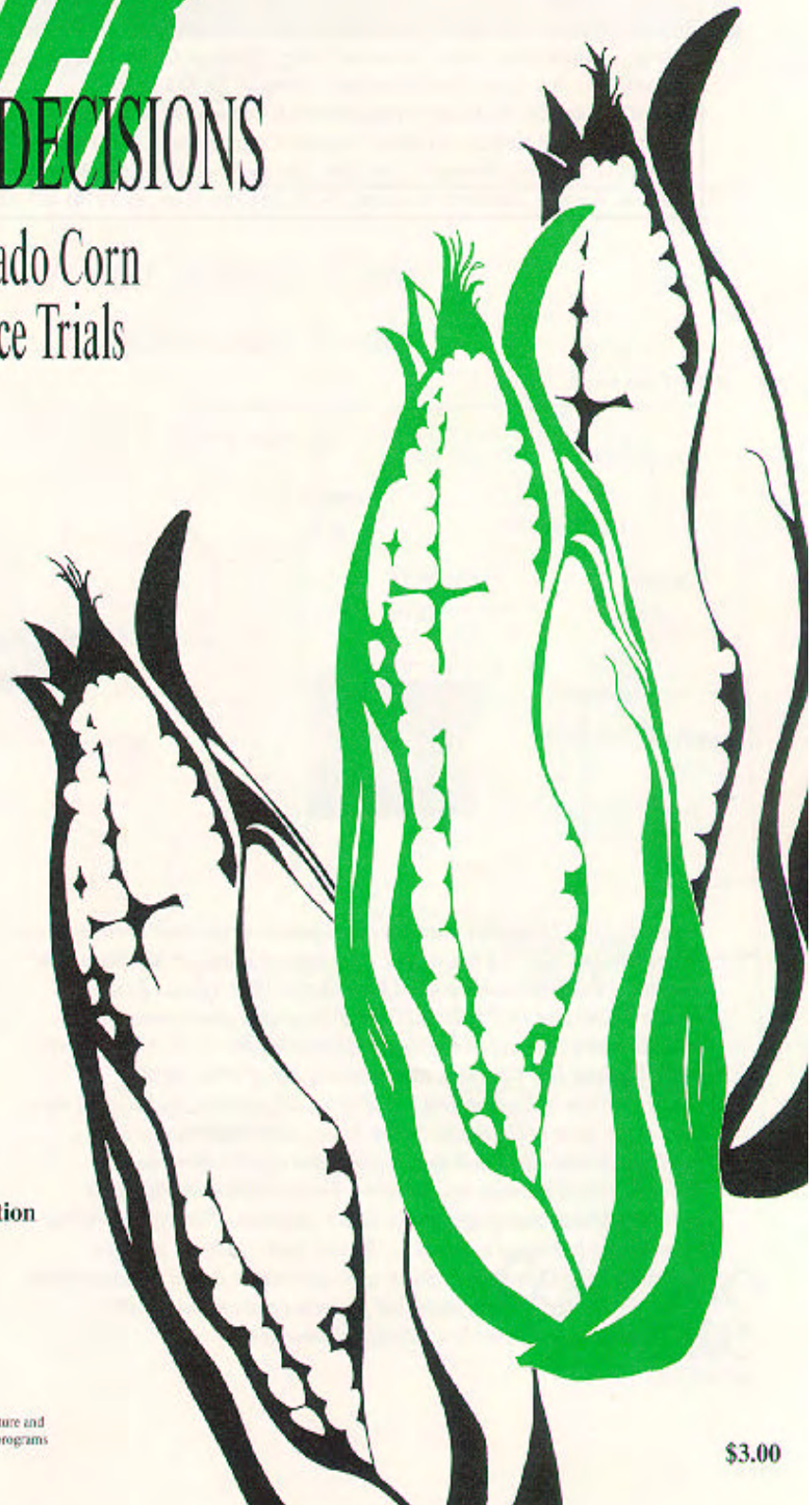


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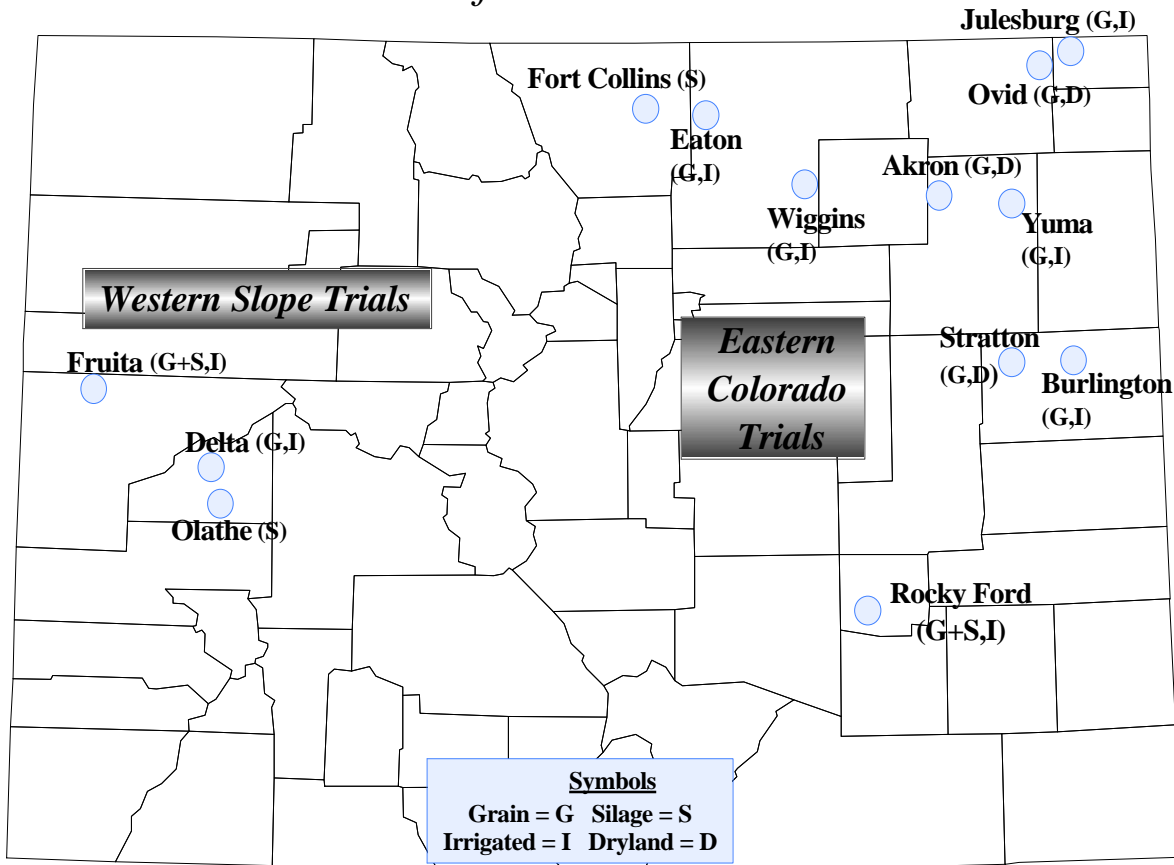
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Cooperative
Extension

December 1996

1996 Colorado Corn Performance Trials



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1996 COLORADO CORN PERFORMANCE TRIALS

Introduction

Colorado corn producers annually plant approximately one million acres of hybrid corn, for grain and silage. Hybrid corn seed is purchased every year by Colorado corn producers from hybrid seed corn companies. The cost of seed varies from about \$15 per acre for dryland corn to about \$32 per acre for irrigated corn. By estimation, some \$30 million worth of corn seed is sold each year in Colorado. The Colorado seed corn market attracts many commercial seed companies, each with a host of hybrids to sell to our producers. Aggressive marketing by some companies, variable climatic conditions, innovations from biotechnology, 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 were 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.

