22	20	31	84	416	1370	754	116	54	122
29.....	29	22	23	22	....	88	442	1280	664	103	55	165
30.....	32	23	24	20	....	94	514	1220	612	95	61	171
31.....	27	....	25	19	....	138	....	1100	....	91	56	....
Total	1359	740	615	555	729	1863	5911	44267	31584	8765	2181	4235
Mean.	43.8	24.7	19.8	17.9	26.0	60.1	197	1428	1053	283	70.4	141
Max.	109	32	25	24	31	138	514	2460	1390	586	88	898
Min.	27	18	16	12	17	30	98	534	612	91	54	44
Ac.-ft.	2700	1470	1220	1100	1450	3700	11720	87800	62650	17390	4330	8400

Total run-off for water year—203,900 acre-feet.

Discharge of Hermosa Creek Near Hermosa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	143	425	114	65	51	42	194	405	766	114	52	28
2.....	146	400	110	62	49	41	250	405	766	112	60	28
3.....	464	365	108	58	49	42	340	390	746	106	60	28
4.....	554	355	110	61	47	45	260	430	686	105	68	30
5.....	440	350	103	56	49	44	380	506	704	98	45	30
6.....	390	340	100	53	48	47	355	536	710	98	43	30
7.....	325	320	98	54	49	45	282	620	704	98	45	30
8.....	290	295	98	61	46	43	258	686	704	94	45	29
9.....	262	282	95	60	43	48	310	766	584	91	41	28
10.....	236	266	94	57	41	52	380	894	524	91	42	29
11.....	218	258	92	58	46	55	452	968	572	81	43	56
12.....	232	243	89	60	45	54	524	919	548	75	45	44
13.....	680	236	88	59	46	54	644	779	488	70	43	36
14.....	870	222	84	60	45	50	753	650	440	72	41	32
15.....	656	212	81	56	45	48	779	614	390	92	39	30
16.....	566	204	81	57	45	46	753	602	395	112	37	29
17.....	482	222	82	60	*43	47	772	614	400	102	37	28
18.....	420	204	77	59	39	46	680	620	405	86	38	28
19.....	405	177	75	57	42	54	542	650	380	74	36	28
20.....	420	148	74	52	45	50	524	753	340	66	35	28
21.....	1080	139	73	52	45	51	596	884	300	62	35	28
22.....	1120	146	75	54	44	58	838	926	270	58	34	27
23.....	818	132	62	58	45	70	1020	940	243	56	33	26
24.....	734	141	70	56	45	79	812	1050	222	53	37	26
25.....	838	132	70	56	45	77	698	1070	194	51	37	26
26.....	805	132	67	56	41	74	620	1060	174	50	34	26
27.....	734	128	68	51	43	77	560	1060	159	54	32	26
28.....	674	126	68	53	44	86	506	912	139	50	31	26
29.....	584	120	72	53	....	101	470	831	128	48	31	26
30.....	506	118	71	51	....	108	425	805	122	46	30	25
31.....	458	....	68	55	....	141	....	772	....	46	29	....
Total	16550	6838	2617	1760	1265	1875	16077	23114	13203	2411	1258	891
Mean.	534	228	84.4	56.8	45.2	60.5	536	746	440	77.8	40.6	29.7
Max.	1120	425	114	65	51	41	1020	1070	766	114	68	56
Min.	143	118	62	51	39	41	194	390	122	46	29	25
Ac.-ft.	32830	13560	5190	3490	2510	3720	31890	45850	26190	4780	2500	1770

Total run-off for water year—174,300 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lightner Creek Near Durango, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	3.5	3.8	2.5	.....	4.0	15	175	190	127	48	7.0	4.5
2.....	4.3	4.0	2.4	.....	4.0	18	128	335	132	45	7.3	4.8
3.....	3.8	3.8	2.4	.....	4.0	14	127	296	132	42	6.2	5.1
4.....	3.5	3.2	2.4	.....	4.0	16	120	764	127	42	5.9	5.1
5.....	1.8	3.5	2.4	.....	4.0	17	122	459	130	45	5.9	5.1
6.....	2.6	3.2	2.4	.....	4.0	14	107	411	119	40	5.6	5.1
7.....	1.4	3.0	3.0	.....	4.0	14	107	411	147	33	5.6	4.8
8.....	1.1	3.2	2.5	.....	4.0	14	131	431	174	34	5.9	4.8
9.....	9.1	3.5	2.2	.....	4.0	15	164	448	162	31	5.6	4.8
10.....	7.2	3.2	2.5	.....	4.0	14	181	451	142	28	5.1	5.1
11.....	6.1	3.0	2.7	.....	*4.6	14	143	411	136	30	5.3	5.1
12.....	6.1	3.0	2.2	.....	4.6	16	138	473	121	27	5.6	5.1
13.....	5.3	4.3	2.4	.....	4.6	17	140	518	*150	23	4.8	8.0
14.....	5.1	5.1	2.4	.....	4.6	17	135	424	175	20	4.5	9.2
15.....	5.1	4.0	2.4	.....	4.6	20	143	322	160	20	4.8	9.2
16.....	5.1	3.3	2.4	.....	4.6	26	142	265	145	18	4.8	8.8
17.....	5.1	2.1	2.4	.....	6.1	40	122	281	120	20	5.1	9.2
18.....	4.8	2.5	2.4	.....	6.9	56	106	308	124	18	5.3	9.2
19.....	4.8	3.5	2.4	.....	9.1	71	99	255	122	16	5.3	9.2
20.....	4.5	3.3	2.1	.....	8.8	66	85	167	117	15	5.1	11
21.....	4.3	2.9	2.4	.....	9.5	64	125	125	108	14	5.9	12
22.....	4.3	3.0	2.1	.....	12	82	164	127	108	14	6.2	29.5
23.....	4.3	3.3	2.4	.....	12	87	183	155	106	14	5.1	97
24.....	4.0	3.0	2.1	.....	14	81	179	198	106	13	4.1	45
25.....	3.8	2.7	2.4	.....	14	71	225	247	87	14	3.5	28
26.....	4.8	3.2	2.4	.....	13	55	523	205	82	13	3.3	22
27.....	5.3	3.2	2.4	.....	12	69	374	203	78	15	3.7	20
28.....	4.0	2.5	2.4	.....	12	85	267	167	74	13	3.7	19
29.....	4.3	2.5	2.4	.....	.....	90	234	140	60	12	4.1	47
30.....	4.3	2.9	2.4	.....	.....	106	190	140	48	9.9	4.8	45
31.....	3.8	.....	2.4	.....	.....	130	.....	127	.....	8.0	4.8	.....
Total	199.6	98.3	75.2	93.0	197.0	1114	5080	9437	3619	734.9	159.9	763.2
Mean.	6.44	3.28	2.43	3.00	7.04	45.6	169	304	121	23.7	5.16	25.4
Max.	26	5.1	.....	.....	14	130	523	764	175	48	7.3	29.5
Min.	3.5	2.5	.....	.....	.....	14	85	125	48	8.0	3.3	4.5
Acre-ft.	396	195	149	184	391	2800	10080	18720	7180	1460	317	1510

Total run-off for water year==43,380 acre-feet.

Discharge of Lightner Creek Near Durango, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	36	78	14	.....	.....	12	173	93	46	12	3.6	2.2
2.....	29	66	14	.....	.....	12	262	96	45	13	3.6	2.6
3.....	184	56	15	.....	*9.0	12	293	89	45	12	8.1	2.4
4.....	95	53	15	.....	.....	12	330	83	41	13	7.4	3.2
5.....	52	52	13	.....	.....	*13	714	89	41	12	5.4	3.2
6.....	40	52	15	.....	.....	12	313	96	41	10	6.5	3.0
7.....	33	47	14	.....	.....	12	355	104	41	10	7.1	3.0
8.....	33	44	13	*8.7	.....	12	303	112	41	11	4.3	2.8
9.....	30	40	14	.....	.....	12	296	124	37	11	4.6	2.8
10.....	29	36	15	.....	.....	17	300	138	34	9.7	4.6	2.8
11.....	28	34	15	.....	.....	18	367	126	31	9.0	6.0	3.8
12.....	31	34	14	.....	.....	17	395	119	33	8.7	5.1	3.6
13.....	382	31	15	.....	.....	18	348	98	32	7.8	4.8	3.2
14.....	223	27	14	.....	.....	15	348	80	29	7.4	4.6	2.8
15.....	98	26	13	.....	.....	13	320	75	27	8.1	4.0	2.8
16.....	74	26	13	.....	.....	12	271	72	27	7.8	4.0	2.8
17.....	69	25	14	.....	.....	17	259	69	27	6.8	3.4	2.6
18.....	53	26	13	.....	.....	22	247	68	27	6.2	3.6	2.6
19.....	43	23	13	.....	.....	23	204	69	27	5.4	4.0	2.6
20.....	55	20	13	.....	.....	22	168	73	25	4.6	4.0	2.6
21.....	370	18	11	.....	.....	23	166	75	23	4.6	3.8	2.4
22.....	150	18	11	.....	.....	25	277	78	22	4.6	4.0	2.6
23.....	108	16	11	.....	.....	37	391	80	20	4.3	3.8	2.6
24.....	105	15	11	.....	.....	43	309	77	19	4.0	3.8	2.4
25.....	704	15	11	.....	.....	37	214	71	18	4.0	4.0	2.2
26.....	211	16	11	.....	*12	32	173	71	17	4.0	5.1	2.0
27.....	146	15	11	.....	.....	34	144	70	16	3.6	5.1	2.0
28.....	155	15	11	.....	.....	40	126	62	15	3.6	4.8	1.8
29.....	130	15	11	.....	.....	50	119	55	13	3.6	4.3	1.8
30.....	103	14	11	.....	.....	64	104	55	13	3.6	3.6	1.9
31.....	85	.....	11	.....	.....	103	.....	50	.....	3.6	2.4	.....
Total	3875	953	406	279	294	791	8289	2617	876	229.0	143.4	79.1
Mean.	125	31.8	12.9	9.0	10.5	25.5	276	84.4	29.2	7.39	4.63	2.64
Max.	704	78	11	.....	.....	103	714	138	46	13	8.1	3.8
Min.	28	14	.....	.....	.....	12	104	50	13	3.6	2.4	1.8
Acre-ft.	7690	1890	793	553	583	1570	16440	5190	1740	454	284	157

Total run-off for water year==37,340 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Florida River Near Durango, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	189	29	25	.....	.....	19	100	262	530	768	104	35
2.....	161	32	27	.....	.....	21	86	347	525	750	96	34
3.....	135	31	26	*8.5	.....	19	77	335	551	738	87	32
4.....	115	29	25	.....	.....	21	77	525	561	682	79	28
5.....	189	23	23	.....	.....	21	82	448	594	774	85	26
6.....	247	28	23	.....	.....	18	79	490	594	654	96	28
7.....	186	25	25	.....	.....	18	73	530	665	583	92	26
8.....	161	25	25	.....	.....	20	82	572	605	583	83	24
9.....	142	25	25	.....	.....	22	96	643	490	540	124	25
10.....	117	26	22	.....	.....	20	113	744	424	520	161	25
11.....	104	22	22	.....	.....	19	104	834	374	520	131	25
12.....	94	26	21	.....	.....	21	100	942	370	561	102	27
13.....	82	25	.....	.....	.....	23	92	1140	415	495	81	37
14.....	73	29	.....	.....	.....	24	86	1160	525	419	81	87
15.....	70	34	.....	.....	.....	25	88	1000	638	365	122	69
16.....	65	31	.....	.....	.....	23	90	876	732	352	163	68
17.....	59	25	.....	.....	.....	26	88	930	894	356	166	60
18.....	53	21	*19	.....	.....	31	82	1000	1040	340	127	168
19.....	52	27	.....	.....	.....	40	79	888	1130	320	104	202
20.....	48	26	.....	.....	.....	46	73	605	1050	300	90	200
21.....	45	22	.....	.....	.....	47	79	471	1080	284	79	153
22.....	42	24	.....	.....	.....	53	82	438	1130	246	71	525
23.....	40	24	.....	.....	.....	59	82	424	1150	265	63	572
24.....	39	22	.....	.....	.....	59	92	514	1210	255	57	307
25.....	37	25	.....	.....	.....	47	117	594	1070	262	52	238
26.....	37	25	.....	.....	.....	45	151	594	1050	212	45	205
27.....	42	24	.....	*9.8	.....	46	217	648	942	227	44	176
28.....	39	26	.....	.....	.....	52	244	561	888	194	38	155
29.....	35	29	.....	.....	.....	59	229	525	840	163	37	205
30.....	38	29	.....	.....	.....	59	232	546	810	138	45	205
31.....	29	.....	.....	.....	.....	75	.....	504	.....	120	39	.....
Total	2765	792	527	279	448	1078	3272	20090	22877	12987	2744	3967
Mean.	89.2	26.4	17.0	9.0	16.0	34.8	109	648	763	419	88.5	132
Max.	247	34	.....	.....	.....	75	244	1160	1210	774	166	572
Min.	29	21	.....	.....	.....	18	73	262	370	120	37	24
Ac.-ft.	5480	1570	1050	553	889	2140	6490	39850	45380	25760	5440	7870

Total run-off for water year=142,500 acre-feet.

Discharge of Florida River Near Durango, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	168	181	55	.....	.....	14	73	179	692	184	29	16
2.....	150	166	55	.....	.....	14	102	172	714	171	27	13
3.....	281	153	56	.....	.....	14	127	166	670	166	36	10
4.....	303	148	53	.....	*14	14	148	166	572	153	32	15
5.....	241	145	50	.....	.....	14	205	181	670	140	30	19
6.....	205	134	55	.....	.....	15	171	194	720	140	30	18
7.....	181	124	56	.....	.....	16	153	219	738	127	31	16
8.....	168	120	57	.....	.....	18	155	235	750	122	31	15
9.....	161	118	55	*33	.....	19	174	258	648	115	26	15
10.....	158	111	47	.....	.....	20	192	335	638	109	23	14
11.....	166	107	43	.....	.....	21	241	374	792	100	22	37
12.....	171	104	41	.....	.....	22	274	392	798	94	28	60
13.....	438	104	44	.....	.....	24	274	303	692	85	22	65
14.....	443	98	41	.....	.....	25	299	246	632	79	20	43
15.....	307	100	38	.....	.....	26	318	230	530	79	20	39
16.....	252	96	52	.....	.....	27	292	221	583	83	19	32
17.....	230	98	52	.....	.....	28	288	230	665	102	18	28
18.....	213	94	50	.....	.....	30	258	219	654	102	20	23
19.....	200	92	50	.....	.....	32	224	235	621	85	23	21
20.....	205	81	50	.....	.....	32	210	295	551	69	22	19
21.....	271	73	39	.....	.....	32	221	406	485	60	23	17
22.....	262	79	35	.....	.....	31	295	509	415	56	23	16
23.....	238	69	35	.....	.....	28	352	514	370	49	23	15
24.....	252	69	35	.....	.....	32	311	616	339	44	24	13
25.....	466	76	35	.....	.....	32	268	648	288	41	29	12
26.....	348	69	34	.....	.....	32	244	798	258	35	27	11
27.....	265	62	34	.....	.....	32	216	870	230	34	24	9.8
28.....	258	60	34	.....	.....	37	208	756	187	34	22	9.2
29.....	208	62	34	.....	.....	34	200	704	194	33	21	8.6
30.....	202	57	34	.....	.....	35	187	676	192	31	19	8.6
31.....	192	.....	34	.....	.....	49	.....	654	.....	30	17	.....
Total	7603	3050	1383	744	392	799	6680	12001	16288	2752	761	638.2
Mean.	245	102	44.6	24	14	25.8	223	387	543	88.8	24.5	21.3
Max.	466	181	57	.....	.....	49	352	870	798	184	36	65
Min.	150	57	34	.....	.....	14	73	166	187	30	17	8.6
Ac.-ft.	15080	6050	2740	1480	778	1580	13250	23800	32310	5460	1510	1270

Total run-off for water year=105,300 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Plata River at Hesperus, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	8.8	6.2	7.8	6.3	7.9	23	152	275	241	33	16
2	50	8.8	6.2	7.3	5.1	8.8	23	210	322	230	31	15
3	47	8.8	6.2	6.3	4.6	8.4	23	239	361	218	28	14
4	47	8.8	*6.2	6.8	4.2	8.4	24	507	387	214	27	14
5	109	8.4	6.2	7.4	4.2	7.9	26	470	380	198	32	14
6	124	7.5	6.3	7.6	4.3	7.9	27	418	329	156	35	14
7	79	7.0	6.3	7.4	4.5	7.9	29	336	387	160	28	13
8	59	7.0	6.2	7.2	4.5	8.8	33	347	322	198	31	13
9	50	7.0	6.8	6.8	4.8	8.8	39	399	257	179	32	12
10	44	7.9	7.8	7.0	5.0	8.8	45	406	221	175	33	10
11	39	7.0	8.6	7.2	*5.1	9.2	49	461	209	163	30	9.7
12	35	7.0	9.4	7.5	7.3	8.8	50	587	209	156	27	12
13	31	6.0	9.0	7.8	*7.9	8.8	49	716	237	138	26	14
14	28	6.3	8.0	*8.2	7.2	8.8	46	641	296	118	26	14
15	25	6.3	8.2	8.1	6.9	9.7	46	498	368	86	30	17
16	22	6.3	*12	6.8	7.1	9.7	45	484	418	76	28	16
17	23	6.3	13	6.0	7.5	10	44	512	522	79	27	16
18	19	6.3	11	6.3	8.0	10	43	512	641	88	25	49
19	17	6.3	11	6.6	8.4	11	40	380	587	76	23	42
20	16	7.0	10	7.0	8.7	12	38	241	507	79	21	31
21	14	6.3	9.8	7.0	9.3	12	37	188	503	76	20	26
22	14	6.3	8.4	7.0	10	14	37	179	493	65	20	774
23	13	6.3	7.5	6.8	10	13	35	209	406	70	19	295
24	12	6.3	7.8	6.7	9.4	13	36	268	464	61	19	152
25	12	6.3	7.9	6.5	9.0	14	39	343	365	63	19	108
26	12	6.3	7.5	6.3	8.7	14	48	380	385	52	18	85
27	11	6.3	*7.3	6.3	8.1	15	61	489	330	61	17	68
28	14	6.3	7.6	6.4	7.2	17	79	380	300	49	17	60
29	12	6.3	7.8	6.8	.....	18	97	365	267	41	18	99
30	11	6.3	7.8	6.8	.....	19	126	293	248	39	17	103
31	10	.....	7.9	6.8	.....	21	.....	282	.....	34	16	.....
Total	1056	207.8	251.9	216.5	193.6	351.6	1337	11895	10996	3642	773	2125.7
Mean	34.1	6.93	8.13	6.98	6.91	11.3	44.6	384	367	117	24.9	70.9
Max.	124	8.8	13	8.2	10	21	126	716	641	244	35	774
Min.	10	6.3	6.2	6.0	4.2	7.9	23	152	209	34	16	9.7
Acre-ft.	2090	412	500	429	384	697	2650	23590	21810	7220	1530	4220

Total run-off for water year=65,530 acre-feet.

Discharge of La Plata River at Hesperus, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	85	76	28	12	12	13	35	74	234	22	18	7.6
2	79	76	28	12	12	13	45	76	242	40	18	7.6
3	158	73	27	12	*12	16	50	68	211	63	18	8.0
4	163	66	26	12	12	19	56	68	190	58	18	8.8
5	132	68	25	12	13	22	68	77	208	57	18	8.4
6	113	74	24	12	13	21	65	90	228	60	21	8.4
7	95	74	24	12	14	21	63	115	238	57	20	8.4
8	90	68	23	*12	13	21	69	136	217	57	18	7.6
9	99	66	23	12	13	25	87	166	176	57	18	7.2
10	107	63	22	12	12	28	111	211	165	54	18	7.2
11	119	63	22	14	12	26	132	220	182	50	17	8.8
12	134	63	22	18	12	26	141	211	179	46	14	7.6
13	380	63	21	20	12	24	150	150	152	36	12	8.0
14	355	59	21	24	12	20	177	121	130	31	12	7.6
15	233	56	20	23	11	16	214	115	108	25	12	8.0
16	201	59	*19	19	11	13	208	113	119	18	13	8.0
17	174	63	19	16	9.8	11	189	136	121	19	13	8.4
18	155	62	19	13	8.8	*11	153	143	124	22	12	9.2
19	138	55	19	11	8.5	12	119	155	112	21	12	11
20	128	49	19	10	13	12	109	198	108	18	11	11
21	189	42	18	11	15	13	121	264	96	18	11	11
22	166	38	17	12	15	14	183	316	83	18	11	11
23	138	34	16	12	13	16	198	297	74	20	11	10
24	128	33	15	12	13	22	155	347	66	23	11	9.6
25	183	33	12	12	*13	23	132	304	50	22	9.6	9.2
26	141	32	12	11	*13	24	119	347	42	22	9.2	9.6
27	121	32	12	11	13	*25	99	376	37	21	8.8	8.8
28	121	31	13	11	13	20	90	316	27	20	8.8	8.4
29	105	30	13	11	.....	16	82	278	24	19	9.2	8.0
30	90	28	13	11	.....	*13	79	228	23	19	8.8	8.0
31	82	.....	14	11	.....	18	.....	217	.....	18	8.0	.....
Total	4602	1629	606	413	344.1	574	3499	5933	3966	1031	419.4	260.4
Mean	148	54.3	19.5	13.3	12.3	18.5	117	191	132	33.3	13.5	8.68
Max.	380	76	28	24	14	28	214	376	242	63	21	11
Min.	79	28	12	10	8.5	11	35	68	23	18	8.0	7.2
Acre-ft.	9130	3230	1200	810	683	1140	6940	11770	7870	2040	832	516

Total run-off for water year=46,170 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second

Discharge of La Plata River at Colorado-New Mexico State Line for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	15	2.2	6.4	4.6	15	18	120	434	154	115	4.9	5.7
2....	8.3	1.1	6.0	4.0	12	21	78	508	172	89	3.8	5.7
3....	6.4	0.9	6.0	2.2	11	22	83	544	192	70	3.2	5.7
4....	6.4	1.1	5.7	4.0	11	21	78	1120	196	52	3.5	5.7
5....	7.9	1.8	6.0	5.4	11	22	83	802	222	49	3.5	5.2
6....	61	2.6	7.1	5.2	12	21	84	630	178	40	3.8	4.3
7....	46	2.2	6.8	4.0	15	21	92	640	217	30	10	4.3
8....	25	1.6	6.0	4.6	14	15	110	636	281	83	10	4.3
9....	8.7	1.0	6.4	4.9	14	18	131	705	244	86	16	4.0
10....	6.4	1.1	7.1	6.0	14	16	154	802	239	63	44	3.8
11....	6.0	0.8	9.4	11	15	15	152	712	174	75	25	3.5
12....	6.0	0.6	9.8	11	18	15	148	827	176	66	16	2.4
13....	4.6	1.4	9.4	11	13	17	138	978	202	80	14	9.0
14....	2.2	3.5	7.1	11	12	24	122	957	233	70	14	2.3
15....	2.0	7.5	3.5	12	13	26	106	719	279	59	32	2.0
16....	3.2	5.7	10	9.0	14	22	111	598	295	51	28	1.2
17....	4.0	5.2	10	9.4	15	22	103	577	348	61	20	1.0
18....	3.2	6.0	14	15	16	25	101	565	414	52	18	1.3
19....	1.8	10	12	15	18	27	93	502	460	46	16	2.0
20....	1.2	8.3	11	14	19	36	89	286	437	25	14	5.0
21....	2.2	7.9	7.1	13	27	39	104	158	431	15	14	3.3
22....	2.0	6.8	3.8	14	23	40	146	131	417	10	14	4.74
23....	0.8	6.4	3.8	13	25	43	154	148	389	8.7	13	5.85
24....	1.4	5.7	5.4	12	23	63	146	192	423	19	10	2.04
25....	1.4	5.7	5.4	15	24	54	158	239	335	42	9.8	1.28
26....	1.0	6.8	3.0	11	21	49	255	242	324	12	9.0	9.2
27....	1.8	7.5	3.8	13	18	49	353	266	270	16	8.7	7.6
28....	1.8	7.5	4.9	14	17	63	379	231	248	10	8.3	7.5
29....	2.6	7.5	3.8	18	....	74	392	184	180	9.8	8.3	1.78
30....	3.0	7.1	4.0	18	....	78	448	188	140	9.4	7.5	1.42
31....	1.2	....	4.6	18	....	96	....	162	....	6.4	6.0	....
Total	244.5	133.5	209.3	322.3	460	1072	4711	15683	8270	1420.3	408.3	2198.6
Mean..	7.89	4.45	6.75	10.4	16.4	34.6	157	506	276	45.8	13.2	73.3
Max...	61	10	14	18	27	96	448	1120	460	115	44	5.85
Min...	0.8	0.6	3.0	2.2	11	15	78	131	140	6.4	3.2	2.4
Ac.-ft.	485	265	415	639	912	2130	9340	31110	16400	2820	810	4360

Total run-off for water year=69,690 acre-feet.

Discharge of La Plata River at Colorado-New Mexico State Line for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	100	150	46	36	32	24	146	211	66	2.8	19	3.8
2....	90	142	45	21	33	23	188	198	83	6.4	20	3.8
3....	257	133	45	20	34	26	237	198	62	4.2	15	3.8
4....	314	124	45	19	32	40	255	178	75	6.7	6.0	4.3
5....	215	126	36	18	36	54	361	174	126	6.8	3.8	5.7
6....	158	128	34	22	34	48	398	176	117	6.6	4.0	5.7
7....	131	124	36	28	37	49	319	196	95	6.2	6.4	7.9
8....	131	115	36	*36	36	34	322	213	76	6.3	4.9	7.1
9....	128	113	36	35	32	58	302	226	54	6.3	1.6	5.4
10....	128	108	41	36	31	83	327	259	76	6.1	1.2	4.9
11....	131	104	40	38	30	72	345	281	95	5.9	0.6	7.9
12....	166	104	36	56	30	73	379	279	56	6.7	0.5	4.9
13....	711	111	39	76	33	86	406	220	75	25	1.8	3.2
14....	646	104	35	79	31	71	409	152	80	5.4	5.7	2.2
15....	330	98	32	68	24	59	420	128	59	1.8	5.7	2.2
16....	270	98	32	71	22	47	400	115	76	0.8	6.4	2.2
17....	239	100	33	73	22	39	379	110	82	0.3	7.1	2.2
18....	206	108	31	44	9.4	42	353	108	84	0.4	7.5	2.2
19....	178	98	31	35	19	59	302	79	86	0.5	7.1	2.6
20....	172	90	31	24	28	42	272	72	71	0.4	6.8	2.8
21....	423	82	31	25	30	42	257	90	54	0.3	6.0	2.8
22....	309	82	29	31	30	58	302	156	73	0.1	5.2	3.5
23....	235	71	20	35	24	89	451	146	55	0.5	5.2	4.0
24....	192	71	29	33	18	89	409	152	59	4.3	6.8	4.0
25....	812	70	26	33	28	73	361	150	38	11	7.1	4.3
26....	332	71	16	34	21	62	330	142	11	16	6.0	4.3
27....	244	68	24	34	21	54	300	146	5.2	19	5.2	2.8
28....	228	68	20	34	21	62	283	103	4.6	19	4.6	2.4
29....	237	60	31	33	....	61	268	72	3.5	19	5.2	2.0
30....	188	55	37	29	....	73	224	36	2.8	21	4.6	1.6
31....	164	....	39	32	....	75	....	32	....	19	4.3	....
Total	8065	2976	1042	1188	778.4	1767	9705	4798	1900.1	791.0	191.3	116.5
Mean..	260	99.2	33.6	38.3	27.8	57.0	324	155	63.3	25.5	6.17	3.88
Max...	812	150	46	79	37	89	451	281	126	68	20	7.9
Min...	90	55	16	18	9.4	23	146	32	2.8	0.1	0.5	1.6
Ac.-ft.	16000	5900	2070	2360	1540	3500	19250	9520	3770	1570	379	231

Total run-off for water year=66,090 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cherry Creek Near Red Mesa, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	2.1	0	0.6	.....	.....	2.2	66	132	71	10	6.5	2.7
2.....	1.0	0	0.6	.....	.....	3.4	34	132	70	6.9	3.9	2.6
3.....	0.5	0	0.5	.....	.....	3.2	28	149	68	5.9	3.3	2.4
4.....	0.3	0	0.5	.....	.....	3.0	22	326	58	6.3	3.3	2.2
5.....	0.2	0	0.5	.....	.....	3.6	29	262	57	6.3	3.0	2.0
6.....	1.6	0.4	0.3	.....	.....	2.8	24	226	55	5.9	4.9	1.8
7.....	1.8	0.4	0.3	.....	.....	2.2	22	244	60	5.4	6.1	1.8
8.....	1.6	0.5	0.4	.....	.....	2.0	28	*240	67	5.6	3.9	1.8
9.....	1.6	0.6	0.4	.....	.....	2.6	33	250	65	6.3	5.7	1.6
10.....	1.7	0.5	0.2	.....	.....	2.6	44	270	63	8.7	2.5	1.4
11.....	1.7	0.2	0.2	.....	.....	3.2	35	210	60	8.7	1.6	1.5
12.....	1.4	0	0.2	.....	.....	3.2	36	*220	58	12	11	1.6
13.....	1.4	0	0.2	.....	.....	3.2	32	220	56	12	9.4	1.8
14.....	1.0	0	0.2	.....	.....	3.4	26	195	53	14	8.3	4.5
15.....	0.7	0	0.2	.....	.....	3.6	22	185	55	11	6.7	8.3
16.....	0.7	0	0.2	.....	.....	4.0	24	155	53	11	10	5.9
17.....	0.6	0	0.2	.....	.....	5.0	22	146	55	12	9.2	3.8
18.....	0.4	0	0.2	.....	.....	6.3	20	146	51	12	8.7	4.5
19.....	0.3	0.8	0.2	.....	.....	9.0	18	137	51	12	8.3	1.7
20.....	0.3	1.4	0.2	.....	.....	14	24	102	44	12	7.7	2.0
21.....	0.3	1.2	0.2	.....	.....	16	25	78	39	11	6.9	2.0
22.....	0.3	*1.0	0.2	.....	.....	20	37	78	35	7.5	7.5	4.3
23.....	0.2	1.0	0.2	.....	.....	24	37	88	33	5.7	6.1	2.8
24.....	0.2	1.0	0.2	.....	.....	29	38	107	33	6.5	5.0	1.1
25.....	0.2	1.0	0.2	.....	.....	18	40	105	33	6.7	4.7	7.3
26.....	0.2	0.8	0.2	.....	.....	14	66	104	23	6.5	3.7	5.4
27.....	0.4	0.8	0.2	.....	.....	14	107	96	18	6.1	3.3	5.4
28.....	0.6	0.6	0.2	.....	*3.0	22	110	96	15	7.1	3.0	4.5
29.....	1.0	0.6	0.2	.....	.....	27	115	89	14	7.5	2.7	1.2
30.....	0.7	0.6	0.2	.....	.....	28	115	82	12	8.1	2.7	1.8
31.....	0.3	.....	0.2	.....	.....	45	.....	75	.....	7.1	2.7	.....
Total	25.3	13.4	8.5	6.20	28.0	339.5	1279	4945	1425	263.8	209.2	243.8
Mean.	0.82	0.45	0.27	0.2	1.0	11.0	42.6	160	47.5	8.51	6.75	8.13
Max..	2.1	1.4	0.6	.....	.....	45.0	115	326	71	14	2.5	4.3
Min..	0.2	0	0.2	.....	.....	2.0	18	75	12	5.4	2.7	1.4
Acre-ft.	50.2	26.6	16.9	12.3	55.5	673	2540	9810	2820	523	415	484

Total run-off for water year=17,410 acre-feet.

