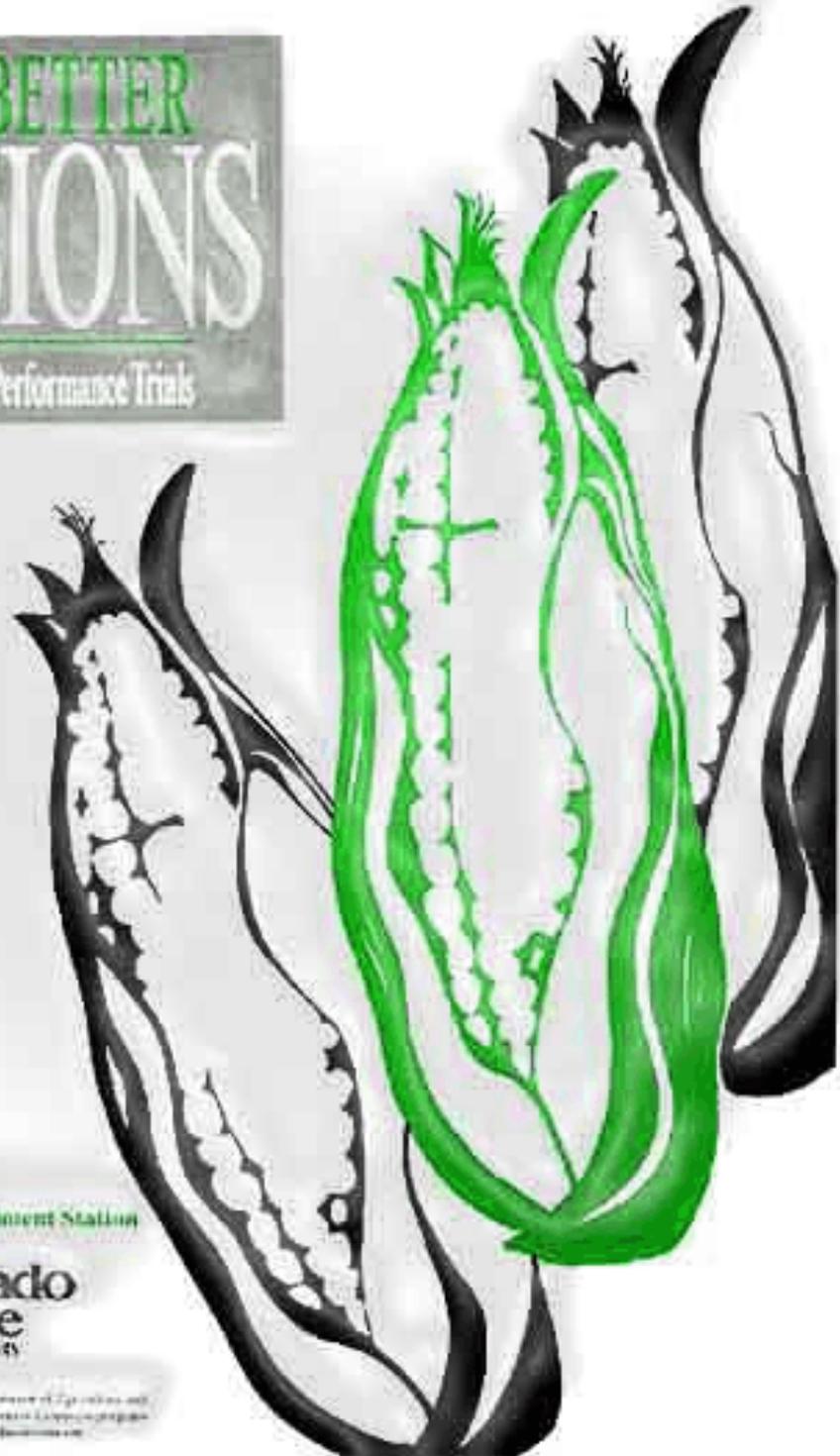


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2000 Colorado Corn Performance Trials



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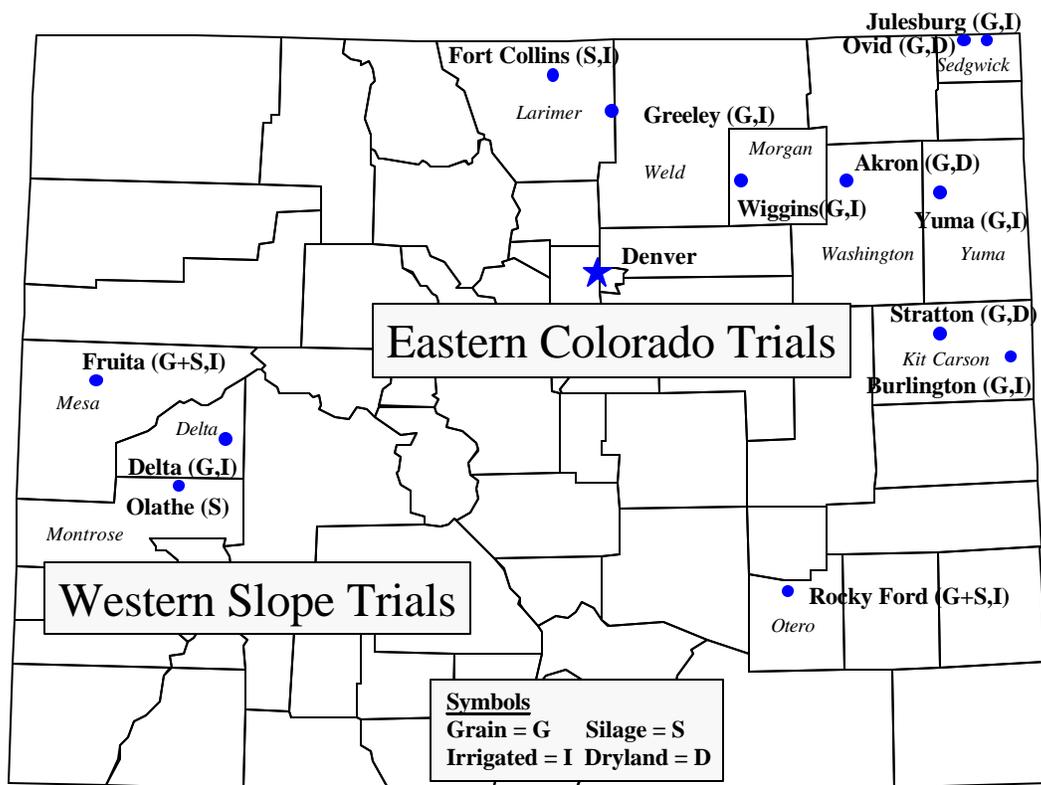
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2000 Colorado Corn Variety Performance Trials



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2000 COLORADO CORN HYBRID PERFORMANCE TRIALS

Introduction

The importance of corn in Colorado has fluctuated greatly during the last 120 years with the earliest records dating back to 1879 when Colorado farmers planted 23,000 acres and yields averaged 19.8 bu/acre. The highest corn acreage in the state was 2.58 million acres in 1934. Average grain yields did not exceed 30 bu/acre until 1956 when 68% of the corn acreage was irrigated. In 1997, the average irrigated corn grain yield was over 160 bu/acre.

