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1998 Colorado Corn Performance Trials



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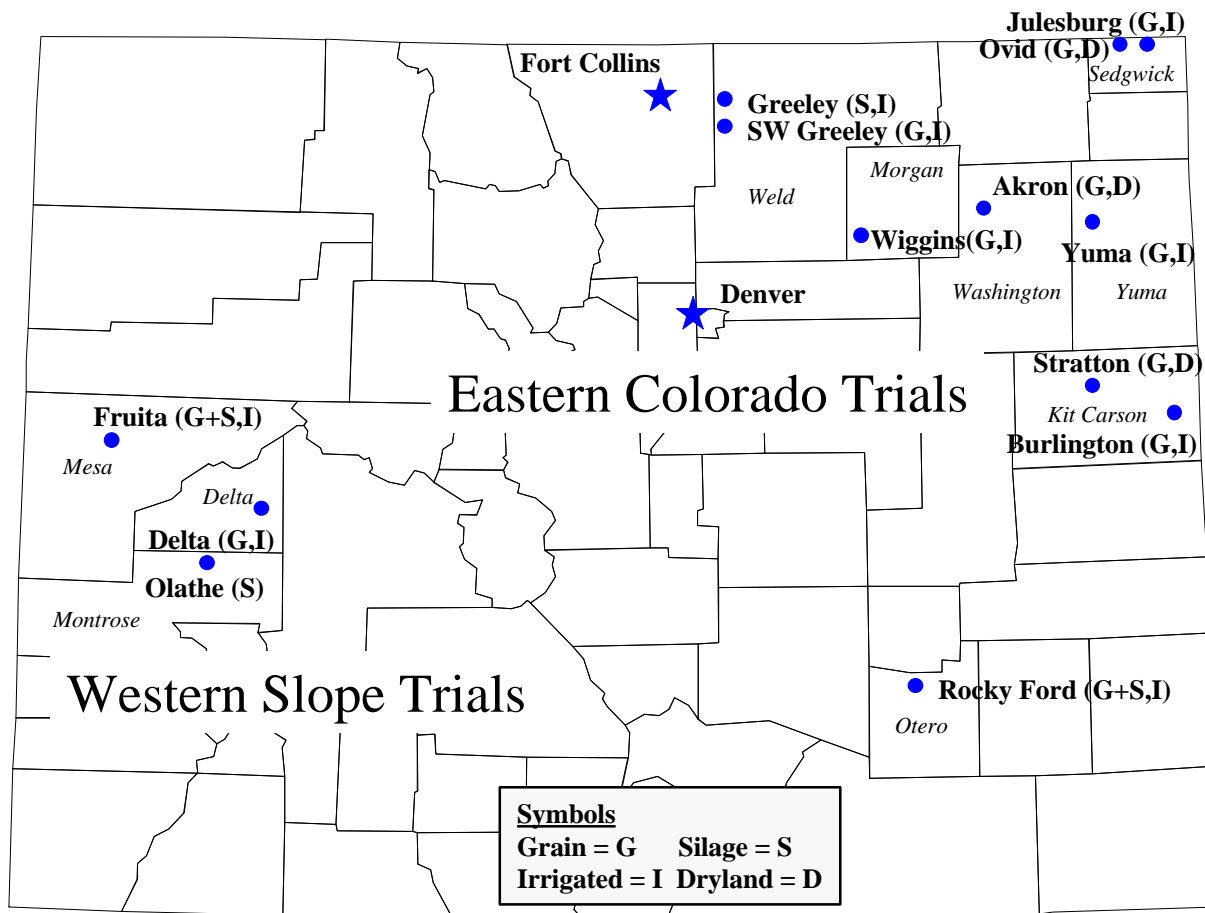
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1998 Colorado Corn Variety Performance Trials



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1998 COLORADO CORN PERFORMANCE TRIALS

Introduction

Colorado corn producers annually plant approximately one million acres of hybrid corn, for grain and silage. Hybrid corn seed, valued over \$30 million, is purchased every year by Colorado corn producers from hybrid seed corn companies. The Colorado seed corn market attracts many commercial seed companies. Variable climatic conditions, innovations from biotechnology, acquisitions and mergers of seed companies, and rapid evolution of new hybrid lines make it difficult for Colorado corn producers to choose the best hybrid for their farm.

To help corn growers make better hybrid decisions, Colorado State University personnel evaluate commercial corn hybrids at multiple locations to provide reliable and unbiased hybrid performance information to Colorado corn growers. Participation by the seed companies in the state trials is completely voluntary. All commercial companies are given the opportunity to enter one or more hybrids at any location. In addition to paid entries, each cooperating grower selects two commercial hybrids of local importance to be entered in the trial. Reference to commercial companies or hybrids is made with the understanding that no discrimination is intended and no endorsement is implied by Colorado State University.

In 1998 corn grain hybrids were tested under irrigation at six Eastern Colorado locations and three Western Slope locations. Dryland corn hybrids were tested at three locations in Eastern Colorado. Silage corn hybrids were tested at two Eastern Colorado locations and two Western Slope locations. Unfortunately, the data from the Greeley silage trial could not be used. Eastern Colorado trials were conducted by Colorado State University's Department of Soil and Crop Sciences (Crops Testing), and Western Slope trials were conducted by Calvin Pearson of the Fruita Research Center, Colorado Agricultural Experiment Station.

A randomized complete block field design with three replicates was used at all Eastern Colorado irrigated trials and four replicates were used in all dryland trials. Target plant populations for the trials were 32,000 and 15,000 seeds per acre for irrigated and dryland trials, respectively. Irrigated trials were planted at 15% above target population and dryland trial target populations were attained by hand thinning. The center two rows (200 ft²), of four row plots, were harvested for grain yield. Western Slope trials were

planted at a target population of 33,500 seeds per acre. Plot area harvested was approximately 230 ft².

All grain yields are reported in bushels per acre adjusted to 15.5% moisture content. Additional variables reported are grain moisture at harvest, test weight, plant height, lodging and/or stalk breakage, plants per acre, and ear drop. Ears dropped per plot were counted at the time of harvest, but fallen ears are not shelled nor included in the plot yields. A silk date is reported for the Rocky Ford trial. Silage yields are reported in tons per acre adjusted to 70% moisture content. The moisture content of the silage at harvest also is reported, as an indicator of hybrid maturity at harvest. The least significant difference (LSD) value, $\alpha=0.30$, is reported for yield¹. The coefficient of variation (CV) for yield is also reported.

The 1998 Cropping Season

The 1998 corn cropping season in eastern Colorado can be characterized by the following observed phenomena:

- above normal growing degree days (GDD)
- isolated, but small, hail storms
- precipitation was generally above normal over much of the region but isolated areas that received both much above and much below normal precipitation,
- later than normal killing frost
- higher than normal test weights
- low corn borer problems
- very low western bean cutworm problems
- above average spider mite occurrences

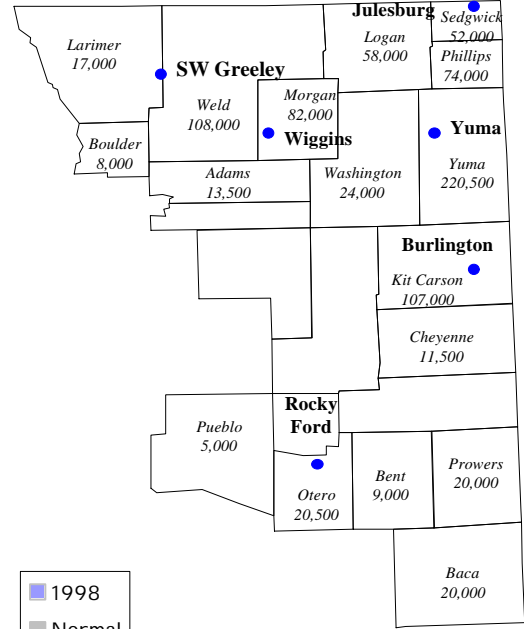
GDD calculations are accumulated from May 1 to September 30 based on daily temperatures as the average daily high and low temperature minus 50° F. For calculating the mean daily temperature, a minimum temperature below 50° F is counted as 50° F, and a maximum above 86° F is counted as 86° F.