Discharge of Cherry Creek Near Red Mesa, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	9.4	42	12	5.2	3.7	6.0	74	92	12	5.9	2.3	1.1
2.....	7.9	38	12	4.2	3.8	6.3	88	91	8.3	5.9	2.3	1.0
3.....	18	35	12	4.5	*3.8	7.0	103	85	8.1	9.6	2.0	1.0
4.....	51	35	10	5.0	3.6	8.0	105	85	7.9	8.5	1.4	1.2
5.....	35	32	10	5.2	3.9	10	135	74	9.8	7.5	1.4	0.9
6.....	20	30	9.0	5.4	3.9	9.0	121	69	14	7.5	1.1	0.7
7.....	17	30	8.8	5.4	3.9	8.8	96	75	11	7.5	1.1	0.7
8.....	14	28	8.9	*5.3	4.1	7.8	98	75	9.2	6.5	1.2	0.7
9.....	13	27	9.0	5.3	3.9	10	105	75	7.1	7.5	1.2	0.9
10.....	12	23	9.4	5.3	3.7	14	113	88	4.4	5.6	1.2	0.7
11.....	12	23	9.0	5.8	3.6	14	137	95	5.2	5.6	1.2	0.8
12.....	14	23	8.4	6.8	3.6	13	148	96	5.2	4.7	1.2	0.7
13.....	80	23	8.5	8.8	3.7	16	148	80	5.2	3.9	1.2	0.6
14.....	98	23	7.8	8.8	3.5	14	148	70	5.2	2.7	1.1	0.6
15.....	42	23	6.9	7.8	3.2	9.9	167	70	5.2	2.7	1.0	0.6
16.....	30	21	6.9	7.6	3.2	6.3	148	66	7.9	2.7	1.1	0.6
17.....	26	19	6.9	7.4	2.9	6.3	148	62	7.9	3.9	1.4	0.6
18.....	24	21	6.9	6.4	2.5	9.6	148	63	9.0	6.5	1.4	0.5
19.....	23	21	5.9	5.6	3.9	11	139	63	9.0	6.5	1.4	0.5
20.....	24	23	6.9	3.8	5.0	7.9	131	63	7.9	3.3	1.4	0.5
21.....	70	19	7.9	4.0	5.5	9.0	131	58	6.9	3.3	1.0	0.6
22.....	60	18	5.9	4.1	5.7	10	148	50	6.9	3.3	0.9	0.7
23.....	41	16	6.9	4.1	5.4	15	187	50	6.9	3.3	0.9	0.7
24.....	34	15	6.0	3.9	5.0	22	167	42	9.0	3.3	1.0	0.7
25.....	114	*14	5.0	3.9	6.4	23	157	37	7.9	3.9	1.3	0.6
26.....	91	14	4.2	3.9	*5.6	20	148	31	5.9	3.9	1.3	0.6
27.....	61	14	4.6	3.9	5.6	15	131	30	5.9	3.3	1.3	0.6
28.....	63	14	4.7	3.8	5.6	15	139	30	5.9	3.3	1.0	0.6
29.....	75	13	5.4	3.7	.....	17	114	25	5.9	3.3	1.0	0.6
30.....	53	12	5.5	3.4	.....	24	100	21	5.9	3.3	1.0	0.6
31.....	45	.....	5.5	3.6	.....	45	.....	17	.....	3.3	1.0	.....
Total	1277.3	689	236.8	161.9	118.2	409.9	3922	1928	226.6	152.0	33.3	21.2
Mean.	41.2	23.0	7.64	5.22	4.22	13.2	131	62.2	7.55	4.90	1.27	0.71
Max..	114	42	12	8.8	6.4	45	187	96	14	9.6	2.3	1.2
Min..	7.9	12	4.2	3.4	2.5	6.0	74	17	4.4	2.7	0.9	0.5
Acre-ft.	2530	1370	470	321	234	813	7780	3820	449	301	78	42

Total run-off for water year=18,210 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1941.												
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	4.8	0.9	.....	.....	.....	1.6	12	36	88	56	8.4	1.7
2.....	4.5	1.0	.....	.....	.....	1.6	8.4	37	105	56	8.4	1.5
3.....	3.8	1.3	.....	.....	.....	1.6	6.9	70	113	49	7.2	1.3
4.....	3.2	1.2	.....	.....	.....	1.6	6.3	167	99	40	6.9	1.2
5.....	8.9	0.9	.....	.....	.....	1.6	6.6	72	101	40	6.9	1.1
6.....	11	1.1	.....	.....	.....	1.8	6.0	86	95	32	8.9	1.0
7.....	7.8	0.9	.....	.....	.....	1.7	6.0	99	103	29	8.4	1.0
8.....	7.8	1.1	.....	.....	.....	2.0	7.2	165	92	56	10	1.0
9.....	6.3	1.1	*1.0	.....	.....	2.1	11	128	75	40	11	0.9
10.....	5.1	1.1	.....	.....	.....	2.6	14	167	59	32	9.5	0.9
11.....	4.2	0.8	.....	.....	.....	2.8	12	179	53	31	7.8	0.8
12.....	3.8	1.0	.....	.....	.....	2.8	11	260	53	26	6.3	0.8
13.....	3.2	0.7	.....	.....	.....	2.1	10	156	62	24	5.4	3.4
14.....	3.0	1.1	.....	.....	.....	2.2	7.8	176	77	22	5.4	13
15.....	2.8	1.2	.....	.....	.....	2.4	6.9	131	95	17	6.9	8.9
16.....	2.2	1.2	.....	.....	.....	2.6	6.3	131	109	15	7.2	7.8
17.....	2.1	1.3	.....	.....	.....	3.2	6.0	131	126	14	6.3	6.3
18.....	2.0	1.4	.....	.....	.....	3.8	6.3	119	133	12	5.4	15
19.....	1.9	1.5	.....	.....	.....	4.8	6.3	107	133	8.9	4.5	15
20.....	1.9	1.5	.....	.....	.....	6.0	6.6	62	123	7.2	3.8	9.5
21.....	1.9	1.4	.....	.....	.....	5.4	7.8	41	117	7.8	3.6	6.6
22.....	1.9	1.4	.....	.....	.....	5.4	8.4	50	113	6.0	2.8	37
23.....	1.7	1.3	.....	.....	.....	6.3	7.2	70	113	5.1	2.4	37
24.....	1.2	1.2	.....	.....	.....	5.7	8.4	101	111	4.0	2.1	21
25.....	0.5	1.1	.....	.....	.....	4.5	12	113	99	14	1.9	16
26.....	0.5	1.1	.....	.....	.....	4.0	18	107	92	11	1.8	9.5
27.....	1.0	1.1	.....	.....	1.6	4.5	32	105	88	11	1.7	5.7
28.....	0.8	1.2	.....	.....	1.8	5.4	35	90	80	9.5	1.5	4.0
29.....	1.0	1.5	.....	.....	.....	6.3	34	88	65	7.2	1.6	6.3
30.....	1.5	1.3	.....	.....	.....	6.9	47	92	58	6.6	2.4	7.2
31.....	0.9	.....	.....	.....	.....	8.9	.....	77	.....	8.4	2.0	.....
Total	112.4	34.9	.....	.....	.....	114.2	373.4	3413	2830	683.7	168.4	242.4
Mean.	3.63	1.16	.....	.....	.....	3.68	12.4	110	94.3	22.1	5.43	8.08
Max..	17	1.5	.....	.....	.....	8.9	47	260	133	56	11	37
Min..	0.5	0.7	.....	.....	.....	1.6	6	36	53	4.0	1.5	0.8
Acre-ft.	223	69	.....	.....	.....	227	741	6770	5610	1360	334	481

Total run-off for period—15,820 acre-feet.

Discharge of East Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1942.												
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	5.1	18	.....	.....	.....	3.0	21	25	84	8.4	1.9	1.1
2.....	3.8	17	.....	.....	.....	3.0	28	25	80	8.4	1.9	1.1
3.....	6.9	15	.....	.....	.....	3.0	34	25	75	7.2	1.8	1.1
4.....	14	14	.....	.....	.....	3.0	37	27	72	6.6	1.7	1.1
5.....	11	14	.....	.....	.....	3.0	35	27	77	5.7	1.8	1.9
6.....	7.8	14	.....	.....	.....	3.5	35	28	80	5.7	1.8	1.7
7.....	5.1	13	.....	.....	.....	3.5	30	33	79	6.0	2.2	1.7
8.....	4.0	14	.....	.....	.....	3.5	25	37	77	8.4	3.2	1.6
9.....	3.6	12	.....	.....	.....	3.8	31	50	65	8.9	2.4	1.4
10.....	4.0	12	*5.8	.....	.....	*3.8	37	62	59	8.9	2.1	1.4
11.....	4.5	11	.....	.....	.....	4.5	45	68	60	8.4	2.1	5.4
12.....	5.1	11	.....	.....	.....	5.0	50	68	54	7.8	2.2	4.5
13.....	5.0	10	.....	.....	.....	5.7	52	50	44	7.8	2.0	3.4
14.....	6.5	9.5	.....	.....	.....	5.1	56	44	37	7.8	1.7	2.6
15.....	4.0	9.5	.....	.....	.....	5.5	59	42	32	6.9	1.6	2.2
16.....	3.1	10	.....	.....	.....	6.0	53	44	32	8.4	1.5	2.0
17.....	2.6	11	.....	.....	.....	6.6	54	47	32	14	1.4	1.9
18.....	2.2	.....	.....	.....	.....	12	53	50	33	13	1.5	1.8
19.....	1.9	.....	.....	.....	.....	6.3	46	54	34	9.5	1.6	1.8
20.....	1.7	.....	.....	.....	.....	15	40	64	29	8.9	1.4	1.8
21.....	2.3	.....	.....	.....	.....	15	45	79	26	8.9	1.2	1.7
22.....	3.4	.....	.....	.....	.....	15	54	84	22	7.2	1.1	1.6
23.....	3.4	.....	.....	.....	.....	15	64	84	20	5.7	1.3	1.6
24.....	3.2	.....	.....	.....	.....	12	49	103	18	4.2	1.5	1.6
25.....	4.2	.....	.....	.....	.....	8.9	41	103	17	3.8	2.1	1.6
26.....	3.5	.....	.....	.....	.....	8.9	41	103	15	2.8	1.9	1.5
27.....	2.7	.....	.....	.....	.....	14	38	105	13	2.6	1.5	1.5
28.....	2.3	.....	.....	.....	.....	14	36	92	11	2.1	1.4	1.5
29.....	2.1	.....	.....	.....	.....	14	31	88	10	1.9	1.4	1.5
30.....	2.1	.....	.....	.....	.....	14	28	88	8.9	1.9	1.3	1.5
31.....	1.8	.....	.....	.....	.....	14	.....	84	.....	1.8	1.2	.....
Total	654.9	319.0	155	124	84	249.6	1248	1883	1295.9	209.6	53.7	57.1
Mean.	21.1	10.6	5.0	4.0	3.0	8.05	41.6	60.7	43.2	6.76	1.73	1.90
Max..	65	18	.....	.....	.....	15	64	105	84	14	3.2	5.4
Min..	3.6	.....	.....	.....	.....	3.0	21	25	8.9	1.8	1.1	1.1
Acre-ft.	1300	633	307	246	167	495	2480	3730	2570	416	107	113

Total run-off for water year—12,560 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Middle Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	1.8	0.3	0.2	.....	.....	0.2	10	38	.....	.....	.....	.....
2.....	1.8	0.2	0.1	.....	.....	0.2	6.9	40	.....	.....	.....	.....
3.....	2.0	0.2	0.1	.....	.....	0.2	5.8	52	.....	.....	.....	.....
4.....	1.8	0.2	0.1	.....	.....	0.2	6.0	116	.....	.....	.....	.....
5.....	2.2	0.2	0.1	.....	.....	0.2	7.5	55	.....	.....	.....	.....
6.....	3.3	0.2	0.1	.....	.....	0.4	6.6	65	.....	.....	.....	.....
7.....	3.2	0.2	0.1	.....	.....	0.4	7.2	75	.....	.....	.....	.....
8.....	2.6	0.2	0.1	.....	.....	0.4	9.3	110	.....	.....	.....	.....
9.....	1.9	0.2	0.1	.....	.....	0.5	12	*150	.....	.....	.....	.....
10.....	1.8	0.2	0.1	.....	.....	0.4	14	170	.....	.....	.....	.....
11.....	1.5	0.3	.....	.....	.....	0.4	11	173	.....	.....	.....	.....
12.....	1.6	0.3	.....	.....	.....	0.5	11	187	.....	.....	.....	.....
13.....	1.3	0.3	.....	.....	.....	0.5	9.3	201	.....	.....	.....	.....
14.....	0.9	0.3	.....	.....	.....	0.5	8.1	223	*15	.....	.....	.....
15.....	0.8	0.3	.....	.....	.....	0.6	7.2	164	.....	.....	.....	.....
16.....	0.7	0.3	.....	.....	.....	0.6	6.9	152	.....	.....	.....	.....
17.....	0.6	0.2	.....	.....	.....	0.6	6.9	165	.....	.....	.....	.....
18.....	0.6	0.2	.....	.....	.....	1.0	6.9	165	.....	.....	.....	.....
19.....	0.5	0.2	.....	.....	.....	1.3	6.6	161	.....	.....	.....	.....
20.....	0.5	0.2	.....	.....	.....	2.5	7.8	133	.....	.....	.....	.....
21.....	0.5	0.2	.....	.....	.....	3.1	8.4	135	.....	.....	.....	.....
22.....	0.4	0.2	.....	.....	.....	3.8	8.7	140	.....	.....	.....	.....
23.....	0.3	0.2	.....	.....	.....	3.8	8.4	175	.....	.....	.....	.....
24.....	0.3	0.2	.....	.....	.....	3.5	9.3	161	.....	.....	.....	.....
25.....	0.3	0.2	.....	.....	.....	2.5	11	157	.....	.....	.....	.....
26.....	0.3	0.2	.....	.....	.....	2.1	21	158	.....	.....	.....	.....
27.....	0.4	0.2	.....	.....	0.2	2.5	33	156	.....	.....	.....	.....
28.....	0.4	0.2	.....	.....	0.2	4.5	33	140	.....	.....	.....	.....
29.....	0.3	0.2	.....	.....	.....	6.3	35	140	.....	.....	.....	.....
30.....	0.3	0.2	Dec. 1	.....	.....	7.2	38	135	.....	.....	.....	.....
31.....	0.3	.....	to 10	.....	.....	10	.....	130	.....	.....	.....	.....
Total	35.2	6.7	1.1	.....	.....	60.9	372.8	4222	.....	.....	.....	.....
Mean.	1.14	0.22	0.11	.....	.....	1.96	12.4	136	.....	.....	.....	.....
Max.	3.3	0.3	0.2	.....	.....	10	38	223	.....	.....	.....	.....
Min.	0.3	0.2	0.1	.....	.....	0.2	5.8	38	.....	.....	.....	.....
Acres-ft.	70	13	2.2	.....	.....	121	739	8370	.....	.....	.....	.....

Total run-off for period=9,315 acre-feet.

Discharge of Middle Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	20	.....	.....	.....	.....	12	42	37	0.6	0.8	0.6
2.....	18	.....	.....	.....	.....	20	43	36	0.6	0.9	0.4
3.....	17	.....	.....	.....	.....	28	43	33	1.0	1.1	0.7
4.....	16	.....	.....	.....	.....	32	44	32	5.2	1.0	0.8
5.....	16	.....	.....	.....	.....	52	44	32	4.6	1.0	0.8
6.....	14	.....	.....	.....	.....	36	46	34	3.8	1.1	0.8
7.....	12	.....	.....	.....	.....	32	53	32	4.1	1.0	0.9
8.....	12	.....	.....	.....	.....	32	60	30	4.4	1.0	0.8
9.....	11	.....	.....	.....	.....	48	74	27	3.8	1.0	0.8
10.....	10	*5.3	.....	.....	*1.5	55	96	24	3.6	1.0	0.8
11.....	9.7	.....	.....	.....	.....	67	94	25	3.3	1.0	2.0
12.....	9.2	.....	.....	.....	.....	66	77	21	3.2	0.8	1.2
13.....	9.7	.....	.....	.....	.....	68	53	20	2.8	0.6	1.2
14.....	9.3	.....	.....	.....	.....	67	45	20	2.7	0.5	1.3
15.....	9.0	.....	.....	.....	.....	72	43	18	2.7	0.5	0.8
16.....	8.6	.....	.....	.....	.....	84	45	16	2.5	0.6	0.6
17.....	9.0	.....	.....	.....	.....	82	49	16	3.0	1.0	1.0
18.....	8.3	.....	.....	.....	.....	74	52	16	2.7	1.0	0.3
19.....	7.6	.....	.....	.....	.....	62	52	14	2.2	1.1	0.7
20.....	8.0	.....	.....	.....	.....	57	60	13	1.9	1.0	0.4
21.....	8.0	.....	.....	.....	.....	66	68	11	1.8	1.0	0.0
22.....	7.5	.....	.....	.....	.....	94	77	9.7	1.8	1.0	0.0
23.....	Oct. 25	7.5	.....	.....	.....	.....	105	80	8.6	1.7	0.8	0.0
24.....	to 31	7.0	.....	.....	.....	.....	85	77	5.8	1.5	1.0	0.1
25.....	7.0	.....	.....	.....	.....	70	71	3.8	1.2	1.2	5.2
26.....	41	6.8	.....	.....	.....	66	71	3.2	1.1	1.2	0.6
27.....	32	6.5	.....	.....	.....	65	72	2.7	1.0	1.1	0.0
28.....	32	6.3	.....	.....	.....	58	61	2.2	0.8	0.7	0.0
29.....	29	6.3	.....	.....	.....	50	55	1.9	0.8	0.6	0.0
30.....	24	6.0	.....	.....	.....	47	49	1.2	0.8	0.6	0.0
31.....	21	.....	.....	.....	.....	.....	42	.....	0.9	0.7	.....
Total	249	309.4	124.0	77.5	42.0	16.5	1752	1838	546.1	72.1	27.9	22.8
Mean.	35.6	10.1	1	2.5	1.5	1.5	58.4	59.3	18.2	2.33	0.90	0.76
Max.	70	20	.....	.....	.....	.....	105	96	37	5.2	1.2	5.2
Min.	21	6.0	.....	.....	.....	.....	12	42	1.2	0.6	0.5	0.0
Acres-ft.	494	602	246	154	83	92	3480	3650	1080	147	55	45

Total run-off for water year=10,120 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of West Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1941.												
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	34	9.9	8.1	.....	.....	9.0	50	128	253	233	39	14
2....	26	9.9	7.4	.....	.....	8.3	32	133	253	225	39	13
3....	23	10	6.7	.....	.....	7.8	26	163	253	214	37	12
4....	20	10	7.4	.....	.....	7.4	24	295	258	205	36	11
5....	42	8.3	6.7	.....	.....	8.1	29	216	272	198	35	10
6....	59	9.6	5.6	.....	.....	7.2	26	253	244	170	38	9.9
7....	42	8.8	5.8	.....	.....	8.1	28	228	304	160	35	9.9
8....	34	8.8	5.4	.....	.....	8.5	36	244	281	177	40	9.9
9....	28	8.8	4.7	.....	.....	9.0	51	420	233	175	47	9.3
10....	24	9.6	3.7	.....	.....	9.0	53	534	208	153	49	9.0
11....	21	9.0	3.7	.....	.....	10	37	553	190	146	42	9.0
12....	18	9.3	.....	.....	.....	9.9	33	718	170	146	34	9.0
13....	16	8.3	.....	.....	.....	9.0	26	828	170	140	31	20
14....	15	9.9	.....	.....	.....	8.5	23	645	190	133	31	50
15....	14	11	.....	.....	.....	9.0	21	549	198	113	39	34
16....	13	11	.....	.....	.....	9.0	20	542	195	111	38	29
17....	13	9.9	.....	.....	.....	10	18	580	211	101	34	24
18....	12	9.3	.....	.....	.....	13	16	633	250	99	28	62
19....	11	9.0	.....	.....	.....	16	17	700	266	97	25	55
20....	11	8.8	.....	.....	.....	20	17	316	278	90	24	40
21....	10	8.8	.....	.....	.....	17	19	244	286	81	22	33
22....	9.9	8.5	.....	.....	.....	17	18	230	295	76	19	190
23....	9.6	8.3	.....	.....	.....	20	20	319	292	73	17	149
24....	9.3	8.5	.....	.....	.....	18	27	443	328	72	16	93
25....	9.3	8.8	.....	.....	.....	15	31	432	316	67	15	74
26....	9.9	8.8	.....	.....	.....	14	67	392	328	59	14	64
27....	14	8.1	.....	.....	8.5	17	99	385	307	62	14	56
28....	12	9.0	.....	.....	9.3	20	101	355	295	55	13	53
29....	10	9.6	.....	.....	.....	23	99	322	256	48	14	78
30....	11	8.3	Dec. 1	.....	.....	28	124	298	242	47	17	72
31....	9.6	.....	to 11	.....	.....	46	.....	256	.....	42	16	.....
Total	590.6	275.9	65.2	.....	.....	431.8	1191	12334	7622	3768	898	1302.0
Mean.	19.1	9.20	5.93	.....	.....	13.9	39.7	398	254	122	29.0	43.4
Max.	59	11	8.1	.....	.....	46	124	828	328	233	49	190
Min.	9.3	8.1	3.7	.....	.....	7.2	16	128	170	42	13	9.0
Acre-ft.	1170	547	129	.....	.....	856	2360	24460	15120	7470	1780	2580

Total run-off for period=56,172 acre-feet.

Discharge of West Mancos River Near Mancos, Colo., for Year Ending Sept. 30, 1942.												
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	59	62	20	.....	.....	11	51	76	222	73	18	7.4
2....	57	58	20	.....	.....	11	72	81	219	66	22	7.2
3....	124	53	19	.....	.....	11	86	76	207	63	24	7.2
4....	124	50	18	.....	.....	11	87	81	187	59	21	8.6
5....	97	47	16	.....	.....	11	121	91	213	56	19	9.5
6....	90	43	16	.....	.....	11	75	102	228	56	20	7.8
7....	73	40	14	.....	.....	11	63	125	246	58	22	7.6
8....	70	36	12	.....	.....	11	63	134	240	56	22	7.2
9....	67	35	*11	.....	.....	11	75	168	205	54	19	6.5
10....	64	32	*11	.....	.....	11	87	228	192	54	17	6.5
11....	62	32	*12	.....	.....	11	112	219	222	50	18	37
12....	76	30	11	.....	.....	11	130	205	222	47	22	24
13....	371	32	11	.....	.....	11	141	149	194	43	18	16
14....	304	30	11	.....	.....	11	161	127	182	47	15	12
15....	156	30	11	.....	.....	11	175	127	166	42	13	10
16....	119	28	11	.....	.....	11	175	132	172	48	12	8.9
17....	104	31	10	.....	.....	11	182	145	177	57	12	8.3
18....	90	30	10	.....	.....	11	153	145	184	58	11	7.8
19....	86	30	10	.....	.....	11	121	151	177	43	11	7.2
20....	84	26	10	.....	.....	11	112	182	163	37	10	7.2
21....	172	23	9	.....	.....	11	137	234	151	32	10	6.5
22....	151	20	9	.....	.....	13	213	259	143	31	10	6.3
23....	123	19	9	.....	.....	15	272	269	132	28	10	6.1
24....	101	17	9	.....	.....	16	184	307	123	27	14	6.1
25....	143	20	9	.....	.....	16	151	318	109	25	18	6.1
26....	123	20	9	.....	.....	15	137	326	98	24	14	5.9
27....	99	24	7	.....	.....	14	134	296	90	24	11	5.9
28....	97	22	7	.....	.....	16	109	266	78	22	9.8	5.7
29....	88	22	7	.....	.....	18	97	256	75	21	8.9	5.7
30....	76	21	7	.....	.....	23	86	231	73	20	8.3	5.7
31....	68	.....	7	.....	.....	36	.....	216	.....	18	7.6	.....
Total	3518	965	353	248	280	413	3762	5722	5090	1339	467.6	273.9
Mean.	113	32.2	11.4	8	10	13.3	125	185	170	43.2	15.1	9.13
Max.	371	62	20	.....	.....	86	272	326	246	73	24	37
Min.	57	17	7	.....	.....	11	51	76	73	18	7.6	5.7
Acre-ft.	6980	1910	700	492	555	819	7160	11350	10100	2660	927	543

Total run-off for water year=44,500 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mancos River Near Towaoc, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	61	12	4.8	6.0	18	72	168	370	242	214	0	24
2....	28	12	2.9	6.0	18	107	159	274	242	193	0	15
3....	22	12	2.9	6.0	16	136	125	333	222	214	0	11
4....	17	12	2.9	6.0	16	110	101	620	217	214	0	7.0
5....	15	9.8	3.8	10	20	109	101	788	300	172	0	4.0
6....	23	9.8	4.6	*14	20	115	118	502	289	151	0	4.0
7....	33	7.8	2.8	12	26	106	118	489	292	154	0	3.0
8....	26	7.4	2.8	10	24	96	126	498	322	145	2.8	1.5
9....	23	8.6	6.6	10	24	95	134	484	339	145	5.6	1.0
10....	22	9.1	6.6	10	24	95	152	752	327	136	0	2.0
11....	18	5.2	6.6	10	24	68	143	818	316	136	28	2.5
12....	17	5.2	6.6	10	28	70	134	914	319	136	36	2.0
13....	17	6.2	6.6	10	37	71	134	1000	307	128	40	4.0
14....	16	5.2	6.6	10	35	72	126	983	284	128	40	136
15....	15	4.2	6.6	10	31	72	118	794	262	120	40	96
16....	15	5.2	6.6	10	31	102	112	800	252	112	40	68
17....	15	7.8	5.6	*10	42	89	104	800	292	104	40	51
18....	13	12	5.6	10	46	83	104	800	282	89	39	136
19....	12	18	5.6	11	46	92	104	866	259	75	35	136
20....	12	13	5.6	12	75	125	136	556	235	62	28	128
21....	11	13	5.6	14	89	126	120	538	235	51	25	136
22....	10	11	6.0	11	98	128	154	520	235	42	22	500
23....	10	9.0	6.6	13	89	130	154	520	272	42	19	436
24....	10	6.4	8.2	11	102	140	136	595	284	42	18	212
25....	9.8	6.4	8.0	14	91	133	128	464	284	172	15	170
26....	9.4	4.8	8.0	11	100	110	193	394	259	46	16	152
27....	9.8	4.8	8.0	16	76	112	287	333	224	21	24	152
28....	14	4.8	8.0	15	68	130	556	322	204	12	27	152
29....	12	5.8	8.0	13	....	149	433	310	193	11	27	152
30....	12	6.8	8.0	28	....	150	367	249	214	2.7	18	152
31....	9.8	....	8.0	22	....	150	....	252	....	0.5	24	....
Total	537.8	255.6	185.1	364	1317	3343	5045	17938	8034	3273.2	609.4	3082
Mean.	17.3	8.52	5.97	11.7	47.0	108	168	579	268	106	19.7	103
Max..	61	18	8.2	28	102	150	556	1000	339	214	40	500
Min..	9.4	4.2	2.8	6.0	16	68	101	249	193	0.5	0	1.0
Ac.-ft.	1070	507	367	722	2610	6630	10010	35580	15940	6049	1210	6110

Total run-off for water year=87,250 acre-feet.

Discharge of Mancos River Near Towaoc, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1....	152	141	65	25	28	31	300	220	233	14	2.0	2.0
2....	170	139	60	25	26	31	328	201	212	12	2.0	2.0
3....	180	109	55	25	31	34	354	201	212	10	2.0	2.0
4....	180	95	55	25	31	28	378	220	193	8.8	2.0	2.0
5....	170	84	50	25	39	31	426	241	178	8.8	2.0	2.0
6....	161	95	50	25	46	31	402	220	197	7.6	2.0	2.0
7....	152	84	48	*25	46	28	220	220	216	6.4	2.0	2.0
8....	152	73	50	30	46	30	201	241	216	6.4	2.0	2.0
9....	152	73	55	35	46	30	201	262	220	4.9	2.0	2.0
10....	143	64	55	35	46	35	220	330	182	7.9	2.0	2.0
11....	161	64	55	40	46	35	262	402	201	7.9	2.0	3.0
12....	260	73	55	40	39	45	330	378	201	7.9	2.0	8.5
13....	1250	84	55	40	46	55	330	330	201	6.4	2.0	12
14....	*3050	73	48	45	39	63	354	284	201	6.4	2.0	5.5
15....	700	73	48	45	35	69	402	262	168	6.4	2.0	2.5
16....	580	84	48	50	46	60	426	245	136	7.9	2.0	2.0
17....	500	84	40	75	39	50	426	241	122	13	2.0	2.0
18....	450	84	48	*95	82	75	402	241	136	13	2.0	2.0
19....	420	80	48	90	62	75	330	220	139	20	2.0	2.0
20....	400	75	48	95	62	65	262	241	125	15	2.0	2.0
21....	800	70	40	80	82	88	354	289	125	13	2.0	2.0
22....	704	70	48	70	71	91	450	335	125	7.9	2.0	2.0
23....	335	64	48	60	28	142	402	340	102	7.9	2.0	2.0
24....	407	60	40	55	23	192	307	340	91	6.4	2.0	2.0
25....	795	60	36	50	52	173	241	321	69	2.0	2.0	2.0
26....	470	65	32	45	52	160	330	321	52	2.0	2.0	2.0
27....	321	70	26	40	60	160	354	321	39	2.0	2.0	2.0
28....	294	70	26	35	52	160	284	298	28	2.0	2.0	2.0
29....	312	73	26	30	....	165	241	254	26	2.0	2.0	2.0
30....	220	70	26	30	....	200	220	254	23	2.0	2.0	2.0
31....	178	....	26	*28	....	260	....	233	....	2.0	2.0	....
Total	14219	2403	1410	1413	1301	2692	9737	8506	4369	239.9	62.0	81.5
Mean.	459	80.1	45.5	45.6	46.5	86.8	325	274	146	7.74	2.00	2.72
Max..	3050	141	65	95	82	260	450	402	233	20	2	12
Min..	143	60	26	25	26	28	201	201	23	2.0	2.0	2.0
Ac.-ft.	28200	4770	2800	2800	2580	5340	19310	16870	8670	476	123	162

Total run-off for water year=92,100 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of McElmo Creek Near Cortez, Colo., for Year Ending Sept. 30, 1941.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	112	42	32	31	34	59	64	103	110	103	87	76
2.....	72	54	23	17	30	99	78	100	106	103	84	80
3.....	62	41	32	20	27	81	63	93	103	104	82	73
4.....	46	42	29	29	28	62	64	252	93	101	100	70
5.....	104	42	22	38	26	64	64	111	110	110	79	90
6.....	71	46	31	30	25	78	59	93	128	124	77	96
7.....	52	47	32	39	37	57	59	72	151	135	83	98
8.....	50	48	33	40	50	47	59	62	178	111	82	89
9.....	56	52	32	32	40	54	54	55	171	111	86	68
10.....	64	52	42	29	53	50	52	48	140	113	103	77
11.....	65	46	51	31	80	50	83	51	149	120	126	65
12.....	56	26	41	31	105	47	86	46	135	120	100	56
13.....	52	16	37	37	75	63	84	48	125	113	83	142
14.....	54	10	32	36	71	100	88	48	120	113	93	194
15.....	57	17	18	35	74	146	86	48	115	110	165	218
16.....	59	17	72	22	80	97	84	55	110	108	126	115
17.....	58	21	63	15	88	78	75	61	110	106	124	110
18.....	51	40	56	11	89	72	74	57	105	110	113	200
19.....	47	94	52	17	133	75	86	58	105	106	104	153
20.....	48	67	50	18	115	71	83	80	100	111	104	171
21.....	44	65	41	23	157	71	78	90	100	110	93	135
22.....	40	60	28	20	110	72	89	111	90	106	89	800
23.....	41	45	30	18	95	78	92	153	150	103	87	650
24.....	44	31	34	17	100	97	88	171	120	100	84	250
25.....	45	27	35	24	90	81	77	151	129	108	83	210
26.....	44	16	17	23	70	72	108	142	124	128	76	170
27.....	86	16	28	23	55	64	236	164	115	101	69	165
28.....	52	15	26	28	58	57	256	142	110	101	76	165
29.....	33	23	29	52	....	50	178	122	108	100	69	170
30.....	38	20	36	53	....	47	150	108	115	95	58	164
31.....	40	....	40	34	....	46	....	108	....	87	60	....
Total	1743	1138	1124	873	1995	2185	2797	3003	3625	3371	2845	5120
Mean.	56.2	37.9	36.3	28.2	71.2	70.5	93.2	96.9	121	109	91.8	171
Max..	112	94	72	53	157	146	256	252	178	135	165	800
Min..	33	10	17	11	25	46	52	46	90	87	58	56
Acres-ft.	3460	2260	2230	1730	3960	4330	5550	5960	7190	6690	5640	10160

Total run-off for water year=59,160 acre-feet.