Colorado corn producers annually plant approximately one million acres of hybrid corn, for both grain and silage. Hybrid corn seed, valued above \$30 million, is purchased every year by Colorado corn producers from hybrid seed corn companies. Variable climatic conditions, innovations from biotechnology, acquisitions and mergers of seed companies, and rapid evolution of new hybrid lines means that unbiased performance information is very important to Colorado corn producers when choosing the best hybrid for their farm.

To provide Colorado corn growers with reliable and unbiased performance information, Colorado State University personnel annually evaluate commercial corn hybrids at multiple locations. Participation by the seed companies in the state trials is voluntary and companies are given the opportunity to enter one or more hybrids at any location. 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.

The 2000 Cropping Season

In 2000 corn grain hybrids were tested under irrigation at six Eastern Colorado locations (Burlington, SW Greeley, Julesburg, Rocky Ford, Yuma, and Wiggins) and two Western Slope locations (Delta and Fruita). Corn hybrids were also tested at three dryland locations in Eastern Colorado (Akron, Julesburg, and Stratton). The Stratton dryland trial was lost due to prolonged drought. Irrigated silage corn hybrids were tested at two Eastern Colorado locations (Rocky Ford and Fort Collins) and two Western Slope locations (Fruita and Olathe). Eastern Colorado trials were conducted by Colorado State University's Department

of Soil and Crop Sciences, Crops Testing program, 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 plants 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. Western Slope trials were planted at a target population of 33,500 seeds per acre.

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 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 silage at harvest is reported as an indicator of hybrid maturity. The least significant difference (LSD) value ($\alpha=0.30$) and the coefficients of variation (CV) are reported for yield.

Eastern Colorado Irrigated Grain Corn Performance Data

Each year about 750,000 acres of irrigated corn for grain is planted in Colorado, yielding 120-165 bu/acre, and producing upwards of 100 million bushels of corn with a value over \$150 million. Irrigated corn producers spend over \$20 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 farming conditions.

An important climatic factor determining irrigated corn yield is growing degree days. Growing degree days (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. GDD's in 2000 were above the long term average GDD at all locations.

Trial Location	Weather Station	2000 GDD	Long Term Average GDD
Burlington	Burlington	2879	2673
Julesburg	Julesburg	2949	2755
SW Greeley	Fort Collins	2479	2335
Rocky Ford	Rocky Ford	2982	2837
Wiggins	Fort Morgan	2730	2535
Yuma	Yuma	2722	2615

Table 1. Irrigated corn cultural conditions in 2000.

	Burlington	Greeley	Julesburg	Rocky Ford	Wiggins	Yuma
Soil Type	Keith Silt Loam	Weld Silt Loam	Keith, Goshen Kuma Silt Loam	Silty Clay Loam	Bijou Loamy Sand	Manter Loamy Sand
Previous Crop	Beans	Barley	Corn	Onions	Corn	Corn
Fertilization						
N acre ⁻¹	210	185	174	185	275	250
P ₂ O ₅ acre ⁻¹	0	0	45	50	30	98
K ₂ O acre ⁻¹	0	0	0	0	48	10
Zn acre ⁻¹	0	0	1.5	0	1	1
S acre ⁻¹	0	0	5	0	5	10
Herbicide	Marksman	Distinct	Dual II Bladex	Bladex Dual II Gramoxone	Tuff Atrazine	Bicep Light Magnum
Insecticide	Furadan	Comite Dimethoate	Pen Cap	Comite II Capture	Force	None
Irrigation	Sprinkler	Flood	Sprinkler	Furrow	Sprinkler	Sprinkler

Table 2. Irrigated corn performance at Burlington¹ in 2000.

Hybrid	Grain		Test	Plant	Density	Lodging
	Yield	Moisture	Weight	Height		
	bu/ac	%	lb/bu	in	plants/ac	%
DEKALB DKC57-38	238	16.8	55.8	86	31496	0
DEKALB DKC53-32	232	17.9	54.6	91	27476	1
Grand Valley SX1264	227	20.4	56.4	80	27535	0
Mycogen 2725	224	22.3	53.9	92	32063	0
LG Seeds LG2533	223	17.5	54.4	83	28780	0
Geertson GS-1117	223	23.3	53.4	85	30346	0
Wilson 1580	222	20.2	57.5	86	28812	0
Novartis N67-T4 (BT)	220	22.4	54.2	88	27951	0
Golden Harvest H-8562	220	16.3	53.5	88	28012	0
LG Seeds LG2579	218	20.7	54.1	87	28337	0
Grand Valley SX1270	217	17.0	56.5	95	29908	1
Mycogen 2652	217	16.2	54.2	85	27787	0
Grand Valley SX1300	215	20.3	54.5	87	28475	0
Novartis N59-Q9	215	18.3	56.0	87	28218	0
Fontanelle HC7734 (RR)	213	19.3	52.0	87	26780	1
AgriPro 9476 (BT)	213	22.8	52.8	82	31697	0
AgriPro 9489	213	23.5	56.4	80	26399	0
Golden Harvest H-9221 (BT)	213	16.6	54.1	85	29506	0
Seedex 7401	213	16.8	53.5	86	29535	0
DEKALB DK551 (BTY)	212	15.5	55.3	88	30411	0
AgriPro 9355 (BT)	212	15.1	57.6	96	27735	0
Grand Valley G VX3397	212	16.8	54.9	86	27624	0
Triumph 1141 (BT)	211	23.4	54.5	87	28884	0
AgriPro 9570 (BT)	211	23.2	55.2	90	27085	0
Asgrow RX508 (YG)	210	19.8	54.0	82	28544	0
DEKALB DKC57-72	210	28.9	55.3	88	27657	0
Asgrow RX634	208	16.6	55.3	86	26266	0
Seedex 7101	205	23.4	53.2	85	29643	0
AgriPro 8546	205	22.8	54.3	87	29589	0
Novartis N65-A1 (BT)	203	23.1	54.6	86	29918	0
Fontanelle 4891	202	16.8	54.2	88	27780	0
Golden Harvest H-9230 (BT)	199	26.5	54.1	87	30607	0
Wilson E9503 (BT)	199	19.7	56.3	86	31638	0
Wilson 1364	197	17.7	55.9	86	29219	0
Kaystar KX-777	188	24.3	52.7	87	28522	0
AgriPro 9559 (BT)	184	26.3	52.8	86	30956	0
Average	212	20.2	54.7	87	28922	0
CV%	6.5					
LSD _(0.30)	11.8					

¹Trial conducted on the Don Sircy farm; seeded 5/6 and harvested 10/16.