¹Carmer, S.G. 1976. Optimal significance levels for application of the least significant difference in crop performance trials. *Crop Sci.* 16:95-99.

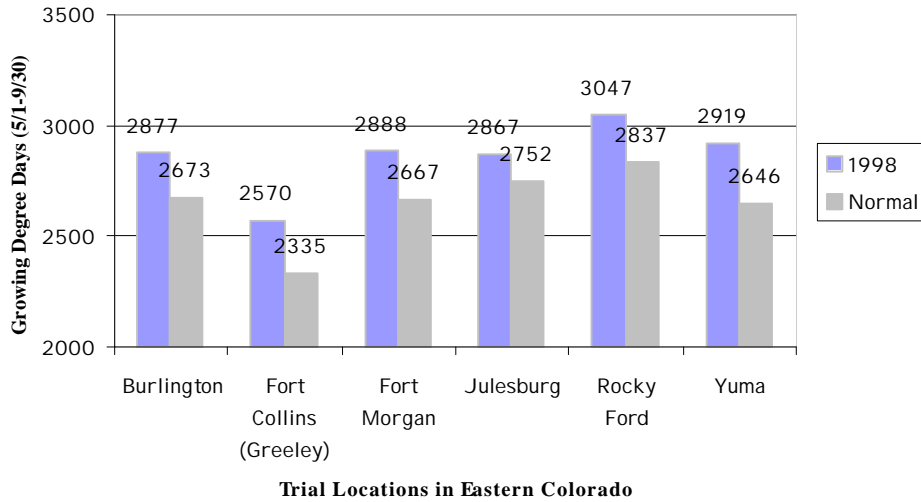
Eastern Colorado Irrigated Hybrid Grain Corn Performance Data

Each year about 750,000 acres of irrigated corn for grain are planted in Colorado, yielding 120-165 bu/acre, and producing upwards of 100 million bushels of corn with a value of \$210-\$250 million. Irrigated corn producers spend about \$22 million a year for seed. CSU conducts hybrid performance trials to provide unbiased and reliable information to Colorado producers so they may select the best hybrids for their conditions.

Six eastern Colorado irrigated corn trial locations for 1998 and the 1997 corn acreage harvested in seventeen important corn producing counties of Colorado.



1998 vs Normal Growing Degree Days at grain hybrid trials



The single most important climatic factor determining irrigated corn yield is growing degree days. GDD in 1998 were above the long term average GDD at all locations.

Table 1. Irrigated grain cultural conditions in 1998

	Burlington	Greeley	Julesburg	Rocky Ford	Wiggins	Yuma
Soil Type	Keith Silt Loam	Nunn Clay Loam	Keith Silt Loam	Silty Clay Loam	Bijou Sandy Loam	Haxtun Sandy Loam
Previous Crop	Corn	Corn	Corn	Onions	Corn	Pintos
Fertilization						
N acre ⁻¹	180	185	160	175	237	270
P ₂ O ₅ acre ⁻¹	60	30	45	50	45	55
K ₂ O acre ⁻¹					36	14
Zn acre ⁻¹		2.5	2		1	.5
S acre ⁻¹		5	5		5	5
Herbicide	Marksman Prowl	Bladex 90 Dual II	Basis Gold	Dual Bladex	Dual Bladex Tuff Clarity	Bicep Light
Insecticide	Furadan	Counter CR	Pennacap	None	None	None
Irrigation	Sprinkler	Furrow	Sprinkler	Furrow	Sprinkler	Sprinkler

Table 2. Irrigated corn hybrid performance at Burlington in 1998¹

Hybrid	Grain		Test	Plant	Density	Lodging
	Yield	Moisture	Weight	Height		
	bu/ac	%	lb/bu	in	plants/ac	%
Asgrow RX670	228	15.0	56.1	91	32568	2
AgriPro AP 9565	213	17.9	57.9	92	29946	15
Farm Check 1*	211	19.3	59.3	93	28519	5
LG Seeds LG2579	208	15.7	57.8	90	31151	3
Grand Valley SX1264	206	17.3	59.4	87	29042	2
Stauffer 2436	206	16.9	58.1	89	30792	2
Fontanelle 5117	205	17.0	56.8	96	29906	3
AgriPro AP 9489	204	17.1	60.1	87	31167	2
Stauffer 2207	203	19.9	58.2	91	27861	5
AgriPro AP 9520	203	15.6	56.7	90	31490	4
Asgrow RX697	202	16.8	59.8	82	28271	3
Asgrow RX730	201	17.5	58.3	90	29814	2
Golden Harvest H-2547	201	17.9	57.8	90	30750	9
Wilson E6011	200	18.0	59.4	87	28826	3
Grand Valley SX1300	200	15.7	57.2	94	29675	8
NC+ 4880	199	16.4	58.6	89	32593	4
Miller Preferred MP-1063	199	17.0	60.5	87	29913	3
Wilson E3034	198	14.5	56.8	96	30080	3
Grand Valley GVX8258	198	15.9	56.9	85	29344	11
Kaystar KX-777	198	20.8	57.7	90	30190	2
Novartis NX6567 (BT)	197	16.7	58.4	93	27930	7
Wilson 1475PT (IMI)	197	17.0	57.9	89	30244	2
Wilson 1664	195	19.4	57.9	94	28969	9
Farm Check 2*	194	15.0	59.1	91	29254	2
Novartis N59-Q9	193	15.4	58.6	96	29915	6
LG Seeds LG2539	193	15.0	56.4	93	28608	9
Novartis NX5867 (BT)	192	17.5	59.0	90	30549	3
Golden Harvest H-2478	192	14.2	56.9	85	28208	6
LG Seeds LG2530	191	15.9	58.4	96	29547	6
Mycogen 2722	191	19.6	57.7	97	32175	1
DEKALB DK540	191	16.4	60.0	89	27726	15
Fontanelle 5306	190	15.7	58.2	93	29318	9
Novartis N7070 (BT)	190	21.3	57.6	99	31007	11
DEKALB DK551	190	14.1	57.3	95	28849	10
Grand Valley GVX7268	189	16.7	59.3	96	30497	5
DEKALB DK525	189	14.1	58.8	92	26356	11
Golden Harvest H-2515	188	19.0	56.8	94	29576	7
Mycogen 2620	187	15.6	59.7	87	28651	6
Triumph 8810	185	14.2	56.3	93	28837	6
Grand Valley GVX4615	184	18.1	60.2	90	31084	2
AgriPro AP 9440	182	15.6	58.6	90	31120	2
Grand Valley GVX3358	179	16.7	57.1	92	29796	2
Grand Valley GVX0268	175	20.0	57.3	91	29688	6
NC+ 5338	173	20.8	58.8	90	29768	4
Wilson E4032 (BT)	141	29.8	55.5	96	27403	4
Average	195	17.2	58.1	91	29710	5
CV%	6.5					
LSD _(.30)	10.7					

¹Trial conducted on the Dennis Coryell farm; seeded 5/1 and harvested 10/22.