Discharge of McElmo Creek Near Cortez, Colo., for Year Ending Sept. 30, 1942.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1.....	135	94	53	40	70	30	60	42	81	102	64	56
2.....	135	98	54	37	67	33	72	47	82	102	73	50
3.....	135	96	56	40	72	46	82	48	81	105	92	49
4.....	135	95	51	37	72	46	96	53	86	111	88	53
5.....	135	85	39	37	72	43	108	46	84	118	72	57
6.....	135	94	40	36	67	43	101	45	73	122	86	51
7.....	135	94	40	40	72	28	95	41	75	108	89	52
8.....	135	94	40	46	69	30	87	37	82	102	87	48
9.....	135	82	42	42	64	38	77	35	86	94	84	46
10.....	135	91	44	44	76	58	76	34	82	90	75	39
11.....	135	87	44	50	48	63	70	74	79	85	72	73
12.....	135	88	42	55	41	72	64	107	73	79	73	62
13.....	135	89	42	52	42	87	53	90	74	85	70	50
14.....	135	86	40	50	36	92	56	89	69	94	64	40
15.....	135	84	40	51	30	87	53	87	101	90	52	37
16.....	135	83	40	52	24	74	47	77	87	105	53	30
17.....	135	79	44	50	22	66	46	82	86	136	57	29
18.....	135	84	37	46	18	71	49	69	86	145	56	28
19.....	135	75	37	46	18	66	45	76	86	111	56	26
20.....	135	70	40	44	20	57	41	90	88	123	58	24
21.....	135	66	44	52	28	57	42	79	98	118	57	23
22.....	135	65	40	60	33	62	44	70	100	98	56	23
23.....	135	60	44	70	36	69	53	125	97	111	66	22
24.....	*135	58	44	61	33	71	54	123	97	118	125	22
25.....	135	57	44	60	38	60	56	100	98	105	105	21
26.....	135	57	44	66	26	54	60	97	100	98	75	20
27.....	135	56	44	*70	31	50	64	90	101	88	64	19
28.....	135	56	44	70	33	48	56	79	106	86	66	19
29.....	135	56	44	72	....	52	52	75	101	82	64	19
30.....	135	56	44	75	....	55	46	79	100	71	60	18
31.....	135	....	44	74	....	58	....	78	....	66	58	....
Total	4185	2335	1345	1623	1258	1766	1905	2264	2639	3148	2217	1106
Mean.	135	78.5	43.4	52.4	44.9	57.0	63.5	73.0	88.0	102	71.5	36.9
Max..	....	98	56	74	76	92	108	125	106	145	125	73
Min..	....	56	37	36	18	28	41	34	69	66	52	18
Acres-ft.	8300	4670	2670	3220	2500	3500	3780	4190	5230	6240	4400	2190

Total run-off for water year=51,190 acre-feet.

*Discharge measurement made on this day.

Unless otherwise noted, all discharges are in cubic feet per second.

CHAPTER XI
ANNUAL REPORTS
OF
IRRIGATION DIVISION
ENGINEERS
FOR
1941-1942

ANNUAL REPORT—IRRIGATION DIVISION NO. 1
FOR THE YEAR 1941

November 22, 1941.

Mr. M. C. Hinderlider
State Engineer
State Capitol Bldg.
Denver, Colorado.

Dear Sir:

Herein is presented a general summary of the administrative activities in Irrigation Division No. 1 for the year of 1941.

The year of 1941 favored this division with an excess of precipitation which was spread over the entire year at such intervals as to have been of great benefit to crops and range. There were no floods of consequence and damage from this source was very slight. Very few hail storms occurred and there was little damage to crops by these few which came early in the season.

The snowfall on the South Platte watershed was 151% of the 1940 figure on April 1st, and 117% of the six year average. The precipitation as recorded by the Denver station of the U. S. Weather Bureau was 16.30 inches to November 21st, which is 3.44 above normal.

As a result of the excessive precipitation the streams held up well all during the irrigation season and the earliest call placed on the river was for priority of date May 3, 1866, which call was issued on September 2nd, and held until September 8th, on which date the order releasing the demand to priority of date October 5, 1871, was issued. The aforementioned demand was the only occasion when the call was earlier than October 5, 1871, which is unusual since orders senior to 1871 are ordinarily issued several times in a season. Sixty-two changes in water orders were issued during the season.

The storage supply on April 1st was only 70% normal, while on November 1st, it was 124% of the normal. The rise in storage during the latter part of the season was due to decreased demands for direct irrigation resulting in release of all calls on October 21st, at which time all available water was turned to storage reservoirs which had not had their decrees satisfied once this year. On November 1st, storage began in the senior reservoirs for use the ensuing year, and is still in progress, with water going to Riverside, No. Sterling, Prewitt, Barr, Cheesman and Antero reservoirs diverting from the main river, and a number of reservoirs storing from tributary streams. All storage at the present time, is for priorities senior to January 13, 1909. A tabulated statement of storage in the division is included in this report.

Very few complaints were received the past season, and most of these were of trivial importance.

Water District No. 3 has made complaint to this office that the date of beginning of the new "water year" for storage on November 1st, is too late, and requests that this date be advanced to October 15th, but no change has been made by the State Engineer up to the time of this writing.

The agreement between the City of Denver and the Water Users Association of Dist. No. 2, relative to the operation of 11-Mile Canon Reservoir, was carried out with but little trouble, and a tabulated statement of 11-Mile Canon Reservoir operation is included in this report.

Three special deputies from this office were added to the administrative force in South Park, and this seemed to work out very well.

The administration of the Laramie River decree was carried out with the assistance of the Water Commissioner of Dist. No. 48, and three special deputies from this office. The allocation of 39,750 acre feet was diverted by June 18th, on which date all headgates were closed for the season, only a small amount of water being diverted for domestic and stock use thereafter. The hay crop on the Laramie River was better than expected, there being 2,739 tons of hay harvested, which is nearly the same as the amount for 1939 (2,730 tons).

While little trouble was experienced in the administration of the Laramie River decree, there is a decided feeling of dissatisfaction in the district, which the writer firmly believes will lead to further trouble unless the situation be sooner corrected by arbitration between Colorado and Wyoming.

A tabulated statement of diversions by each ditch for the season of 1941 follows this report.

Work is progressing on the City of Greeley dam on the North Fork of the Cache la Poudre river, which is the only major dam construction in progress in the division at this time.

The City of Denver is doing some further preliminary work relative to the Blue river diversion tunnel at this time. Numerous stock water tanks have been built and registered with this department in accordance with the Stock Water Tank Act, passed by the last legislature. No dams failed in the division the past year, and all the larger dams are in good condition at the present time.

The diversions by the trans-mountain systems were greater than usual, there being a total of 85,926 acre feet diverted as compared with 75,241 acre feet last year. Three trans-mountain ditches were not in operation this year, which have been active heretofore, namely: East Hoosier Pass, West Hoosier Pass and Boreas Pass ditches, which divert water from Water District No. 36, in Irrigation Division No. 5, to Water District No. 23, in Irrigation Division No. 1.

The Williams Fork trans-mountain diversion tunnel was closed from June 20th until July 7th, as the water was not needed at that time and there was no available storage space which the City of Denver could use.

The crops were above normal in most sections with the dry lands showing the best returns in several years due to an abundance of moisture and moderate temperatures.

The sugar beet crop is above normal in tonnage, while the sugar content is slightly below normal. In some areas the beets were over-irrigated, which caused an excessive growth of top, to the detriment of the root. There was some damage to late cut hay, particularly in the mountain regions by rain which fell almost daily during the latter part of September and early October.

The South Park area had the best hay crop in several years, a nearly normal cut being admitted.

With storage well advanced and the probability of a complete fill good, it appears that the irrigation supplies for next year will be above normal, granted the usual amount of precipitation be had.

A tabulated statement of the Water Commissioners' Annual Reports is included with this report.

I wish to express my appreciation to those who have assisted with the administration of the decretal orders in this division the past year.

Very respectfully submitted,

J. E. WHITTEN,
Special Deputy State Engineer, South Platte.

The Following Is a Statement of Water in Storage in Irrigation Division No. 1, from January 1 to November 1, 1941, Tabulated by Districts. Does Not Include North Park District No. 47, nor the Laramie River Basin District No. 48, as There Is Very Little Storage in Either of These Districts.

By J. E. WHITTEN, Special Deputy

Values in Acre Feet

Dist. No.	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1
1	39,066	59,423	77,659	89,422	84,958	77,011	72,874	50,727	25,009	15,969	25,760
2	20,099	20,708	24,095	29,578	32,640	33,121	46,542	34,124	24,222	13,757	22,698
3	29,561	33,115	38,074	41,991	50,655	70,158	92,082	69,415	40,260	16,156	23,240
4	3,919	7,161	8,233	9,179	17,854	28,552	34,798	27,900	19,011	9,085	8,702
5	3,041	3,751	4,531	5,305	11,183	11,348	18,537	13,504	8,665	4,785	6,605
6	14,169	16,212	17,187	19,967	25,997	32,257	35,231	30,080	26,769	21,979	20,566
7	8,626	7,825	6,930	5,149	5,186	9,399	14,152	14,442	15,754	13,166	13,402
8	17,312	15,783	16,661	17,510	17,507	17,374	17,392	16,980	16,863	17,235	17,380
9	2,224	2,410	2,982	4,325	8,957	8,894	7,489	7,052	4,856	4,329	4,864
23	123,518	123,518	123,500	127,325	134,503	144,949	164,906	164,976	159,881	155,910	157,578
84	32,432	50,370	58,914	68,956	74,086	68,225	63,320	52,277	32,703	17,087	36,459
Totals	293,970	340,076	378,866	425,707	463,526	594,288	567,533	481,477	371,993	289,458	337,254
City of Denver	146,461	144,124	144,011	146,786	152,101	165,082	189,255	188,883	187,323	180,092	182,066
Bal. for Irrig.	147,509	195,952	234,855	278,921	311,425	339,206	378,298	292,594	184,670	109,366	155,188

OPERATION OF 11-MILE CANON RESERVOIR
April 15 to October 1, 1941

	Ac. Ft.
Inflow to Reservoir.....	56,163
Outflow from Reservoir.....	54,051
Difference	2,112
Transferred to 11-Mile, from:	
Williams Fork Tunnel.....	1,468
Moffat Tunnel.....	514
Total transferred to 11-Mile.....	1,982
Shortage to stream.....	130
Reservoir content April 15.....	81,917
Reservoir content Oct. 1.....	81,334
Shortage in Reservoir Oct. 1.....	583
	130
Net shortage in storage Oct. 1.....	453

DIVERSIONS FROM LARAMIE RIVER BY DITCHES IN COLORADO FOR THE YEAR OF 1941

Records of the Office of the State Engineer of Colorado

Name of Ditch	Starting Date	Ending Date	Total Diversion Second Feet	Acre Feet
Biller-Boswell	5-14-41	6-18-41	360.90	715.83
British Crk. No. 1	5- 6-41	6-18-41	18.42	96.04
Brown—(Nun Crk.)	5-15-41	6-18-41	350.92	696.04
Brown—(Porter Crk.)	5- 3-41	6-18-41	80.08	158.83
Ben Warren	No water run			
Brinker	No water run			
Comet	5- 5-41	6-18-41	198.95	216.10
Cabin	5-16-41	6-18-41	69.98	119.16
Detro No. 1	5- 6-41	6-18-41	162.92	323.14
Detro No. 2	5-13-41	5-14-41	.26	.52
Davy	5-17-41	6-18-41	205.56	407.72
Ferguson	5-11-41	6- 8-41	14.32	28.80
Forrester-Brown	5-13-41	6-18-41	195.20	357.18
Forrester No. 1	5- 9-41	6-18-41	103.90	206.08
Forrester No. 2	5-13-41	6-17-41	43.08	85.45
Grace Crk. and Enlg.	5- 6-41	6-18-41	444.54	881.73
Grant	5- 6-41	6-18-41	153.33	304.13
Hills	5-11-41	6-18-41	154.84	307.13
Upper Hills	5-11-41	6-18-41	221.37	439.98
Homestead	5-13-41	6-18-41	142.69	283.02
Homestead No. 1	5-13-41	6-18-41	149.62	296.77
Homestead No. 2	5-13-41	6-18-41	88.10	174.74
Hance	5-13-41	6-18-41	307.68	610.28
Jim—Jimmy Crk.	4-26-41	6-18-41	120.42	238.85
Jimmy and Enlg. Jimmy Creek	5-13-41	6-18-41	134.87	267.50
Jimmy Crk.—Laramie	5-13-41	6-18-41	433.20	859.24
LaGarde and Enlg.	5- 8-41	6-18-41	511.06	1,013.67
LaGarde No. 1	5-15-41	6-18-41	184.73	366.41
Lamb	5-11-41	6-18-41	645.19	1,279.72
Link No. 1	5-20-41	6-18-41	162.10	321.52
Link No. 2	6- 1-41	6-18-41	43.11	85.50
Lone Tree	5-13-41	6-18-41	59.15	117.32
Mansfield and Enlg.	5-12-41	6-18-41	581.29	1,152.80
Mansfield No. 2	5-12-41	6-18-41	506.74	1,005.10
Martin No. 1	5- 8-41	6-18-41	393.91	781.30
Martin No. 2	5-11-41	6-18-41	642.83	1,275.04
McIntyre	5- 5-41	6-18-41	292.84	580.64
Nellie	5-13-41	6-18-41	157.18	311.76
Ollie	5-15-41	6-18-41	93.40	185.26
Pache	5-15-41	6-18-41	413.52	820.20
Parker	5-13-41	6-18-41	188.16	373.20
Pine Crk. and Enlg.	5-15-41	6-18-41	152.47	302.42
Stuck	5-16-41	6-18-41	143.78	285.19
Smith-Brown	5- 9-41	6-18-41	192.78	382.38
Stuart No. 1	5- 1-41	6-18-41	195.06	208.38
Stuart No. 2	5-20-41	6-18-41	88.94	176.40
Stubb	5-16-41	6-18-41	61.73	122.44
Schnitger	5-10-41	6-18-41	245.32	486.58
Trollope	4-29-41	6-18-41	22.25	44.14
Talmadge	5-24-41	6-18-41	52.49	104.10
Timothy	5- 7-41	6-18-41	462.83	918.00
Warren	5-15-41	6-18-41	96.45	191.30
Ward No. 1	4-29-41	6-18-41	73.05	144.80
Ward No. 2	5-15-41	6- 3-41	23.64	60.72
Wright	5- 5-41	6-18-41	653.47	1,296.14
Yelton	5-11-41	6-18-41	711.90	1,412.63
Jim—New Diversion	5- 4-41	6-18-41	44.26	87.79
Roaring Creek	5-30-41	6-18-41	35.53	70.47
Glendevy	6- 8-41	6-18-41	19.02	37.72
Total—Meadow Lands			12,155.54	24,110.00

TRANS-MOUNTAIN DIVERSIONS

Bob Creek	5-18-41	6-17-41	138.10	274.00
Columbine	5-25-41	6-17-41	38.20	76.00
Dead-Man	5-11-41	6-18-41	442.20	877.00
Laramie-Poudre Tunnel	5- 7-41	6-18-41	3,766.00	7,490.00
Skyline	5- 8-41	6-18-41	3,340.00	6,627.00
Lost Lake	5-14-41	6- 7-41	93.82	185.00
Total—Trans-Mountain Diversions			7,828.42	15,529.00
Grand Total			19,983.96	39,639.00

Diversions closed June 18, 1941.

TRANSMOUNTAIN DIVERSIONS

IRRIGATION DIVISION NO. 1 AND INTER-DIVISION 1941

Name of Diversion	Ac. Ft.	From Dist.	To Dist.	Source of Supply	First Day	Last Day
Laramie-Poudre Tunnel	7,495	48	3	Laramie River	May 7	June 18
Skyline Ditch	6,627	48	3	Laramie River	May 8	June 18
Deadman Ditch	877	48	3	Deadman Creek, Trib. Laramie River	May 11	June 18
Lost Lake Ditch	185	48	3	Laramie River	May 14	June 7
Columbine Ditch	75	48	3	Laramie River	May 25	June 17
Bob Creek Ditch	274	48	3	Laramie River	May 18	June 17
Sand Creek Ditch	1,734	48	3	Sand Creek	May 4	June 22
Michigan Ditch	3,404	47	3	No. Platte River	May 14	Aug. 14
Cameron Pass Ditch	287	47	3	No. Platte River	May 21	July 19
Grand River Ditch	19,194	51	3	Colorado River	May 11	Aug. 30
Moffat Tunnel	36,712	51	6	Colorado River	May 5	Oct. 30
Williams Fork Tunnel	8,190	51	7	Colorado River	May 21	Sept. 8
Eureka Ditch	76	51	4	Colorado River	June 15	July 26
Berthoud Pass Ditch	796	51	7	Colorado River	June 7	Aug. 23
Total	86,081					

MOFFAT TUNNEL SUMMARY—1941

	Ac. Ft.	Ac. Ft.
East Portal		36,712
Diverted at Eldorado Springs	32,769	
Used through Ralston Reservoir	23,262	
Used by Exchange:		
Eleven Mile Canon Reservoir	514	
Lake Cheesman	6,589	
Intake	865	
Clear Creek Sales: By Exchange	1,533	
To South Boulder Creek	3,020	
2½% charged for loss in transit	923	
Total accounted for	36,706	
Unaccounted for	6	36,712

WILLIAMS FORK TUNNEL SUMMARY—1941

	Ac. Ft.	Ac. Ft.
Total Diversion at East Portal		8,190
Distribution:		
City of Denver, Exchange at Intake	841	
City of Denver, Exchange at 11-Mile Reservoir	1,468	
City of Denver, Exchange at Lake Cheesman	545	
Total City Use	2,854	
Sales for Agricultural Use	3,991	
Total Use	6,845	
Loss in Transit Charged 5%	410	
Total Accounted for	7,255	
Unaccounted for	935	8,190

CROP REPORT IRRIGATION DIVISION NO. 1 1941

Dist. No.	First Day Water Used from Natural Stream	Last Day Water Used from Natural Stream	No. Acre Feet Used for Season	Total Acres That Can Be Irrigated	Alfalfa	Natural Grass
1	11- 1-40	10-26-41	320,667	183,055	38,680	19,927
2	3- 5-41	10-22-41	338,095	226,539	41,781	10,195
3	4-13-41	10-11-41	304,120	389,160	60,337	4,897
4	4-22-41	10-25-41	180,453	141,505	45,615	410
5	4-28-41	10-21-41	101,895	136,060	44,690	8,880
6	4-14-41	10- 9-41	111,088	195,335	28,527	61,385
7	4- 1-41	10-31-41	128,498	104,530	12,280	1,540
8	3-30-41	10-31-41	137,843	115,514	13,013	1,912
9	4- 5-41	10-21-41	34,712	16,749	4,240	1,783
23	3-18-41	10-31-41	60,000	50,000	.....	40,000
47	4-15-41	8-15-41	102,514	70,000	.....	53,785
48	5-13-41	6-18-41	24,110	5,000	.....	4,600
64	11- 1-40	10-31-41	264,263	188,060	27,364	30,961
65	4- 5-41	10-29-41	11,078	*7,370	758	231
Totals			2,119,336	1,828,877	317,294	240,506

*5,000 acres in Nebraska.

Dist. No.	Cereals	Orchards	Market Gardens	Potatoes	Sugar Beets	Beans
1	57,306	227	132	1,234	15,119	16,660
2	86,154	271	10,322	9,015	32,673	16,018
3	70,203	1,657	3,650	24,672	31,055	7,564
4	61,900	1,385	1,320	8,830	12,845	3,472
5	53,610	500	750	800	17,290	100
6	50,162	628	1,329	145	4,477	430
7	37,000	2,166	6,200	117	1,983	206
8	14,998	124	2,108	80	547	200
9	6,388	87	285	.....	258	.....
23	.....	.....	.....	.....	.....	.....
47	.....	.....	.....	.....	.....	.....
48	.....	.....	.....	.....	.....	.....
64	46,972	1,248	964	2,325	16,463	2,120
65	243	24	38	21	86	.....
Totals	484,936	8,317	27,098	47,239	132,796	46,770

Dist. No.	Peas	Cabbage	Corn	Other Crops	Total Irrigated
1	.....	106	.....	18,293	167,693
2	487	.....	.....	14,045	220,961
3	275	1,349	.....	58,501	264,160
4	1,998	700	2,720	250	141,445
5	150	450	.....	6,490	133,710
6	290	98	17,850	7,495	172,816
7	143	777	11,564	4,348	78,324
8	.....	60	.....	986	34,028
9	.....	80	1,211	45	14,407
23	.....	.....	.....	.....	40,000
47	.....	.....	.....	.....	53,785
48	.....	.....	.....	.....	4,600
64	0	0	13,807	9,056	151,280
65	0	0	1,545	280	73,226
Totals	3,343	3,620	48,727	119,789	1,480,435

†1,976 acres in Nebraska.

ANNUAL REPORT—IRRIGATION DIVISION NO. 1
FOR THE YEAR 1942

November 21, 1942.

Mr. M. C. Hinderlider
State Engineer of Colorado
State Capitol Building
Denver, Colorado.

Dear Sir:

Herein is reported the annual summary of administrative activities of this department in Irrigation Division No. 1, for the year 1942.

The season of 1942 will go on record as one of the best, in that there was ample water to irrigate nearly all of the land under irrigation systems and, as a result, there were very few controversies brought to the attention of this office.

There were no restrictions on storage during the winter months, the demands on the main river being waived by mutual agreement. This resulted in a more efficient storage plan for all concerned, but the benefits of such procedure were not apparent, due to the unusually excessive runoff during April, May and June of 1942, when all reservoirs were filled to capacity, and no order was issued to the Water Commissioners to restrict diversion until July 6th, which, so far as is known, is the latest of record for the first call to be placed. This order was for priority of date 11/20/85, belonging to the Burlington Canal in Water District No. 2.

The streams were strong most of the summer, the most senior order issued being on August 20, for priority of date 10/5/71, belonging to the Evans No. 2 Canal in Water District No. 2. This order was of short duration and on September 22 was raised to 11/20/85, with a few intervening orders having been issued.

On October 15th, all demands were waived and orders were issued accordingly to Commissioners in Water Districts 2, 3, 4, 5, 6, 7, 8, 9, 23, which condition still prevails at the present time, and storage is now in progress at a rapid rate. It appears at this time that most all reservoirs will be full with the beginning of spring irrigation.

The City of Denver had in storage 197,000 acre-feet of water as of November 1st, which is about 93 per cent capacity.

There was 350,255 acre-feet in storage for irrigation as of November 1st, which is about double that of the past five year average.

Some trouble resulted from excessive precipitation during the spring, in that earth dams became saturated and their stability, in many cases, was impaired. The most notable case of this being at Marshall Lake Dam where a large section of the dam

began to slip, and continued to move slowly for some time, during which interval the water was withdrawn from the reservoir from a gage height of 60 feet down to 38 feet.

Plans for repairs to Marshall Lake Dam are prepared, and it is expected to start work soon, the cost of which will probably be about \$125,000.00.

The dam at the Klug Reservoir, on Box Elder Creek, also partially failed by a large section on the downstream side slipping out, but the water was withdrawn from the reservoir before complete failure occurred, and no damage resulted. This dam is to be repaired, but no work has been done up to this time due to shortage of labor and machinery.

An incipient slip occurred at Barr Lake Dam, but this subsided quickly, and it was not necessary to withdraw the water from the lake.

Excessive leakage near the lower toe developed at Empire Reservoir causing sloughing which appeared dangerous, but this was brought under temporary control without drawing out the water, and work is now in progress to permanently repair the damage and eliminate the cause.

The outlet tube of the North Poudre No. 3 Reservoir collapsed near the upper end when the reservoir was full, and difficulty was experienced in drawing out the water, but this was accomplished by use of a vertical caisson, and work is now in progress installing a new outlet tube. The old tube was a 20-inch steel riveted pipe, while the new installation will be of reinforced concrete.

A bad slip occurred in the Bergen Lake dam in Water District No. 9, in June.

It was not necessary to draw the water from the reservoir as the slip occurred after the water had been drawn down from 35 to 30 feet, and as the movement ceased it was considered advisable to draw the water off only as fast as it could be profitably used for irrigation.

No further movement in the dam has occurred, and it is safe to store water to a depth of about 25 feet, but the dam will have to be repaired before storage above that depth will be permitted.

It has been necessary to make special arrangements to furnish water to the Remington Arms Plant, and the Rocky Mountain Arsenal, and this has been done without serious difficulty by the cooperation of irrigation companies and the City of Denver Water Department.

Trans-mountain diversions in Division No. 1 were not operated to capacity as there was ample water in the streams on the eastern side of the Divide until late in the season, consequently the amount diverted by the trans-mountain ditches was considerably below normal.

Precipitation in the Division was generally above normal, there being an excess of 5.44 inches at the Fort Collins station,

and a deficiency of 0.13 inches in Jackson County, up to November 1st. The excess precipitation occurred principally east of the Continental Divide. There were a few hail storms in the South Platte Valley, but damage was not severe. The heavy runoff in the South Platte Valley began April 17th and continued at flood stage for nearly two months, the flow at Denver varying from 7,000 to 10,000 second feet.

The seepage return flow to the South Platte River is higher than it has been for several seasons, there being an average return flow of about six cubic feet per second per mile. The increased return flow is due to the heavy precipitation during the past season, whereby there resulted a plentiful supply of irrigation water.

The crops in the Division were excellent in most all sections, with an increased sugar beet acreage. There has been a growing shortage of farm labor due to the demands incident to the war effort; however, it appears that little loss of crops will result this season from this cause, but may bring about a curtailment of planting next year if the situation continues to grow worse.

Administrative procedure on the Laramie River was varied this year, in accordance with an agreement entered into between the users of water from the Laramie River wherein it was agreed to divide the Colorado allocation equally between the Meadowland users and the trans-mountain diversions.

The Meadowland users were individually allotted an amount in accordance with their irrigated acreage, to be diverted when and as they chose.

The benefit resulting from this method of administration is considerable, there being 3,600 tons of hay harvested as compared to 2,800 tons in 1941.

It is anticipated that the agreement in effect in 1942 will be continued another season, as all concerned have been well pleased with results obtained.

The prospects for a plentiful water supply the coming season are favorable, considering the large quantity of water in storage at this time.

I wish to express my appreciation to all those who assisted with the administration in this division the past season.

Very respectfully submitted,

J. E. WHITTEN,
Special Deputy State Engineer, South Platte.

TRANS-MOUNTAIN DIVERSIONS

Irrigation Division No. 1, 1942

Name of Diversion	Ac. Ft.	From Dist.	To Dist.	Source of Supply	First Day	Last Day
Deadman Ditch	0	48	3	Deadman Creek, Trib. Laramie River		
Laramie-Poudre Tunnel	10,242	48	3	Laramie River	5-22	8-31
Skyline Ditch	8,334	48	3	Laramie River	5-22	9-27
Sand Creek Ditch	0	48	3	Sand Creek		
Lost Lake	409	48	3	Laramie River	5-23	7-11
Columbine Ditch	0	48	3	Laramie River		
Bob Creek Ditch	219	48	3	Laramie River	5-27	6-11
Michigan Ditch	786	47	3	No. Platte River	6-29	8-1
Cameron Pass Ditch	0	17	3	No. Platte River		
Grand River Ditch	20,149	51	3	Colorado River	5-25	8-28
Moffat Tunnel	10,793	51	6-7	Colorado River	7-6	10-23
Williams Fork Tunnel	1,595	51	7	Colorado River	7-20	9-17
Berthoud Pass Ditch	261	51	7	Colorado River	7-9	8-31
Eureka Ditch	0	51	4	Colorado River		
Boreas Pass Ditch	0	36	23	Colorado River		

MOFFAT TUNNEL SUMMARY

	Ac. Ft.
East Portal	10,793
Diverted at Eldorado Springs	10,439
Used through City Lines	10,439
Charged for loss in transit	270
Total accounted for	10,709
Unaccounted for	84

WILLIAMS FORK TUNNEL SUMMARY

East Portal	1,595
Diverted:	
To Remington Arms Plant	710
For agricultural use	805
Charged for loss in transit	80
Total accounted for	1,595

The Following Is a Statement of Water in Storage in Irrigation Division No. 1, from January 1, to November 30, 1942, Tabulated by Districts. Does Not Include North Park District No. 47, Laramie River Basin District No. 48, nor District No. 65, as There Is Very Little Storage in Any of These Districts.