Table 3. 2-Yr average irrigated corn performance at Burlington, 1999-00.

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
Fontanelle HC7734 (RR)	190	17.8	52.5
Wilson 1580	189	19.7	57.7
DEKALB DK551 (BTY)	188	15.4	55.8
Geertson GS-1117	188	21.1	54.6
Grand Valley SX1300	186	20.3	55.0
Triumph 1141 (BT)	182	24.0	53.5
Mycogen 2652	182	15.3	54.6
Grand Valley SX1264	182	19.5	57.1
LG Seeds LG2579	181	21.0	55.1
AgriPro AP 9355 (BT)	180	14.5	57.3
AgriPro AP 9489	180	21.4	57.0
Wilson 1364	175	16.9	56.6
Novartis N59-Q9	172	17.5	56.5
AgriPro AP 9559 (BT)	165	25.3	53.6
Average	181	19.2	55.5

Table 4. Irrigated corn performance at Greeley¹ in 2000.

Hybrid	Grain		Test	Plant	Density	Lodging
	Yield	Moisture	Weight	Height		
	bu/ac	%	lb/bu	in	plants/ac	%
DEKALB DK507	204	16.5	57.0	89	32959	1
DEKALB DKC48-83	204	16.8	57.1	93	31794	1
DEKALB DKC44-42	201	14.9	54.5	89	30710	0
Seedex 6101	194	19.3	56.6	94	33480	0
Geertson GS-1067	194	20.5	54.7	94	31270	2
Novartis N43-C4 (BT)	190	17.2	55.0	90	32293	0
Grand Valley GVX7214	189	15.5	55.4	87	30976	2
Seedex 6201	189	16.7	56.7	95	32295	1
Grand Valley SX1177	188	14.4	56.2	92	31700	2
AgriPro 9355 (BT)	173	20.7	56.5	90	30880	0
Asgrow RX393 (YG)	170	16.0	55.1	89	32363	0
Grand Valley GVX4615	170	19.2	55.7	93	31453	2
NC+ 1550	168	15.3	55.4	89	31801	1
LG Seeds LG2512	168	18.7	56.3	94	31839	1
Asgrow RX452 (YG)	164	21.8	57.2	94	31548	0
Grand Valley SX1211	163	15.1	55.0	95	30884	4
Kaystar X0031	161	20.6	57.3	87	31117	1
LG Seeds LG2499	161	20.4	56.3	90	31634	1
Garst 8590	161	20.4	56.9	93	29066	1
AgriPro 9340	160	16.5	55.5	95	31384	4
AgriPro 9313	160	14.8	54.9	90	33187	2
Seedex 6202	160	19.4	58.4	93	31081	3
Seedex 5701	157	14.4	55.3	92	32599	2
Kaystar KX-688	154	21.1	53.8	89	32399	1
Grand Valley SX1216	153	20.1	56.6	91	31879	3
Grand Valley GVX0946	150	14.7	54.8	94	33400	2
Average	173	17.7	55.9	92	31769	1
CV%	11.6					
LSD _(0.30)	17.2					

¹Trial conducted on the Brent Adler farm; seeded 4/27 and harvested 10/30.
No ear drop.

Table 5. 2-Yr average irrigated corn performance at SW Greeley, 1999-00.

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
DEKALB DK507	186	15.1	55.1
Grand Valley SX1177	178	13.7	55.5
Seedex 6101	174	16.7	54.6
AgriPro AP 9355 (BT)	171	17.2	53.7
AgriPro AP 9313	169	14.1	53.0
AgriPro AP 9340	161	15.3	53.1
Grand Valley SX1216	161	17.0	54.5
Average	171	15.6	54.2

Table 6. Irrigated corn performance at Julesburg¹ in 2000.

Hybrid	Grain		Test	Plant		Lodging
	Yield	Moisture	Weight	Height	Density	
	bu/ac	%	lb/bu	in	plants/ac	%
Fontanelle 4990	202	14.3	56.2	89	34252	0
DEKALB DKC57-72	194	17.4	57.2	87	33504	0
DEKALB DKC57-38	194	13.6	56.5	87	33227	2
AgriPro 9340	193	12.6	54.9	86	33925	2
Mycogen 2767 (BT)	192	13.2	54.7	88	36052	1
DEKALB DKC53-32	191	12.9	54.4	89	32915	2
Garst 8590	191	13.5	56.7	89	34661	0
Grand Valley SX1263	188	13.7	57.2	83	32473	0
Novartis N59-Q9	187	14.0	56.4	90	32111	1
Grand Valley SX1264	186	14.3	57.5	83	33418	2
Wilson E9503 (BT)	184	13.5	57.5	88	34573	1
Fontanelle 4891	181	13.5	57.8	87	35424	1
Grand Valley SX1229	181	12.2	54.5	85	34848	0
Fontanelle 4997	181	15.7	58.5	89	34670	2
Wilson 1364	180	13.3	58.0	85	32828	0
Seedex 7101	178	13.9	55.7	88	32851	1
Mycogen 2657 (BT)	177	13.0	55.7	92	36537	0
NC+ 3320	177	13.2	56.7	85	33712	0
Fontanelle 4193	176	14.0	57.5	80	32566	1
AgriPro 9313	174	12.3	54.8	86	31548	1
Asgrow RX508 (YG)	174	13.4	54.5	75	29594	2
Grand Valley GVX1646	174	13.3	57.2	89	33686	1
Asgrow RX634	171	12.9	55.2	91	34710	1
AgriPro 9489	167	15.2	57.4	79	31992	2
AgriPro 9476 (BT)	167	13.3	53.8	89	34966	5
Seedex 6201	165	13.4	57.3	79	29780	3
DEKALB DK551 (BTY)	164	12.6	54.7	88	34457	3
Mycogen 2652	164	12.3	54.1	89	34233	3
Kaystar KX-688	162	12.6	52.5	87	32460	1
Triumph TRX0301	159	12.4	54.6	84	32787	2
Seedex 7401	155	12.4	53.7	89	31379	2
Geertson GS-998	149	11.9	53.9	85	35092	3
Average	177	13.4	55.8	86	33476	1
CV%	8.5					
LSD _(0.30)	12.9					

¹Trial conducted on the Gene Bauerle farm; seeded 5/6 and harvested 10/14.
No ear drop.

Table 7. 2-Yr average irrigated corn performance at Julesburg, 1999-00.

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
Grand Valley GVX3376	174	21.0	57.0
DEKALB DK551 (BTY)	173	17.6	54.6
Grand Valley SX1264	171	23.1	56.1
Fontanelle 4997	169	23.0	56.5
Fontanelle 4193	169	23.5	56.0
Wilson 1364	167	20.3	56.6
Seedex 7401	166	21.3	54.0
AgriPro AP 9489	160	23.1	55.8
Average	169	21.6	55.8

Table 8. Irrigated corn performance at Rocky Ford¹ in 2000.