In 1996, corn grain hybrids, under irrigation, were tested in six Eastern Colorado locations and three Western Slope locations. Dryland corn hybrids were tested in three locations in Eastern Colorado. Silage corn hybrids were tested in two Eastern Colorado locations and two Western Slope locations. Eastern Colorado trials are conducted by Colorado State University's Department of Soil and Crop Sciences (Crops Testing), and Western Slope trials are conducted by Harold Golus and Calvin Pearson of the Fruita Research Center, Colorado Agricultural Experiment Station.

A randomized complete block field design with three replicates was used in all Eastern Colorado irrigated trials and four replicates were used in all dryland trials. Target 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 with a White Air Planter at a target population of 33,500 seeds per acre. All Western Slope trials were furrow-irrigated. Plot area harvested was approximately 230 ft² and grain yields were adjusted to 15.5% moisture.

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 (density), and ear drop. Ears dropped per plot are counted at the time of harvest but fallen ears are not threshed nor included in the plot yields. A silk date is reported for the Rocky Ford trial. For the silage trials, yields are reported in tons per acre adjusted to 70% moisture content. The moisture content of the silage at harvest is also reported, as an indicator of hybrid maturity at harvest. The least significant difference (LSD) value, $\alpha=0.30$, is reported for yield. Carmer (1976) found that producers' risk of economic loss was minimized by using LSD alpha values of 0.20 to 0.40 when selecting hybrids based on crop performance trials. The coefficient of variation (CV) for yield is also reported. CSU does not make hybrid recommendations but average hybrid performance over multiple locations and years is generally a more reliable predictor of future performance than outstanding yield performance in one trial.

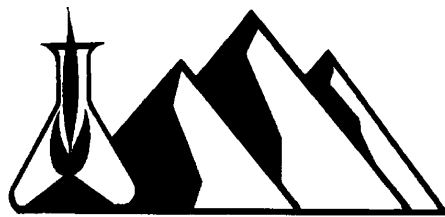
The 1996 Cropping Season

The 1996 corn cropping season was longer than the 1995 season due to earlier planting and harvest before the first killing frost. Our trials, often planted into producer fields, can be considered as a small sample of the agroclimatic conditions that influenced corn production throughout Colorado. The average date of planting for the irrigated trials in northeastern Colorado was April 30, 1996, an average of seven

days earlier than trial planting dates in 1995. Dryland trials were planted, on the average, six days earlier in 1996 than in 1995. Neither late spring freeze nor early fall freeze was a factor in the 1996 corn trials. The 1996 growing degree days (GDD) at most trials were greater than the 1995 GDD and near to the longtime average GDD. 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.

Hail was a widespread occurrence in Eastern Colorado in 1996. Four of the five irrigated grain trials in NE Colorado received hail. Wiggins and Yuma trials were hailed on three times. Hail events occurred from mid-July until the end of August and it was not uncommon to see corn fields completely stripped of all vegetation. None of the dryland trials were hailed on. There were serious infestations of mites along the Front Range and European corn borer infestations in northeastern Colorado.