Values in Acre Feet

Dist. No.	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1
1	74,983	87,801	99,451	120,626	131,728	137,502	135,637	92,944	49,933	30,585	59,401
2	49,763	57,015	65,556	69,690	91,878	89,755	87,116	67,104	46,799	25,351	40,654
3	37,472	38,753	42,753	49,006	83,086	127,817	158,670	132,840	74,081	49,284	82,903
4	12,772	13,642	13,791	15,426	37,308	70,105	94,294	76,822	54,045	41,298	54,445
5	9,479	10,347	11,319	12,717	24,936	30,385	31,986	26,682	17,538	12,880	18,210
6	21,856	20,183	19,286	20,635	27,025	28,536	31,232	26,744	21,151	17,493	18,252
7	9,763	8,780	8,277	7,577	11,565	14,396	16,500	11,736	16,708	10,026	10,649
8	16,029	16,776	17,027	16,992	15,971	14,374	16,400	15,465	13,786	14,618	15,912
9	6,004	6,128	6,200	6,762	8,466	8,911	6,588	5,388	4,135	3,476	4,000
23	161,426	162,000	163,000	164,054	176,835	180,886	185,459	185,400	177,519	172,394	172,186
64	62,422	76,084	89,004	104,117	118,920	122,001	121,610	102,435	69,756	53,159	69,741
Totals	461,969	497,509	535,664	587,512	727,718	825,268	*879,492	743,060	539,512	430,564	546,353
City of Denver	185,258	185,494	185,061	184,487	194,716	202,200	204,787	208,496	199,005	194,339	196,098
Bal. for Irrig.	276,711	312,015	350,603	403,025	533,002	623,068	674,705	534,564	340,507	236,225	350,255

*Maximum storage to date.

DIVERSIONS FROM LARAMIE RIVER BY DITCHES IN COLORADO FOR THE YEAR OF 1942

Records of the Office of State Engineer of Colorado

Name of Ditch	Total Diversion Acre Feet
Biller-Boswell	686.1
British Crk. No. 1	49.2
Brown-Nunn Crk.	533.9
Brown-Porter Crk.	109.8
Ben Warren	0
Brinker & Lanning (Chas. E.)	0
Cabin	61.4
Comet	325.5
Davy & Forrester	301.8
Detro No. 1	127.1
Detro No. 2	0
French Woman	36.0
Ferguson	0
Forrester—Brown	358.6
Forrester No. 1	405.3
Forrester No. 2	0
Glendevey	82.6
Grace Crk. and Enlg.	1,416.0
Grant	114.4
Hills	97.0
Upper Hills	78.9
Homestead	206.7
Homestead No. 1	232.1
Homestead No. 2	145.3
Hance	90.1
Jim	321.0
Jim No. 2	150.9
Jimmy and Enlg. (River)	173.0
Jimmy (Jimmy Crk.)	396.6
LaGarde and Enlg.	618.2
LaGarde No. 1	0
Lamb	962.2
Link No. 1	615.5
Link No. 2	0
Lone Tree	0
Mansfield and Enlg.	926.2
Mansfield No. 2	971.1
Martin No. 1	924.8
Martin No. 2 and Enlg.	823.2
McIntyre	459.9
Nellie & Thompson	324.3
Ollie	510.1
Pache	727.6
Parker	0
Pine Creek and Enlg.	68.0
Roaring Creek	262.4
Stuck	297.5
Smith-Brown	355.0
Stuart No. 1	146.2
Stuart No. 2	133.8
Stubb	79.1
Schnitger	406.3
Trollope	109.9
Talmadge No. 1	110.4
Talmadge No. 2	0
Timothy	1,354.8
Ward No. 1	213.3
Ward No. 2	56.9
Warren	31.0
Wright	1,158.6
Yelton	773.1
Total—Meadow Lands	19,918.7

TRANS-MOUNTAIN DIVERSIONS

Skyline Ditch	8,334
Laramie-Poudre Tunnel	10,242
Lost Lake	409
Bob Creek Ditch	219
Columbine Ditch	0
Deadman Ditch	0
Total—Trans-Mountain Diversions	19,204
Grand Total Diverted—Acre Feet	39,123

CROP REPORT
IRRIGATION DIVISION NO. 1
1942

Dist. No.	First Day Water Used from Natural Stream	Last Day Water Used from Natural Stream	No. Acre Feet Used for Season	Total Acres That Can Be Irrigated	Alfalfa
1	5-11-42	10-15-42	334,539	176,229	38,275
2	5-11-42	10-19-42	331,215	226,000	36,900
3	5-12-42	10-17-42	389,632	389,160	55,997
4	5-9-42	10-18-42	200,606	149,210	44,080
5	5-10-42	10-23-42	103,761	148,970	49,620
6	5-10-42	10-13-42	106,471	195,335	28,185
7	4-12-42	10-31-42	155,041	119,565	12,975
8	11-1-41	10-31-42	119,164	112,000	12,882
9	5-12-42	10-31-42	33,089	17,000	4,495
23	5-10-42	8-15-42	.....	50,000	.....
47	5-10-42	8-31-42	.....	70,000	.....
48	5-14-42	10-31-42	19,919	5,000	.....
64	11-1-41	10-31-42	204,243	188,738	29,691
65	5-21-42	10-28-42	11,262	*7,355	659
Totals			2,008,942	1,854,562	313,759

*5,000 acres in Nebraska.

Dist. No.	Natural Grass	Cereals	Orchards	Market Gardens	Potatoes
1	19,900	35,897	154	128	1,180
2	9,995	65,055	265	10,275	8,895
3	4,809	70,302	1,658	3,742	27,179
4	270	62,225	1,935	1,030	6,577
5	9,730	60,170	500	1,000	800
6	61,125	48,880	628	1,688	150
7	1,607	47,265	1,749	10,023	123
8	2,178	7,650	104	1,963	40
9	1,693	6,034	82	225	25
23	40,000	.....	.....	.....	.....
47	60,500	.....	.....	.....	.....
48	4,845	(3600 tons of native hay)	.....	.....	.....
64	31,155	45,627	148	1,080	1,933
65	135	145	23	36	26
Totals	247,942	449,250	7,246	31,190	46,928

Dist. No.	Sugar Beets	Beans	Cabbage	Corn	Other Crops	Total Acres Irrigated
1	19,542	17,220	71	22,978	7,797	163,142
2	30,974	13,435	1,677	10,000	630	188,101
3	47,964	6,037	1,136	20,000	25,336	264,160
4	17,195	3,677	856	2,540	2,195	142,580
5	20,280	550	550	3,000	2,620	148,820
6	4,989	420	82	18,644	8,215	173,000
7	2,133	440	978	5,882	5,177	88,352
8	699	60	40	600	306	26,522
9	340	190	80	1,232	0	14,396
23	.....	.....	.....	.....	.....	40,000
47	.....	.....	.....	.....	.....	60,500
48	.....	.....	.....	.....	.....	4,845
64	21,353	2,610	.....	11,080	6,507	151,184
65	152	.....	.....	1,568	407	13,151
Totals	165,621	44,639	5,470	97,524	59,190	1,468,759

†1,621 acres in Nebraska.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 2 FOR THE SEASON OF 1941

Pueblo, Colorado, Dec. 3, 1941.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

The winter season of 1940 and 1941 was mild, irrigation consumed all the river flow and there was none for storage. Many of the older canals were able to irrigate all their land so that it came through the winter in good condition for spring farming.

The past season was a good one for irrigation water. During the month of March we had a surplus of moisture, April was below the average but during May we again had an excess. Crops had a good start and there was plenty of water for everyone with a surplus for storage.

The snowfall in the mountains was below the average on March 1st. There was an almost continuous fall of snow on the high ranges from March 1st to May 1st which was most unusual and which resulted in a large deposit of snow and a splendid run of snow water through May and June.

The following table shows the rainfall by months for the irrigation season and the average rainfall for the last 50 years:

Nov. 1940	Dec. 1940	Jan. 1941	Feb. 1941	Mar. 1941	Apr. 1941	May 1941	June 1941	July 1941	Aug. 1941	Sept. 1941	Oct. 1941	Total
0.90	0.42	0.34	0.26	1.59	0.91	1.74	2.83	2.06	3.28	1.72	0.36	16.51
Average:												
0.36	0.50	0.31	0.47	0.59	1.31	1.60	1.36	1.94	1.82	0.75	0.66	11.67

Insect pests were less numerous than in former years. There were some destructive hail storms which covered considerable areas.

There was a total of 42,537 acre-feet of transmountain and reservoir water run during 1941 on which a carrying charge of 4,472 acre-feet was made.

The total discharge of the Arkansas River at Pueblo was 115 per cent of the average flow for the past 45 years.

There was plenty of water for reservoir filling and practically all were filled with the exception of those of one large system that met with disaster to their inlet canal and were not able to secure the water due them.

On May 1, 1941, there was a total of 68,680 acre-feet in storage reservoirs divided as follows: For irrigation 54,448 acre-feet. For manufacturing purposes 11,041 acre-feet, and for municipal use 3,191 acre-feet. The average in storage for May 1st for the past 21 years is 169,495 acre-feet.

On November 1, 1941, there was a total of 270,526 acre-feet in storage divided as follows: For irrigation 246,664 acre-feet. For

manufacturing purposes 13,126 acre-feet, and for municipal use 10,736 acre-feet. The average for November 1st is 124,372 acre-feet.

Water was abundant during the fall months and a surplus was passed to Kansas.

The Caddoa Reservoir, which is being constructed by the U. S. Army Engineers, was fifty per cent completed in August, 1941. If nothing happens to stop the work it should be ready for storage of water by 1943. This will further complicate the administration of the river and will call for more records and more help to secure them.

Hereto attached is a tabulation of the Water Commissioners' crop reports and a table giving the amount of water in storage on the first of each month for each of the major reservoirs.

Respectfully submitted,

C. W. BEACH,
Division Engineer Irrigation Division No. 2.

Number of District	1	2	3	4	5	6	7	8	9	10	11	12	13	Irrigated That Can Be	Number of Acres Irrigated
10	658	658	.....	.....	.....	Jan. 21	Oct. 8, 1941	275	339	5846	178	59,376	31,955	18,732	.....
11	1,275.5	1,275.5	.....	.....	.....	Feb. 21	Oct. 31, 1940	282	61	42,529	850	340,480	100,140	34,354	.....
12	715.9	715.9	.....	.....	.....	Nov. 1, 1940	Oct. 31, 1941	322	53	1,230	105,673	448,014	17,537	21,572	.....
13	532.83	532.83	.....	.....	.....	Nov. 15	Oct. 31, 1941	128	41	1,752	307.02	338,878	17,537	17,537	.....
14	1,951.41	1,951.41	.....	.....	.....	Nov. 1, 1940	Oct. 31, 1941	328	147	12,337	157.2	338,504	118,490	15,633	.....
15	2,226.05	2,226.05	.....	.....	.....	Nov. 1, 1940	Oct. 31, 1941	322	.....	.....	133.47	42,568.22	33,025	95,677.6	.....
16	1,888.02	1,888.02	.....	621.7	.....	Mar. 5	Oct. 20	503	.....	.....	62.9	108,006	114,461	5,659	.....
17	21,338.87	16,212	.....	.....	.....	Nov. 3, 1940	Oct. 31, 1941	352	185	13,422	1,075.6	458,389	254,785	8,541	.....
18	.....	.....	.....	.....	.....	Apr. 3	Aug. 30	30	80	.....	114	1,372	50,845	.....
19	1,850.77	1,850.77	.....	.....	.....	Nov. 1, 1940	Oct. 31, 1941	330	133	6,650	222.6	65,247	50,845	.....
66	.....	.....	.....	.....	.....	Nov. 1, 1940	Oct. 31, 1941	150	32	5,148	385.85	200,373	.....	.....
67	2,235.76	1,865.7	.....	.....	.....	Nov. 1, 1940	Oct. 31, 1941	365	32	5,148	385.85	200,373	.....	.....
Total	33,017.37	25,731	621.7	.....	.....	.....	.....	118,101	5,696.87	2,081,691.22	673,075	.....	.....	.....	.....
Number of District	10	11	16	16	17	18	21	22	23	24	25	26	27	Total Irrigated	498,259.53
	3,270	4,579	3,271	10,199	237	361	687	1,607	966	16	830	977	18,732	18,732	.....
	5,929	13,861	10,199	237	41	90	197	.....	.....	3,199	.....	533	34,354	34,354	.....
	5,381	2,379	6,360	3,369	3,863	345	160	115	.....	205	.....	2,241	21,572	21,572	.....
	995	16,227	1,889	5	5	72	1	.....	.....	25	.....	92	17,537	17,537	.....
	28,102.8	5,116.2	26,436	361	361	2,709	9,879.5	700.6	.....	1,095	.....	4,466.7	95,677.6	95,677.6	.....
	1,384.5	1,752.5	1,752.5	10	10	16	68.5	.....	.....	18	.....	.....	5,659	5,659	.....
	17,468	18,955	14,480	131	169	1,386	.....	.....	.....	2,526	.....	2,381	56,956	56,956	.....
	59,337	1,873	35,971	102	1,071	12,304	12,304	7,898	.....	2,656	.....	2,656	152,953	152,953	.....
	812	279	1,311	5	5	.....	.....	.....	.....	146	.....	.....	27,772	27,772	.....
	5,198	6,857	7,804	42	42	121	1,386	.....	.....	3,300	.....	.....	27,079	27,079	.....
	180	.....	50	.....	.....	392	2,664.5	.....	.....	552	.....	.....	346	346	.....
	17,686	1,301	22,105	.....	.....	5,346	29,650.8	916.6	966	13,969	38,877.75	16,672.2	64,626.93	64,626.93	.....
Totals	146,743.3	72,610.2	131,628.5	4,889	4,889	5,346	29,650.8	916.6	966	13,969	38,877.75	16,672.2	64,626.93	64,626.93	498,259.53

Number District	Dec. 1941	Jan. 1941	Feb. 1941	Mar. 1941	Apr. 1941	May 1941	June 1941	July 1941	Aug. 1941	Sept. 1941	Oct. 1941	Nov. 1941
10 Fountain No. 2	532	532	606	606	606	1,014	2,076	3,428	3,428	4,144	4,144	4,898
10 Fountain No. 3	170	170	200	200	200	46	46	46	36	133	88	288
10 Spring Run No. 2	116	163	181	181	192	164	192	195	192	192	192	164
10 Calahan	85	85	85	85	85	449	449	449	449	449	449	449
10 Cheyenne Mountain	36	36	36	36	36	189	266	266	266	266	266	226
10 Monument (State)	196	169	169	169	169	447	404	404	404	404	404	404
11 Sugar Loaf	2,947	2,947	3,128	3,128	3,583	5,172	12,628	17,090	16,967	11,475	11,475	12,258
11 Twin Lakes	10,819	11,725	16,721	16,721	11,213	11,226	23,117	54,404	54,473	35,069	29,606	32,169
11 Clear Creek	1,716	1,716	776	776	776	431	431	870	9,235	7,189	7,186	7,216
12 Skaguay	1,153	1,098	862	755	654	1,415	1,831	2,468	2,937	2,695	2,374	2,216
12 Mount Pisgah	358	397	397	578	634	839	1,283	2,468	2,468	2,468	2,468	2,630
12 Brush Hollow	230	260	461	567	1,008	2,353	3,165	4,973	2,986	2,694	2,617	2,989
12 City Colorado Springs	1,934	1,374	1,374	1,374	1,374	1,388	3,165	4,357	2,989	4,985	5,916	5,916
13 Deweese-Dye	168	487	708	708	1,063	793	1,011	4,357	4,357	3,688	3,151	3,327
13 Teller	881	848	831	765	726	2,040	1,917	1,393	1,772	1,611	1,773	1,672
14 Lake Henry	1,349	1,180	1,025	996	996	2,275	5,229	21,252	20,250	16,469	18,421	33,000
14 Lake Meredith	0	0	0	0	0	0	0	0	0	0	0	0
15 Beckwith	153	175	175	225	221	428	782	329	762	661	528	661
15 Lake Isabel	1,040	1,040	1,040	1,040	1,041	1,011	1,036	1,046	356	927	1,323	780
15 Minnequa	1,316	1,337	1,297	1,301	1,322	1,436	1,320	1,358	1,252	1,252	1,252	1,351
15 C. F. & I. No. 3	2,641	2,638	2,651	2,701	2,701	2,696	2,681	2,732	2,733	2,733	2,733	2,719
15 C. F. & I. No. 3	4,781	3,529	3,876	4,233	4,170	5,347	5,471	5,497	5,531	5,531	5,531	5,406
16 Coler	0	0	0	0	0	0	0	0	0	0	0	0
16 Cochran	322	419	419	322	4,170	3,105	982	1,305	871	589	521	681
16 Bradford	0	0	0	0	0	0	0	0	0	0	0	0
16 Huerfano Valley	0	0	0	0	322	691	1,843	2,422	1,671	1,180	1,339	1,639
16 Crane Holmes	0	0	0	0	0	0	0	0	0	0	0	0
16 Lindsley Lake	0	0	0	0	0	0	158	379	195	158	158	379
16 Holita	0	0	0	0	0	0	0	0	0	0	0	0
16 Valdez	0	0	0	0	0	0	1,007	1,375	1,444	1,141	1,117	1,222
16 Dotson	0	0	0	0	0	0	2,308	3,056	2,835	2,832	2,721	3,094
17 Dye	0	0	0	0	0	261	5,133	5,167	5,201	5,201	5,201	4,023
17 Horse Creek	0	0	0	0	0	1,677	7,008	22,117	22,591	17,618	17,298	18,792
17 Adobe Creek	0	0	0	0	0	0	0	0	0	0	0	0
17 Seven Lakes	0	0	0	0	0	0	0	0	0	0	0	0
18 Model	2,697	2,697	2,817	2,823	3,176	9,245	9,627	800	400	400	100	0
19 Monument Lake	0	0	0	0	0	0	0	9,627	9,246	8,972	9,572	9,245
19 Hermosa	246	246	246	246	246	457	1,268	1,268	1,268	1,268	1,268	1,268
19 North Lake	817	847	817	736	655	850	850	850	850	850	850	850
67 Nee Noshoe	0	0	0	0	0	0	0	0	0	0	0	0
67 Nee Sopah	0	0	0	0	0	0	0	0	0	0	0	0
67 Nee Skab (Queen)	0	0	0	0	0	0	0	0	0	0	0	0
67 Two Buttes	6,305	6,210	6,305	6,210	6,210	6,257	7,315	1,752	22,781	23,434	21,639	22,407
67 Thurston	0	0	0	0	0	0	0	0	8,222	9,609	5,317	9,817
67	0	0	0	0	0	0	0	515	1,268	469	529	439

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 2 FOR THE SEASON OF 1942

Pueblo, Colorado, Dec. 30, 1942.

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

The irrigation season of 1941 closed with all reservoirs well filled and the ground thoroughly soaked.

The spring of 1942 opened favorably with the soil in good condition and most crops sprouted without irrigation, which was of great advantage. During the spring months we were well supplied with rain and at no time during the season did the crops suffer for want of water.

On April 24th there were heavy rains over most of the Arkansas River drainage. They were especially heavy over the Purgatoire drainage and caused one of the largest floods known in the Purgatoire River since the flood of October, 1904. The peak of the flood has been estimated at 50,000 second-feet. It caused much damage to irrigation canals in the Trinidad area and near the mouth of the Purgatoire River. The Caddoa Dam retained a large portion of this flood water and saved much of the lands below the reservoir from damage.

The snowfall in the mountains was up to average and coupled with the rainfall gave a good run of water in May and June.

The following table shows the rainfall by months for the irrigation season of 1942 and a comparison with the average rainfall for the past 50 years, at the Pueblo Station:

Nov. 1941	Dec. 1941	Jan. 1942	Feb. 1942	Mar. 1942	Apr. 1942	May 1942	June 1942	July 1942	Aug. 1942	Sept. 1942	Oct. 1942	Total
0.23	0.47	0.11	0.45	0.88	6.17	0.92	2.88	1.10	1.58	1.76	1.94	18.49
Average:												
0.36	0.50	0.31	0.47	0.59	1.31	1.60	1.36	1.94	1.82	0.75	0.66	11.67

The rainfall was 6.97 inches in excess of the average or 59.4 per cent above the average.

Insect pests were less numerous than in former years. There were several very destructive hail storms in different parts of the valley that covered considerable areas.

The transmountain diversions were not operated to full capacity on account of lack of storage space and demand for the water during the irrigation season. Four out of the seven transmountain ditches carried no water at any time during the season. The largest one, the Twin Lakes Tunnel, did not operate for 37 days during the heaviest part of the runoff season on account of excess water on the eastern slope.

The discharge of the Arkansas River for 1942 was the largest we have had in the last 48 years since records have been kept. At the Pueblo station the discharge was approximately 935,000 acre-feet, which was 180 per cent of normal. The average at the Pueblo station is 518,000 acre-feet. Contrasted with the flow for the year 1934, which was 31.6 per cent of the average, we have a range of 148.4 per cent. These figures give one an idea of the great variation of stream flow available for irrigation and emphasizes the necessity for storage on a large scale to equalize the irrigation water to cover the years of short supply.

On May 1st there was a total of 331,848 acre-feet in storage for all purposes. The average in storage for the past 22 years is 176,874 acre-feet. On November 1st there was a total of 268,387 acre-feet in storage. The average for November 1st for the past 22 years is 130,918 acre-feet. The largest percentage of this water is for irrigation purposes.

Water has been abundant during the fall months and much has been passed to Kansas. There has been but little irrigation practiced since October 15th and the owners of reservoirs have helped themselves.

The Caddoa Reservoir is almost completed and is in a position to store some water in 1943. The contractors are now awaiting the manufacture of steel gates which has been delayed by war demands.

Hereto attached is a tabulation of the Water Commissioners' annual crop reports and also a tabulation of the water in reservoirs on the first of each of the twelve months during the irrigation season of 1942.

Respectfully submitted,

C. W. BEACH,
Division Engineer of Irrigation Division No. 2.

Number of District	Amount Appropriated in Second Foot	Capacity of Ditches in Second Foot	Length of Main Ditches in Miles	First Day Water Was Used from Natural Stream	Last Day Water Diverted from Natural Stream	Maximum Number of Days Water Diverted from Natural Stream	Maximum Number of Days Water Diverted from Reservoirs	Amount of Water Carried from Reservoirs in Acre Feet	Average Daily Amount Diverted from Stream, Sec.-Ft.	Number of Acre Feet Diverted from Natural Stream During Season	Number of Acres That Can Be Irrigated	Alfalfa	Irrigated Pasture
10	630.23	.....	.....	Feb. 7	Nov. 12	274	164	5,392	171.48	42,044	26,109	3,540	687
11	1,464.74	.....	.....	Mar. 1	Oct. 31	365	58	1,955.31	107.65	107,651	39,630	1,092	1,410
12	761.42	.....	.....	Nov. 1, 1941	Oct. 31, 1942	298	113	2,773	.....	29,450	29,450	5,600	.....
13	466.80	.....	.....	May 1	Sept. 20	143	.....	.....	291.34	39,881	18,013	1,324	.....
14	1,978.5	.....	.....	Nov. 1, 1941	Oct. 31, 1942	365	150	1,290	250	341,210	117,538	30,036	.....
15	2,222.6	.....	.....	Nov. 21, 1911	Oct. 31, 1942	343	.....	.....	1,262	39,529	12,953	2,215	.....
16	1,541.4	.....	.....	Nov. 1	Oct. 31	167	.....	.....	1,113	26,035	114,241	16,545	.....
17	21,538	.....	.....	Nov. 1	Oct. 31	345	.....	.....	1,113	601,608	255,200	59,837	1,599
18	368.79	.....	.....	Nov. 1	Oct. 31	30	1	120	86	1,370	8,516	971	.....
19	1,851.86	.....	.....	Nov. 1, 1941	Oct. 31, 1942	272	355	5,890	155.6	.....	71,082	4,626	9,345
67	2,239.86	.....	.....	Nov. 1, 1941	Oct. 31, 1942	330	.....	11,733	558.75	230,025	.....	14,301	.....
Total	33,054.20	.....	.....	.....	.....	29,108	.....	5,917.51	1,818,520.34	692,732	142,143	13,306	.....

Number of District	Natural Grasses	Orchards	Head Lettuce, Cauliflower, Cabbage	Potatoes	Onions	Melons	Sugar Beets	Corn	Peas and Beans	(Sorghum, Maize, Other Crops)	Total Irrigated
10	4,323	156	10	133	.....	.....	912	2,746	5	208	17,833
11	13,153	236	426	153	.....	.....	.....	3,001	.....	1,299	36,184
12	2,408	3,319	603	.....	.....	.....	133	.....	.....	1,911	20,824
13	15,054	.....	10	.....	.....	.....	.....	.....	.....	130	18,704
14	8,380	378	.....	.....	3,219	1,335	15,139	.....	.....	1,694	103,335
15	1,971	.....	.....	.....	.....	.....	72	.....	.....	.....	6,354
16	18,360	.....	.....	.....	.....	.....	.....	100	.....	.....	51,190
17	1,599	266	.....	.....	3,114	2,168	13,676	16,371	4,001	17,450	156,196
18	371	.....	.....	.....	.....	.....	.....	.....	400	.....	3,594
19	.....	126	.....	.....	.....	.....	1,743	.....	1,845	.....	29,209
67	1,392	560	.....	.....	.....	91	1,595	1,649	521	9,558	58,472
Total	67,026	4,943	436	153	6,363	3,605	36,474	23,969	16,806	27,072	501,998

No. District	Name of Reservoir	Nov. 1941	Dec. 1941	Jan. 1942	Feb. 1942	Mar. 1942	Apr. 1942	May 1942	June 1942	July 1942	Aug. 1942	Sept. 1942	Oct. 1942
10	Fountain Valley No. 2	4,898	4,898	4,645	5,076	4,898	4,898	4,898	4,395	4,898	4,898	4,395	4,144
10	Fountain Valley No. 3	288	288	547	547	405	547	547	288	547	195	405	254
10	Spring Run No. 2	164	192	207	181	181	192	192	181	181	181	181	395
10	Calahan	449	449	449	449	3,834	3,834	3,834	3,23	449	383	383	383
10	Cheyenne Mountain	226	308	308	266	189	189	189	189	155	155	189	489
10	Monument	404	404	404	404	404	652	404	404	404	404	404	404
11	Sugar Loaf	12,258	12,667	12,768	13,080	13,198	13,198	13,881	16,601	16,682	15,259	13,614	13,307
11	Twin Lakes	33,265	33,265	33,365	35,009	35,472	35,945	37,504	49,557	54,518	51,567	48,560	46,260
11	Clear Creek	7,498	8,301	8,301	8,301	8,301	8,301	8,301	3,365	9,425	9,425	2,744	2,842
12	Skarway	2,216	1,889	1,218	822	420	261	261	2,658	2,820	694	479	905
12	Mount Pisgah	2,630	2,630	2,630	2,630	2,630	2,630	2,165	1,541	1,160	2,348	2,116	1,903
12	Brush Hollow	2,986	2,960	2,960	3,005	3,149	3,149	3,941	3,860	3,395	2,348	5,195	5,180
12	City Colorado Springs	4,980	4,980	4,960	4,143	3,960	3,735	3,563	4,345	4,814	5,195	4,326	4,326
13	Dye-Deeweese	1,327	4,326	4,326	4,326	4,326	4,326	4,326	4,326	4,326	4,326	2,755	2,457
14	Teller	1,672	1,519	1,552	1,528	1,505	1,471	3,014	3,014	3,014	6,623	7,036	6,416
14	Lake Henry	3,858	3,912	6,110	5,913	5,716	5,716	5,614	6,623	6,933	6,623	7,036	6,416
14	Lake Meredith	33,036	33,420	34,840	33,840	33,840	35,043	33,249	34,561	31,441	22,396	23,739	22,739
15	Hayden	661	645	706	717	770	922	959	851	925	753	777	777
15	Lake Isabel	780	791	882	997	1,041	1,042	1,047	1,061	1,061	1,255	1,043	1,015
15	Minnesota	1,351	1,293	1,293	1,680	1,875	1,333	1,368	1,268	1,293	1,255	1,163	1,140
15	C. F. & I. No. 2	2,749	2,686	2,639	2,612	2,684	2,737	2,635	2,640	2,677	2,677	2,651	2,709
15	C. F. & I. No. 3	5,326	5,470	4,886	2,661	4,006	4,006	3,922	4,365	4,596	3,760	4,222	4,745
16	Coler	6,681	982	1,538	2,573	3,156	4,130	5,219	5,219	4,482	3,795	3,159	3,471
16	Cueharris	23,007	23,851	23,721	23,721	24,370	25,020	25,669	25,669	25,669	25,669	23,072	15,235
16	Bradford	0	0	0	0	0	0	0	0	0	0	0	0
16	Huerfano Valley	1,699	1,699	1,671	1,671	1,728	1,962	1,962	1,960	1,813	1,614	1,813	1,557
16	Gracie-Holmes No. 1	0	0	0	0	0	0	0	0	0	0	0	0
16	Lindsay Lake	379	379	379	379	379	379	379	379	379	379	232	158
16	Holita	0	0	0	0	0	0	0	0	0	0	0	0
16	Valdez	0	0	0	0	0	0	0	0	0	0	0	0
16	Dutton	3,094	1,222	1,222	1,222	1,222	1,222	1,222	1,398	1,398	2,550	1,441	1,441
17	Dye	4,000	3,019	2,908	2,882	2,882	2,882	2,882	2,673	2,799	2,550	2,709	2,371
17	Holbrook No. 1	4,000	4,997	4,921	4,806	5,044	5,180	5,180	5,180	5,065	4,598	4,729	3,777
17	Horse Creek	18,792	19,911	11,440	13,006	12,177	11,623	11,623	6,746	21,283	18,720	19,717	16,764
17	Adobe Creek	50,976	50,976	50,976	53,209	53,906	56,855	58,255	54,326	59,156	57,531	56,601	56,601
17	Seven Lakes	0	0	0	0	0	0	0	1,000	800	400	300	350
18	Model	9,245	9,351	8,701	8,378	8,701	9,136	9,136	7,664	6,658	5,298	1,780	3,722
19	Nermosa	850	850	842	857	852	852	850	850	850	850	850	850
19	North Lake	1,268	1,268	1,283	1,283	1,283	1,286	850	1,286	1,414	1,414	1,414	1,429
67	See No. 1	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 2	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 3	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 4	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 5	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 6	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 7	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 8	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 9	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 10	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 11	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 12	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 13	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 14	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 15	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 16	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 17	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 18	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 19	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 20	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 21	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 22	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 23	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 24	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 25	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 26	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 27	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 28	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 29	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 30	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 31	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 32	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 33	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 34	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 35	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 36	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 37	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 38	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 39	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 40	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 41	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 42	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 43	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 44	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 45	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 46	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 47	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 48	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 49	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 50	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 51	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 52	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 53	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 54	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 55	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 56	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 57	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 58	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 59	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 60	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 61	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 62	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 63	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 64	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 65	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 66	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 67	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 68	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 69	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 70	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 71	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 72	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 73	0	0	0	0	0	0	0	0	0	0	0	0
67	See No. 74	0	0	0	0	0							

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 3 FOR THE SEASON OF 1941

Mr. M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

Following is a tabulated list of irrigation activities in this division, including stream flow, reservoir storage, diversion to ditches and canals, and crop conditions.

Soil conditions in the early spring were unfavorable for early planting on account of excessive moisture and resulted in a late start for most crops, especially potatoes and vegetables.

Low temperature prevailed during the entire season with killing freezes in June and September, while July had a low of 36° and August 32°.