Hybrid	Grain			Plant Height	Density	Lodging	Silking ²
	Yield	Moisture	Test Weight				
	bu/ac	%	lb/bu	in	plants/ac	%	date
Pioneer brand 33P67 (BT)	268	20.2	61.5	94	33214	1	198
Novartis N67-T4 (BT)	266	18.8	57.9	92	33487	0	196
Grand Valley G VX5458	250	17.7	58.2	95	31762	0	198
Garst 8546	248	21.8	57.7	93	33124	0	197
Grand Valley SX1600	247	19.2	59.4	109	31490	3	202
Mycogen 2725	246	21.2	57.6	89	32035	0	197
DEKALB DK611	246	15.4	59.6	92	33396	1	198
Pioneer brand 33B51 (BT)	246	21.2	59.7	90	30855	0	196
AgriPro 9570 (BT)	243	21.4	58.7	95	32942	1	196
Pioneer brand 31A13 (BT)	242	19.2	59.8	96	31490	1	200
Grand Valley SX1300	241	19.2	57.6	92	31036	1	196
Pioneer brand 32R42	237	18.9	60.2	92	30220	2	199
Novartis N7070 (BT)	237	16.8	57.6	94	31672	0	197
Kaystar KX-920	236	25.4	56.4	96	32942	0	198
Triumph 1514A (BT)(IMI)	234	20.3	57.4	94	31218	3	199
Mycogen 2784 (BT)	234	16.8	57.9	99	33578	1	196
Grand Valley G VX4478	233	19.7	57.4	93	30310	1	197
DEKALB DK655	217	20.5	60.2	92	30129	1	198
DEKALB DK647 (BTY)	211	20.3	56.7	103	31036	0	199
Asgrow RX799 (BT)	209	23.4	59.7	98	30764	0	199
Pioneer brand 31G98	204	22.3	59.9	99	32126	1	203
Asgrow RX889	203	27.3	58.8	91	31309	5	200
Grand Valley G VX0145	195	25.7	57.1	103	29584	2	203
Grand Valley G VX5345	193	26.0	56.9	107	30764	1	203
Average	233	20.8	58.5	96	31687	1	198
CV%	6.8						
LSD _(0.30)	13.5						

¹Trial conducted on the Arkansas Valley Research Center; seeded 5/4 and harvested 10/26. No ear drop.

²Julian date.

Table 9. 2-Yr average irrigated corn performance at Rocky Ford, 1999-00.

Hybrid	Grain		Test Weight
	Yield	Moisture	
	bu/ac	%	lb/bu
Garst 8546	238	17.8	57.9
Grand Valley SX1300	231	16.8	57.9
Mycogen 2725	230	17.5	58.0
DEKALB DK611	223	14.8	59.7
Novartis N7070 (BT)	220	15.3	57.8
DEKALB DK647 (BTY)	213	17.5	57.5
Asgrow RX799 (BT)	206	21.0	59.9
DEKALB DK655	206	19.6	60.1
Asgrow RX889	202	24.6	59.3
Average	219	18.3	58.7

Table 10. Irrigated corn performance at Wiggins¹ in 2000.

Hybrid	Grain		Test	Plant		Lodging
	Yield	Moisture	Weight	Height	Density	
	bu/ac	%	lb/bu	in	plants/ac	%
DEKALB DKC53-32	236	15.3	56.4	83	32344	1
LG Seeds LG2533	223	17.3	55.0	83	35020	3
Asgrow RX508 (YG)	222	17.4	55.5	79	34172	1
AgriPro 9570 (BT)	218	27.1	55.0	85	33013	2
Geertson GS-1117	218	22.0	55.0	85	27510	9
Seedex 6201	215	15.7	57.5	79	30902	2
Novartis N67-T4 (BT)	214	22.9	55.4	83	36662	1
Garst 8590	212	18.8	57.0	83	37052	2
DEKALB DKC57-38	211	17.7	57.3	87	34646	3
Seedex 5701	210	14.6	57.9	83	31763	1
Grand Valley SX1229	210	16.5	57.3	82	46152	3
Grand Valley G VX4615	209	17.5	56.6	86	35230	8
Asgrow RX634	208	16.7	56.8	87	34742	2
Novartis N59-Q9	206	20.1	57.1	86	38151	4
Grand Valley SX1264	203	20.7	58.4	79	36740	1
Seedex 6101	191	17.2	57.1	82	40195	1
AgriPro 9555 (BT)	189	27.8	55.0	89	34201	1
Kaystar KX-688	183	16.7	54.1	80	32571	3
Grand Valley G VX1646	180	18.5	58.3	85	34946	4
DEKALB DKC57-72	175	27.3	56.0	79	44243	0
Seedex 6202	162	17.9	59.0	84	34940	9
Average	204	19.3	56.6	83	35486	3
CV%	10.7					
LSD _(0.30)	18.7					

¹Trial conducted on the Larry Rothe farm; seeded 5/4 and harvested 11/3.
No ear drop.

Table 11. 2-Yr average irrigated corn performance at Wiggins, 1999-00.

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
Grand Valley SX1264	193	17.9	57.4
Seedex 5701	183	13.8	57.0
Seedex 6101	183	15.4	56.7
Average	187	15.7	57.0

Table 12. Irrigated corn performance at Yuma¹ in 2000.