*Farmer Check 1 - Pioneer 3514; Farmer Check 2 - Pioneer 3568

Table 3. Irrigated corn hybrid performance at Greeley in 1998¹

Hybrid	Grain		Test	Plant		Lodging
	Yield	Moisture	Weight	Height	Density	
	bu/ac	%	lb/bu	in	plants/ac	%
DEKALB DK493 (BT)	194	14.4	56.6	91	34394	5
SEEDDEX 7019	191	18.5	54.4	93	32216	1
SEEDDEX 7015	186	16.2	57.5	87	33851	1
AgriPro AP 9340	182	18.2	57.0	92	34852	1
AgriPro AP 9313	179	15.0	56.9	91	33663	2
Golden Harvest H-2547	179	24.2	56.0	93	34848	1
AgriPro AP 9280	179	15.0	57.7	93	33482	1
Kaystar KX-625	176	17.7	58.7	88	31202	1
Grand Valley GVX7236	176	14.7	56.1	95	31883	1
Miller Preferred MP-1063	175	24.5	58.2	86	33194	1
LG Seeds LG2483	175	15.6	55.7	79	31512	1
Farm Check 2*	173	23.0	58.8	87	31835	0
LG Seeds LG2473	172	15.2	56.6	91	32667	1
Grand Valley SX1231	172	17.0	56.5	91	32936	1
Grand Valley GVX0946	171	15.7	57.3	90	34462	0
Fontanelle 4997	171	28.8	59.4	96	31672	1
NC+ 1888	170	16.7	57.6	94	33919	2
Grand Valley SX1216	170	14.9	56.9	87	31597	1
Fontanelle 4193	169	22.1	57.8	85	32461	1
Grand Valley GVX7297	169	15.7	57.4	99	32910	1
Triumph 9932	168	19.9	58.0	87	35496	3
Grand Valley GVX4776	168	14.3	55.2	87	31920	1
DEKALB DK449	168	14.2	57.8	87	33124	1
Mycogen 2569	167	17.2	56.9	85	33661	1
Mycogen 2593	167	16.5	58.4	83	34031	0
Cargill 3911	166	18.9	58.0	86	34125	2
AgriPro AP 9368	166	17.7	56.7	90	32919	1
DEKALB DK477	165	14.5	57.1	89	30975	2
Farm Check 1*	163	19.6	58.6	81	30100	2
Miller Preferred MP-0991	162	14.1	54.5	84	32158	2
Grand Valley SX1215	161	14.9	54.8	89	33194	1
Cargill 3677	160	16.2	59.0	90	31672	4
Mycogen 2395	159	16.5	58.9	81	33185	0
Grand Valley GVX7219	154	16.6	57.7	86	33725	2
Golden Harvest H-2564	134	35.9	54.0	103	34122	2
Golden Harvest H-2643 (IMI)	127	40.8	54.3	107	34488	3
Average	169	18.6	57.0	90	33013	1
CV%	6.4					
LSD _(.30)	9.3					

¹Trial conducted on the Jim Geist farm; seeded 5/2 and harvested 11/21.
Negligible ear drop.

*Farmer Check 1 - Pioneer 3752 Farmer Check 2 - Pioneer 3752 (BT)

Table 4. Average irrigated corn hybrid performance at Greeley/Eaton, 1997-98

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
DEKALB DK493 (BT)	193	18.3	54.1
Grand Valley SX1231	188	20.3	53.4
AgriPro AP 9340	188	21.6	53.5
Grand Valley GVX7297	186	18.4	55.6
Fontanelle 4193	185	23.8	54.9
Fontanelle 4997	180	27.1	56.2
DEKALB DK477	177	16.5	55.3
LG Seeds LG2483	177	19.9	52.9
Grand Valley SX1216	177	20.8	52.9
LG Seeds LG2473	176	19.0	54.3
DEKALB DK449	173	16.9	55.4
Grand Valley SX1215	172	18.4	52.4
Mycogen 2395	171	18.0	56.2
Cargill 3677	168	18.7	55.5
Cargill 3911	166	20.3	55.6
Average	179	19.9	54.5

Table 5. Irrigated corn hybrid performance at Julesburg in 1998¹

Hybrid	Yield bu/ac	Grain	Test	Plant	Density plants/ac	Lodging ² %
		Moisture %	Weight lb/bu	Height in		
NC+ 3869	187	23.3	60.6	85	38486	4
SEEDEX 7018	184	16.1	58.3	92	38463	4
Fontanelle 4193	184	21.6	61.3	85	36803	3
AgriPro AP 9440	183	17.8	56.7	85	37232	3
Grand Valley SX1264	179	20.4	60.3	81	32235	4
Asgrow RX697	177	22.7	60.2	81	32005	3
Grand Valley GVX7236	173	16.1	58.0	89	35973	3
Wilson E6011	172	23.1	60.8	90	37026	4
Mycogen 2722	172	22.6	57.5	92	35393	3
LG Seeds LG2483	169	18.4	58.4	79	34304	4
DEKALB DK525	168	16.5	60.4	83	40260	3
Farm Check 1*	167	23.5	60.2	91	35853	3
Grand Valley GVX2518	167	17.6	58.5	80	36553	3
SEEDEX 7022	167	15.8	59.1	93	36526	3
Asgrow RX730	167	22.6	59.8	88	38910	4
AgriPro AP 9489	164	21.1	61.3	89	37910	3
AgriPro AP 9400	161	18.3	59.8	90	36913	3
LG Seeds LG2447	158	21.6	60.9	91	40098	2
Wilson 1475PT (IMI)	157	19.3	58.3	84	37026	3
LG Seeds LG2473	157	17.3	59.7	87	34848	3
Stauffer 2550	156	19.0	61.6	79	36353	4
Garst Seed 8550	156	19.6	59.5	81	38463	4
AgriPro AP 9565	155	23.4	59.6	91	35604	4
Stauffer 2625	154	17.9	58.1	95	36716	4
Fontanelle 4997	154	24.8	62.6	86	34031	4
Farm Check 2*	153	21.0	61.0	88	34301	4
Grand Valley SX1238	153	16.2	57.8	88	35612	3
Garst Seed 8541 (IT)	152	19.1	59.3	83	35665	3
DEKALB DK566 (BT)	152	18.8	58.3	88	36526	4
Cargill 6888	151	23.7	60.0	85	35665	4
Cargill 6997	151	25.6	59.8	79	33215	5
Grand Valley GVX8967	150	19.3	60.2	82	35419	4
DEKALB DK540	150	21.0	61.0	82	36784	3
Kaystar KX-675	148	16.1	56.9	97	37829	4
Wilson E3034	146	17.7	58.1	85	34485	3
Asgrow RX670	145	20.5	58.9	91	32616	3
DEKALB DK545 (BT4)	144	18.6	58.4	85	35393	3
Triumph 9932	143	19.3	61.1	80	35580	3
Mycogen 2620	143	21.1	59.2	88	32652	4
Fontanelle 4988	139	24.1	58.7	86	37080	4
Grand Valley GVX0268	134	23.5	57.7	85	36127	3
Wilson E4032 (BT)	130	27.4	56.8	94	41401	3
Wilson 1438	125	25.1	59.9	88	34848	4
Average	158	20.4	59.4	86	36167	3
CV%	9.2					
LSD _(.30)	12.4					

¹Trial conducted on the Gene Bauerle farm; seeded 5/2 and harvested 10/19.