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



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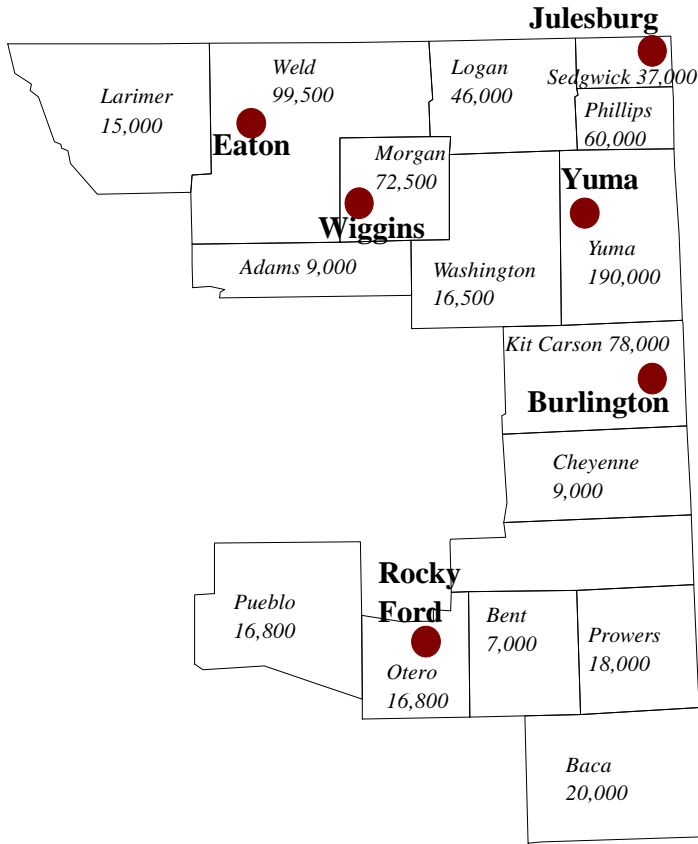
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Extension Information

***1996 Colorado Corn Hybrid Performance Trials
1996 Colorado Sunflower Hybrid Performance Trials
1996 Northeastern Colorado Pinto Bean Variety Performance Trials
Collaborative On-Farm Test (COFT) Results for 1996
1996 CSU Winter Wheat Variety Performance Trial Results
and much more..,***

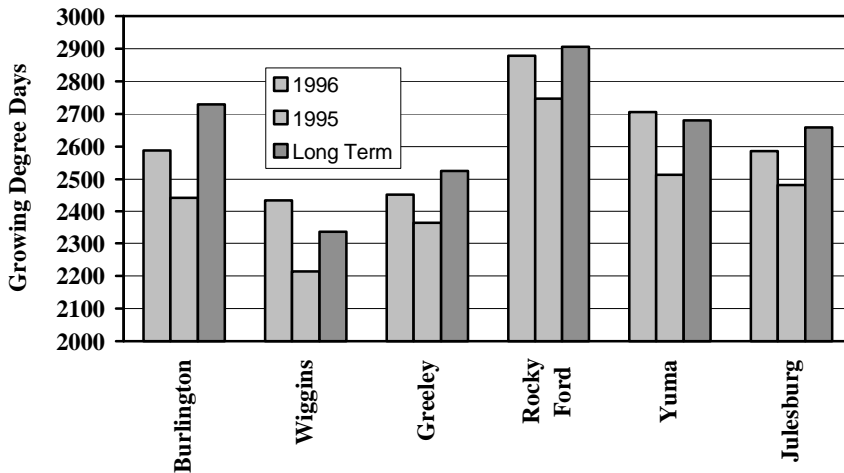
Eastern Colorado Irrigated Hybrid Grain Corn Performance Data

16 Eastern Colorado Counties producing more than 500,000 bu of corn for grain, their 1995 acreage harvested, and CSU's six trial locations.



Irrigated corn for grain is the bread and butter of Colorado corn production. Each year about 750,000 acres are planted, yielding 120-165 bu/acre, and producing upwards of 100,000,000 bu of corn with a value of approximately \$250 million for Colorado's corn producers. Every year, each acre is planted with hybrid seed for which Colorado corn producers spend about \$22 million. The role of the university is to provide unbiased and reliable information to assist Colorado producers in making better hybrid decisions.

1996, 1995, and Long Term GDD at Eastern Colorado Irrigated Corn Hybrid Trial Locations



The single most important climatic factor determining irrigated corn yield is growing degree days. GDD in 1996 were superior to GDD in 1995 and more like long term average GDD.