Hybrid	Grain		Test	Plant	Density	Lodging
	Yield	Moisture	Weight	Height		
	bu/ac	%	lb/bu	in	plants/ac	%
DEKALB DKC57-72	262	20.8	57.6	94	32290	5
DEKALB DKC57-38	247	14.7	58.1	90	31244	4
Producers PH 717 (BT)	246	17.4	56.8	95	33496	3
Seedex 7101	243	15.2	56.2	94	29780	4
DEKALB DK551 (BTY)	243	14.0	56.4	92	31484	2
Novartis N65-A1 (BT)	242	15.5	57.1	92	29790	2
Geertson GS-1117	242	16.6	56.4	92	29197	2
Novartis N67-T4 (BT)	241	15.7	57.5	90	30261	5
Grand Valley SX1300	238	14.4	56.7	95	30974	1
AgriPro 9555 (BT)	235	18.4	54.5	94	33320	5
Novartis N59-Q9	232	14.2	57.1	93	32488	4
AgriPro 9570 (BT)	232	17.9	57.3	97	31230	5
Asgrow RX634	232	14.4	57.4	92	30747	2
Garst 8590	231	15.0	58.4	93	31149	1
Wilson 1364	230	14.7	58.4	97	31613	2
NC+ 4880	230	15.8	56.7	90	31309	3
Grand Valley SX1264	230	14.7	59.1	88	29520	3
Triumph 1141 (BT)	230	18.6	58.1	98	30717	6
Producers PH 714 (BT)	229	16.2	56.4	95	32196	4
Grand Valley G VX3397	229	13.6	57.1	92	31410	5
DEKALB DKC53-32	228	13.6	56.3	90	32474	3
LG Seeds LG2579	227	15.9	57.4	91	30771	8
Fontanelle 4990	224	17.9	58.5	98	29622	3
LG Seeds LG2584 (BT)	223	15.2	56.5	91	31251	1
Asgrow RX508 (YG)	221	13.7	56.4	82	31059	5
Mycogen 2767 (BT)	219	15.7	56.8	97	30855	9
Fontanelle 4193	218	15.2	58.5	86	31075	5
Kaystar KX-688	218	13.0	55.2	93	30264	4
Fontanelle 4997	214	16.3	60.1	91	30452	4
Fontanelle 4891	214	14.1	58.1	94	31036	3
AgriPro 9476 (BT)	211	16.4	57.2	93	30112	3
Wilson 1580	210	18.5	59.1	97	30564	3
Seedex 7401	209	14.7	56.2	88	30327	5
Mycogen 2657 (BT)	209	13.8	56.3	92	31628	1
Grand Valley SX1270	208	14.4	58.9	96	30984	2
LG Seeds LG2533	207	13.9	56.6	90	30722	1
Wilson E9503 (BT)	207	14.2	58.1	96	30179	2
Producers PH 641	203	13.3	56.6	86	30718	2
Seedex 6201	193	13.1	57.8	84	31173	1
Average	226	15.4	57.3	92	31012	3
CV%	8.4					
LSD _(0.30)	16.2					

¹Trial conducted on the Byron Weathers farm; seeded 4/28 and harvested 10/19. Insignificant ear drop.

Table 13. 2-Yr average irrigated corn performance at Yuma, 1999-00.

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
DEKALB DK551 (BTY)	236	16.0	57.2
LG Seeds LG2584 (BT)	228	19.6	56.0
LG Seeds LG2579	225	19.6	56.7
NC+ 4880	225	20.1	56.7
Wilson 1364	223	16.8	58.5
Grand Valley SX1264	222	16.9	58.7
Garst 8590	220	16.8	58.5
Triumph 1141 (BT)	219	23.4	57.3
Novartis N59-Q9	219	16.8	57.5
Fontanelle 4193	217	18.0	58.4
Seedex 7401	214	17.3	57.4
Wilson 1580	210	19.9	59.2
Fontanelle 4997	209	18.2	60.0
Average	220	18.4	57.8

Dryland 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 290,000 acres in 1999. Average dryland corn yield was 69 bu/acre in 1999 with most of the acreage in nine NE Colorado counties.

Trial Location	2000 GDD	Long Term Average GDD	2000 Precip. 7/15-8/25	% of normal 7/15-8/25
Akron	2807	2559	2.63	85%
Haxtun	2949	2755	2.39	83%

The 2000 dryland trials suffered from below average precipitation in the critical July-August period at both locations. The Stratton location was lost to prolonged drought. Nielsen et al. (1996) determined that 70% of variation in dryland corn yield can be explained by rainfall during the six-week period, from 15 July to 25 August, corresponding to tasseling, silking, and early grain-filling. Dryland grain yields were remarkably high given the duration and severity of the 2000 summer drought.

Reference: Nielsen, D., Peterson, G., Anderson, R., Ferreira, V., Shawcroft, W. and Remington, K. 1996. Estimating Corn Yields From Precipitation Records. Conservation Tillage Fact Sheet #2-96. USDA-ARS, P.O. Box 400, Akron, CO.

Table 14. Dryland cultural conditions in 2000.

	Akron	Julesburg
Soil Type	Rago Silt Loam	Kieth, Goshen Kuma Silt Loam
Previous Crop	Wheat	Wheat
Fertilization		
N lb acre ⁻¹	50	108
P ₂ O ₅ lb acre ⁻¹	0	30
Herbicide	Round Up Frontier Atrazine	Dual II Bladex
Insecticide	None	None

Table 15. Dryland corn performance at Akron¹ in 2000.

Hybrid	Grain		Test	Plant		Lodging
	Yield	Moisture	Weight	Height	Density	
	bu/ac	%	lb/bu	in	plants/ac	%
Garst 8756 (RR)	84	12.9	54.0	27	17087	4
DEKALB DKC53-32	78	13.9	54.0	26	16118	2
Mycogen 2657 (BT)	75	14.0	54.6	27	15067	3
Mycogen 2544 (IMI) (BT)	70	14.8	56.3	31	15393	5
Seeds 2000 3121 (BT)	68	14.5	56.2	27	15126	4
Seedex 5701	67	12.9	54.5	27	15086	0
Novartis N43-C4 (BT)	65	13.9	55.0	25	14245	2
DEKALB DKC44-42	64	13.0	53.3	26	16192	3
Seeds 2000 X3161 (BT)	64	18.9	55.8	26	16037	0
DEKALB DK507	63	13.8	56.6	26	15355	1
DEKALB DKC48-83	63	13.7	54.4	25	15877	9
Asgrow RX508 (YG)	61	13.1	52.6	25	15624	0
Grand Valley SX1229	60	13.8	54.1	25	16437	3
Novartis N4242 (BT)	60	14.0	56.4	23	15175	6
Asgrow RX393 (YG)	60	13.5	54.9	24	14760	9
Kaystar KX-625 (BT)	60	14.5	55.8	28	15696	2
Novartis N59-Q9	59	16.4	48.8	32	14978	11
Garst 8590	59	20.0	56.2	28	16583	4
AgriPro 9313	58	13.6	54.8	24	15836	1
Triumph TRX0301	54	13.4	53.8	26	14922	3
Garst 8640 (IT)	54	19.3	56.1	31	16030	1
Novartis N4640 (BT)	54	13.9	55.9	22	16093	3
Garst 8557 (RR)	52	17.6	53.5	29	14548	11
Grand Valley SX1264	52	15.8	55.8	29	15287	3
LG Seeds C7847	50	19.2	56.8	29	15748	6
NC+ 3310 R	48	16.4	54.3	29	15656	15
AgriPro 9355 (BT)	48	17.1	56.9	28	15483	6
Seeds 2000 3110 (RR) (BT)	47	13.9	52.8	28	17158	19
Mycogen 2652	45	20.3	56.1	29	15520	2
Seeds 2000 3104 (RR)	45	16.2	54.2	28	15043	29
Average	60	15.3	54.8	27	15605	6
CV%	21.8					
LSD _(0.30)	9.6					

¹Trial conducted on the Central Great Plains Research Center; seeded 4/29 and harvested 10/9. Insignificant ear drop.