The September freeze was the most destructive, killing potato vines and cutting off 30 days growth, which resulted in a 25% loss in yield. The heaviest loss, however, was to market vegetables. Just when the market garden pea crop was at its peak, as to production and price, the freeze came which terminated harvesting. Cauliflower also suffered from the freeze, but with these handicaps our carload shipment would have broken an all time record had it not been for the most devastating hail storms in the history of the Valley. One 5x30 miles left total ruin in its wake. This was through the richest vegetable district. Another storm, 3½ to 5 miles wide and 35 miles long, destroyed vegetables, grain and hay. Still another storm did immense damage to crops in another part of the valley. It is estimated that the loss was \$1,000,000. Three hundred fifty square miles affected. Another disaster visited the Valley in the way of a flood, causing a \$25,000 loss to crops under the Conejos and San Antone rivers as well as the loss of headgates, diversion dams, soil erosion and roads. A survey showed the loss to be \$65,180.

Stream flow under all water sheds in the district was above normal. 1,635,840 acre-feet diverted to ditches and canals is an all time high while storage in all reservoirs on November 1st, 113,183 acre-feet, is another high record. The amount of water carried from reservoirs during the irrigation season was 135,009 acre-feet, while a 10-year average is 111,289 acre-feet.

In addition to these amounts of river diversions and the amount used from reservoirs there was approximately 1,225,000 acre-feet passed the state line into New Mexico. Ditches in the division received 2,614 acre-feet of trans-mountain diversion.

Sugar beets made a record as to yield and sugar content. It is estimated that the crop will bring the farmers \$250,000.

While the carload shipments of vegetables is only 6,546, the potatoes in storage amounting to 4,200 cars will reach a high

point in 10,746 cars in the shipping record and will average up with other high years.

Livestock shipment has been heavy with feeder cattle bringing around 10c, feeder lambs 12½c, wool at 39½c. The stockmen are cutting down on their herds and cleaning up good money.

Ditch owners have cooperated in fine shape in constructing new headgates and measuring flumes to the extent of \$53,000, which includes repairs and betterments to ditches and canals.

There has been no complaints come to this office and water users are getting along with the Water Commissioners in nice shape.

Yours truly,

WALTER D. CARROLL,
Irrigation Division Engineer, Division No. 3.

WATER COMMISSIONER'S CROP AND DITCH REPORT

Water District	No. of Priorities Reported	First Day Water Was Used	Last Day Water Was Used	Maximum No. Days Water Was Carried from Stream	No. Acre Feet Used by All Ditches from Natural Stream
20	419	4- 1			730,669
21	76	3- 4	11-15	288	138,993
22	187	3-25	11-15	229	437,220
24	98	3- 1	11-10	256	24,358
25	96	4- 1	11-15	238	33,228
26	116	4- 1	11-15	235	66,367
27	77	3-11	11-15	249	29,962
35	70	4- 1	10- 4	187	112,503
Total					1,623,300

Water District	Total No. Acres That Can Be Irrigated	No. Acres Alfalfa	No. Acres Natural Grasses	No. Acres Cereals	No. Acres Pasture
20	575,620	53,762	53,504	57,715	126,258
21	79,268	6,118	16,557	7,757	127
22	179,361	12,697	29,043	17,709	20,100
24	16,341	4,185	2,955	9,170	3,456
25	39,901	2,032	21,294	637	41,377
26	55,384	3,301	27,488	521	15,218
27	11,272	728	3,680	244	1,615
35	54,576	3,360	16,697	3,225	3,335
Totals	1,011,723	86,183	171,218	96,978	211,486

Water Dist.	No. Acres Market Garden Peas	No. Acres Potatoes	No. Acres Sugar Beets	No. Acres Cabbage	No. Acres Lettuce
20	3,419	27,938	1,964	302	1,192
21	5,131	2,138	54	68	11
22	3,930	1,191	298	196	155
24	182	575	10	175	75
25	7	72	0	0	0
26	0	23	0	0	0
27	61	318	.....	0	3
35	939	103	48	462	86
Totals	13,672	32,358	2,401	1,513	1,522

Water Dist.	No. Acres Cauliflower	No. Acres Beans	No. Acres Field Peas	No. Acres Summer Plow	No. Acres Sweet Clover
20	126	251	18,720	4,058	21,241
21	213	766	3,782	581	1,787
22	293	805	4,546	1,070	9,571
24	1,928	1,562	10,633	0	795
25	0	3	33	0	81
26	0	0	0	0	0
27	0	22	100	0	102
35	0	168	2,860	0	0
Totals	2,560	3,577	40,674	5,709	33,577

Water District	No. Acres Other Crops	Total Acres Irrigated	Cost of Superintendence	Cost of Repairs and Improvements
20	11,637	382,087	.....	.....
21	81	45,178	.....	.....
22	878	102,482	\$2,530	\$2,885
24	1,245	37,276	2,335	1,955
25	6	65,542	1,400	6,500
26	10	46,561	.....	.....
27	296	7,172	.....	.....
35	75	31,358	.....	.....
Totals	14,228	717,656		

	Comparison of Acre Feet of Water Delivered to Ditches from Streams	Comparison Total Acres Irrigated
1932	1,223,321	705,781
1933	1,086,786	880,934
1934	700,740	638,766
1935	1,589,432	755,724
1936	1,157,522	663,724
1937	1,110,519	646,082
1938	1,371,624	702,392
1939	994,770	715,332
1940	769,141	664,267
1941	1,635,840	717,656

COMPARISON OF COST OF ADMINISTRATION EXPENSES,
WATER COMMISSIONERS, AND DEPUTIES

Dist. No.	1940		1941	
	Commissioner	Deputies	Commissioner	Deputies
20	\$ 808	\$2,290	\$1,640	\$1,580
21	1,422	400	1,206	405
22	1,124	72	1,038	170
24	1,788	660	1,656	660
25	1,374	.....	1,248	.....
26	1,416	.....	1,272	.....
27	1,554	.....	1,359	.....
33	1,104	.....	996	.....
	\$10,590	\$3,422	\$10,415	\$2,793

Cost per acre for Water Commissioners and Deputies 1940—2.1c per acre.
1941—1.9c per acre.

WATER COMMISSIONER'S RESERVOIR REPORT

Water District	Capacity in Acre Feet in All Reservoirs	No. Acre Feet in All Reservoirs May 1, 1941	No. Acre Feet in All Reservoirs Nov. 1, 1941	First Day Water Used from Reservoirs	Last Day Water Used from Reservoirs	Maximum No. of Days Water Used from Reservoirs	Total No. Acre Feet Water Used from Reservoirs
20	136,978	18,724	83,283	7-20	9-30	48	50,303
21	31,752	4,352	10,655	7- 9	9-23	76	14,040
22	7,910	4,590	384	5- 1	11- 1	180	6,294
24	109,830	10,472	3,630	5- 2	11- 1	163	43,942
35	25,463	9,297	15,230	5- 1	10- 8	129	20,430
Totals	310,933	47,435	135,009				135,009

COMPARISON ACRE FEET CARRIED FROM RESERVOIRS

1932	147,101
1933	97,058
1934	62,391
1935	102,537
1936	111,607
1937	149,247
1938	131,930
1939	139,771
1940	57,975
1941	135,009

COMPARISON OF ACRE FEET STORAGE IN RESERVOIRS

	May 1	Nov. 1
1932	41,488	42,211
1933	56,875	29,080
1934	47,489	11,087
1935	28,216	64,361
1936	84,419	43,294
1937	79,910	36,060
1938	93,520	82,051
1939	120,635	14,759
1940	39,161	12,113
1941	47,435	113,183

WATER COMMISSIONER'S RESERVOIR REPORT—1941

AMOUNT OF WATER, IN ACRE FEET, IN STORAGE, ON 1ST DAY OF EACH MONTH FROM DECEMBER 1, 1940 TO NOVEMBER 1, 1941

	Rio Grande (Farmer's Union) Reservoir Cap. 51,113 Ac. Ft.	Santa Maria Reservoir Cap. 53,565 Ac. Ft.	Continental Reservoir Cap. 26,716 Ac. Ft.	Sanchez Reservoir Cap. 103,155 Ac. Ft.
12-1-40	2,408	2,340	0	5,950
1-1-41	2,097	2,314	0	6,313
2-1	6,383	3,111	0	6,336
3-1	6,018	3,892	0	6,396
4-1	9,331	4,589	0	7,222
5-1	8,432	4,589	0	8,598
6-1	30,047	20,850	7,317	27,023
7-1	50,042	39,492	10,165	41,983
8-1	44,800	37,943	10,378	38,102
9-1	26,438	22,901	8,707	31,221
10-1	30,875	21,643	9,197	30,040
11-1	47,817	24,025	9,165	32,643
	Maximum Storage July 9-12 51,113 Ac. Ft.	Maximum Storage July 12 41,761 Ac. Ft.	Maximum Storage July 24 10,712 Ac. Ft.	Maximum Storage July 5 43,094 Ac.-Ft.

	Terrace Reservoir Cap. 17,700 Ac. Ft.	La Jara Reservoir Cap. 14,052 Ac. Ft.	Mountain Home Reservoir Cap. 19,150 Ac. Ft.	Smith Reservoir Cap. 6,212 Ac. Ft.
12-1-40	621	8	1,175	1,411
1-1-41	1,321	8	2,116	1,591
2-1	2,071	19	2,505	1,996
3-1	2,811	19	2,652	2,805
4-1	3,788	119	3,320	5,336
5-1	3,805	547	3,961	5,336
6-1	10,702	5,827	11,326	5,336
7-1	15,274	7,880	16,164	5,336
8-1	12,223	7,880	13,878	4,178
9-1	3,440	4,673	9,577	3,270
10-1	1,745	4,000	8,706	3,726
11-1	7,619	3,636	9,894	5,336
	Maximum Storage July 6 Ac. Ft.	Maximum Storage July 1 Ac. Ft.	Maximum Storage July 1 Ac. Ft.	Maximum Storage Apr. 1-July 1 Nov. 1 Ac. Ft.
	17,200	7,880	16,164	5,336
				5,336
				Ac. Ft.

	Cove Lake Reservoir Cap. 9,710 Ac. Ft.	Salazar No. 1 Reservoir Cap. 120 Ac. Ft.	Salazar No. 2 Reservoir Cap. 40 Ac. Ft.
12-1-40	.....	.....	.....
1-1-41	.....	.....	.....
2-1	.....	.....	.....
3-1	.....	.....	.....
4-1	.....	.....	.....
5-1	4,590	10	0
6-1	5,890	.....	.....
7-1	6,115	.....	.....
8-1	5,160	.....	.....
9-1	919	.....	.....
10-1	414	.....	.....
11-1	384	30	0
	Maximum Storage June 10 Ac. Ft.		
	6,675		
	Ac. Ft.		

	Archuleta Reservoir Cap. 98 Ac. Ft.	Hunters Lake Res. Cap. 48 Ac. Ft.	Spruce Lake No. 1 Res. Cap. 103 Ac. Ft.	Spruce Lake No. 2 Res. Cap. 93 Ac. Ft.
May 1	76	No report	103	69
Nov. 1	0	No report	0	0

	S. Dude Ranch Res. Cap. 125 Ac. Ft.	Road Canon Reservoir Cap. 2,800 Ac. Ft.	Poage Reservoir Cap. 260 Ac. Ft.	Lost Lakes Reservoir Cap. 1,066 Ac. Ft.
May 1	125	2,800	261	1,066
Nov. 1	105	2,800	0	708

	Shaw Reservoir Cap. 638 Ac. Ft.	Metroz Reservoir Cap. 128 Ac. Ft.	Bristol Head Res. Nos. 1-2 Cap. 954 Ac. Ft.	Beaver Park Reservoir Cap. 4,434 Ac. Ft.
May 1	638	128	0	1,200
Nov. 1	215	89	0	0

	Regan Lake Reservoir Cap. 1,200 Ac. Ft.	Chenoweth Reservoir Cap. 40 Ac. Ft.	Eastdale No. 1 Res. Cap. 3,468 Ac. Ft.	Eastdale No. 2 Res. Cap. 3,047 Ac. Ft.
May 1	No report	40	Not stored	.....
Nov. 1	No report	No report	.....	.....

	Goin's Lake Reservoir Cap. 40 Ac. Ft.	Humphries Reservoir Cap. 842 Ac. Ft.	Trout Lakes Reservoir Cap. 198 Ac. Ft.	Wright's Lake or Spring Creek Res. Cap. 120 Ac. Ft.
May 1.....	0	842	198	120
Nov. 1.....	0	842	0	100

	Ruby Lake Reservoir Cap. 120 Ac. Ft.	Hermit Lake No. 1 Res. Cap. 360 Ac. Ft.	Hermit Lake No. 2 Res. Cap. 360 Ac. Ft.	Grace Lake Reservoir Cap. 605 Ac. Ft.
May 1.....	120	360	360	605
Nov. 1.....	120	360	360	605

	Sowards Lake Reservoir Cap. 200 Ac. Ft.	Goose Creek Reservoir Cap. 231 Ac. Ft.	Wee Ruby Lake Res. Cap. 150 Ac. Ft.	Brown's Lake or Troutvale Reservoir Cap. 510 Ac. Ft.
May 1.....	200	232	90	510
Nov. 1.....	200	0	90	510

	Fuchs Reservoir Cap. 211 Ac. Ft.	Squaw Creek Reservoir Cap. 168 Ac. Ft.	Bergey's Lake Reservoir Cap. 28 Ac. Ft.
May 1.....	211	168	28
Nov. 1.....	94	0	28

TRANS-MOUNTAIN DIVERSIONS

Treasure Pass.....	115	Acres Feet
Spring Creek.....	72	Acres Feet
Piedra.....	150	Acres Feet
Squaw Creek Pass.....	226	Acres Feet
Wemanuche.....	2,050	Acres Feet

Alfalfa

The yield of alfalfa was above normal with two good cuttings and a pasture crop. Most of the crop was put up in excellent condition.

The price is low. Some sales made at \$6.00 per ton baled with very little local demand as there is abundance of pasture. No outside market developed yet.

Eighty-six thousand one hundred eighty-three acres harvested.

Wild Hay

The native grass hay is a heavy crop and put up in excellent condition but prospects for a heavy carry over as there has been no market developed so far.

There were 171,218 acres harvested.

Potatoes

The potato crop, while some less acreage and the crop curtailed by climatic conditions, is one of the best in many years.

On July 6th a light frost hit the Valley and on September 12th a heavy freeze killed the vines, ripening the tubers at least two weeks earlier than normal, which stopped further growth. It is

estimated that this condition reduced the yield 25%. However, this loss is partly compensated by the excellent quality of the potatoes. They are thoroughly ripened, although below normal in size. The percent of No. 1 stock is above normal.

The Psylid took its usual toll where the vines were not sprayed. Sixty per cent of the crop was sprayed which controlled the inroads of this insect. Bacterial wilt was prevalent this season which further cut the average yield.

Price at digging time was 80c per cwt., has now gone to \$1.60 with prospects of a \$2.00 price by January 1st. Of the estimated 7,000-car crop 65% is in storage.

Cereals

Oats and barley were very good quality and yield.

On account of damp weather the wheat crop was affected by rust, which curtailed yield. Prices are very satisfactory and demand good.

One hundred seventy-one thousand two hundred eighteen acres produced.

Sweet Clover

Sweet clover, which is a very desirable crop on account of its food value as well as being a soil builder, was considerably less than normal. It is practically all harvested for forage.

Pasture

An increase in acreage of pasture was reported this year, 211,486 acres. This is due to the unusual water conditions which permitted the irrigation of land not heretofore under irrigation.

Beans

The bean crop was unusually good as to quality but acreage was less than normal. Two thousand five hundred seventy-seven acres harvested.

Field Peas

Considerable increase in acreage of this crop with yield and quality very satisfactory.

The price of \$2.50 per cwt. makes a good return to the farmer as well as being a natural soil builder. Forty thousand six hundred seventy-four acres were harvested. The crop is mostly marketed locally.

Summer Plowing

Five thousand seven hundred nine acres were summer plowed. This has been a great benefit to the soil as it curtails the weed growth and conserves moisture for early seeding.

Sugar Beets

Sugar beet growers of the valley are completing the harvesting of crop valued at over a quarter of a million dollars.

Yield is running high as a result of favorable late growing conditions. Average for the entire valley is 12 tons per acre with many large fields showing 15-16 tons.

Sugar content averaging 18%. Several growers have had a test as high as 20%.

The 2,400 acres produced 600 carloads of 25,000 pounds each. Nine dollars per ton to the grower is predicted.

Beet tops are worth \$9.00 per acre as stock feed.

Vegetable Shipments

Total carlot shipment of vegetables:

Cabbage	226 cars
Cauliflower	939
Carrots	1
Lettuce	284
Garden Peas	1,525
Potatoes	2,809
Spinach	60
Mixed Vegetables	702
Total	6,546

Colorado Director of Agriculture estimates that the vegetable crops in the valley will exceed two and a half million dollars.

Rural Electrification Administration

With 399 miles of rural power lines now constructed and 270 proposed, the valley will be well covered.

Construction will be started in spring.

Artesian and Pumping Wells

One hundred new artesian wells were put down this season, mostly for domestic purposes. No new pumping wells were put in this season and very little pumping was done owing to sufficient stream flow for crops.

Hail

Three most devastating hail storms struck the valley at the height of vegetable harvest, covering a large area of the valley. One through the center of the valley 5 miles wide and 12 miles long resulted in a total destruction of valuable crops of garden peas, cauliflower, lettuce and cabbage.

Grain and alfalfa in this area was a total loss. Estimated loss \$1,000,000.

Early Frost

On September 12th a killing frost struck the valley, the thermometer registering 20 above, which destroyed all vegetable crops which were ready to be harvested, causing a loss to garden peas, cauliflower, and lettuce, as well as killing potato vines, which stopped a 30-day growth and curtailed the yield 25%.

Range Conditions

Owing to abundant moisture ranges were in excellent condition and all livestock came out in fine condition and splendid pastures in the valley promise that stock will come through the winter in good shape.

Municipal Water Supply

With the exception of Antonito water works all municipal plants are in good condition and had an adequate supply. Owing to flood in the Conejos River the riprapping at the intake was washed away and channel was changed. A WPA project has been approved and work will be done early in spring.

Estimated cost \$2,000.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 3 FOR THE SEASON OF 1942

Alamosa, Colorado.
September 20, 1942.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

Following is a tabulated list of irrigation activities in the division, including stream flow, reservoir storage, diversion to ditches and crop conditions.

Soil conditions were favorable for an early spring planting and crops got off to a good start. There was no late spring frost to damage crops. The early September freeze did considerable damage to late vegetables, however, it was a benefit to potatoes, killing the vines, which ripened the tubers so that early in October they were in fine marketing condition.

Stream flow on all watersheds was above average. Ditches carried an adequate supply for irrigation well into August and practically no crops in the Division suffered. The general crop conditions were very favorable and prices satisfactory.

The storage in the principal reservoirs started the season with a record fill and came in at a time when needed to supplement the stream flow, and the season ended with 90,858 acre feet in storage.

Ditch owners have co-operated with water officials and no complaints have come to this office. No arrests for unlawful diversion.

Yours truly,

WALTER D. CARROLL,
Irrigation Division Engineer, Division No. 3.

WATER COMMISSIONER'S DITCH REPORT

No. of Water District	No. of Priorities Reported	First Day Water Was Used	Last Day Water Was Used	Maximum No. Days Water Was Carried from Stream	No. of Acre Feet Used by All Ditches	No. of Acres That Can Be Irrigated
20	419	4- 1	11-29	224	606,122	500,588
21	76	3-21	11-15	224	92,373	73,599
22	187	4- 1	11-15	231	337,304	187,104
24	98	3- 1	11-15	261	42,088	22,445
25	96	4- 1	11-15	238	99,704	210,416
26	116	4- 1	11-15	228	84,695	58,514
27	77	4- 1	9-30	199	17,750	13,770
35	70	4- 1	11-15	194	118,176	47,108
Totals					1,398,212	1,113,544

COMPARISON OF ACRE FEET OF WATER DELIVERED TO DITCHES FROM STREAMS

1933	1,086,736	1938	1,371,624
1934	700,740	1939	994,770
1935	1,589,432	1940	769,141
1936	1,157,522	1941	.....
1937	1,110,519	1942	1,398,212

WATER COMMISSIONER'S CROP AND DITCH REPORT

Water District	No. Acres Alfalfa	No. Acres Native Hay	No. Acres Cereals	No. Acres Pasture	No. Acres Garden Peas
20	63,662	47,319	43,273	111,313	3,442
21	7,326	9,418	6,350	6,778	4,006
22	14,001	29,919	19,742	15,775	3,648
24	2,427	2,810	6,078	2,162	243
25	1,363	45,282	1,037	39,615	2
26	3,184	31,175	547	12,857	20
27	713	4,475	187	13,217	138
35	3,355	16,099	3,655	3,869	872
Totals	96,031	186,497	80,869	205,586	12,371

Water District	No. Acres Potatoes	No. Acres Sugar Beets	No. Acres Beans	No. Acres Field Peas	No. Acres Cabbage	No. Acres Lettuce
20	29,507	3,249	111	12,783	184	930
21	1,788	271	474	3,009	159	58
22	2,163	518	644	4,988	242	32
24	450	10	2,193	4,497	733	127
25	55	.....	1	62	.....	.....
26	5	.....	.....	.....	.....	.....
27	344	.....	19	173	.....	5
35	132	108	151	2,975	156	60
Totals	34,444	4,156	3,593	28,487	1,774	1,212

Water District	No. Acres Cauliflower	No. Acres Sweet Clover	No. Acres Summer Plow	No. Acres Spinach	No. Acres Other Crops	Total Acres Irrigated
20	304	47,806	3,172	227	5,536	372,818
21	95	3,427	371	.....	103	43,633
22	317	11,646	992	.....	804	105,431
24	1,501	355	.....	.....	892	24,478
25	.....	623	110	.....	2	88,152
26	.....	.....	.....	.....	10	47,798
27	.....	667	.....	3	3	19,944
35	.....	.....	.....	10	.....	31,742
Totals	2,217	64,524	4,645	240	7,350	733,996

COMPARISON OF ACRE FEET OF WATER DELIVERED TO DITCHES AND CANALS OVER 10-YEAR PERIOD

1933	880,934	1933	1,086,786
1934	638,766	1934	700,740
1935	755,724	1935	1,589,432
1936	663,724	1936	1,157,522
1937	646,082	1937	1,110,519
1938	702,392	1938	1,371,664
1939	715,332	1939	994,770
1940	664,267	1940	769,141
1941	717,656	1941	.....
1942	733,996	1942	.....

COMPARISON OF COST OF ADMINISTRATION EXPENSES,
WATER COMMISSIONERS AND DEPUTIES

Water Dist.	1940		1941		1942	
	Water Com.	Deputies	Water Com.	Deputies	Water Com.	Deputies
20	\$ 808	\$2,290	\$1,640	\$1,580	\$1,816	\$1,885
21	1,422	400	1,206	405	1,392	420
22	1,124	72	1,038	170	1,146	620
24	1,788	660	1,656	660	1,728	690
25	1,374	.....	1,248	.....	1,200	.....
26	1,416	.....	1,272	.....	1,386	.....
27	1,554	.....	1,359	.....	1,494	.....
35	1,104	.....	996	.....	1,052	.....
	Total \$14,012		Total \$13,208		\$11,214	\$3,615
					Total \$14,829	

COST PER ACRE FOR ADMINISTRATION
1940—02.1 1941—01.9 1942—02.2

WATER COMMISSIONER'S RESERVOIR REPORT—1942

AMOUNT OF WATER, IN ACRE FEET, IN STORAGE, ON 1ST DAY OF EACH MONTH FROM DECEMBER 1, 1941, TO NOVEMBER 1, 1942

	Rio Grande (Farmer's Union) Res. Cap. 51,113 Ac. Ft.	Santa Maria Reservoir Cap. 53,565 Ac. Ft.	Continental Reservoir Cap. 26,716 Ac. Ft.	Sanchez Reservoir Cap. 103,155 Ac. Ft.
12-1-41	47,083	24,563	9,163	33,294
1-1-42	46,675	24,671	10,000	33,368
2-1-42	46,873	25,191	10,000	33,149
3-1-42	46,873	25,217	10,000	33,077
4-1-42	47,922	25,742	10,000	32,932
5-1-42	49,984	26,878	10,000	37,918
6-1-42	49,502	39,074	14,793	56,552
7-1-42	49,222	42,066	22,039	62,393
8-1-42	27,345	32,947	29,576	49,248
9-1-42	8,073	13,362	16,704	40,819
10-1-42	7,227	13,413	16,526	40,327
11-1-42	5,767	13,413	16,449	39,192
	Maximum Storage June 29, 1942	Maximum Storage June 22, 1942	Maximum Storage Aug. 1, 1942	Maximum Storage June 25, 1942
	51,113 Ac. Ft.	42,067 Ac. Ft.	29,776 Ac. Ft.	64,668 Ac. Ft.
	Terrace Reservoir Cap. 17,700 Ac. Ft.	La Jara Reservoir Cap. 14,052 Ac. Ft.	Mountain Home Reservoir Cap. 19,150 Ac. Ft.	Smith Reservoir Cap. 6,212 Ac. Ft.
12-1-41	7,808	3,636	10,888	5,336
1-1-42	7,499	3,331	11,326	5,336
2-1-42	7,499	3,331	11,546	5,336
3-1-42	7,619	3,331	11,781	5,336
4-1-42	7,145	3,460	12,000	5,336
5-1-42	9,103	5,521	14,447	5,336
6-1-42	11,538	8,214	16,358	5,336
7-1-42	11,584	7,880	15,310	5,336
8-1-42	5,363	7,880	10,383	3,641
9-1-42	1,647	4,386	5,301	2,805
10-1-42	0	4,623	5,200	3,210
11-1-42	0	3,331	5,431	3,342
	Maximum Storage June 20, 1942	Maximum Storage June 1, 1942	Maximum Storage June 6, 1942	Maximum Storage Dec. 1, 1941 to July 1, 1942
	15,260 Ac. Ft.	8,214 Ac. Ft.	16,674 Ac. Ft.	5,336 Ac. Ft.

	Cove Lake Reservoir Cap. 9,710 Ac. Ft.	Salazar Reservoir Cap. 120 Ac. Ft.	Archuleta Reservoir Cap. 98 Ac. Ft.	
12-1-41	384			
1-1-42	384			
2-1-42	384			
3-1-42	384			
4-1-42	651			
5-1-42	5,160	20	76	
6-1-42	6,015			
7-1-42	4,080			
8-1-42	1,862			
9-1-42	253			
10-1-42	212			
11-1-42	161	40	0	
Maximum Storage May 23, 1942 6,480 Ac. Ft.				
	Hunters Lake Res. Cap. 48 Ac. Ft.	Spruce Lake No. 1 Res. Cap. 103 Ac. Ft.	Spruce Lake No. 2 Res. Cap. 69 Ac. Ft.	S. Dude Ranch Res. Cap. 125 Ac. Ft.
May 1	48	103	69	112
Nov. 1	48	0	0	23
	Road Canon Reservoir Cap. 2,800 Ac. Ft.	Poage Reservoir Cap. 260 Ac. Ft.	Lost Lakes Reservoir Cap. 1,066 Ac. Ft.	Shaw Reservoir Cap. 638 Ac. Ft.
May 1	2,800	261	1,066	280
Nov. 1	2,800	0	0	0
	Metroz Reservoir Cap. 176 Ac. Ft.	Bristol Head Res. Nos. 1-2 Cap. 954 Ac. Ft.	Beaver Park Reservoir Cap. 4,434 Ac. Ft.	Regan Lake Reservoir Cap. 1,200 Ac. Ft.
May 1	176	987	728	1,200
Nov. 1	88	0	0	1,200
	Chenoweth Reservoir Cap. 40 Ac. Ft.	Eastdale No. 1 Res. Cap. 3,468 Ac. Ft.	Goin's Lake Reservoir Cap. 40 Ac. Ft.	Humphries Reservoir Cap. 842 Ac. Ft.
May 1	0	396	40	842
Nov. 1	0	0	0	842
	Trout Lake Reservoir Cap. 198 Ac. Ft.	Wright's Lake Res. Cap. 120 Ac. Ft.	Ruby Lake Reservoir Cap. 120 Ac. Ft.	Hermit Lake No. 1 Res. Cap. 360 Ac. Ft.
May 1	198	120	120	360
Nov. 1	0	120	120	360
	Hermit Lake No. 2 Res. Cap. 360 Ac. Ft.	Grace Lake Reservoir Cap. 605 Ac. Ft.	Sowards Lake Reservoir Cap. 200 Ac. Ft.	Goose Creek Reservoir Cap. 232 Ac. Ft.
May 1	360	605	200	232
Nov. 1	360	605	200	232
	Wee Ruby Lake Res. Cap. 150 Ac. Ft.	Fuchs Lake Reservoir Cap. 200 Ac. Ft.	Squaw Creek Reservoir Cap. 158 Ac. Ft.	Bergey's Lake Reservoir Cap. 28 Ac. Ft.
May 1	186	211	158	28
Nov. 1	186	45	158	28
	Spring Creek Reservoir Cap. 120 Ac. Ft.	Botefur Reservoir Cap. 8 Ac. Ft.	Lake Cliff Reservoir Cap. 20 Ac. Ft.	Troutvale No. 2 Res. Cap. 435 Ac. Ft.
May 1	120	0	20	196
Nov. 1	0	0	20	196

COMPARISON ACRE FEET OF WATER CARRIED FROM RESERVOIRS*		COMPARISON ACRE FEET STOR- AGE IN RESERVOIRS MAY 1 AND NOV. 1		
Year		Year	May 1	Nov. 1
1933	97,058	1933	56,875	29,080
1934	62,391	1934	47,489	11,087
1935	102,537	1935	28,216	64,361
1936	111,607	1936	84,419	43,294
1937	149,247	1937	79,910	36,060
1938	131,930	1938	93,520	82,051
1939	139,771	1939	120,635	14,759
1940	57,975	1940	39,161	12,113
1941	135,009	1941	47,435	113,133
1942	75,370	1942	97,396	42,617

*This amount represents the net delivered to ditches and canals. Ten per cent was deducted from 83,636 for river loss in carrying.

Potatoes

The potato crop will break all previous records as to yield and quality this season. The acreage is 20,000 more than in 1941 with yield much higher than normal. Numerous growers in Rio Grande County report as high as 400 sacks per acre while 275 to 350 sacks are not uncommon. At present 50% of the estimated 8,000 cars have been shipped, leaving approximately 4,000 in storage.

Price for the Ted Still strain of dark red McClures are bringing top prices for U. S. No. 1 and they are in good demand in eastern markets.

Some Psylla was in evidence, but was generally controlled by spraying. There was some black leg for which there seems to be no remedy.

A dehydration plant has been installed in Monte Vista by the American Food Product Corporation and is now ready for operation with enough egg size and cull potatoes in sight for a year's run. The plan is to run the plant on eight-hour shifts. They expect to process 570 cars this season. The entire output will be delivered to the government for our armed forces and lease-lend for our allies. One hundred and twenty people will be employed in the operation of the plant.

Sweet Clover

There was an increase of 30,000 acres of sweet clover due to the growing demand for summer pasture. A great many lambs were grazed on sweet clover and put on the market as feeders, fully as good as those grazed on forest range with a saving of a grazing fee. A considerable acreage was harvested for seed which is bringing 5c a pound on the market. Some clover was cut and stacked for hay. The increase in dairying is expected to mean a larger demand for sweet clover as pasture.

Pasture

Pasture over the division was good and will be consumed by the cattle and sheep during the winter.