Table 1. Irrigated Corn Hybrid Performance at Burlington in 1996¹

Hybird	Yield	Test	Grain	Lodging	Plant	Density
		Weight	Moisture		Height	
	bu/ac	lb/bu	%	%	in	plants/ac
Fontanelle 5306	221.6	54.6	14.5	52	85	34943
Fontanelle 5335	204.5	54.2	20.1	20	88	34393
Mycogen 2677	204.3	54.9	15.2	29	80	33149
DEKALB DK560	202.6	54.4	14.1	27	81	35861
Midwest Seed G-7636	201.6	54.0	17.1	26	82	33883
LG Seeds LG2560	201.5	52.9	17.2	31	89	35874
Cargill 6888	201.0	53.9	16.9	64	86	32671
DEKALB DK604	200.8	53.5	13.5	18	89	33215
Kaystar KX-777	200.7	54.5	19.9	40	88	33363
LG Seeds LG2537	197.0	55.8	14.0	30	85	33699
DEKALB DK569	196.5	53.5	15.4	37	88	33484
Ciba 4494	195.8	54.1	19.2	28	88	34579
Stauffer X231	193.8	54.0	13.5	6	88	32688
LG Seeds LG2511	192.1	54.7	13.8	46	79	32143
Wilson 1664	191.8	54.4	19.7	48	87	34939
AgriPro AP 9565	189.6	54.3	19.7	55	85	35823
AgriPro AP 9489	189.3	55.1	15.2	26	83	33811
Grand Valley X4676	187.1	56.5	16.6	16	80	32307
Cargill 6327	187.0	54.1	14.4	27	89	34667
Mycogen 2689	186.7	54.0	14.3	33	86	33579
Midwest Seed G-7711	184.0	54.6	19.1	37	87	32515
DEKALB DK566	183.6	53.4	13.5	29	91	33396
Northrup King N4242	183.4	54.0	13.6	17	82	29117
Triumph 6410	182.1	52.6	13.6	12	89	32571
LG Seeds NB471	181.8	54.4	15.4	20	86	33086
DEKALB DK527	181.8	53.3	11.1	22	85	33323
Mycogen 2674	181.8	56.1	14.8	20	86	34390
Cargill 6303	180.7	55.3	16.2	39	80	35235
Wilson 1719	179.2	53.8	22.7	19	92	34780
Northrup King N4640	178.7	54.2	13.4	25	81	31927
Midwest Seed G-7480	177.6	56.6	15.5	34	84	33091
Cargill 4127	176.6	54.8	14.1	19	85	35036
Grand Valley X7258	173.1	52.7	14.7	13	89	35403
Triumph 9932	172.4	54.0	13.7	29	78	34562
Ciba 4394	171.1	55.4	16.2	83	96	35925
Midwest Seed O 331	168.0	54.1	26.2	54	90	31839
Stauffer 2500	167.9	53.8	13.4	36	81	31412
Grand Valley SX1234	167.3	55.8	14.5	69	85	33247
NC+ 1585	164.3	52.7	12.0	48	86	34030
Northrup King N3030	162.2	54.3	12.4	74	84	33524
AgriPro HS 9484	159.5	54.3	16.4	58	85	33203
Grand Valley SX1233	158.2	54.3	14.5	53	86	32193
Average	185.3	54.3	15.7	35	86	33640
CV %	6.8					
LSD _(.30)	10.7					

¹Trial conducted on the Dennis Coryell farm; seeded 4/30 and harvested 10/24.