Table 16. 2-Yr average dryland corn performance at Akron, 1999-00.

Hybrid	Grain		Test
	Yield	Moisture	Weight
	bu/ac	%	lb/bu
Kaystar KX-625 (BT)	92	13.9	56.9
AgriPro AP 9313	88	13.2	55.4
Novartis N4640 (BT)	87	13.3	56.4
Novartis N4242 (BT)	84	13.9	56.1
Mycogen 2544 (BT)	83	14.4	55.8
AgriPro AP 9355 (BT)	83	15.0	56.9
Mycogen 2652	78	16.6	55.2
Average	85	14.3	56.1

Table 17. Dryland corn performance at Julesburg¹ in 2000.

Hybrid	Yield	Grain	Test	Ear	Density
		Moisture	Weight	Height	
	lb/ac	%	lb/bu	in	plants/ac
Novartis N43-C4 (BT)	65	19.4	54.1	29	15374
Mycogen 2544 (IMI) (BT)	64	17.5	55.0	34	14131
Asgrow RX508 (YG)	64	19.1	52.0	27	16243
Seeds 2000 3121 (BT)	62	17.1	55.0	32	14525
DEKALB DKC48-83	62	14.8	51.4	32	14055
Garst 8756 (RR)	61	15.7	53.2	31	16258
Novartis N4242 (BT)	60	17.4	56.2	28	14540
Seedex 5701	59	15.5	54.4	30	13205
Grand Valley SX1229	59	14.6	54.7	28	16262
Novartis N4640 (BT)	58	17.2	55.3	25	14434
Grand Valley SX1264	57	24.1	55.4	30	16078
Kaystar KX-625 (BT)	56	25.3	53.0	32	15834
DEKALB DKC53-32	54	26.7	51.8	30	13098
AgriPro 9313	54	19.3	54.3	27	16074
Golden Harvest H-2547	53	24.4	54.3	32	16673
DEKALB DK507	52	16.7	57.0	28	13714
Mycogen 2616 (IMI) (IT)	50	25.8	52.9	32	15028
Golden Harvest H-8250	50	22.0	55.7	33	14686
Seeds 2000 3110 (RR) (BT)	50	18.3	52.0	33	14968
Mycogen 2657 (BT)	50	30.0	53.0	33	13702
AgriPro 9555 (BT)	49	30.0	53.1	33	14586
Garst 8590	48	29.2	54.4	32	14139
Seeds 2000 3104 (RR)	48	28.9	52.0	30	14518
Garst 8640 (IT)	46	29.3	55.4	35	15601
Mycogen 2652	45	27.6	52.5	34	15801
Triumph TRX0301	45	22.1	53.4	30	14979
Golden Harvest H-8562	44	30.0	51.1	33	15753
Seeds 2000 X3161 (BT)	44	30.0	54.2	31	15588
Garst 8557 (RR)	44	28.2	51.0	32	14975
Average	54	22.6	53.7	31	14994
CV%	15.3				
LSD _(0.30)	6.0				

¹Trial conducted on the Josh Lechman farm; seeded 5/13 and harvested 10/12.

No ear drop.

Table 18. 2-Yr average dryland corn performance at Julesburg, 1999-00.

Hybrid	Grain		
	Yield	Moistur e	Test Weight
	bu/ac	%	lb/bu
Novartis N4640 (BT)	77	14.6	55.8
Novartis N4242 (BT)	77	15.0	56.7
Mycogen 2544 (BT)	76	15.3	55.4
Mycogen 2657 (BT)	70	21.8	53.4
Mycogen 2652	62	19.9	52.4
Average	72	17.3	54.7

Western Slope Grain Corn Performance Data

Over 3,000,000 bushels of corn grain are produced on some 30,000 acres of irrigated farmland on the Western Slope every year, bringing in over \$8 million to local producers. Calvin Pearson of the Colorado Agricultural Experiment Station evaluates long-season and short-season corn grain hybrids to provide reliable and unbiased information to Western Slope producers.

Trial Location	2000 GDD	Long Term Average GDD
Fruita	2891	2673
Delta	2695	2590

Table 19. Western Slope irrigated corn cultural conditions in 2000.

	Delta	Fruita Short Season	Fruita Long Season
Soil Type	Mesa, Sandy Clay Loam	Youngston Loam	Youngston Loam
Previous Crop	Sweet Corn	Alfalfa	Alfalfa
Fertilization			
N lb acre ⁻¹	190	202	202
P ₂ O ₅ acre ⁻¹	77	104	104
Herbicide	Lasso Clarity, 2,4-D	Bladex 4L	Bladex 4L
Insecticide	Comite Dimethoate Lorsban	Comite II	Comite II
Irrigation	Furrow	Furrow	Furrow

Table 21. 2-yr ave irrigated corn performance at Delta, 1999-00.

Hybrid	Yield bu/ac	Grain Moisture %	Test Weight lb/bu
DEKALB DK551	230	14.0	53.7
Grand Valley GVX4615	224	14.2	54.8
DEKALB DK537	221	13.0	55.4
Grand Valley SX1238	220	13.2	53.8
DEKALB DK477	205	12.3	56.2
Average	220	13.3	54.8

Table 20. Irrigated short season corn performance at Delta¹ in 2000.

Hybrid	Grain		Test		Lodging
	Yield	Moisture	Weight	Density	
	bu/ac	%	lb/bu	plants/ac	%
Geertson GS-1117	286	15.1	59.4	32769	2
DEKALB DK551	264	14.2	59.3	34670	2
Grand Valley GVX4615	263	14.2	59.2	33372	1
Grand Valley SX1238	253	14.0	59.2	33882	2
DEKALB DK537	247	13.3	59.9	37266	14
Grand Valley SX1229	242	13.1	58.8	37173	1
DEKALB DK477	233	13.1	59.5	32352	4
Grand Valley GVX0111	224	13.6	59.4	32445	6
DEKALB DKC48-83	223	13.2	61.0	34948	2
Grand Valley GVX7214	223	13.0	59.8	31889	2
Grand Valley GVX1646	216	14.2	61.0	31982	0
Garst 8756 (RR)	182	13.4	59.4	32306	4
Average	238	13.7	59.6	33754	3
CV%	5.8				
LSD _(0.30)	10.2				

¹Trial conducted on the Wayne Brew farm; seeded 5/2 and harvested 10/30. No ear drop.

Table 22. Irrigated short season corn performance at Fruita¹ in 2000.