²Lodge rating: 1 = 0 - 20%; 2 = 21 - 40%; 3 = 41 - 60%; 4 = 61 - 80%; 5 = 81 - 100%

*Farmer Check 1 - Pioneer 34K77; Farmer Check 2 - Pioneer 3468

Table 6. Average irrigated corn hybrid performance at Julesburg, 1997-98

Hybrid	Yield	Grain	Test
	bu/ac	Moisture %	Weight lb/bu
NC+ 3869	168	20.6	59.7
DEKALB DK566 (BT)	163	17.7	57.7
Fontanelle 4193	158	19.7	60.3
Grand Valley SX1264	156	18.8	59.6
Cargill 6888	156	21.8	58.6
Stauffer 2625	154	17.3	57.3
Garst Seed 8550	151	18.3	59.0
Fontanelle 4997	144	21.6	61.2
Garst Seed 8541 (IT)	143	18.7	58.7
AgriPro AP 9489	141	19.5	60.2
LG Seeds LG2483	140	17.4	57.5
Grand Valley SX1238	139	15.9	57.1
Stauffer 2550	136	17.9	60.8
LG Seeds LG2473	120	17.0	58.9
Average	148	18.7	59.0

Table 7. Irrigated corn hybrid performance at Rocky Ford in 1998¹

Hybrid	Grain		Test	Plant	Density	Lodging	Silking ²
	Yield	Moisture	Weight	Height			
	bu/ac	%	lb/bu	in	plants/ac	%	date
DEKALB DK595 (BTX)	221	16.5	60.5	90	26681	0	197
Cargill 6888	217	22.0	59.0	90	29494	1	198
Garst Seed 8543 (IT)	215	19.6	60.0	87	26681	1	198
Novartis N7070 (BT)	215	21.0	59.3	95	28223	0	200
Pioneer brand 33A14 (BT)	214	17.3	60.9	91	27044	0	199
LG Seeds LG2637	212	25.1	58.9	93	28405	2	201
Mycogen 2725	211	24.2	59.9	93	27770	0	198
Novartis N7333 (BT)	209	25.6	60.9	97	29040	0	200
Novartis NX6567 (BT)	208	17.8	60.4	91	28223	0	198
Wilson 1664	207	21.8	58.9	88	27497	0	198
Pioneer brand 33H67	207	21.6	62.6	96	28042	1	201
DEKALB DK641	205	26.4	59.8	98	27407	6	201
DEKALB DK632	204	23.2	59.9	94	28768	1	199
Grand Valley SX1300	203	23.8	60.5	91	28133	1	199
Pioneer brand 32J55	203	29.5	62.4	96	29675	0	203
Garst Seed 8325	200	26.4	59.8	96	26771	1	202
AgriPro AP 9565	199	21.1	58.8	91	26197	0	200
Grand Valley GVX4681	199	28.9	59.1	98	27951	1	200
Grand Valley GVX3346	199	17.4	60.3	98	25864	1	202
LG Seeds LG2587	198	17.6	62.4	93	26111	3	201
Wilson E6018	198	27.4	60.8	98	28133	0	199
Pioneer brand 31A12	197	29.0	60.7	94	28405	1	202
Mycogen 2888	197	21.7	60.5	94	27316	0	199
DEKALB DK586	196	14.7	60.1	95	27679	1	199
Novartis N79-L3 (BT)	194	33.1	62.2	95	27407	0	201
Triumph 1514	193	21.5	59.0	93	26590	2	200
Grand Valley GVX3368	191	18.4	61.8	93	26953	0	200
Mycogen 7250	189	32.8	61.3	102	26953	4	205
AgriPro HY 9646	188	27.0	57.9	102	26771	2	205
Pioneer brand 3162	183	30.5	60.5	89	28042	0	201
Stauffer 2792	182	21.6	57.3	94	24383	0	203
Stauffer 2820	181	26.8	58.9	92	24006	2	204
Triumph 1866	178	32.2	61.1	102	26590	4	203
AgriPro AP 9828	170	32.9	61.1	101	24775	8	205
Average	200	24.0	60.2	94	27293	1	201
CV%	5.5						
LSD _(.30)	9.4						

¹Trial conducted on the Arkansas Valley Research Center; seeded 5/1 and harvested 10/28.

²Julian date.

Table 8. Average irrigated corn hybrid performance at Rocky Ford, 1997-98

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
Mycogen 2725	223	21.1	59.2
Garst Seed 8543 (IT)	218	18.2	58.9
Pioneer brand 32J55	216	25.2	61.6
Cargill 6888	215	20.1	58.6
Mycogen 7250	211	25.1	60.3
DEKALB DK641	211	22.0	59.9
Triumph 1514	205	19.6	58.3
Pioneer brand 3162	203	25.7	60.0
Average	213	22.1	59.6

Table 9. Irrigated corn hybrid performance at Wiggins in 1998¹

Hybrid	Yield bu/ac	Grain	Test	Plant	Density plants/ac	Lodging %
		Moisture %	Weight lb/bu	Height in		
DEKALB DK586	160	29.9	56.3	104	32579	3
Grand Valley SX1264	158	32.3	57.1	101	32215	2
Grand Valley GVX7236	157	23.0	57.4	104	31244	2
DEKALB DK551	155	24.6	56.2	108	33305	1
Mycogen 2598 (BT)	155	28.4	57.0	101	32814	2
AgriPro AP 9520	153	27.8	56.0	108	34566	1
AgriPro AP 9565	153	38.0	58.4	107	33301	3
SEEDDEX 7016	153	25.7	57.9	103	33396	1
AgriPro AP 9313	151	24.3	57.3	107	31118	1
Asgrow RX730	150	37.1	55.6	112	33057	1
LG Seeds LG2483	150	26.0	56.3	97	30703	2
Asgrow RX697	150	34.5	57.9	97	31378	4
DEKALB DK540	149	24.7	57.8	106	33663	3
Mycogen 2620	147	26.4	58.4	109	32450	2
Asgrow RX670	145	24.2	56.5	107	32579	4
Grand Valley SX1238	144	29.2	55.5	108	31921	0
Kaystar KX-675	144	30.2	55.0	112	33955	5
Farm Check 1*	144	36.4	58.4	101	32564	2
Farm Check 2*	143	31.3	58.4	103	33793	5
Garst Seed 8550	143	28.3	57.5	103	35320	1
Grand Valley GVX8967	142	26.0	57.7	95	33229	2
LG Seeds LG2447	142	29.8	59.8	108	32364	2
Garst Seed 8541 (IT)	141	33.7	55.9	102	31374	2
SEEDDEX 7020	141	27.1	57.0	111	31648	2
Mycogen 2677	138	29.6	58.3	100	29857	1
Grand Valley GVX2518	137	29.3	56.2	103	31642	1
AgriPro AP 9489	136	36.6	57.1	96	32881	2
Asgrow RX601	126	22.1	57.5	105	30726	10
Average	147	29.2	57.2	104	32487	2
CV%	9.4					
LSD _(.30)	11.8					

¹Trial conducted on the Larry Rothe farm; seeded 4/30 and harvested 10/21.

*Farmer Check 1 - Pioneer 3514; Farmer Check 2 - Pioneer 3474

Table 10. Average irrigated corn hybrid performance at Wiggins, 1997-98

Hybrid	Grain		Test
	Yield bu/ac	Moisture %	Weight lb/bu
Grand Valley SX1264	182	24.8	57.7
Mycogen 2677	177	22.9	57.6
Mycogen 2598 (BT)	175	22.5	56.6
Garst Seed 8550	172	22.7	57.3
AgriPro AP 9489	171	27.5	57.6
LG Seeds LG2483	170	21.1	54.9
Garst Seed 8541 (IT)	170	25.6	56.2
Grand Valley SX1238	165	22.5	55.4
Asgrow RX601	155	19.2	57.0
Average	171	23.2	56.7