Alfalfa

The alfalfa crop this season showed a sharp gain in acreage, with normal yield and the quality was excellent, as the two cuttings were put up without rain. Price will be \$12.00 baled.

Wild Hay

Wild hay acreage will show a 15,000 increase over 1941, with local demand, the crop will be mostly consumed in the valley. Price ranges around \$10.00 baled.

Cereals

Cereal crops showed a 10,000-acre increase over 1941, with quality and yield good, prices very favorable.

Hail

A destructive hail storm struck the south end of the valley in July, doing \$50,000 damage to the market of garden pea crop.

Range

Range conditions were not satisfactory owing to drought in the mountains, as the precipitation data will show. As a result of this lack of moisture on the lower range the cattle were brought out 20 days earlier than customary. The higher sheep ranges were better and the sheep came out in fair condition.

A serious threat to the vegetable growers in the southern end of the valley came in the appearance of the Army Worm which attacked several fields of market garden peas. The loss reported was considerable.

Precipitation over the division was much below normal.

Very little pumping was done as direct irrigation was sufficient.

Beans

The bean crop was satisfactory as to yield and quality and prices at \$5.25 per cwt. makes a good return to the farmer. Acreage was normal and demand good as the government is taking the output for the army.

Field Peas

The field pea crop shows an increase of 18,000 acres over 1941. The increased acreage was stimulated by the government demand for the army and it will take all the crop that will pass inspection and pay \$5.25 per cwt. for No. 1 quality.

Sugar Beets

The sugar beet growers of the San Luis Valley have completed the harvesting of a crop valued at over a quarter of a million dollars at the present price outlook.

The yield this year is running high as a result of favorable late growing conditions. Average for the San Luis Valley is 12 tons per acre, while many fields run 15 to 18 tons. Sugar content averages 18% with several fields showing 20% sugar. Acreage in the valley is 4,156, being almost double the 1941 acreage.

Vegetable Shipments for 1942

Potatoes	4,000 Cars
Garden Peas	1,334 Cars
Cauliflower	968 Cars
Mixed Vegetables	609 Cars
Lettuce	385 Cars
Spinach	51 Cars
Cabbage	579 Cars
Broccoli	1 Car
Total	7,927 Cars

TANS-MOUNTAIN DIVERSION

Piedra	Delivered to McKenzie Ditch	810 acre feet
	Delivered to Minor Ditch	240 acre feet
	Total	1,050 acre feet
Squaw Pass	Delivered to Rio Grande Canal	374 acre feet
	Delivered to McDonald Ditch	700 acre feet
	Total	1,074 acre feet
Weminuche	Delivered to Raber-Lohr	855 acre feet
	Delivered to Geo. Fuchs	245 acre feet
	Total	1,100 acre feet
Spring Creek	Delivered to Minor Ditch	50 acre feet
Treasure Pass	Delivered to Midland Ditch	20 acre feet

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 4 FOR THE SEASON OF 1941

Mr. M. C. Hinderlider,
State Engineer,
Capitol Building,
Denver, Colorado.

Dear Sir:

Herewith I submit my annual report for the year of 1941.

Storms during the Fall of 1940 undoubtedly produced better ground conditions at the beginning of the winter following than had existed for several years.

The snow surveys of February 1 did not show material variation from conditions of 1940 so far as the Colorado River in this Division was concerned. The Dolores and Gunnison River stations showed considerably greater water content than last year.

For March the Colorado River stations showed an average water content below that of last year and below the six-year average, while the Dolores showed slightly more than the six-year average. The Gunnison River watershed, as a whole, showed a greater water content than either the six-year average or the preceding year, although the Taylor River watershed, from which the Taylor Park Reservoir draws its storage, was below the average.

April reports showed considerable increase, and precipitation for April was heavy, so that at most stations the water content of the snow was higher May 1 than April 1.

The runoff was considerably delayed due to cold spring weather, but during the second week of May streams with considerable moderately low altitude watershed reached record peak discharge. Those streams, or portions of streams whose watersheds were in comparatively high altitude areas did not reach maximum flow until about June 19. A remarkable circumstance was that streams from entirely different watersheds and at considerable distance from each other reached peak flow on practically the same date.

Due to the abundant water supply, all reservoirs in the division filled to capacity. The largest reservoir in the division had a carry-over of only 10,000 acre feet. It filled to capacity July 7.

The following letter from Jesse R. Thompson, Superintendent of the Uncompahgre Valley Water Users' Association, gives interesting data of conditions during the season under the Uncompahgre Valley Project:

“Uncompahgre Project, Colorado. Season 1941

“Under the terms of the contract between the Bureau of Reclamation and the Uncompahgre Valley Water Users' Associa-

tion approved August 4, 1931, the operation and maintenance of the project, was assumed by the Association on January 1, 1932.

“The project irrigation system includes approximately 650 miles of canals and laterals and requires 1,600 second feet of water entering the project during periods of peak demands.

“The snowfall in the Uncompahgre watershed was above normal. On May 4, 1941, a heavy run-off, due to the melting of low snows, raised the Uncompahgre River to a peak of 2,410 second feet at the Garnet headgate. (This is the last headgate to divert water from the Uncompahgre River for project use.) At this time there was only 1,076 second feet at Colona. Due to the extremely wet spring and lack of need for water for irrigation purposes we were unable to divert any appreciable amount of water into project canals to reduce the flow in the Uncompahgre River. Considerable trouble was experienced in protecting canal headgates on the river and in holding the river in its channel to prevent its going around some of the headgates. Individual farmers along the river suffered damage by farm lands being washed away, private ditches washed out, etc.

“Dry Creek, a tributary to the Uncompahgre River near Delta, reached a peak of 676 second feet on May 9th; Spring Creek reached a peak of 264 second feet on May 14th, with other small tributaries running proportionately.

“The peak on the Uncompahgre River at Colona was reached on June 24, 1941, when 2,700 second feet was recorded. Damage from this flood was not as extensive as damage caused by the peak from the early run-off. This is explained mostly by the fact that there was a heavy demand for irrigation water at this time and project canals were drawing about 1,500 second feet out of the river.

“The flow of the Uncompahgre River was exceptionally good for the season, the low for July being 335 second feet.

“The Taylor Park Reservoir filled and water started over the spillway on July 7, 1941.

“Water was turned through the Gunnison Tunnel to meet project needs on March 31, 1941. Water was needed to supplement the flow in the Uncompahgre River from March 31st to May 2nd, from May 20th to June 18th, and from July 2nd to the end of the season.

“Water was turned out of Taylor Park Reservoir to supplement the flow of the Gunnison River on August 2, 1941. Peak discharge from the reservoir was on Sept. 11th, at which time there was 754 second feet being discharged through the needle valves. On October 1st, the end of the irrigation season, there was 69,260 acre feet of water in Taylor Park Reservoir. Not including inflow to the reservoir, 37,255 acre feet of water was used out of the reservoir the past season. The total capacity of the Taylor Park Reservoir at spillway crest is 106,200 acre feet plus bank storage.

“Due to the limited capacity of the Gunnison Tunnel it was not possible to divert enough water to meet project demands. However, water was delivered on a 100% basis or more with the exception of the M&D and B Canals, where it was necessary to deliver on a 95% basis from July 5th to 13th and again from July 17th to 23rd. This was necessary due to the fact that the demand exceeded the capacity of the canals.

“Water was delivered on demand to the water users on an acre foot basis. The lands generally on the west side of the Uncompahgre River were furnished five acre feet of water for a minimum charge of \$1.65 per acre. Lands generally on the east side of the Uncompahgre River, which consists mostly of adobe soils, were furnished four acre feet of water at a minimum of \$1.32 per acre. Excess water was furnished at the rate of \$0.10 per acre foot for all water received in excess of five acre feet per acre.

“Cloudbursts throughout the valley at various times from May 25th to Oct. 6th overflowed canals and laterals, filling them with debris, washing away bridges, drops, chutes, flumes, etc., breaking canal banks in some places and destroying patrolman's roads at a great many other places. Necessary repairs mounted to approximately \$5,000. Sliding canal sections were worse than usual (possibly due to excessive winter and spring moisture). Raising and draining banks, due to this cause, cost approximately \$3,000. There was no serious interruption of flow due to above causes.

“No operating difficulties were experienced in connection with the Gunnison Tunnel. Water was shut out of the Gunnison Tunnel on June 23rd for inspection. No other interruption to the flow of the tunnel occurred during the season.

“Crops were about normal. Some damage was caused to beans, corn, peas, potatoes and early fruit by a frost on September 9th. Heavy rains during the latter part of September and the first part of October, ending with a freeze the night of Oct. 6th, when the temperature dropped to 25°, caused considerable damage to farm crops.

“We again wish to express our appreciation for the co-operation and efficient manner in which Mr. Fred Hotchkiss, Division Irrigation Engineer of the State of Colorado, has administered the diversion of water in this section of the Western Slope.”

The Grand Valley Reclamation Project near Grand Junction is directly under the management of the Bureau of Reclamation, Mr. J. R. Chesman being in charge. Very little, if any, shortage of water occurred under the Grand Valley Project, transmountain diversion being stopped for a few days only.

Crop conditions were generally good throughout the division, but extremely stormy weather during the latter part of the season caused extensive damage. Much of the hay crop in the lower

valleys was damaged during the haying season and very probably stacked alfalfa hay will show considerable loss. Early harvested small grain gave excellent yields, but much of the corn failed to mature due to lack of warm weather in the growing season. Fall storms injured the onion crop and pinto beans to as much, in some areas, as 50 to 60%.

Fruit crops were excellent. Sweet cherries, peaches, apricots and prunes did unusually well and brought good prices. The apple crop was of unusually good quality due, no doubt, to a better water supply than usual.

Improvement of Irrigation Systems

Two rather important reservoir rehabilitation jobs on Grand Mesa in Water District No. 40 were begun. The Park Reservoir dam required a new conduit and enlargement. The work was begun on August 21. A new reinforced concrete conduit of ample capacity with hydraulic lift valve was installed, but a proposed enlargement was not possible to complete due to stormy weather. The available storage capacity for next year will be only 2,100 acre feet.

The Cedar Mesa Reservoir repair and enlargement in the same area was undertaken under the Water Facilities Act. Delays largely due to inclement weather prevented its completion.

Much necessary repair work on reservoirs has had to be postponed on account of lack of materials.

An interesting experiment was conducted in the repair of the Kannah Creek Highline Canal in Water District No. 42. A thin layer of bentonite between layers of earth was laid down to line the canal for a considerable distance through porous shale. Electrical devices to determine depth of saturation were installed and the water run throughout the season with very little percolation and no cutting of the canal bottom.

On the Grand Valley Project concrete lining of laterals has been adopted to some extent to prevent seepage and eliminate weed growth. Three miles of laterals have been lined.

Many of the smaller private reservoirs were inspected under your orders this season. In a number of cases necessary repairs were ordered. Very few of the owners have complied. I believe that in some of these cases where the safety of the public is at stake all storage should be denied until the repairs are properly made under competent supervision.

I enclose a tabulation of Water Commissioners' annual reports.

Very truly yours,

FRED S. HOTCHKISS,
Irrigation Division Engineer, Irrigation Division No. 4.

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS, 1941

Dist. No.	Ditches Reported	No. of Priorities	Amount of Appropriation Cu. Ft. Per Sec.	Capacity of Canals or Ditches Cu. Ft. Per Sec.	No. Acres Can Be Irrigated
28	190	205	595	1,771	31,000
40	460	1,200	3,094	4,131	220,024
41	93	150	1,928	2,395	89,281
42	268	307	3,097	3,569	164,638
59	99	161	680	2,109	24,031
60	263	354	1,590	1,546	155,129
61	14	33	71	104	7,586
62	75	88	313	799	18,905
68	138	169	628	749	24,694
Totals	1,600	2,667	12,296	17,573	735,288

Dist. No.	First Day Water Was Used	Last Day Water Was Used	Average No. of Days Water Was Used	Average Daily Amt. in Sec. Ft.	No. Acre Feet Used
28	May 1	Aug. 1	91	797	146,581
40	Mar. 1	Oct. 31	140	1,605	447,862
41	Mar. 1	Oct. 31	222	1,191	529,537
42	Mar. 1	Oct. 31	141	1,718	164,638
59	May 1	Oct. 10	83	1,538	255,461
60	Apr. 1	Oct. 31	150	497	146,795
61	Apr. 1	Oct. 31	52	35	3,640
62	Apr. 15	Oct. 31	106	515	108,676
68	Apr. 18	Oct. 18	120	446	105,511
Totals				8,342	1,908,701

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL CROP REPORTS, 1941

Dist. No.	Alfalfa	Natural Grasses	Cereals	Orchards
28	175	30,343	41	.....
40	51,144	26,555	19,780	13,290
41	22,044	3,079	26,303	768
42	26,272	15,955	13,984	6,587
59	119	21,058	5	.....
60	14,732	5,812	13,596	218
61	1,149	3,823	1,170	56
62	1,430	7,836	1,699	30
68	4,804	14,398	1,885	10
Totals	121,869	128,859	78,463	20,959

Dist. No.	Market Gardens	Potatoes	Sugar Beets	Other Crops	Total Irrigated
28	.....	21	.....	.....	30,580
40	823	1,999	4,167	28,454	146,212
41	926	1,937	2,117	16,138	73,312
42	1,385	1,044	802	49,536	115,565
59	.....	68	.....	118	21,368
60	353	667	.....	7,742	43,120
61	10	11	.....	57	6,276
62	30	1,047	.....	2,557	14,629
68	4	36	45	80	21,262
Totals	3,531	6,830	7,131	104,682	472,324

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
RESERVOIR REPORTS, 1911

Dist. No.	No. in District	Area of High Water Table, Acres	Capacity in Acre Feet	Quantity of Water in Reservoir May 1	Quantity of Water in Reservoir Nov. 1
40	164	3,453	47,240	43,037	12,248
42	70	1,967	18,568	9,535	1,660
59	1	2,033	106,200	32,405	70,220
60	2	392	4,861	4,069	4,065
Totals	237	7,845	176,869	89,046	88,193

Dist. No.	First Day Water Was Used	Last Day Water Was Used	Average No. Days Water Was Used	Average Daily Amt. in Sec. Ft.	No. Acre Feet Carried
40	July 1	Sept. 15	77	213	32,753
42	July 1	Oct. 6	98	58	11,547
59	Aug. 2	Oct. 1	60	310	37,255
60	July 1	Sept. 15	77	32	4,861
Totals				613	86,416

Note: Above tabulation does not include quantities stored in and drawn from reservoirs used for power purposes only.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 4 FOR THE SEASON OF 1942

Mr. M. C. Hinderlider,
State Engineer,
State Capitol Building,
Denver, Colorado.

Dear Sir:

Herewith I submit my annual report for the year of 1942:

Unprecedented rainfall in the fall of 1941, together with heavy snowfall during the following winter, resulted in exceptionally good soil moisture conditions in all areas of this division in the spring of 1942.

Notwithstanding that no attempt was made by most reservoir owners to hold back storage water, an unusual late fall and winter runoff left an unusually large carry-over in most of the reservoirs on Grand Mesa.

Snowfall in most areas was unusually heavy, and all reservoirs stored to capacity.

Due to cool spring weather there was little flood damage, except from low altitude streams which caused some damage on the Uncompahgre River in District 41. Through the early part of the summer stream flow was good, but late in the season the demand on stored water was heavy. Excepting the Taylor Park Reservoir there was very little holdover, and the use of stored water from this source was practically double the amount that would have been used with normal precipitation.

The following letter from Jess R. Thompson, Superintendent of the Uncompahgre Valley Water Users' Association, gives data as to conditions under the Uncompahgre Valley Project:

“Uncompahgre Project, Colorado. Season 1942

“Under the terms of the contract between the Bureau of Reclamation and the Uncompahgre Valley Users' Association approved August 4, 1931, the operation and maintenance of the project was assumed by the Association on January 1, 1932.

“The project irrigation system includes approximately 650 miles of canals and laterals and requires 1,600 second feet of water entering the project during periods of peak demand.

“The drainage program on the project was completed in May, 1942, and includes 204 miles of main drain canals.

“The snowfall on the Uncompahgre watershed was considerably above normal. Early run-off in April and May helped to reduce later run-off and hold damage by floods to a minimum. Ripraping with heavy sandstone slabs, was necessary at both the Selig and M&D headgates on the Uncompahgre river in order to keep the river under control. The most serious damage on the

Uncompahgre river due to floods was damage caused to farm lands near Olathe, Colorado. At this point the river overflowed, due to the channel filling with gravel, and left the channel, washing away from 10 to 15 acres of good farm lands. They were unable to force the river back into its original position and it still follows the newly made channel. This change left the Swanson lateral (a privately owned ditch) high and dry, it being about one-fourth mile from the river since the change.

“Dry Creek, a tributary to the Uncompahgre river, near Delta, reached a peak of 584 second feet on April 23, Spring Creek reached a peak of 244 second feet on May 12, with other smaller tributaries throughout the valley running in proportion.

“The peak of the Uncompahgre river at Colona was reached on June 7 when 2,472 second feet was recorded. The flow was exceptionally good for the season, there being an average run-off of 335 second feet on July 31, an average run-off of 200 second feet or more being recorded up to August 18.

“The Taylor Park reservoir filled and water started over the spillway at 1:30 P. M. on June 1, 1942.

“Water was turned through the Gunnison tunnel to meet project needs on April 2, 1942. This was necessary to meet project needs in canals and laterals that are supplied direct from the Gunnison tunnel and can not draw from the Uncompahgre river. Water was needed to supplement the flow in the Uncompahgre river from May 15 to May 24, and from June 24 to the end of the irrigation season.

“Water was turned out of the Taylor Park reservoir to supplement the flow in the Gunnison river, on May 1 to 5 and from August 7, at 9:30 A. M. to the end of the irrigation season. Peak discharge from the reservoir was on September 5, at which time there was 715 second feet being discharged through the needle valves. On October 10, the end of the irrigation season, there was 60,040 acre feet of water in Taylor Park reservoir. Not including inflow, 46,710 acre feet were used out of the reservoir for irrigation purposes the past season.

“The total capacity of the Taylor Park reservoir at spillway crest, is 106,200 acre feet.

“Due to the limited capacity of the Gunnison tunnel it was not possible to divert enough water to meet project demands for a part of the irrigation season. However, water was delivered on a 100% basis, or more, throughout the season.

“Water was delivered on demand to the water users on an acre foot basis. The lands, generally, on the west side of the Uncompahgre river, were furnished five acre feet for a minimum charge of \$1.65 per acre. Lands generally on the east side of the Uncompahgre river, which consists mostly of adobe soils, were furnished four acre feet of water at a minimum of \$1.32 per acre. Excess water was furnished at the rate of ten cents per acre foot for all water received in excess of five acre feet per acre.

“Major operating difficulties were as follows: On April 30 the one story brick building at the GKB headworks burned to the ground. This building was used as a ditchriders' headquarters. The building was replaced with a frame building in November.

“A section of the stilling pool at Taylor Dam undermined and gave way. This was repaired by extending the rubble down two and one-half feet farther and repairing the section that gave way.

“The most serious operating difficulty of the season was caused by the excessive amount of gravel movement in the Uncompahgre river.

“The most serious trouble was at the Selig headworks, where it was necessary to keep a one and one-half cubic yard dragline operating for about a month, some times on a two-shift basis. It was necessary to take 24,840 cubic yards of gravel out of the Selig Canal in order to keep the necessary flow of water running. The river channel above the headworks has been changed to relieve the above situation and also to assist in keeping the river in its channel past the headworks. It was necessary to move 23,590 cubic yards to make this change in location.

“The No. 2 needle valve at Taylor dam was dismantled, cleaned and repaired.

“No operating difficulties were experienced in connection with the Gunnison tunnel. Water was shut out of the tunnel on June 17 to inspect the tunnel and South canal linings. No other interruption to the use of the tunnel occurred during the season.

“Crops in general were about normal. There was a loss in the bean crop of about 25% due to early frosts. Corn yields were also reduced about 25% by frosts. Sugar beets and onions and potatoes were above normal.

“We again wish to express our appreciation for the co-operation and efficient manner in which Mr. Fred Hotchkiss, Division Irrigation Engineer of the State of Colorado, has administered the diversion of water in this section of the Western Slope.

Signed JESS R. THOMPSON,
Manager-Treasurer.”

The Grand Valley Reclamation Project in District 42 reported no unusual problems, and the water supply from the Colorado river was good.

In the area watered from Grand Mesa reservoirs, nearly all stored water was used, not more than 2,000 acre feet being held over, and some of the hold-over reported November 1 was used later.

Soil moisture at the beginning of winter was low and prospects for net year's storage not as good as usual.

Crop yields were good, except for stone-pit fruits, which

suffered severely from winter temperatures. In the Palisade fruit district, peach yields were good, but in the Delta County area both peaches and apricots were severely affected, although the apple crop was excellent and prices high; two cars of apples shipped recently having netted \$2,150.00.

September frosts cut the yield of beans as much as 20%.

Range conditions were good, both cattle and sheep doing well, and both brought record prices. Grain and forage crops were ample to assure good wintering for all dairy and livestock. Corn crops, while affected by frost in September, still furnished a considerable amount of feed for stock.

Many old reservoir dams were put under severe test by heavy rainfall. While none were lost, several developed dangerous leakage, and in one case a spillway erosion damaged a highway below it. It was practically impossible to secure adequate equipment to make proper repairs, and spring inspection may show the necessity of restricting storage in some cases.

The Park Reservoir dam on which repairs and enlargement were begun last year, was completed to a height of 46 feet this season, under plans approved by the State Engineer. Cost of repairs and enlargement was approximately \$20,000.00, of which about \$8,000.00 was for repair and \$12,000.00 for enlargement. The increase in capacity was approximately 750 acre feet, or a cost of \$16.00 per acre foot of enlargement.

The cost was considerably above the estimate, due in part to rising construction prices between 1939 when the estimates were made and 1941 when the contract was let, but more particularly to the fact that faulty work in the original construction made it necessary to move a much larger amount of material than could be foreseen, to secure a proper bond between the old work and the new. It was also necessary to remove a considerable amount of the old dam entirely in order to make the completed structure secure.

The Cedar Mesa Reservoir repair and enlargement was not completed to the proposed height, there being still some 12,000 cubic yards of fill to be made. The Bruce Park Reservoir dam was finished. Both the two latter structures were financed under the Water Facilities program and were built under the supervision of the Soil Conservation Service. I believe the plans of both were filed with and approved by your office.

I enclose a tabulation of Water Commissioners' annual ditch and reservoir reports.

Very truly yours,

FRED S. HOTCHKISS,
Irrigation Division Engineer, Irrigation Division No. 4.

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS, 1942

Dist. No.	Ditches Reported	Amt. of Appropriation Second Feet	Capacity of Canals or Ditches Second Feet	No. Acres Can Be Irrigated
28	162	573	1,750	30,625
40	475	3,181	4,214	227,243
41	104	1,927	2,321	89,099
42	293	4,482	4,638	159,469
59	99	680	2,109	24,031
60	232	1,834	1,737	149,889
61	14	71	103	6,790
62	35	313	799	18,905
68	128	504	749	24,694
Totals	1,588	13,565	18,420	730,745

Dist. No.	First Day Water Was Used	Last Day Water Was Used	Average No. of Days Water Was Used	Average Daily Amt. in Sec. Ft.	No. Acre Feet Used
28	May 1	July 25	86	691	122,206
40	Mar. 31	Oct. 31	127	1,544	394,179
41	Mar. 1	Oct. 31	180	1,697	610,294
42	Mar. 31	Oct. 31	143	1,780	510,556
59	May 1	Oct. 10	83	1,538	255,461
60	Apr. 1	Oct. 31	143	436	124,758
61	Apr. 1	Oct. 31	188	40	15,065
62	Apr. 15	Oct. 31	106	515	108,676
68	May 2	Oct. 31	110	405	88,795
Totals				8,646	2,229,990

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL CROP REPORTS, 1942

Dist. No.	Alfalfa	Natural Grasses	Cereals	Orchards
28	103	30,475	28	.....
40	51,539	26,898	20,321	13,335
41	20,344	4,765	24,351	926
42	25,629	14,324	15,069	6,602
59	119	21,058	5	.....
60	14,725	5,582	14,183	162
61	1,190	3,612	1,490	48
62	1,430	7,836	1,699	30
68	5,102	12,565	1,807	5
Totals	120,181	127,115	78,953	21,108

Dist. No.	Market Gardens	Potatoes	Sugar Beets	Other Crops	Total Irrigated
28	4	15	.....	.....	30,625
40	1,686	2,246	4,292	26,203	146,520
41	1,891	1,742	2,138	17,078	73,235
42	1,026	858	859	50,070	114,437
59	.....	68	.....	118	21,368
60	356	165	.....	5,643	40,816
61	15	20	.....	410	6,785
62	30	1,047	.....	2,557	14,629
68	.....	127	71	1,545	21,222
Totals	5,008	6,288	7,360	103,624	469,637

IRRIGATION DIVISION NO. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS, 1942

Dist. No.	No. in Dist.	Area of High Water Line, Acres	Capacity in Acre Feet	Quantity of Water in Reservoir May 1	Quantity of Water in Reservoir Nov. 1
40	154	3,668	47,206	41,949	4,131
42	71	1,967	13,813	3,500	340
59	1	12,033	106,200	83,240	59,500
60	2	392	4,861	4,800	.....
Totals	228	8,060	172,080	133,489	63,971

Dist. No.	First Day Water Was Used	Last Day Water Was Used	Average No. Days Water Was Used	Average Daily Amt. in Sec. Ft.	No. Acre Ft. Carried
40	June 21	Oct. 31	55	351	38,373
42	June 23	Oct. 12	50	122	12,245
59	May 15	Oct. 10	64	365	46,710
60	July 1	Oct. 1	76	32	4,861
Totals				870	102,189

Note: Above tabulation does not include storage of reservoirs used for purposes other than irrigation.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 5 FOR THE SEASON OF 1941

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

In compliance with the provisions of the law, I transmit herewith my annual report as Division Irrigation Engineer for Irrigation Division No. 5 for the year ending November 30, 1941.

Administration

During the past season 32 steel headgates, 28 steel Parshalls and two large size treated timber Parshalls were installed. Two new concrete diversion dams were also constructed. This work was all supervised by the Division Engineer or water commissioners.

A number of headgates and sections of ditches were washed out this spring due to high water. In some cases ditches were washed out because of overloading.

On September 6th, it became necessary to turn off all transmountain diversions except the Grand River Ditch, Moffat Tunnel and Jones Pass Diversions in order to supply senior rights on the Colorado River. The Grand River Ditch, having a senior right itself, was not shut off. On September 9th, water was released from the Williams Fork Reservoir to compensate for water being diverted by the City of Denver through the Moffat Tunnel and Jones Pass. By September 20, demands by senior rights on the lower Colorado River had dropped to a point where we could again turn on the Twin Lakes Diversion. However, other diversions remained closed because the amount of water in the Colorado River at the Shoshone Plant of the Colorado Public Service Company was still below their adjudicated right.

Cost of administration of Division No. 5 for the year of 1941 was \$6,206.00. This includes salaries of all commissioners and their deputies. 147,651 acres were irrigated at a cost of .042 cent per acre for services of water commissioners and their deputies.

Dist. No.	Acres Irrigated	Commissioners' Fees	Deputies' Fees	Total
37	28,593	\$ 822.00	.....	\$ 822.00
38	36,720	702.00	\$ 245.00	947.00
39	20,765	1,254.00	.....	1,254.00
45	27,605	498.00	1,215.00	1,713.00
50	9,100	120.00	.....	120.00
52	3,583	.....	.....	.....
53	13,310	306.00	.....	306.00
70	7,975	30.00	.....	930.00
Totals	147,651	\$4,632.00	\$1,460.00	\$6,206.00

Climatological Data

The following table gives the temperatures and precipitations as recorded at Rifle: Elevation 5,355; and at Glenwood Springs: Elevation 5,823.

RIFLE						
	May	June	July	Aug.	Sept.	
Maximum Temp.....	89	94	97	98	87	
Minimum Temp.....	28	37	43	40	29	
Precipitation						Total
1941	0.82	1.26	0.43	1.04	1.58	5.13
1940	0.40	0.23	0.86	1.69	2.06	5.24
1939	0.15	0.40	0.51	0.22	2.02	3.30
1938	1.10	0.77	0.31	0.45	1.71	4.34
1937	0.25	0.33	2.17	0.54	0.71	4.00

GLENWOOD SPRINGS, COLORADO						
	May	June	July	Aug.	Sept.	
Maximum Temp.....	86	92	94	98	86	
Minimum Temp.....	33	36	43	42	31	
Precipitation						Total
1941	1.62	1.50	1.49	0.99	2.42	8.02
1940	0.62	0.45	1.21	1.49	2.50	6.27
1939	0.95	1.50	1.84	0.63	2.43	7.35
1938	2.53	3.45	0.45	1.44	2.14	10.01
1937	1.15	0.92	4.51	2.31	0.96	9.85

It will be seen by the above table that from May 1st to September 30th inclusive at Glenwood Springs in 1940, a total of 6.27 inches of rain fell as compared to 8.02 inches in the same period of 1941, an increase of 1.75 inches. At Rifle in the same period 5.24 inches fell in 1940 and 5.13 inches in 1941, a decrease of 0.11 inches. This shows the precipitation in the Glenwood Springs area was about normal, but in the Rifle area precipitation was considerably below normal.

Temperatures during the past season have been normal.

Snow Report

The following table is the average snow depth and water content of 19 snow courses on the Colorado River drainage basin within Irrigation Division No. 5 for the years 1938, 1939, 1940 and 1941 for the first of February, March, April and May, also the average for the past six years.

AVERAGE SNOW DEPTH					
	Six Year Average	1938	1939	1940	1941
Feb.	32.5	37.9	41.5	26.6	28.0
Mar.	40.5	40.4	48.1	32.2	35.1
Apr.	43.2	52.1	45.8	32.8	38.7
May	30.1	38.3	25.9	24.2	37.3

AVERAGE WATER CONTENT					
	Six Year Average	1938	1939	1940	1941
Feb.	7.4	9.4	10.1	5.8	5.5
Mar.	10.7	11.3	12.8	9.1	8.3
Apr.	13.2	15.5	14.0	10.9	11.4
May	11.2	14.8	10.3	7.8	13.5

The above table shows that on May 1, 1941, on the Colorado River basin in Division No. 5, the water content of the snow as indicated by the 19 snow courses was 13.5 inches which was 73 per cent greater water content than a year ago and 20 per cent greater than the six-year average. From this the total May, June and July run-off of the Colorado River plus the Roaring Fork River at Glenwood Springs could be estimated to be 2,072,315 acre feet. The actual run-off at Glenwood Springs was 1,764,700 acre feet. This shows 47 per cent greater run-off than in 1940, but 17 per cent less than the May 1st estimate.

The following table shows the run-off of the Colorado River plus the run-off of the Roaring Fork River at Glenwood Springs from May 1 to July 31 for the years 1937, 1938, 1939, 1940 and 1941.

	1937	1938	1939	1940	1941
May	671,200	757,400	801,400	510,000	769,000
June	534,500	1,342,500	612,300	515,600	712,300
July	268,600	482,800	186,940	172,270	283,400
Total	1,474,300	2,582,700	1,600,640	1,197,870	1,764,700

Reservoir Storage

Reservoir storage this year was about normal; on May 15 there were 21,370 acre feet in storage in 24 reservoirs in this diversion.