Hybrid	Grain		Test Weight	Density	Lodging
	Yield	Moisture			
	bu/ac	%	lb/bu	plants/ac	%
Grand Valley SX1300	244	19.8	56.2	31490	0
Geertson GS-1067	218	17.2	57.6	32761	2
DEKALB DK537	217	14.7	60.1	32988	2
DEKALB DK551	210	15.3	59.2	31944	3
Grand Valley GVX1646	210	15.9	60.5	32352	0
Grand Valley SX1270	205	16.0	60.8	32353	0
DEKALB DKC48-83	205	15.1	59.8	28859	0
DEKALB DK477	201	14.8	59.1	30810	0
Grand Valley GVX4615	182	15.6	59.5	32716	0
Average	210	16.1	59.2	31808	1
CV%	11.4				
LSD _(0.30)	18.0				

¹Trial conducted on the Western Colorado Research Center; seed 5/3 and harvested 10/27. No ear drop.

Table 24. Irrigated long season corn performance at Fruita¹ in 2000.

Hybrid	Grain		Test Weight	Density	Lodging
	Yield	Moisture			
	bu/ac	%	lb/bu	plants/ac	%
Grand Valley SX1600	270	20.8	56.3	31627	0
Grand Valley GVX5378	269	23.2	52.0	30765	0
Grand Valley GVX4478	229	18.8	56.6	31717	0
Grand Valley GVX3378	220	17.8	56.6	29630	0
Asgrow RX634	209	16.8	58.3	29267	0
DEKALB DK585	203	15.8	58.6	32262	1
DEKALB DKC57-38	174	15.5	59.8	32171	0
Average	225	18.4	56.9	31063	0
CV%	14.7				
LSD _(0.30)	25.0				

¹Trial conducted on the Western Colorado Research Center; seed 5/3 and harvested 10/27. No ear drop.

Table 23. 2-yr average irrigated short season corn performance at Fruita, 1999-00.

Hybrid	Grain		Test Weight
	Yield	Moisture	
	bu/ac	%	lb/bu
Grand Valley SX1300	250	20.0	54.9
Grand Valley SX1270	220	16.2	59.3
DEKALB DK551	217	14.3	57.8
DEKALB DK537	212	14.6	58.6
Grand Valley GVX4615	202	15.9	58.1
DEKALB DK477	192	13.8	58.2
Average	216	15.8	57.8

Table 25. 2-yr ave irrigated long season corn performance at Fruita, 1999-00.

Hybrid	Grain		Test Weight
	Yield	Moisture	
	bu/ac	%	lb/bu
DEKALB DK585	218	16.6	56.2

Corn Silage Performance Data for Eastern Colorado and the Western Slope

Colorado farmers annually cut more than 100,000 acres of corn for silage. Larimer, Weld, Morgan, Logan, Kit Carson, and Montrose counties are the most prominent silage-producing counties in Colorado. 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.

Trial Location	2000 GDD	Long Term Average GDD
Fruita	2891	2673
Delta (Olathe)	2628	2590
Fort Collins	2431	2335
Rocky Ford	2982	2837

Table 26. Corn silage cultural conditions in 2000.

	Fort Collins	Fruita	Olathe	Rocky Ford
Soil Type	Fort Collins Clay Loam	Youngston Loam	Sandy Loam	Silty Clay Loam
Previous Crop	Pinto Beans	Alfalfa	Silage corn	Onions
Fertilization				
N lb acre ⁻¹	150	202	228	185
P ₂ O ₅ lb acre ⁻¹	40	104	102	50
K ₂ O lb acre ⁻¹	0	0	0	0
Herbicide	Aim 2,4-D	Bladex 4L	Harness	Bladex, Dual II Gramoxone
Insecticide	None	Comite II	Comite Dimethoate	Comite II Capture
Irrigated	Flood	Furrow	Furrow	Furrow

Table 27. Corn silage performance at Fort Collins¹ 2000.

Hybrid	Yield	Moisture	Plant	
			Height	Density
	t/ac	%	in	plants/ac
Geertson GS-1099	32.1	65.6	96	32898
FR1064 x Lfy 419L	31.2	71.1	116	32471
Garst 8640	30.2	66.9	100	36421
Grand Valley SX1550	29.9	71.0	108	31944
Seedex 7401	29.5	66.2	97	33883
Seedex 7101	29.3	69.0	94	31628
Grand Valley SX1270	29.1	68.3	101	34759
MBS3811 x Lfy 497L	28.7	75.9	110	34024
Grand Valley GVX4478	28.6	71.9	101	32553
Grand Valley SX1256	28.6	67.2	95	33401
Grand Valley SX1356	28.5	71.1	102	34106
AgriPro HY9646	28.3	74.8	106	31483
Seedex 6201	27.6	65.2	88	32638
MBS3811 x Lfy 554L	25.8	77.3	100	32983
Seedex 5701	25.5	63.5	90	30536
Average	28.9	69.7	100	33049
CV%	7.6			
LSD _(0.30)	1.9			

¹Trial conducted on the Agricultural Research Development and Education Center; seeded 4/26 and harvested 9/14.

Table 28. 2-Yr average irrigated corn silage performance at Fort Collins, 1999-00.

Hybrid	Yield	Moisture
	t/ac	%
Geertson GS-1099	30.7	67.8
Grand Valley SX1550	29.5	71.9
Grand Valley SX1270	28.9	68.5
AgriPro HY 9646	28.2	75.1
Grand Valley SX1356	27.9	71.6
Grand Valley SX1256	27.7	67.5
Average	28.8	70.4

Table 29. Corn silage performance at Rocky Ford¹ 2000.

Hybrid	Yield	Moisture	Density	Plant	
				Height	Silking ²
	t/ac	%	plants/ac	in	date
MBS3811 x Lfy 497L	45.3	52.2	31853	109	203
AgriPro HY9646	43.8	54.3	29403	104	203
Wilson E7004	43.1	55.6	29222	97	205
Asgrow RX897	41.3	53.9	30583	97	203
Grand Valley SX1602	40.7	53.9	31309	105	203
Wilson EDX51	40.1	58.4	31309	96	203
Garst 8315	39.8	55.5	30310	95	205
DEKALB DK679	39.4	57.5	31762	107	202
Pioneer brand 31B13 (BT)	39.3	57.6	31581	99	203
Pioneer brand 31G98	38.6	56.4	32398	101	204
Grand Valley GVX4601	38.6	55.6	30220	99	201
Pioneer brand 31R88	37.9	55.6	32398	105	204
Grand Valley GVX4681	37.8	55.3	31672	95	198
DEKALB DK647 (BTY)	37.6	54.7	30583	101	200
Grand Valley GVX2416	36.6	57.8	26862	98	202
FR1064 x Lfy 419L	36.3	54.3	31944	116	202
Wilson E7005	35.7	58.5	28496	94	206
MBS3811 x Lfy 554L	34.9	60.3	28223	112	206
Grand Valley GVX4478	34.1	56.4	30492	93	198
Asgrow RX799 (BT)	32.7	56.5	31127	100	202
Average	38.7	56.0	30587	101	203
CV%	10.0				
LSD _(0.30)	3.3				

¹Trial conducted on the Arkansas Valley Research Center; seeded 5/4 and harvested 9/14.