Table 11. Irrigated corn hybrid performance at Yuma in 1998¹

Hybrid	Grain		Test	Plant	Density	Lodging
	Yield	Moisture	Weight	Height		
	bu/ac	%	lb/bu	in	plants/ac	%
LG Seeds LG2539	220	17.1	58.3	115	26335	3
Asgrow RX730	220	24.0	58.1	116	29178	2
Cargill 6888	218	24.0	58.8	117	30782	4
DEKALB DK566 (BT)	217	15.0	58.8	118	28169	2
NC+ 4880	216	23.3	58.7	119	27573	2
Wilson E3034	214	17.4	58.8	120	27190	5
Novartis NX6567 (BT)	214	19.3	59.5	120	28291	7
Grand Valley G VX8258	214	20.5	56.9	108	27179	3
LG Seeds LG2579	214	23.4	59.3	117	27951	3
Asgrow RX670	214	20.8	58.1	118	30389	2
DEKALB DK551	212	14.9	59.1	116	28570	5
DEKALB DK586	211	15.2	59.5	118	28683	5
SEEDDEX 7017	211	18.5	58.8	116	26640	9
Novartis N59-Q9	211	18.4	58.9	120	28800	2
Grand Valley SX1264	211	20.4	60.9	110	29183	0
Wilson E4032 (BT)	210	24.7	58.8	121	26970	0
Wilson 1475PT (IMI)	210	21.3	59.2	110	28999	3
AgriPro AP 9520	210	21.9	58.6	117	28204	4
NC+ 4646	208	19.9	59.3	119	27600	11
Mycogen 2677	206	21.2	59.9	113	29909	1
Novartis NX5867 (BT)	204	22.1	60.3	117	27182	0
Miller Preferred MP-1072	204	20.5	62.7	115	28795	4
AgriPro AP 9440	203	19.5	59.7	107	28263	1
DEKALB DK545 (BT4)	203	18.3	59.5	115	26103	8
LG Seeds LG2530	203	18.8	60.0	115	30943	3
AgriPro AP 9565	203	23.5	59.2	117	31791	2
Asgrow RX697	201	27.5	59.4	104	29064	0
Kaystar KX-675	201	15.6	57.3	120	27802	4
Mycogen 2722	200	22.1	58.6	119	26755	3
Grand Valley G VX8967	200	15.0	60.5	114	30245	0
Farm Check 2*	200	23.6	59.6	120	29224	2
Farm Check 1*	199	25.9	60.1	117	25855	12
AgriPro AP 9489	198	23.1	60.7	104	29670	0
Wilson E6011	197	22.8	60.8	109	30215	1
Fontanelle 4988	196	19.4	59.8	119	28213	3
NC+ 3869	196	23.6	61.1	108	29298	0
Triumph 8810	196	17.6	58.6	117	27216	11
Fontanelle 4997	194	21.8	62.3	111	27296	1
Mycogen 2620	192	21.6	61.3	116	31620	1
DEKALB DK540	192	20.9	61.8	113	29098	4
Novartis N7070 (BT)	189	21.4	57.8	119	30583	2
SEEDDEX 7021	186	19.3	60.2	119	27063	1
Fontanelle 4193	186	23.0	61.0	105	29215	1
Grand Valley G VX7268	181	18.2	60.9	120	27871	9
Grand Valley G VX0268	171	22.9	57.7	115	28897	3
Wilson 1438	163	21.1	60.5	119	27970	4
Average	203	20.7	59.6	115	28540	3
CV%	6.5					
LSD _(.30)	11.2					

¹Trial conducted on the Byron Weathers farm; seeded 5/1 and harvested 10/22.

*Farmer Check 1 - Pioneer 33A14; Farmer Check 2 - Pioneer 34K77

Table 12. Average irrigated corn hybrid performance at Yuma, 1997-98

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
DEKALB DK566 (BT)	220	15.6	58.4
Cargill 6888	214	22.7	58.0
DEKALB DK586	213	16.7	59.0
NC+ 4880	213	22.4	58.1
Miller Preferred MP-1072	212	20.1	62.2
LG Seeds LG2539	210	17.1	57.6
Grand Valley SX1264	208	19.6	60.1
Triumph 8810	200	17.0	57.7
NC+ 3869	199	21.1	60.4
Fontanelle 4997	198	20.7	61.7
Fontanelle 4193	191	20.7	60.4
Wilson 1438	182	20.4	60.1
Average	205	19.5	59.5

Dryland Hybrid Grain Corn Performance Data

Northeastern Colorado growers have been adopting more intensive dryland cropping systems as shown by increased dryland corn acreage which rose from 26,000 acres in 1990 to over 150,000 acres in 1997. Most of the acreage is found in nine NE Colorado counties. CSU agronomists, G. Peterson and D. Westfall, have conducted cropping systems trials at Sterling and Stratton since 1986 with dryland corn as a rotation crop. In their on-farm trials, dryland corn has averaged 65 bu/ac at Sterling and 72 bu/ac at Stratton.

Three northeastern Colorado dryland corn trail locations for 1998 and the 1997 dryland acreage harvested.

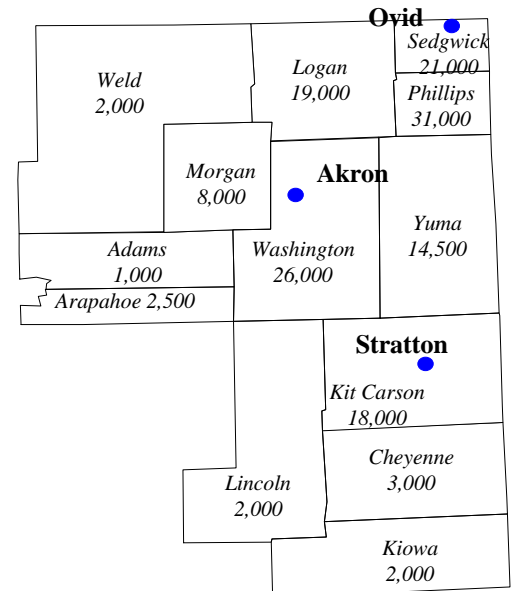
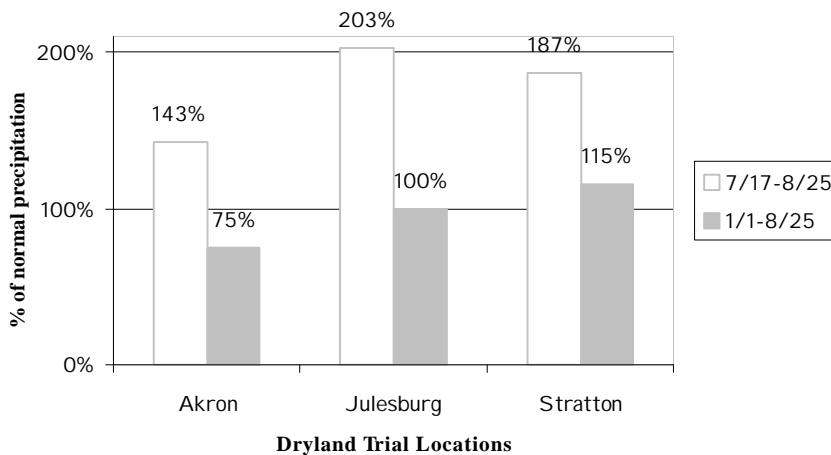


Table 13. Dryland cultural conditions in 1998

	Akron	Ovid	Stratton
Soil Type	Rago Silt Loam	Keith Silt Loam	Keith Silt Loam
Previous Crop	Millet	Wheat	Wheat
Fertilization			
N lb acre ⁻¹	60	90	100
P ₂ O ₅ lb acre ⁻¹		30	30
K ₂ O acre ⁻¹			
Zn acre ⁻¹		2	1
S acre ⁻¹		5	
Herbicide	Roundup Atrazine Frontier	Basic Gold	Marksman
Insecticide	None	None	None

1998 Precipitation (% of normal) for two periods at three locations



The 1998 dryland trials benefitted from above average precipitation in the critical July-August period at all three locations though yields were low at Akron due to less than normal 1998 precipitation before the critical period.