Range and Livestock Conditions

Range conditions have been better this year than in many years. Ranges supplied excellent forage all summer long and continued a good supply of range feed into late fall. September rains supplied soil moisture and started new feed in many areas.

Cattle were in excellent condition this fall. Marketing of cattle and calves during September were smaller than last year, due to large supplies of feed and some tendency to hold cattle. There has been a strong demand for lighter cattle and calves for feeder and stocker purposes. Cattle and calves have made above average weights in many areas.

Sheep and lambs have been in very good condition this fall, and a strong demand for feeder lambs continued all fall. Late fall and winter feed on sheep ranges is the best in many years.

Potatoes

The potato yield this year is about 60 per cent of normal due to an early frost in September. However, with present prices from \$1.35 to \$1.50, farmers are making more this year than they did last year with a normal crop.

Sugar Beets

The tonnage on sugar beets this year is somewhat below normal due to early frost.

Alfalfa

There has been considerable damage to the quality of the alfalfa crop by rains this season. However, the yield in tonnage is about 25 per cent above normal.

Small Grain

This crop is about normal this year but the quality is low due to much wet weather before threshing this fall.

Outlook

Ground preparation for fall and early spring crops was somewhat delayed due to interference by harvesting and threshing postponed previously by untimely rains, but ground condition this fall is the best in many years. Heavy early snows have fallen in the higher altitudes and the outlook now is for another good season next year.

New Work and Repairs

The small Bacon Reservoir on Sunnyside Creek in Water District No. 53 failed this year because of overtopping. This reservoir failed fifteen years ago and was not repaired or used again until this year. Upon inspection, I found the bottom of the spillway had been about a foot above the lowest point on the dam and that no water had run through the spillway. A small amount of damage was done to a state highway bridge, but no damage suits resulted from this failure.

A new outlet valve was installed in Battlement Reservoir No. 3 and a new outlet valve and tube was installed in Battlement Reservoir No. 2 in Water District No. 45 this fall. These repairs were badly needed. Storage in Battlement Reservoir No. 2 had not been allowed for the past four years due to the dangerous condition of the outlet tube.

The L. E. D. E. Reservoir dam on Gypsum Creek in Water District No. 37 was enlarged this fall. The height of the dam was increased 20 feet, which now makes the total height 35 feet. This increased the reservoir capacity from 110 acre feet to 475 acre feet. Work was done by contract. Total cost was \$7,400.00. Three carryalls with caterpillar tractors and one sheep's foot roller and caterpillar was used in construction. The project was financed and supervised by the Water Facilities branch of the Soil Conservation.

The Rifle Creek Reservoir Project near Rifle has progressed to a point where it is up to the Farmers Irrigation Company to decide whether they wish to sign the contract for its construc-

tion. This is a \$1,245,000 project to provide 10,000 acre feet of storage to supply about 7,000 acres near Rifle with supplemental water. Cost to farmers will be about \$1.20 per acre annually plus their present operation and maintenance cost. This construction will be under the Case-Wheeler Act and repayment costs have been figured on ability to repay.

A resurvey of the Consolidated Reservoir in Water District No. 38 resulted in an increase in capacity. The original plans on which the adjudication was granted showed a total capacity of 248 acre feet. The resurvey shows a total capacity of 595 acre feet. A court hearing is to be held in which the owners hope to have their original decree corrected. There are other reservoirs in this division that should have resurveys. I am certain that in some instances the original surveys would be found to be incorrect.

Trans-Mountain Diversion

Following is a report of the trans-mountain diversions from Division 5 to Divisions Nos. 1 and 2 for the irrigation season:

Eureka	76 acre feet	Colorado to South Platte
Grand River	19,194 acre feet	Colorado to Poudre
Berthoud	951 acre feet	Colorado to Clear Creek
Jones Pass	8,190 acre feet	Colorado to Clear Creek
Moffat Tunnel	36,712 acre feet	Colorado to South Boulder
East Hoosier	0 acre feet	Colorado to South Platte
West Hoosier	0 acre feet	Colorado to South Platte
Boreas Pass	0 acre feet	Colorado to South Platte
Total	65,123 acre feet	
Twin Lakes Tunnel	51,602 acre feet	
Busk-Ivanhoe Tunnel	3,726 acre feet	
Ewing Ditch	379 acre feet	
Wurtz Ditch	2,107 acre feet	
Columbine Ditch	1,324 acre feet	
Fremont Pass Ditch	591 acre feet	
Total	59,729 acre feet	
Grand Total	124,852 acre feet	

Yours very truly,

L. C. FINLEY,
Division Engineer.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
DITCH REPORT FOR IRRIGATION SEASON OF 1941
IRRIGATION DIVISION NO. 5

District No.	No. of Ditches Reported	Amount of Appropriation Cu. Ft. Per Sec.	Capacity of Canal	First Day Water Was Used	Last Day Water Was Used	Average No. of Days Water Was Carried
36						
37	215	1,830.35	1,614.38	May 15	Nov. 1	138
38	112	1,502.32		Mar. 15	Oct. 1	122
39	127		764.3	Apr. 1	Nov. 1	127
45	103	574.75		Apr. 1	Nov. 1	81
50						
51						
52	70	104.93	162.1	Apr. 15	Oct. 10	51
53	66	295.85		May 1	Oct. 20	140
70	64	210.20	298.50	Apr. 1	Oct. 28	107
Totals	757	4,518.40	2,839.28	Mar. 15	Nov. 1	109

District No.	Average Daily Amt. Diverted in Sec. Ft.	No. of Acres Used from Stream	No. of Acres That Can Be Irrigated	Alfalfa	Natural Grasses	Cereals
36			11,500			
37	878.00	278,920	29,767	12,016	10,962	3,893
38	926.00	245,232	36,720	22,810	6,145	5,290
39	416.1	127,454	25,702	11,057	3,209	2,508
45	353.70	84,835	31,409	15,793	5,880	4,821
50			21,400			
51			41,100			
52	131.98	14,872	7,171	1,020	2,228	295
53	233.10	63,671	18,632	3,740	8,575	510
70	149.69	40,193	17,645	5,402	462	1,948
Totals	3,088.57	855,177	241,046	71,838	37,461	20,265

District No.	Orchards	Market Gardens	Potatoes	Sugar Beets	Beans	Peas
36						
37		70	1,432			220
38			2,475			
39	461	282	609	1,638		
45	618	26	117	163	6	
50						
51						
52	1		39			
53			145	20		
70	1		22		140	
Totals	1,081	383	4,839	1,821	146	220

District No.	Total Irrigated	Crested Wheat	Pasture	Lettuce	Other Crops
36	8,400				
37	28,593				
38	36,720				
39	20,765				
45	27,605	157	24		
50	9,100				
51	22,180				
52	3,583				
53	13,310		10	30	275
70	7,975				
Totals	178,231	157	34	30	275

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 5 FOR THE SEASON OF 1942

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

In compliance with the provisions of the law, I transmit herewith my annual report as Irrigation Division Engineer for Division No. 5 for the year ending November 30, 1942.

There have been the usual number of minor administrative troubles, but the past year has been one of the best irrigation seasons we have had for some time.

The runoff, due to rather cold spring weather, came gradually, and as a result we had a long, steady run of water; because of this it did not become necessary to cut ditches until late in the season. When the streams did start to fall they dropped very fast and in many cases were lower than in the past few years. The low stage of the streams late in the summer was caused by the long period of dry weather.

During the past year very little construction was done due to the difficulty of obtaining materials. However three steel headgates and ten timber Parshalls were installed and two concrete diversion dams were constructed. In Water District No. 37 the L. E. D. E. Reservoir dam, consisting of an earth fill and spillway, was completed this fall.

In Water District No. 39 a general water adjudication was held for supplemental water.

Many farmers have had serious labor shortages this season due to many of the younger farm laborers being drafted into the armed services; also due to the construction of an army camp at Pando many laborers left the farms to get the high wages being paid there. In some cases farmers themselves let their farms lie idle this season and took jobs at Pando where they made from \$400 to \$600 per month. Farm labor has also been very high this year, hay hands getting from \$4 to \$5 per day and regular labor from \$60 to \$90 per month with board and room.

Administration Costs

Cost of administration of Division No. 5 for the year of 1942 was \$6,089.00 for salaries of all commissioners and their deputies. A total of 141,867 acres were irrigated at a cost of .043 cent per acre for services of water commissioners and their deputies.

Dist. No.	Acres Irrigated	Commissioners' Fees	Deputies' Fees	Total
37	26,603	\$ 738.00	.....	\$ 738.00
38	34,675	684.00	\$ 300.00	984.00
39	21,087	1,392.00	.....	1,392.00
45	28,095	498.00	1,085.00	1,583.00
50	9,100	144.00	.....	144.00
53	14,515	294.00	.....	294.00
70	7,792	954.00	.....	954.00
Totals	141,867	\$4,704.00	\$1,385.00	\$6,089.00

Climatological Data

The following table gives the temperatures and precipitations as recorded at Rifle: Elevation 5,355; and at Glenwood Springs: Elevation 5,823.

RIFLE						
	May	June	July	Aug.	Sept.	
Maximum Temp.	90	90	99	95	92	
Minimum Temp.	28	35	43	38	25	
Precipitation						Total
1942	0.35	0.20	1.27	0.43	0.57	2.82
1941	0.82	1.26	0.43	1.04	1.58	5.13
1940	0.40	0.23	0.86	1.69	2.06	5.24
1939	0.15	0.40	0.51	0.22	2.02	3.30
1938	1.10	0.77	0.31	0.45	1.71	4.34
1937	0.25	0.33	2.17	0.54	0.71	4.00

GLENWOOD SPRINGS						
	May	June	July	Aug.	Sept.	
Maximum Temp.	90	92	100	97	94	
Minimum Temp.	28	38	46	43	29	
Precipitation						Total
1942	0.74	0.38	2.20	0.79	0.52	4.63
1941	1.62	1.50	1.49	0.99	2.42	8.02
1940	0.62	0.45	1.21	1.49	2.50	6.27
1939	0.95	1.50	1.84	0.63	2.43	7.35
1938	2.53	3.45	0.45	1.44	2.14	10.01
1937	1.15	0.92	4.51	2.31	0.96	9.85

Snow Report

The following table is the average snow depth and water content of 19 snow courses on the Colorado River drainage basin within Irrigation Division No. 5 for the years 1938, 1939, 1940, 1941, and 1942, for the first of February, March, April, and May, also the average for the past seven years.

AVERAGE SNOW DEPTH						
	Seven Year Average	1938	1939	1940	1941	1942
Feb.	32.4	37.9	41.5	26.6	28.0	31.6
Mar.	40.3	40.4	48.1	32.2	35.1	41.4
Apr.	43.6	52.1	45.8	32.8	38.7	46.0
May	33.0	38.3	25.9	24.2	37.3	43.6

AVERAGE WATER CONTENT						
	Seven Year Average	1938	1939	1940	1941	1942
Feb.	7.3	9.4	10.1	5.8	5.5	6.7
Mar.	10.5	11.3	12.8	9.1	8.3	10.1
Apr.	13.1	15.5	14.0	10.9	11.4	13.0
May	11.7	14.8	10.3	7.8	13.5	12.9

The above shows that on May 1, 1942, the snow cover was about 10 per cent better than the past seven year average and about six per cent better than in 1941. Water content shows about one per cent better than the seven year average and less than one per cent under 1941. From this the May-July run-off of the Colorado River at Glenwood Springs for 1942 could be estimated to be about 1,750,000 acre feet. The actual run-off was 2,016,100 acre feet.

The following table shows the run-off of the Colorado River plus the run-off of the Roaring Fork River at Glenwood Springs from May 1 to July 31 for the years 1938, 1939, 1940, 1941 and 1942.

RUN-OFF OF THE COLORADO RIVER PLUS THE ROARING FORK RIVER IN ACRE FEET					
	1938	1939	1940	1941	1942
May	757,400	801,400	510,000	769,000	573,600
June	1,342,500	612,300	515,600	712,300	1,073,500
July	482,800	186,940	172,270	283,400	369,000
Total	2,582,700	1,600,640	1,197,870	1,764,700	2,016,100

Range and Livestock Conditions

Ranges were very dry this season, but range forage was good. September rains in the high altitudes supplied soil moisture, resulting in a good supply of range feed for late fall and winter use. Feed supplies are ample with large crops of hay and other feeds on hand for winter feeding.

Range cattle were in very good condition this fall and ranchers were receiving high prices. One rancher in this division made one shipment of 1,000 head of cattle and received \$107,240.00 for the lot. Others have reported smaller but as good sales.

Sheep men have also received high prices and sheep have been in good condition.

Crops

Adverse weather conditions during April delayed farming operations necessitating late planting of crops. Because of the prime soil moisture, the late seeding did not reduce the crop yield.

Corn and potatoes suffered some injury by a frost on September 19 in this division, but on the whole crops were in good condition.

Sugar beet tonnage averaged about 12 tons per acre, which is a little under the normal. However, sugar content was above the normal.

There was a considerable increase in potato acreage this year, but yield was not up to normal. However prices this fall have been around \$1.95 per hundred as against \$1.35 last year.

Due to the dry season the small grain was light and did not fill out as good as usual.

Trans-Mountain Diversion

Following is a report of the trans-mountain diversions from Division No. 5 to Divisions Nos. 1 and 2 for the calendar year of 1942.

Division No. 1

Eureka	0 acre feet
Grand River.....	20,149 acre feet
Berthoud Pass Ditch.....	261 acre feet
Jones Pass.....	1,595 acre feet
Moffat Tunnel	10,793 acre feet
East Hoosier.....	0 acre feet
West Hoosier.....	0 acre feet
Boreas Pass.....	0 acre feet
Total	32,798 acre feet

Division No. 2

Twin Lakes Tunnel.....	12,638 acre feet
Busk-Ivanhoe Tunnel.....	571 acre feet
Ewing Ditch.....	0 acre feet
Wurtz Ditch.....	2,110 acre feet
Columbine Ditch.....	0 acre feet
Fremont Pass Ditch.....	0 acre feet
Total	15,319 acre feet
Grand Total.....	48,117 acre feet

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
DITCH REPORT FOR IRRIGATION SEASON OF 1942,
IRRIGATION DIVISION NO. 5

District No.	No. of Ditches Reported	First Day Water Was Used	Last Day Water Was Used	Average No. of Days Water Was Carried	Average Daily Amt. Diverted in Sec. Ft.	No. of Acre-Ft. Used from Stream
36.....	.....	.....	.....	.....	.....	.....
37.....	217	May 15	Nov. 1	169	833.0	291,667
38.....	109	Mar. 15	Oct. 1	214	951.0	216,819
39.....	127	Apr. 1	Oct. 31	214	448.0	134,640
45.....	101	Apr. 1	Nov. 30	244	372.0	82,476
50.....	.....	.....	.....	.....	.....	.....
51.....	.....	.....	.....	.....	.....	.....
52.....	.....	.....	.....	.....	.....	.....
53.....	108	May 1	Oct. 20	173	220.2	59,778
70.....	60	Apr. 11	Oct. 29	201	170.6	45,240
Totals.....	722	Mar. 15	Nov. 30	202	2,994.83	830,620

District No.	No. Acres That Can Be Irrigated	Alfalfa	Natural Grasses	Cereals	Orchards	Market Gardens
36	11,500	.....	.....	.....	.....	.....
37	28,892	12,156	9,085	3,565	.....	90
38	34,675	21,650	4,625	5,430	.....	.....
39	25,681	11,041	3,271	3,699	456	277
45	6,235	15,414	7,028	4,523	593	34
50	21,400	.....	.....	.....	.....	.....
51	41,100	.....	.....	.....	.....	.....
52	7,171	.....	.....	.....	.....	.....
53	19,640	4,120	9,110	470	.....	5
70	18,625	5,365	450	1,872	6	5
Totals	214,919	69,746	33,569	19,559	1,055	411

District No.	Potatoes	Sugar Beets	Beans	Peas	Lettuce	Other Crops	Total Irrigated
36	.....	.....	.....	.....	.....	.....	8,400
37	1,315	.....	.....	302	.....	.....	26,603
38	2,970	.....	.....	.....	.....	.....	34,675
39	674	1,669	.....	.....	.....	.....	21,087
45	133	198	12	.....	.....	159	28,095
50	.....	.....	.....	.....	.....	.....	9,100
51	.....	.....	.....	.....	.....	.....	22,180
52	.....	.....	.....	.....	.....	.....	3,583
53	150	.....	.....	100	30	535	14,515
70	36	2	49	.....	.....	.....	7,792
Totals	5,278	1,876	61	492	30	694	176,030

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 6 FOR THE SEASON OF 1941

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

In compliance with the provisions of the law, I transmit herewith annual report for Irrigation Division No. 6 for the year ending November 30, 1941, together with tabulation of the Water Commissioner's annual ditch and reservoir reports.

Water supply conditions as of April 1, 1941, did not appear encouraging for a favorable irrigation supply for the season.

On the Yampa River watershed, above Steamboat Springs, it was estimated the water supply would be short of last year about 10%, and approximately 77% of the six-year average.

The headwaters of the White River had an estimated increase of 25% over the previous year, and in line with the average of the past six years.

An excess of 50% above the normal precipitation occurred during the month of April, while deficiencies were recorded in temperatures.

Soil moisture conditions at the close of the month of April were considerably above the average. The month of May was favorable for crop growth and, in most sections, for planting late crops and seed germination. The month of June had temperature deficiencies and above average precipitation.

Storage of water in reservoirs during the winter months is not a common practice in this area, except where such storage is supplied through a feeder ditch, such as the D. D. & E. Reservoir, in District No. 44 and the Simon Reservoir No. 1 in District No. 58, each of which take advantage of every storage opportunity. The Simon Reservoir No. 1 on May 1st had stored 65% of its capacity, and reached 81% by June 1st.

The Gardner Park Reservoir in District No. 58 depends upon a small drainage area surrounding the reservoir, which is inadequate to fill said reservoir during one year. The Gardner Park Reservoir on April 1st was empty, by June 1st it was within 67% of its capacity. The Sage Creek Reservoir in District No. 57, situated in the bed of Sage Creek, has access to the entire flow of the creek, will not fill in one year. The 1940 storage was held over and by May 1, 1941, said reservoir was filled to its present capacity. Readings were continued throughout the winter months on the Stillwater Reservoir No. 1. Said reservoir was permitted to start storing water in September, 1940, and through the period to May 1, 1941, had stored slightly in excess of 15% of its capacity. Said reservoir filled to its capacity during the months of May and June.

Direct irrigation commenced quite generally throughout the division by April 15th, and fall irrigation continued through to October 15th. The heavy demand for irrigation water is through the months of June, July and August, a period of about 90 days for the irrigation of hay meadows.

Stream flow during the year of 1941 was much improved over the past several years, particularly during the irrigation season; timely and beneficial rains during the growing season improved conditions on the small creeks where the irrigation supply is usually lacking.

Completion of the Stillwater Reservoir No. 1 last fall, has added materially to the administrative activities on the Yampa River during the past season. Due to a good water supply in the river and the limited capacities of some of the ditches, the owners of said reservoir demanded a very small proportion of the available storage therein, there being only 650 acre feet of storage water delivered, of the 6,000 acre feet available.

Several storage dams were inspected during the past year, as a result of which repairs or improvements were recommended upon a number of dams, but more particularly as to the D. D. & E. Reservoir in District No. 44 and the Hughes-Chapman Reservoir in District No. 58, each of which have inadequate spillways and insufficient freeboard on the dam.

Crop Conditions in District No. 58

Over a vast area of the division, but more particularly in District No. 58, freezing occurred on September 9th, causing widespread damage to spring wheat, which is almost a total loss for milling purposes. Fall wheat was not materially affected by the freezing but it is of inferior quality due to poor harvesting conditions and continuous wet weather.

The oat crop was damaged at least 50%. Barley about the same, although the acreage in barley is small in comparison to other grains.

It is estimated that the potato crop suffered a 35% loss due to freezing, and further damage was caused by difficulty in harvesting. A large percentage of the potato crop has not been harvested, due to continued wet conditions, freezing temperatures and snow.

A 40% loss in the hay crop is reported by various farmers, which is about the average for the district. All such hay is off color and unfit for baling. The hay is up to the average in production.

It has been an excellent growing season, and especially favorable for pasturage and livestock. The conditions were fairly good for the lettuce and spinach growers.

From Yampa there were shipped 94 cars of lettuce, 71 cars of spinach, 29 cars of mixed vegetables, including lettuce and spinach. The growers made some profit on these shipments, let-

tuce averaged about \$1.00 per crate net to the grower, spinach two to three cents per pound.

About 10 cars of certified seed potatoes were shipped from the Yampa section.

Crop Conditions in District No. 57

Above normal production was reported on most of the dry land grain crop, due primarily to favorable growing conditions and plenty of moisture. Slight damage to grain by frost and hail. Maximum production of wheat is 68 bushels per acre. Other reports received ranged from 30 to 60 bushels per acre. Oats averaged 75 bushels per acre.

Large acreages of grain were damaged, due to too much rain at harvest time. Some grains were not harvested at all, due to rain and fields too soft to work machinery.

Sufficient water for irrigation was available in the major streams to supply all demands. Several small creeks had insufficient supply as usual, however timely rains were helpful in producing a good hay yield in such areas.

The majority of hay was harvested and stacked in good condition. Some loss to hay is reported due to excess rains during the harvest.

Tabulation of Average Climatological Data Through Irrigation Season of 1941

Month	Temperature				Precipitation			No. of Days			
	High	Low	Mean	Depart- ure	Total	Depart- ure	With Precip.	Clear	Cloudy		
April ...	63	15	38.4	-0.1	2.74	+ .84	14	3	27	30	
May ...	81	25	51.2	+3.0	1.90	- .30	10	8	23	31	
June ...	86	26	54.2	-1.4	2.69	+1.41	12	13	17	30	
July	91	33	61.6	+0.2	1.63	- .09	7	16	15	31	
Aug. ...	93	29	59.9	+0.6	1.91	+ .14	13	7	24	31	
Sept. ...	83	18	50.9	-1.6	1.33	- .53	9	10	20	30	
Oct.	71	12	43.0	+1.2	3.01	+ .04	15	9	22	31	
Totals					15.21	+1.51	80	66	148	214	

It will be noticed that below freezing temperatures were recorded for all the above months except July. However, no damage to crops resulted by freezing until September 5th and 9th.

Sixty-two river discharge measurements were made during the year. Twelve canal discharge measurements and six seepage measurements.

Eighteen new Parshall Measuring Flumes were placed, varying in size from two to six feet.

A ten-foot concrete Parshall Flume has been installed in the river channel below the Yampa Reservoir No. 1. Flume is equipped with a Bristol automatic gauge.

Stillwater Reservoir No. 1 Seepage Condition

During administration of reservoir water July 7th to August 15th inclusive, period 40 days, a total seepage loss is estimated at 1,319.87 acre feet.

July 7th gauge 59.8 feet.....	6,208.8	acre feet storage
August 15th gauge 50.9 feet.....	4,925.4	acre feet storage
Difference in storage.....	1,283.4	acre feet storage
Portion of seepage credit charged from river.....	687.0	acre feet storage
	<u>1,970.40</u>	acre feet storage
Total amount of stored water released.....	650.53	acre feet storage
Total loss to reservoir.....	1,319.87	acre feet storage
Average daily loss over the above period	33	acre feet or 16.5 c.f.s.

Reservoir outlet closed August 15th. During the period August 15 to November 1st, a total of 78 days, the seepage loss is estimated at 1,847.1 acre feet.

August 15th gauge 50.9.....	4,925.4	acre feet storage
November 1st gauge 45.2.....	4,171.6	acre feet storage
Difference in storage.....	753.8	acre feet storage
Total amount river supply to reservoir.....	1,093.3	acre feet storage
Total loss in storage.....	1,847.1	acre feet storage
Average daily loss	23.7	acre feet, or 11.85 c.f.s.

The increased seepage losses at the early part of the season is due to the greater depth of the water. The seepage through the Morainal dyke at a 60-foot gauge height is double the quantity at a 55-foot gauge height. Such seepage will again reduce about one-half at a 50-foot gauge reading.

Stillwater Reservoir No. 1

Capacity: G.H. 61 Feet—6,392 Acre Feet
Storage by Months Starting January 1st, 1941

Date	Gauge Height	Amount Storage Acre Feet
January 1st.....	11.0	683
February 1st.....	12.0	761
March 1st.....	12.8	824.2
April 1st.....	13.5	880.5
May 1st.....	14.6	970.8
June 1st.....	34.7	2,924.4
July 1st.....	58.5	6,013.0
August 1st.....	53.8	5,286.5
September 1st.....	50.3	4,843.8
October 1st.....	46.4	4,325.6
November 1st.....	45.2	4,171.6

July 4th water up to spillway—G.H. 61 feet, 6,392.0 acre feet storage. Valve opened to lower water about three feet.

Gardner Park Reservoir

Capacity: G.H. Full—1,155 Acre Feet

April 1st.....	Empty
June 1st.....	775 acre feet
August 1st.....	Empty

Water turned out July 5th and emptied by July 30th. Run average of 15.5 c.f.s. for 25 days to supply Stillwater Ditch.

Simon Reservoir No. 1

Capacity: G.H. 23.40—1,105.72 Acre Feet

Storage by Months Starting May 1st

Date	Gauge Reading	Storage Acre Feet
May 1st.....	16.10	713
June 1st.....	19.40	887
July 1st.....	18.00	813
August 1st.....	10.00	408
September 1st.....	11.90	499
October 1st.....	14.20	615
November 1st.....	16.00	705

Started using water from reservoir May 29th and discontinued July 26th with 398 acre feet left in reservoir.

The supply ditch was allowed to divert some water for storage during irrigation period.

Construction on the Ramshorn Reservoir was ordered discontinued by forest officials pending the filing and granting of right of way permits.

Attached hereto are tabulation statements of Water Commissioners' ditch and reservoir reports.

Yours very truly,

B. T. CHASE,
Irrigation Division Engineer, Division No. 6.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
DITCH REPORTS, 1941, IRRIGATION DIVISION NO. 6

District No.	No. of Ditches Reported	Amount of Appropriation Ch. Ft. Per Sec.	Capacity of Canals	First Day Water Was Used	Last Day Water Was Used	Average No. of Days Water Was Used
43	21	194.18	300	1- 1	11-15	150
44	128	434.40	766	4- 1	10-10	57
54	46	90.16	208	4-18	9- 4	60
55	No Water Commissioner					
56	No Water Commissioner					
57	53	299.69	405	4-23	10-25	87
58	268	1,003.00	1,360	4-10	11- 1	90
Totals	516	2,011.43	3,039	1- 1	11-15	88

District No.	Average Daily Amount in Ch. Ft. Per Sec.	No. of Acre Feet Used	No. Acres Can Be Irrigated	Alfalfa	Natural Grass	Cereals
43	218.31	84,531	8,798	4,759	3,172	560
44	392.58	45,509	26,930	11,947	7,254	4,190
54	137.83	19,814	9,100	930	4,610	702
55	No Water Commissioner					
56	No Water Commissioner					
57	198.32	44,120	16,403	685	11,568	39
58	888.65	174,120	60,108	804	35,736	2,481
Totals	1,835.69	368,094	121,339	19,125	62,340	7,972

District No.	Market Gardens	Potatoes	Lettuce	Spinach	Berries	Pasture	Total Irrigated
*43		35	...	...	...	...	8,526
†44		...	...	...	...	...	23,391
‡54		33	...	...	...	...	6,275
55	No Water Commissioner						
56	No Water Commissioner						
‡57		...	...	...	...	...	12,292
‡58	21	3	164	117	49	7,008	46,383
Totals	21	71	164	117	49	7,008	96,867

*This report covers less than one-third acreage irrigated.

†Report on all adjudicated ditches in use.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
RESERVOIR REPORTS, 1941, IRRIGATION DIVISION NO. 6

District No.	Number of Reservoirs Reported	Area High Water Line Acres	Capacity in Cu. Ft.	Quantity of Water in Reservoir May 1st Cu. Ft.	Quantity of Water in Reservoir Nov. 1st Cu. Ft.
43	1	...	1,694,994	00	00
44	1	60	17,460,154	15,000,000	500,000
54	2	32	18,791,232	5,784,270	5,057,916
55	None				
56	None				
57	18	359	165,760,399	117,008,581	00
58	18	456	406,268,636	143,285,769	212,904,680
Totals	40	907	609,975,415	281,078,610	218,462,596

District No.	First Day Water Used from Reservoir	Last Day Water Used from Reservoir	Average No. Days Water Carried	Average Daily Amount of Reservoir Water Carried in Cu. Ft.
43	4-15	11-15	100	1.50
44	5- 1	7- 3	63	8.13
54	7-20	8-20	30	5.00
55	...	...	...	...
56	...	...	...	...
57	6- 2	8-20	25	8.71
58	5-27	10- 6	14	59.48
Totals	4-15	11-15	46	82.82

District No.	No. of Ac. Ft. Reservoir Water Carried	Alfalfa	Natural Grass	Cereals	Total Irrigated
43	300	40	...	...	40
44	1,025	75	150	50	275
54	300	...	...	...	...
55	...	...	...	...	...
56	...	...	...	...	...
57	537	446	290	...	736
58	3,493	25	220	115	360
Totals	5,655	586	660	165	1,411

Dist. No.

REMARKS

- 43 Only one reservoir reported of several used.
- 44 One reservoir in district used for irrigation.
- 54 Reservoirs filled after May 1st. Acreage reported under ditches.
- 55 No reservoirs in use.
- 56 No reservoirs in use.
- 57 Six reservoirs used for irrigation, totaling 53,402,560 cubic feet. Nine reservoirs not used, 39,219,163 cubic feet. Nine reservoirs used for stock water totaling 72,113,682 cubic feet.
- 58 All reservoirs filled after May 1st.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 6 FOR THE SEASON OF 1942

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

Herein is presented my annual report for Irrigation Division No. 6, together with tabulated reports of the several water districts and other pertinent data, for the year 1942.

No complex administrative problems were presented and no general administrative orders were necessary. Only minor controversies came up during the season which were settled amicably. The services of the Water Commissioners were required in most all districts from about April 15th until quite late in the fall. Violations of water orders were scarce, and co-operation on the part of the waters users was prevalent.

Water supply the past season was about the average. Head-gate diversions from the main streams of the Yampa, Elk, White and Little Snake Rivers were nearly normal and sufficient for all demands with but few exceptions. The use of water therefrom was unrestricted until late in July.

Nearly every tributary of the above streams, with the exception of White River, required local administration by the Water Commissioner all during the season, the water supply being about 50% of the demand and slightly below the average of past years. Direct irrigation continued well into late fall.

On August 16th and 17th, light frosts were recorded in districts 44, 54, 57 and 58. These frosts combined with precipitation deficiency during the months of July and August, caused some shrinkage to grain, estimated at ten to fifteen per cent, about one-half of the hay acreage reported normal, the other 50% varied from 10 to 20% of normal.

All streams reached an exceptionally low stage for the late summer and fall. Ranges were quite dry, plenty of subsistence, but not green. Stock water scarce.