²Julian date.

Table 30. 2-Yr average corn silage performance at Rocky Ford, 1999-00.

Hybrid	Yield	Moisture
	t/ac	%
AgriPro HY 9646	40.6	57.7
Wilson E7004	38.9	59.6
Asgrow RX897	38.2	58.9
Garst Seed 8315	37.7	59.9
Pioneer brand 31B13 (BT)	36.9	60.1
DEKALB DK647 (BTY)	34.2	57.1
Asgrow RX799 (BT)	32.4	56.9
Average	37.0	58.6

Table 31. Corn silage performance at Fruita¹ in 2000.

Hybrid	Yield	Moisture	Density	Plant Height	Ear Height
	t/ac	%	plants/ac	in	in
Grand Valley SX1602	41.0	61.2	34245	120	55
DEKALB DK641	39.3	53.8	34570	108	50
Wilson E7004	37.7	62.7	31789	109	56
Grand Valley SX1545M	37.3	60.0	35033	121	59
Grand Valley G VX5378	36.8	64.7	31465	116	49
Geertson GS-1099	34.7	57.0	32253	112	50
MBS3811 x Lfy 554 L	34.3	68.8	29102	132	58
Grand Valley G VX0145	34.1	63.0	33736	118	52
FR1064 x Lfy 419 L	33.8	63.8	34014	120	48
Wilson E7005	32.1	66.4	28175	106	41
MBS3811 x Lfy 497 L	31.9	64.4	33736	118	46
Grand Valley SX1550	30.9	63.2	35496	122	55
Wilson EDX51	30.4	65.3	34014	114	54
DEKALB DK679	26.7	65.1	31094	115	55
Average	34.3	62.8	32766	117	52
CV%	18.7				
LSD _(0.30)	4.8				

¹Trial conducted on the Western Colorado Research Center; seeded 5/3 and harvested 9/12.

Table 33. Corn silage performance at Olathe¹ in 2000.

Hybrid	Yield	Moisture	Density	Plant Height	Ear Height
	t/ac	%	plants/ac	in	in
DEKALB DK679	29.1	71.2	33875	112	53
Grand Valley SX1600	28.4	70.9	33272	112	52
DEKALB DK641	28.4	68.3	35867	110	46
MBS3811 x Lfy 497 L	28.2	71.9	32484	116	44
FR1064 x Lfy 419 L	28.0	68.6	33782	126	52
Grand Valley G VX4478	27.9	67.7	31465	108	41
Grand Valley SX1356	26.7	69.1	32902	112	46
Grand Valley SX2546 (RR)	26.4	67.2	33596	114	44
Grand Valley SX2426 (RR)	26.2	67.1	32855	107	48
Garst 8314	26.2	72.8	34709	102	46
MBS3811 x Lfy 554 L	25.7	73.2	30399	125	50
Grand Valley G VX4445	25.6	68.3	32160	106	46
Grand Valley G VX3378	22.9	67.4	31233	95	35
Average	26.9	69.5	32969	111	46
CV%	11.8				
LSD _(0.30)	2.4				

¹Trial conducted on the Earl Seymour farm; seeded 5/2 and harvested 9/15.

Table 32. 2-Yr average corn silage performance at Fruita, 1999-00.

Hybrid	Yield	Moisture
	t/ac	%
DEKALB DK641	34.1	55.5
Wilson E7004	33.8	64.6
Grand Valley SX1550	30.4	63.6
DEKALB DK679	29.4	65.2
Average	31.9	62.2

Table 34. 2-Yr average corn silage performance at Olathe, 1999-00.

Hybrid	Yield	Moisture
	t/ac	%
DEKALB DK679	28.6	73.5
DEKALB DK641	28.6	70.5
Grand Valley SX1356	26.6	69.7
Garst Seed 8314	26.2	74.7
Average	27.5	72.1

Seed Company Entrants in the 2000 Colorado Corn Performance Trials

BRAND/HYBRID	ENTRANT	ADDRESS	TELEPHONE
Dekalb/Asgrow	Monsanto	3100 Sycamore Road, Dekalb, IL 60115	(800) 833-5252
Fontanelle	Fontanelle Hybrids	10981 8 th Street, Fontanelle, NE 68044-2505	(402) 721-1410
Garst	Garst Seed Co.	2369 330 th Street, PO Box 500, Slater, IA 50244	(800) 831-6630
Geertson	Geertson Seed Farms	1665 Burroughs Road, Adrian, OR 97901	(541) 339-3768
Golden Harvest	Golden Harvest Seeds, Inc.	PO Box A, 100 J.C. Robinson Blvd., Waterloo, NE 68069	(402) 779-2531
Grand Valley	Grand Valley Hybrids, Inc.	840 23 Road, Grand Junction, CO 81505	(970) 243-3115
Kaystar	Kaystar Seed	702 3 rd Street SW, PO Box 947, Huron, SD 57350	(605) 352-8791
Lfy	Lfy, L.L.C.	1281 Fourth Street, Monterey, CA 93940	(831) 657-9002
LG	LG Seeds	1620 Hwy 10, Gibbon, NE 68840	(308) 234-4800
Mycogen	Mycogen Seeds	1340 Corporate Center Curve, Eagan, MN 55121-1233	(800) 380-7282
NC+	NC+ Hybrids	PO Box 4408, Lincoln, NE 68504	(402) 467-2517
Northrup King	Novartis Seeds, Inc.	1060 Wheatland Diver, Buhler, KS 67522	(316) 543-2707
Pioneer	Pioneer Hi-Bred Int'l., Inc.	1616 So. Kentucky Street, Ste C-150, Amarillo, TX 79102	(806) 356-0160
Producers Hybrids	Producers Hybrids, Inc.	PO Box C, Battle Creek, NE 68715	(888) 675-3190
SEEDEX	Seedex	PO Box 1477, Longmont, CO 80502	(303) 678-7333
Seeds 2000	Seeds 2000	Box 200, Breckenridge, MN 56520	(218) 643-2410
Triumph	Triumph Seed Co, Inc.	PO Box 1050, Hwy 62 Bypass, Ralls, TX 79357	(806) 253-2584
Wilson	Wilson Genetics, L.L.C.	PO Box 391, Harlan, IA 51537	(712) 755-3841

Entry Forms for 2001 Trials

Entry forms for 2001 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; e-mail cjohnson@agsci.colostate.edu or web site <http://www.colostate.edu/Depts/SoilCrop/extension/CropVar/index.html>.

For Western Slope entry blanks, contact Calvin Pearson, Western Colorado Research Center, 1910 L Road, Fruita, CO 81521; Telephone (970) 858-0461.

Additional copies of this report may be ordered 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.

Crop Variety Performance for Colorado Crops		
Winter Wheat	Dry Beans	Corn
Sunflower	Alfalfa	Spring Wheat Barley, & Oats

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