Table 14. Dryland corn hybrid performance at Akron in 1998¹

Hybrid	Grain		Test	Plant	Density	Ear
	Yield	Moisture	Weight	Height		Height
	bu/ac	%	lb/bu	in	plant/ac	in
Novartis N4242 (BT)	45	12.9	53.1	64	17987	31
Novartis N4640 (BT)	44	13.1	52.1	62	17451	27
Mycogen 2593	43	12.6	50.4	64	17222	28
DEKALB DK405	40	12.6	51.7	63	16877	30
Mycogen 2545	39	13.2	50.8	65	17476	29
Farm Check 2*	39	13.2	52.4	62	17316	33
AgriPro HY 9339	38	14.2	51.8	63	18414	29
Farm Check 1*	37	12.8	51.0	64	17275	29
Mycogen 2569	37	12.7	49.7	65	17497	30
AgriPro AP 9489	37	17.7	53.4	63	17551	32
AgriPro AP 9313	36	12.9	50.5	71	18476	28
Grand Valley SX1230	34	15.3	52.6	64	17353	31
Triumph 9932	33	14.4	51.5	64	18122	29
LG Seeds LG2473	33	12.6	50.4	66	17764	29
Grand Valley GVX8967	33	13.2	51.0	66	17404	30
AgriPro AP 9280	30	12.7	50.4	67	18055	30
Novartis 4306 (IMI)	29	15.6	51.5	62	17282	30
Average	37	13.6	51.4	64	17619	30
CV%	14.3					
LSD _(.30)	3.8					

¹Trial conducted on the Central Great Plains Research Center; seeded 5/12/98 and harvested 10/7.

There was no more than 2% lodging for any hybrid.

*Farmer Check 1 - Pioneer 36H36; Farmer Check 2 - Pioneer 38W36 (BT)

Table 16. Dryland corn hybrid performance at Ovid in 1998¹

Hybrid	Grain		Test	Plant	Density	Ear
	Yield	Moisture	Weight	Height		Height
	bu/ac	%	lb/bu	in	plants/ac	in
Grand Valley GVX8967	88	13.6	56.8	67	20827	28
Novartis N4242 (BT)	87	13.4	57.8	69	20283	29
Mycogen 2545	86	13.9	57.1	69	20574	28
Novartis 4306 (IMI)	83	14.1	57.8	68	19892	28
Kaystar KX-625	78	13.4	55.6	65	21099	29
DEKALB DK493	78	12.8	54.5	69	20283	29
Novartis N4640 (BT)	76	13.0	56.4	61	20019	26
Farm Check 2*	75	13.0	54.4	66	20907	28
Grand Valley SX1230	74	14.1	56.0	67	19772	30
AgriPro AP 9520	73	14.1	54.4	67	20156	27
Farm Check 1*	73	14.1	57.5	67	20224	28
Mycogen 2569	73	12.8	54.1	61	20198	28
Garst Seed 8692 (IT)	72	14.0	57.5	70	21113	25
Asgrow RX490	71	13.8	56.8	66	20224	25
Asgrow RX530	70	13.0	54.3	73	20147	28
AgriPro AP 9489	68	13.8	56.3	69	21186	29
AgriPro AP 9313	65	12.5	53.5	67	19656	31
LG Seeds LG2442	63	12.6	54.2	70	18860	28
Average	75	13.4	55.8	67	20301	28
CV%	15.0					
LSD _(.30)	8.3					

¹Trial conducted on the Dean Pirrie farm; seeded 5/18 and harvested 10/24.

There was no more than 2% lodging for any hybrid.

*Farmer Check 1 - Pioneer 3655; Farmer Check 2 - Pioneer 3751 (IR)

Table 15. Average dryland corn hybrid performance at Akron, 1997-98

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
AgriPro HY 9339	62	16.7	55.0
Mycogen 2545	60	16.0	54.5
AgriPro AP 9489	59	19.1	56.2
Average	60	17.3	55.2

Table 17. Average dryland corn hybrid performance at Ovid, 1997-98

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
Mycogen 2545	100	14.5	57.5
Grand Valley SX1230	94	14.7	57.1
Garst Seed 8692 (IT)	94	15.5	58.5
AgriPro AP 9489	90	15.6	57.0
Average	95	15.1	57.5

Table 18. Dryland corn hybrid performance at Stratton in 1998¹

Hybrid	Grain		Test	Plant	Ear	
	Yield	Moisture	Weight	Height	Density	Height
	bu/ac	%	lb/bu	in	plant/ac	in
Novartis N4242 (BT)	100	14.7	57.6	67	17427	31
AgriPro AP 9489	90	17.7	57.0	64	17295	31
Mycogen 2545	86	14.7	56.8	63	17281	28
DEKALB DK493	81	13.6	54.5	66	18254	28
Novartis 4306 (IMI)	80	18.0	57.6	66	17356	28
AgriPro AP 9565	80	18.4	55.7	70	17431	29
Novartis N4640 (BT)	77	14.5	57.1	65	17142	26
Farm Check 1*	77	14.9	55.6	61	17848	29
Farm Check 2*	76	20.4	57.5	69	17530	31
Mycogen 2569	75	15.9	55.0	69	17273	29
Kaystar KX-625	74	15.0	56.6	64	16873	28
AgriPro AP 9520	71	16.9	54.6	71	17634	27
LG Seeds LG2537	68	20.6	57.1	71	17978	32
DEKALB DK525	64	14.2	56.6	73	17216	30
Average	78	16.4	56.4	67	17467	29
CV%	12.4					
LSD _(.30)	7.2					

¹Trial conducted on the Tim Pautler farm; seeded 5/15 and harvested 10/8. Negligible lodging and ear drop.

*Farmer Check 1 - LG Seeds LG2483; Farmer Check 2 - LG Seeds LG2537

Table 19. Average dryland corn hybrid performance at Stratton, 1997-98

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
AgriPro AP 9489	87	19.8	56.5
DEKALB DK493	83	14.8	54.6
Mycogen 2545	80	16.4	56.6
AgriPro AP 9565	79	20.8	55.3
LG Seeds LG2537	74	21.9	56.5
Average	80	18.7	55.9

Western Slope Hybrid Grain Corn Performance Data

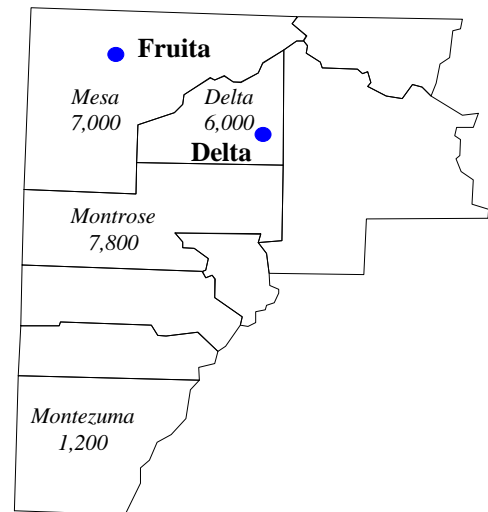
Over 3,300,000 bushels of grain corn were produced on 31,400 acres of irrigated farmland on the Western Slope in 1997, bringing in nearly \$9 million to local producers. Calvin Pearson of the Colorado Agricultural Experiment Station annually evaluates long-season and short-season corn grain hybrids to provide reliable and unbiased information to Western Slope producers.

Growing season conditions in 1998 on the Western Slope were favorable for corn production. Western Slope trials again produced some impressive high grain yields in 1998.