Data on the snow courses as of May 1, 1942 as follows:

AVERAGES FROM YAMPA RIVER WATERSHED

Snow Depth in Inches			Water Content in Inches		
Avg.	1941	1942	Avg.	1941	1942
36.8	41.5	37.8	16.2	16.2	14.7

1942 shows 103% of the average and 91% of the 1941 reading on snow depth. While the water content was 91% of both the average content and the 1941 reading.

AVERAGE FROM WHITE RIVER WATERSHED

Snow Depth in Inches			Water Content in Inches		
Avg.	1941	1942	Avg.	1941	1942
31.2	48.3	45.6	12.6	18.6	16.0

1942 shows 146% of the average and 95% of the 1941 readings on snow depth, while the water content shows 127% of the average and 86% of the 1941 reading.

Precipitation and temperature notes during the four months' growing season:

PRECIPITATION					
	May	June	July	Aug.	Total
Depth in inches.....	1.90	1.30	1.29	.54	5.03
Departure from normal.....	-.30	+.03	-.43	-1.23	-1.93

TEMPERATURE—DEPARTURE FROM NORMAL					
	May	June	July	Aug.	Sept.
Degrees	-1.40	-.30	+.60	+1.60	+.10

Precipitation during the months of May, June, July and August show approximately two inches below normal. Temperatures for months of May and June show an average of approximately one degree below normal and for July and August about one degree above normal. Variation in precipitation and temperature from year to year, unless an extreme condition occurs, has very little, if any, effect on the normal production of the type of crops, both irrigated and non-irrigated, prevailing in this area. An abundance of sunshine prevailed this season and in general climatic conditions were favorable for crop production. The first killing frost did not occur until September 15th.

Desirable weather conditions continued throughout the harvesting period. This offset to a great extent the difficulty in obtaining farm labor and it is believed, with but few exceptions, all necessary harvesting was completed with a minimum loss to the farmer.

Very good prices were received for marketable crops and livestock. The following notes were made of vegetables and other shipments from the Toponas and Yampa sections in District No. 58. The following were earload shipments, which does not include that shipped by trucks:

	No. of Cars	Average Price Received
Spinach	213	\$ 1.00 per crate
Lettuce	83	2.50 per crate
Mixed—Lettuce and Spinach.....	66	
Baled Hay—F.O.B. Denver.....	100	15.00 per ton
Potatoes	25	2.25 per crate
Peas	15	.04 per lb.
Carrots	25	12.00 per ton

On a 40-acre irrigated tract consisting of mixed lettuce and spinach, a net profit of \$6,500.00 was reported. Another 35-acre tract consisting entirely of lettuce reported a net profit of \$6,000.00. These averages show a net profit of approximately \$175.00 per acre.

Approximately 800 acres of spinach and 700 acres of lettuce were planted in District 58, about one-half of which is irrigated. On the non-irrigated crops, farmers complained of the extreme dry summer as causing almost a total loss in some vegetable crops as well as a marked reduction in grain yield.

During the period November 30, 1941, to November 30, 1942,

the Division Engineer traveled 10,564 miles for hydrographic and administrative purposes. Seventy-two river discharge measurements were made, 15 reservoirs and 72 ditches were visited for various purposes. Thirty-six new Parshall flumes were installed in the various districts.

The Stillwater Ditch in District No. 58 started a reconstruction program this fall, consisting of cleaning and enlarging the ditch the entire length, to increase carrying capacity from about 10 cubic feet per second to 40 cubic feet per second. Headgate, spillway and Parshall flume all replaced with new construction. Some 3,000 acre feet of the Stillwater Reservoir No. 1 is owned by users under this ditch, but, heretofore, they have been unable to use such water owing to limited capacity and poor condition of the ditch.

The seepage situation of the Stillwater Reservoir No. 1 remains about the same as last year. During the period July 1 to September 1, 1942, a total of 49 days, 980 acre feet were delivered to the stockholders, during same period the total loss from seepage was 989 acre feet. The valve was closed from August 5th to September 7th, during which time the average loss from seepage was 20.18 acre feet per day. Notes were again made this year of seepage conditions and the loss from seepage at the 45-foot depth is about 25% of the loss in seepage at the 60-foot depth. Three separate points were found, extending over a distance of about 200 feet on the up-stream face of the loose rock covered natural morainal dike, where water could be observed flowing into the rock facing where it would find its way on through the porous materials constituting the morainal dike. These points showed considerable sinking of the loose rock covering on the dike. All such points were at about the 45-foot water line.

The foregoing described conditions were pointed out to the directors of the Yampa Reservoirs Public Irrigation District. However, it is not their intention to remedy these defects for the present. The district, therefore, has been given orders to hold the future storage at or below said 45-foot elevation until such necessary repairs are made.

Twenty adjudicated reservoirs were reported by water commissioner District 57, of which six were used for irrigation the past season, having a combined capacity of 53,402,560 cubic feet. Nine reservoirs were used only for stock water purposes, having a combined capacity of 37,092,239 cubic feet. Two reservoirs, with combined capacity of 15,243,354 cubic feet were unfit for use for any purpose. Two reservoirs lost their water this year by faulty outlet works prior to being applied to any beneficial purpose. This total loss was 53,384,633 cubic feet. One reservoir, with capacity of 6,673,613 cubic feet, was not used.

Of available reservoir capacity in District No. 57, less than one-third was used this year for irrigation.

An adjudication of priority rights for District No. 43 was released in July, 1942. This decree contained 244 entries, 68 of

which were new decrees and 176 formerly adjudicated water rights received additional amounts of water.

Notwithstanding the above mentioned decree, the water commissioner of District No. 43 reported only about 3% of the total number of ditches in his district. This lack of information may be partly explained by the following notation included in his field book for 1942: "Note—Summary for 1942 in District No. 43, most streams have ample supply of irrigation water. There was a shortage in Little Beaver in June, but this can be partly attributed to a large adjudication for the small watershed.

"The latter part of the season was extremely dry due to very little precipitation. There still seemed to be sufficient water for irrigation. Most of the native hay matured about August 1st, therefore, the demand for irrigation water diminished at that time."

Due to frequent spring floods on Piceance Creek, a great amount of difficulty was encountered in keeping diversion in operation, otherwise water supply was sufficient for all demands.

In conclusion, I wish to express my appreciation for all assistance given me by the office of the State Engineer and the co-operation of the water commissioners and deputies of the various water districts of this division.

Very truly yours,

B. T. CHASE,
Irrigation Division Engineer, Division No. 6.

TABULATION WATER COMMISSIONERS' ANNUAL DITCH REPORT, 1942

District No.	No. of Ditches Reported	Amount of Appropriation, Cu. Ft. Per Sec.	Capacity of Canal	First Day Water Was Used from Natural Stream	Last Day Water Was Used from Natural Stream
43	9	161.86	109.00	4-11	11-15
44	110	444.69	651.00	5-2	8-15
54	44	102.41	204.00	5-10	8-20
55	No Water Commissioner				
57	No Water Commissioner				
58	271	1,089.73	1,584.00	4-5	11-3
Totals	487	2,186.38	2,959.00	4-5	11-15

District No.	Av. No. of Days Water Carried from Natural Stream	Av. Daily Amt. of Water During Season (Cu. Ft. Per Sec.)	No. of Acre Feet Used by Canal	Total No. of Acres That Can Be Irrigated	Alfalfa
43	69	149.83	31,287	4,225	1,740
44	59	419.88	52,085	28,675	11,792
54	48	121.90	10,873	6,990	1,170
57	73	295.35	30,800	16,433	835
58	84	853.10	159,180	62,493	808
Totals	67	1,750.06	284,225	123,041	16,345

District No.	Natural Grass	Cereals	Market Gardens	Potatoes	Cabbage
43	2,018	400			
44	3,486	3,825		25	
54	3,325	500		21	
57	11,456	39			
58	35,930	2,622	98	26	1
Totals	60,215	7,386	98	72	1

District No.	Pasture	Spinach	Lettuce	Berries	Total Irrigated
* 43					4,158
† 44					23,128
† 54					5,016
† 57					12,330
† 58	8,443	308	265	42	48,543
Totals	8,443	308	265	42	93,175

*About 3% of ditches reported.
 †Complete on all ditches used.

TABULATION WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS, 1942

District No.	No. Reservoirs Reported	Area of High Water Line, Acres	Capacity in Cubic Feet	Quantity of Water in Reservoir May 1st, Cu. Ft.	Quantity of Water in Reservoir Nov. 1st, Cu. Ft.
43	No Report				
44	58	27,914,554	27,914,554	00	
54	23	8,677,416	8,677,416	1,000,000	
55	No Water Commissioner				
56	No Water Commissioner				
58	20	365	125,506,242	125,506,242	00
	19	456	227,895,400	227,895,400	193,159,101
Totals	43	911	554,413,924	389,993,612	194,159,101

District No.	First Day Water Was Used	Last Day Water Was Used	Average No. Days Water Carried	Average Daily Amount of Water Carried in Cu. Ft.	No. of Acre Feet of Water Carried
44	5-14	7-29	77	7.40	1,140
54	7-21	8-4	14	8.00	224
55	6-1	7-1	32	9.40	563
58	6-1	11-2	20	42.20	2,730
Totals	5-14	11-2	36	67.00	4,657

District No.	Alfalfa	Natural Grass	Cereals	Potatoes	Lettuce
44	360	100	17	8	
54	446	290			
55	25	50	97		12
Totals	831	640	114	8	12

District No.	Pasture	Total Irrigated	Superintendence	Repairs	Improvements
44		485		\$100.00	
54		736			
55		727	\$500.00		\$200.00
58	339				225.00
Totals	339	1,948	\$500.00	\$100.00	\$425.00

Durango, Colorado.
November 26, 1941.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir:

The annual report of Irrigation Division Engineer, Irrigation Division No. 7, for the year 1941 is herewith submitted for your approval.

Respectfully yours,

J. R. WILLIAMS,
Irrigation Division Engineer.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 7 FOR THE SEASON OF 1941

Water Supply

Total flow of Animas River at Durango during the 1941 water year was approximately 950,000 acre feet. The mean discharge for 42 years of record has been about 650,000 acre feet. 1941 runoff was forty-six per cent above the mean. For the months of May to July, inclusive, the total flow was 746,000 acre feet compared with an average of 420,000 or seventy-seven per cent in excess of average. The Animas at Durango is taken as a key station to indicate water supply conditions which existed over the division.

Snow surveys conducted and reported by the Bureau of Agricultural Engineering indicated on May 1st that the average water content in snow cover on the Animas drainage was 12.3 inches as compared with an average of 2.3 inches for a six-year period. On the San Juan proper (Wolf Creek Pass) there was 54.3 inches of water as compared with an average of 30.3 inches. On the Dolores the mean of two stations (Rico and Lizard Head Pass) was 17.5 inches, mean 8.2 inches. For the San Juan and Dolores watersheds the water storage in snow at high elevations was four and one-half times that of 1940 and double the six-year average. This great amount of accumulated water indicated not only that there would be excessive runoff but also the possibility of extreme flood peaks should the weather conditions develop to be such as to induce sudden runoff. The total watersheds were snow covered above seven thousand feet elevation. At low elevations, seven to eight thousand feet, the snow had absorbed the excessive rains during April. Both the ground and snow cover were completely saturated.

Heaviest spring floods occurred on all streams during the second week of May as a result of clear warm days for about seven consecutive days. Peak at Durango on May 13th was

10,700 second feet, which was the highest flow since September, 1927. At Dolores the peak was 8,740 second feet early on the 14th, which peak was exceeded only by the October, 1911, flood. The river at Dolores was out of its banks. Several hundred feet flowed down Railroad Avenue which parallels the river. Levee work by city forces kept water from flooding the Main Street, which was flooded in 1911.

Precipitation

Precipitation at Durango for the water year totaled 30.76 inches. This total was exceeded for the same period during the water year of 1910-11, when the total was 33.29 inches. The average is 20.02, as shown by the following table with comparisons of 1941 with 1911.

PRECIPITATION IN INCHES AT DURANGO

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
Mean	1.77	1.38	1.73	1.58	1.72	1.82	1.61	1.07	0.89	2.41	2.26	1.78	20.02
1941	1.07	1.62	3.61	1.77	1.81	3.46	4.15	3.41	2.37	0.86	1.70	4.93	30.76
1911	4.00	1.20	0.35	3.48	7.02	3.14	1.50	0.59	1.09	5.21	2.89	2.82	33.29

Departure for the year was plus 10.74 inches or fifty-three per cent.

Flood Damage

There were two periods of flood flow. The first during the second week of May and the second during the third week of June. There occurred also widely separated flows of flood proportion in late September and in October which on the La Plata and Mancos Rivers exceeded the spring flow.

Water commissioners were instructed to record flood damage but this was done in two districts only and itemized only in District 34. Such itemized data is recorded in the field books of District 34 and summarized in District 30.

The following table summarizes the damage as recorded by water commissioners of Districts 30 and 34.

FLOOD DAMAGE

Dist. No.	Stream	Crops	Irrigation Structures	Railroads, Bridges, Roads, Etc.	Land Acres	Erosion Value	Total
30	Florida	*\$11,350	\$ 3,000	\$ 2,600	50	\$ 2,500	\$19,450
	Animas and Hermosa	15,000	2,500	1,700	75	3,750	22,950
	Lightner and Junction Creeks	2,600	800	10,200	9	450	14,050
34	Dolores	No Est.	2,190	5,800	53	4,400	12,390
	Mancos	No Est.	984	600	2	100	1,684
Totals		\$28,950	\$ 9,474	\$20,900	189	\$11,200	\$70,524

*Includes an estimated \$10,000.00 damage by hail.

The estimated damages suffered on the Mancos and Dolores are believed to be fairly accurate as they were obtained by close observation from land and ditch owners and the railroad company (R.G.S.). Comparable damages occurred in other districts except in District 31 on Pine River, where the Vallecito Dam im-

pounded flood peaks and later released the flow in conformity with desired regulations to permit work on the dam and to meet irrigation needs on the stream. Since the U. S. Engineers are investigating flood control methods on the Animas and other streams it is believed that complete reports will be made available later. In addition to the damages listed on the Dolores River there were recurring damages suffered during September and October which practically duplicated those of the spring floods.

Temperatures and Growing Season

There was consistent deficiency in temperatures recorded by the U. S. Weather Bureau from June to September at all stations in the division. The average monthly deficiency was 2.3 degrees. The latest light frost occurred on June 11th and earliest killing freeze on Sept. 9th. The frost free period covered ninety days.

Use of Water

Total diversions for direct irrigation were 427,710 acre feet. One hundred and fifty thousand acres were irrigated. Headgate duty 2.85 acre feet per acre, 18,870 acre feet was used from storage. Natural flow was sufficient generally for the entire season to meet beneficial requirements of lands irrigated from streams direct. In District No. 34, the Ground Hog Reservoir storage amounted to 18,000 acre feet at peak. A very small amount was released to the stream for use in Montezuma Valley. On November 1st there was in storage 103,600 acre feet which can serve as a carryover for 1942. With completion of the Vallecito Dam on Pine River to impound 126,000 acre feet there is now approximately 170,000 acre feet storage capacity for irrigation in the division. In a less favorable water year than 1941 the benefits of such storage shall be realized.

Crops

Major crops continued to be hay and small grains. Intensified farming of row crops may develop with use of supplemental late water. Hay and grain crops were good but severe losses were caused by excessive rains during September and October.

Improvements

The Vallecito Dam on Pine River, so far as storage capacity is concerned, has been completed. There remains to be placed the parapet wall on crest of dam. Just who will operate the project remains to be determined, whether the Bureau of Reclamation will operate or turn it over to the Irrigation District seems to be undecided. A study by the F.S.A. in respect to placing a large tract of land under irrigation is being made. The tract embraces about 12,000 acres. A maximum of 64,500 acre feet in

storage on July 1st. Storage was commenced during April after the outlet tube gates were placed.

Construction of Jackson Gulch Reservoir near Mancos has been started by the Bureau of Reclamation using CCC labor. This project qualified under the Case-Wheeler Act.

The La Plata Reservoirs have not as yet been authorized but supposedly continue in the reclamation program. The F.S.A. are also studying this project on Red Mesa under the proposed Long Hollow Reservoir.

Administration

Because of the plentiful water supply there were no administrative troubles experienced. The 1941 season is recorded as the most favorable yet experienced in this division so far as water supply is concerned.

Tabulated statements of Water Commissioners' Reports conclude this report.

IRRIGATION DIVISION NO. 7

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS, 1941

Dist. No.	Amount Appropriated in Cu. Ft.	Capacity of Canals (Sec. Ft.)	First Day Water Was Used from Natural Stream	Last Day Water Was Used from Natural Stream	Number of Days Water Was Used from Natural Stream	Average Daily Amt. Used (Sec. Ft.)
29.....	*589	*639	No Report	No Report	...	...
30.....	608	820	May 10	Oct. 31	174	276
31.....	764	1,005	May 1	Oct. 31	184	307
33.....	292	451	May 5	Sept. 30	132	113
34.....	774	865	May 8	Oct. 5	160	337
69.....	152	133	May 4	Sept. 15	131	23
Totals.....	3,179	3,913	May 1	Oct. 31	184	1,160

*Estimated by Irrigation Division Engineer. No commissioner was employed during 1941.

Water Districts 32 and 46 are not reported because the water in such districts has not been decreed.

Dist. No.	Number of Acre Feet Used from Natural Stream	Number of Acres That Can Be Irrigated	Crops Irrigated			Orchards
			Alfalfa	Natural Grasses	Cereals	
29	*75,000	*43,000	No Report			
30	95,990	65,363	10,786	4,881	6,427	717
31	112,980	56,636	13,024	10,218	11,838	205
33	29,870	21,450	5,205	2,061	5,378	61
34	107,820	64,915	14,527	8,671	13,287	1,012
69	6,050	4,800	1,096	760	680	17
Totals	427,710	256,164	44,638	26,951	37,610	2,012

Dist. No.	Crops Irrigated						Total
	Market Gardens	Potatoes	Beans	Seed Crops	Other Crops		
29	No Report						*25,000
30	6	343	300				23,460
31	102	236	109	1,099		83	36,914
33	104	93	234			112	13,248
34	281	1,029	2,000			2,657	43,464
69	0	45	40			232	2,870
Totals	493	1,746	2,683	1,099	3,084		144,956

*Estimated by Irrigation Division Engineer.

TABULATION OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS FOR 1941

Dist. No.	No. of Reservoirs in District	Area of High Water Line (Acres)	Capacity in Acre Feet	Amt. in Storage		First Day Water Was Used from Storage	Last Day Water Was Used from Storage
				May 1st	Nov. 1st		
29				No Record			
30		899	*25,394	10,148	*24,640		
31		3,077	128,050	1,880	52,960	†	
33		36	576	576	576	July 16	Sept. 17
34		980	16,130	14,710	8,080	May 12	Sept. 18
69		672	21,805	1,635	17,300	July 31	Aug. 28
Totals	18	5,664	191,955	28,949	103,556	May 12	Sept. 18

*Includes 24,000 acre feet capacity of Electra Lake used in power development.

†No use for irrigation.

‡No record of use for irrigation.

Dist. No.	Number of Days Water Was Used from Storage	Average Daily Amount Used (Sec. Ft.)	Number of Acre Feet Used	Crops Irrigated			
				Alfalfa	Natural Grasses	Cereals	Orchards
30	No use for irrigation						
31	No record						
33	30	5.9	355	139		72	
34	130	70.8	18,420	6,304	3,367	5,842	616
69	29	1.7	99			60	
Totals	130	72.6	18,874	6,443	3,367	5,974	623

Dist. No.	Crops Irrigated (Acres)				Cost		
	Market Gardens	Potatoes	Beans	Total	Superintendence	Repairs	Improvements
30	No use for irrigation						
31	No record						
33	17	7		242		\$134.65	
34	105	509	2,367	19,110	*\$67,348.00	50.00	\$650.00
69				60			
Totals	122	516	2,367	19,412	*\$67,348.00	\$184.65	\$650.00

*Includes \$53,474 expended by the Montezuma Valley Irrigation Company for maintenance and operation of entire reservoir and canal system. Also includes \$13,589 expended by the Summit Reservoir Company for maintenance and operation.

ANNUAL REPORT OF DIVISION ENGINEER OF IRRIGATION DIVISION NO. 7 FOR THE SEASON OF 1942

Following a season of excessive moisture and stream flow the 1942 season was almost the exact opposite so far as the climatological conditions are considered during the growing season.

After October, 1941, which was the highest month of recorded precipitation in the San Juan Basin, the precipitation from November through March was considerably deficient. More than the usual amount of rain and snow fell during April, particularly in the high areas. There was no accumulated snow on the ground as of April 1st below 8,000 feet and heavy accumulated snow depths were confined to a limited area above 9,500 feet. During May and June the total recorded rainfall at Durango was 0.22 inch, which was considerable of a dry spell. July, August and September were little better although there did occur scattered hail and rain storms of intensity.

Temperatures averaged below normal throughout the summer and particularly during June. Frost free period was from May 20th to October 15th. The average cold during June was beneficial in the restriction of run-off but not to growing crops, although no severe or killing frosts occurred as usually happens in this country.

Accumulated snow on the San Juan and Animas watersheds as of April 1 was about average. On the Dolores it appeared that there existed a slight deficiency. About ten per cent.

The run-off of Animas River at Durango for the period of April through July was 540,000 acre feet, which was 60,000 acre feet, or twelve per cent in excess of the average. The Dolores River at Dolores discharged 415,000 acre feet during the same period. This amount was 145,000 acre feet in excess of the mean. Per cent of excess was fifty-five. The ground water tables were high from heavy rainfall of preceding October, which accounted for the run-off in excess of that indicated by snow surveys.

The spring flood peaks were of about normal volume. Peak flow occurred on June 12th at Durango but generally the peaks came on the 27th of May.

Use of Water

A total of 472,400 acre feet was diverted from the natural streams for direct use and was applied to 144,000 acres. The natural flow was in most areas sufficient for requirements until the end of June.

Supplemental water from storage was used from July 1st to October 15th. A total of 74,080 acre feet was used from storage. The largest amounts were used in the Pine River District and in

the Montezuma Valley under the Vallecito and Ground Hog Reservoirs, respectively. This was the largest and most beneficial use of reservoir water in the history of the area. The Ground Hog Reservoir was full early in May owing to the large carry-over from October. The Vallecito Reservoir was filled to a capacity of 91,000 acre feet on July 1st, at which stage storage was limited by the Bureau of Reclamation as a safety measure for this season. Full capacity of 126,000 acre feet could easily have been stored.

Crops

In areas depending only on natural flow the crops were deficient. One cutting of hay was made. Grain crops matured but yield was light. Row crops were spotted and deficient in yield. In Pine River and Montezuma Valleys full crops were made by use of storage reserve water.

Repairs, Improvements

Repairs were made at Bauer Lake Dam No. 2 by widening the dam and raising it to proper elevation to permit full storage. A section of the dike at same reservoir was also improved but not completed.

Both feeder canals to Ground Hog Reservoir were lost by land slides in the spring and were not repaired. Work is now in progress to clean them so as to make diversions possible in 1943.

The outlet measuring flume at this reservoir was not repaired to make it function properly. Amounts of water released to the stream were determined from daily gauge readings and capacity table.

No new structures were built. The Mancos Project which involved the construction of Jackson Dam was discontinued because of lack of men and material.

Administration

No extraordinary problems of administration arose. The storage water released to Pine River was diverted by all canals on the stream as project water without consideration of priorities. Sufficient flow was released at all times to supply all needs in the district. More flow was released than required and much of it was wasted. The District Directors called for the closing of trans-mountain diversions from head waters of the Pine to the Rio Grande but this action was denied because of the waste of water in the Pine River District.

The Ground Hog water is released to the stream in District No. 69 and diverted by Main No. 1 and No. 2 canals near Dolores in District No. 34. This causes the stream to be policed through two water districts. There were some minor infractions of head-gate orders along the stream but all were enforced without serious trouble.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL
DITCH REPORTS, 1942

Dist. No.	Number of Ditches	Amt. Appropriated in Cu. Ft. Per Second	Capacity of Ditches (Sec. Ft.)	First Day Water Was Used from Natural Stream	Last Day Water Was Used from Natural Stream	No. of Days Used from Natural Stream
29.....	220	589	639			...
30.....	173	608	827	May 1	Nov. 15	200
31.....	55	675	1,030	May 18	Oct. 20	155
33.....	34	272	522	Apr. 16	Nov. 22	174
34.....	54	727	840	Apr. 1	Oct. 18	201
69.....	30	152	161	Apr. 6	Oct. 20	198
Totals.....	596	3,023	4,019	Apr. 1	Nov. 22	236

Dist. No.	Average Daily Amt. Diverted	Number Acre Feet Used	Total Number of Acres That Can Be Irrigated	—Crops Irrigated (Acres)—		
				Alfalfa	Natural Grasses	Cereals
29.....	...	*75,000	*43,000	.....	.....	.....
30.....	241	96,260	59,890	10,186	4,621	6,377
31.....	496	153,800	59,000	13,094	11,692	10,208
33.....	65	22,740	21,360	4,939	1,626	4,775
34.....	294	118,060	65,120	13,281	17,610	7,449
69.....	17	6,590	3,530	1,021	930	865
Totals.....	1,001	472,450	251,900	42,521	36,479	29,674

*Estimated by Division Engineer. No report by Water Commissioner.

Dist. No.	Crops Irrigated (Acres)						Total Irrigated
	Orchards	Market Gardens	Potatoes	Beans	Other Crops		
29.....	.....	.....	.....	.....	.....	*25,000
30.....	621	6	261	270	.....	22,342
31.....	204	77	64	3	1,360	36,635	
32.....	.....	.....	.....	.....	.....	*3,000
33.....	52	88	71	.....	139	11,690
34.....	836	0	582	2,000	557	42,315	
69.....	21	0	40	.....	184	3,061
Totals.....	1,734	171	1,018	2,273	2,240	144,043	

*No report. Estimated by Division Engineer.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS

Dist. No.	Number of Reservoirs	Area of High Water Line (Acres)	Capacity in Ac. Ft.	Quantity in Reservoir May 1st	Quantity in Reservoir Nov. 1st	First Day Water Was Used	Last Day Water Was Used
29	3	....	620	....	....	.....	.....
30	3	899	*24,390	15,430	19,750	July 28	Aug. 25
31	2	3,077	128,050	44,370	48,830	July 1	Oct. 15
33	1	37	576	576	0	June 22	July 28
34	8	980	16,149	15,866	1,525	May 4	Sept. 13
69	2	674	21,810	21,280	9,980	July 20	Oct. 12
Totals	19	5,667	192,135	97,522	80,085	May 4	Oct. 15

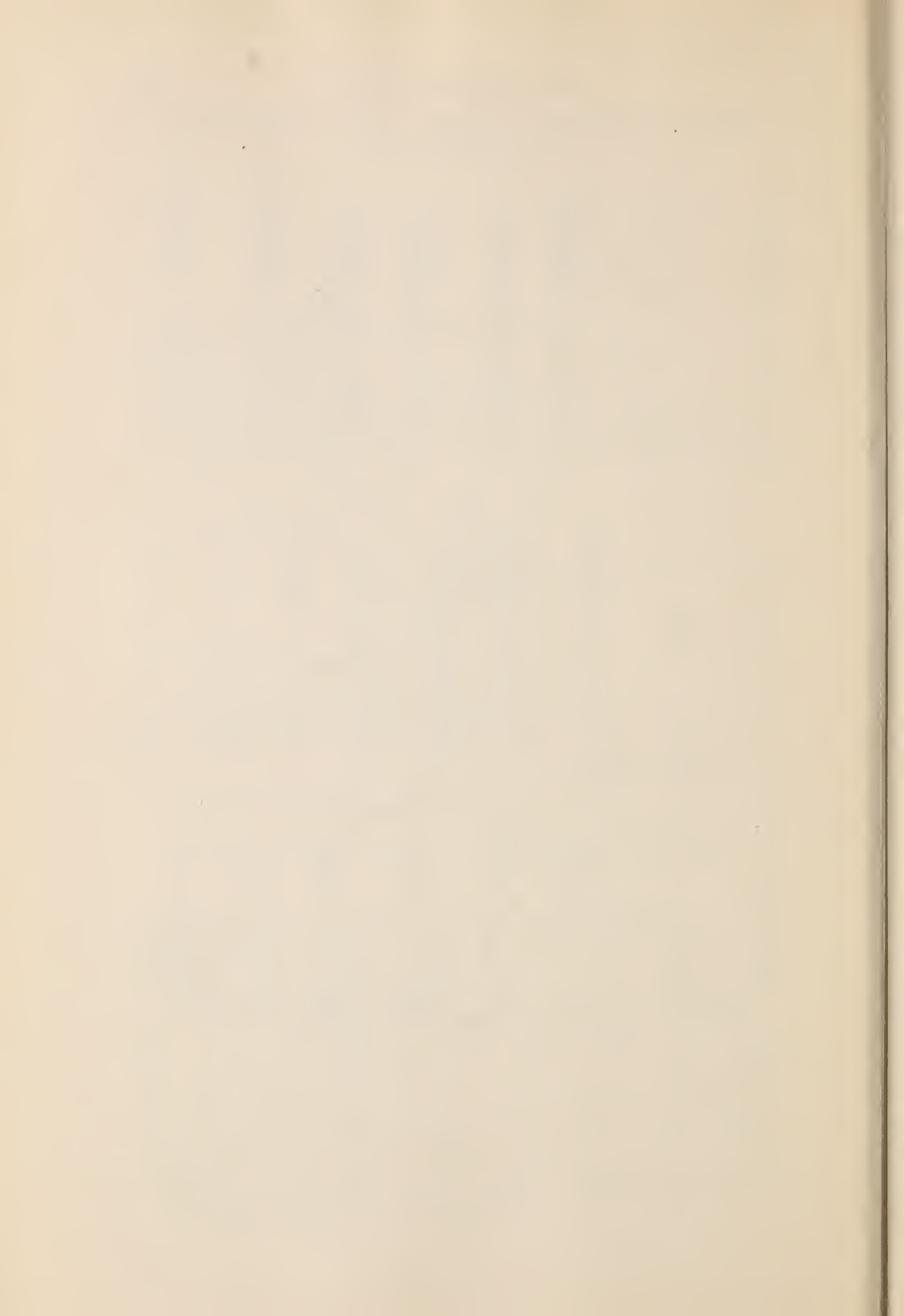
*Includes 24,000 acre feet capacity of Electra Lake. Used in power development.

Dist. No.	Number of Days Used	Average Daily Amount Used	Number of Acre Feet Used from Storage	Crops Irrigated			
				Alfalfa	Natural Grasses	Cereals	Orchards
29	...	...	*620	...	...	...	...
30	11	10	440	150	...	150	15
31	107	197	42,190	Supplemental to Natural Flow			
33	14	8.2	231	143	...	40	7
34	127	63.7	16,203	2,355	780	1,450	126
69	71	101	14,410	Supplemental to Natural Flow			
Totals	127	292	74,094	2,648	780	1,640	148

*No report. Estimated.

Dist. No.	Crops Irrigated					
	Market Gardens	Potatoes	Beans	Other Crops	Total	Cost
30	20	...	...	...	335	\$ 4,779
31	..	...	...	...	...	No Report
33	20	2	...	...	212	No Report
34	..	150	1,225	200	6,286	7,243
69	..	...	...	...	...	No Report
Totals	40	152	1,225	200	6,833	\$12,022

Note: Cost includes operation, maintenance and repairs.



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