Table 20. Western Slope grain cultural conditions in 1998

	Delta	Fruita	Fruita
		Short Season	Long Season
Soil Type	Mesa Sandy Clay Loam	Sandy Loam	Sandy Loam
Previous Crop	Dry Beans	Barley	Barley
Fertilization			
N lb acre ⁻¹	114	182	182
P ₂ O ₅ acre ⁻¹	66	104	104
Herbicide	Lasso Banvel	Harness	Harness
Insecticide	Comite	Comite Dimethoate	Comite Dimethoate
Irrigation	Furrow	Furrow	Furrow

Two Western Slope corn trial locations for 1998 and the 1997 acreage harvested in four important corn producing counties of the Western Slope.



1998 West Slope Growing Degree Days at two trial locations

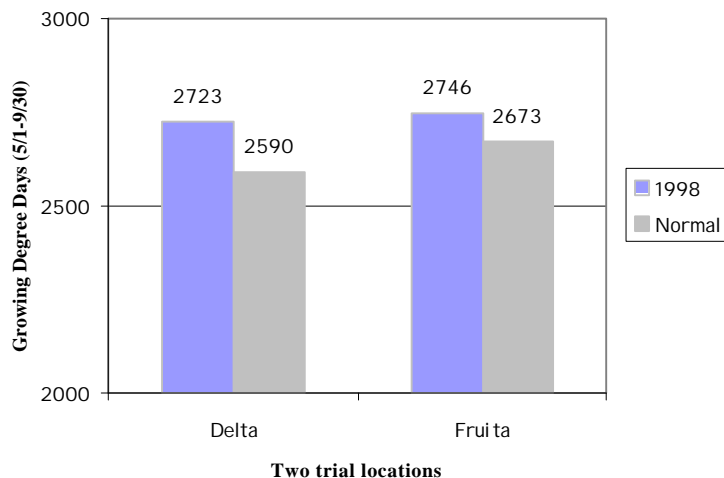


Table 21. Irrigated short season corn hybrid performance at Delta in 1998¹

Hybrid	Yield bu/ac	Grain		Test Density plants/ac
		Moisture %	Weight lb/bu	
DEKALB DK551	244	18.6	55.3	37264
Grand Valley SX1238	233	17.0	56.0	36696
DEKALB DK512	215	16.0	56.6	36696
DEKALB DK493	214	15.8	57.4	37407
Grand Valley SX1215	208	16.5	55.4	35513
Grand Valley G VX7236	206	16.0	57.2	33713
Mycogen 2545	205	16.4	57.9	36602
DEKALB DK477	201	15.3	57.7	37549
Grand Valley G VX7297	200	16.4	57.7	33334
Grand Valley G VX2518	200	16.6	56.9	38448
Grand Valley G VX4776	200	17.0	56.3	33761
Mycogen 2593	193	15.4	58.4	37407
Garst Seed 8660	191	17.3	57.2	37407
Mycogen 2569	190	16.6	56.6	37028
Grand Valley G VX7219	188	16.4	57.3	32103
Grand Valley G VX0946	161	15.9	57.8	32861
Average	203	16.4	57.0	35862
CV%	6.4			
LSD _(.30)	9.6			

¹Trial conducted on the Wayne Brew farm; seeded 5/13 and harvested 11/16.

There was no more than 3% lodging for any hybrid and negligible ear drop.

Table 22. Average irrigated short season corn hybrid performance at Delta, 1997-98

Hybrid	Grain	
	Yield bu/ac	Moisture %
Grand Valley SX1238	234	17.0
DEKALB DK512	212	15.8
Garst Seed 8660	210	17.3
DEKALB DK493	209	15.4
DEKALB SX1215	206	16.2
DEKALB DK477	203	15.0
Average	212	16.1

Table 23. Irrigated long season corn hybrid performance at Fruita in 1998¹

Hybrid	Yield bu/ac	Grain		Density plants/ac	Lodging %
		Moisture %	Test Weight lb/bu		
DEKALB DK626	266	21.4	53.3	37298	3
DEKALB DK641	259	22.6	54.7	37208	1
DEKALB DK595	243	19.4	55.3	33623	3
Grand Valley GVX3346	234	19.6	56.3	36935	2
Grand Valley GVX3368	215	20.4	55.3	31626	0
Wilson E7004	196	28.3	53.9	26000	9
Wilson 118	168	31.9	52.8	31808	5
Average	226	23.4	54.5	33500	3
CV%	8.8				
LSD _(.30)	15.0				

¹Trial conducted on the Fruita Research Center; seeded 5/5 and harvested 11/12.

Negligible ear drop.

Table 25. Irrigated short season corn hybrid performance at Fruita in 1998¹

Hybrid	Yield bu/ac	Grain		Density plants/ac	Lodging %
		Moisture %	Test Weight lb/bu		
Grand Valley SX1300	277	21.6	55.9	35846	0
DEKALB DK551	258	18.6	56.8	35075	0
Grand Valley GVX0268	252	19.6	55.2	36119	0
DEKALB DK512	247	16.7	57.9	34122	1
Grand Valley SX1238	235	18.1	55.7	35075	0
Grand Valley GVX8258	232	20.1	54.7	29721	1
Grand Valley GVX7268	232	18.5	58.4	31808	6
DEKALB DK493	224	16.8	56.3	35347	0
Grand Valley GVX7297	219	16.9	57.1	30537	2
Grand Valley GVX2518	218	18.0	57.2	34984	1
DEKALB DK477	213	16.6	58.1	34394	3
Grand Valley SX1215	205	17.6	56.6	32489	0
Average	234	18.2	56.6	33793	1
CV%	8.5				
LSD _(.30)	14.8				

¹Trial conducted on the Fruita Research Center; seeded 5/5 and harvested 11/12.

Negligible ear drop.

Table 24. Average irrigated long season corn hybrid performance at Fruita, 1997-98

Hybrid	Grain	
	Yield bu/ac	Moisture %
DEKALB DK641	282	21.8
DEKALB DK626	281	20.5
DEKALB DK595	251	18.5
Average	271	20.2

Table 26. Average irrigated short season corn hybrid performance at Fruita in 1997-98

Hybrid	Grain	
	Yield bu/ac	Moisture %
Grand Valley SX1238	244	17.5
DEKALB DK512	239	16.2
DEKALB DK493	226	16.2
DEKALB DK477	218	15.7
Grand Valley GVX2518	213	17.7
Grand Valley SX1215	210	16.6
Average	225	16.7

Corn Silage Hybrid Performance Data for Eastern Colorado and the Western Slope

Colorado farmers cut more than 110,000 acres of corn for silage in 1997. Larimer, Weld, Morgan, Logan, Kit Carson, and Montrose counties all produced more than 100,000 tons of silage in 1997. Corn seed for silage in Colorado represents annual sales of about \$3 million. Colorado State University personnel evaluate commercial corn silage hybrids at multiple locations to provide reliable and unbiased hybrid performance information to Colorado corn growers.

Table 27. Silage cultural conditions in 1998

	Fruita	Olathe	Rocky Ford
Soil Type	Glenton very fine Sandy Loam	Loam	Silty Clay Loam
Previous Crop	Winter Wheat	Silage Corn	Onions
Fertilization			
N lb acre ⁻¹	182	103.5	175
P ₂ O ₅ lb acre ⁻¹	104	50	50
Herbicide	Harness	Harness	Dual Bladex
Insecticide	Comite Dimethoate	Lorsban Comite Dimethoate	None
Irrigated	Furrow	Furrow	Furrow

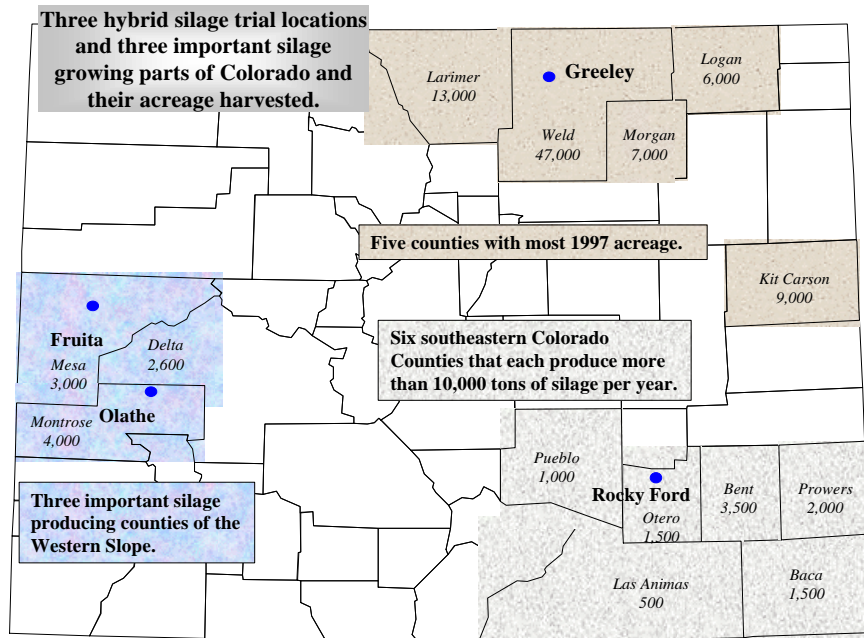


Table 28. Corn silage hybrid performance at Fruita in 1998¹

Hybrid	Yield t/ac	Moisture %	Density plants/ac
DEKALB DK679	38	75.9	34616
Grand Valley GVX5346	35	76.6	36284
DEKALB DK687	35	78.3	30816
DEKALB DK641	34	75.4	35404
Grand Valley SX1545	33	74.7	30353
Grand Valley GVX2446	33	76.2	32670
Grand Valley SX1550	31	74.5	28453
Average	34	75.9	32656
CV%	7.0		
LSD _(.30)	1.8		

Table 29. Average corn silage hybrid performance at Fruita, 1997-98

Hybrid	Yield t/ac	Moisture %
Grand Valley SX1545	42	66.6
Grand Valley SX1550	37	69.5
DEKALB DK641	36	65.2
DEKALB DK687	35	69.3
Average	37	67.7

¹Trial conducted on the Fruita Research Center; seeded 5/5 and harvested 9/10.

Table 30. Corn silage hybrid performance at Olathe in 1998¹

Hybrid	Yield	Moisture	Density
	t/ac	%	plants/ac
Garst Seed 8314	41	75.9	33318
Mycogen 2868	40	77.0	35960
Mycogen 2888	39	76.2	34246
DEKALB DK679	38	75.2	34570
DEKALB DK687	37	76.6	35543
Grand Valley SX1360	35	74.5	34014
Grand Valley G VX3346	32	72.6	37026
Grand Valley SX1356	32	71.1	36145
DEKALB DK641	31	72.5	35265
Grand Valley G VX3368	28	72.3	32994
Grand Valley G VX7268	27	69.8	32160
Average	34	74.0	34658
CV%	7.0		
LSD _(.30)	1.8		

¹Trial conducted on the David Seymour farm; seeded 5/1 and harvested 9/14.

Table 32. Corn silage hybrid performance at Rocky Ford in 1998¹

Hybrid	Yield	Moisture	Plant		
			Height	Density	Silking ²
	t/ac	%	in	plants/ac	date
Pioneer brand 31B13 (BT)	46	56.0	98	29040	203
Asgrow RX897	45	59.7	99	32126	204
AgriPro HY 9646	45	58.8	105	29312	204
Grand Valley G VX2446	43	54.1	99	29675	203
Wilson E7004	43	58.3	95	24919	204
AgriPro AP 9828	42	58.7	98	30583	205
Pioneer brand 32K61	42	54.8	98	29494	205
Garst Seed 8315	42	59.2	98	28223	209
AgriPro HS 9843	42	60.0	97	30311	204
DEKALB DK668	40	56.3	94	29222	203
Pioneer brand 3260	40	54.6	99	28314	203
Mycogen 2868	39	59.1	94	29222	205
Cargill 8328	39	56.5	102	29766	203
Grand Valley G VX5346	39	55.7	100	28223	206
LG Seeds LG2694	38	53.8	97	27134	204
Asgrow RX913	38	55.8	99	27860	206
DEKALB DK642	38	54.7	94	27860	201
Novartis N79-L3 (BT)	37	54.1	97	30311	200
Wilson Demand 118	36	63.0	88	27497	208
Mycogen 2888	34	50.6	91	26136	198
Average	40	56.7	97	28761	204
CV%	9.3				
LSD _(.30)	3.2				

¹Trial conducted on the Arkansas Valley Research Center; seeded 5/1 and harvested 9/17.

²Julian date.

Entry Forms for 1999 Trials

Entry forms for 1999 trials may be obtained from the Department of Soil and Crop Sciences, Colorado State University, Cynthia Johnson, C-4 Plant Science Building, Fort Collins, CO 80523-1170; Telephone (970) 491-1914; Fax (970) 491-2758; or e-mail cjohnson@agsci.colostate.edu. For Western Slope entry blanks, contact Calvin Pearson, Fruita Research Center, 1910 L Road, Fruita, CO 81521;

Table 31. Average corn silage hybrid performance at Olathe, 1997-98

Hybrid	Yield	Moisture
	t/ac	%
DEKALB DK641	33	70.7
Garst Seed 8314	33	75.0
Grand Valley SX1356	32	70.9
DEKALB DK687	30	75.0
Average	32	72.9

Table 33. Average corn silage hybrid performance at Rocky Ford, 1997-98

Hybrid	Yield	Moisture
	t/ac	%
Asgrow RX897	39	62.6
Mycogen 2868	37	62.6
Garst Seed 8315	37	62.2
Cargill 8328	36	58.7
DEKALB DK642	36	58.4
Pioneer brand 3260	35	59.6
Wilson Demand 118	33	66.4
Average	36	61.5


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Seed Company Entrants in the 1998 Colorado Corn Performance Trials

BRAND/HYBRID	ENTRANT	ADDRESS	TELEPHONE
AgriPro	AgriPro Seeds, Inc.	23959 580 th Avenue, Ames, IA 50010	(800) 373-1741
Asgrow	Asgrow Seed Co.	4140 114 th Street, Des Moines, IA 50322-7570	(800) 828-9283
Cargill	Cargill Hybrid Seeds	PO Box 5645, Minneapolis, MN 55440	(612) 742-6731
DEKALB	DEKALB Genetics Corp.	3100 Sycamore Rd., DeKalb, IL 60115	(815) 758-9323
Fontanelle	Fontanelle Hybrids	10981 8 th Street, Fontanelle, NE 68044-9706	(402) 721-1410
Garst	Garst Seed Co.	2938 Kyle Circle, Loveland, CO 80537-7843	(970) 962-9632
Golden Harvest	Golden Harvest Seeds, Inc.	100 J.C. Robinson Blvd., Waterloo, NE 68069	(800) 228-9906
Gran			(970)
Kays			(605)
LG	http://www.colostate.edu/Depts/SoilCrop/extension/CropVar/index.html		(800)
Mille			(402)
Myc			(800)
NC+			(402)
Nort			(800)
Pion			(806)
SEE			(303)
Stauf			(402)
Triu			(806)
Wils			(712)



Crop Variety Performance, Research, Field Days, Educational Programs, and Technical Information for Colorado Crops:

<u>Winter Wheat</u>	<u>Dry Beans</u>	<u>Corn</u>
<u>Sunflower</u>	<u>Alfalfa</u>	<u>Spring Wheat, Barley, & Oats</u>

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