Table 2. Average Irrigated Corn Hybrid Performance at Burlington, 1995-96

Hybrid	Yield	Test	Grain
	bu/ac	lb/bu	%
Kaystar KX-777	182.7	53.3	21.6
LG Seeds LG2511	181.9	54.2	15.2
Fontanelle 5335	179.3	53.1	20.0
LG Seeds NB471	177.4	53.3	18.3
Mycogen 2689	173.8	53.3	18.2
LG Seeds LG2537	171.1	55.2	16.5
Cargill 6327	169.7	53.5	17.2
Triumph 9932	165.1	54.0	14.8
Ciba 4394	161.0	54.6	17.5
DEKALB DK569	159.6	52.8	18.0
Ciba 4494	157.5	53.2	22.1
DEKALB DK566	157.1	52.7	16.2
AgriPro HS 9484	155.0	53.3	18.9
Grand Valley SX1234	154.4	54.7	16.2
LG Seeds LG2560	154.2	51.0	22.5
DEKALB DK560	139.6	53.8	17.4
Average	165.4	53.5	18.2

Table 3. Irrigated Grain Cultural Conditions in 1996

	Burlington	Eaton	Jules-burg	Rocky Ford	Wig-gins	Yuma
Soil Type	Kieth Silt Loam	Weld Loam	Rago Kuma Silt Loam	Silty Clay Loam	Rago Sandy Loam	Haxtun Sandy Loam
Previous Crop	Corn	Beets	Corn	Misc. Veg.	Corn	Potatoes
Fertilization						
N acre ⁻¹	225	160	160	175	250	240
P ₂ O ₅ acre ⁻¹	60	60	40	50	40	45
K ₂ O acre ⁻¹		20			40	
Zn acre ⁻¹					1	½
S acre ⁻¹		5			5	20
Herbicide	Bicep II Marksmen	Bladex	Bicep	Dual Bladex	Dual Bladex	Harness Atrazine
Insecticide	Furadan Rescue	Comite	Thimet	Comite	None	None

Table 4. Irrigated Corn Hybrid Performance at Eaton in 1996¹

Hybird	Yield	Test	Grain	Lodging	Plant	Density
		Weight	Moisture		Height	
	bu/ac	lb/bu	%	%	in	plants/ac
AgriPro AP 9340	226.6	55.2	12.8	7	99	29448
Grand Valley X7276	222.6	55.9	13.4	7	96	30179
AgriPro HY 9339	215.7	55.7	14.4	13	88	29349
Patriot 4027	204.4	55.0	13.2	7	102	29840
DEKALB DK477	201.3	55.2	11.9	19	100	30154
DEKALB DK527	197.0	55.8	14.0	20	94	32502
Cargill 3677	194.4	57.4	13.4	20	91	31578
LG Seeds LG2487	192.0	56.6	14.2	28	96	30492
DEKALB DK442	187.6	55.7	11.7	39	97	31640
Kaystar X6102	186.3	56.6	14.5	18	96	30945
Northrup King N4242	184.5	55.4	12.5	16	83	30170
Grand Valley SX1230	181.9	56.9	15.1	18	92	29722
Asgrow RX502	178.4	55.9	14.0	11	91	30268
Asgrow RX365	178.2	56.2	14.1	4	87	29564
Grand Valley X8408	175.3	55.1	13.2	10	94	30088
Patriot 4026	174.8	56.8	14.8	23	94	32126
Grand Valley SX1216	173.2	55.7	14.4	14	86	30291
Triumph 6311	172.8	56.1	14.6	35	95	29969
Grand Valley SX1232	172.2	56.2	14.8	18	86	28425
Northrup King N3030	169.6	56.4	13.0	19	93	29315
DEKALB DK412	168.7	56.1	12.2	6	90	32411
Mycogen EX6443	164.1	56.6	14.7	48	96	29668
Triumph 9932	159.4	57.0	15.3	21	87	31419
Grand Valley SX1233	159.2	56.2	15.0	36	95	29976
Mycogen 2420	156.1	55.3	11.6	9	78	31568
DEKALB DK493	154.5	55.1	13.7	44	95	31691
Grand Valley SX1256	153.2	57.9	15.8	15	103	27975
Cargill 4127	152.4	57.2	16.1	4	97	30652
Patriot 4055	150.4	55.1	15.5	29	100	29958
Mycogen 2500	149.9	57.6	15.1	5	87	32653
Ciba 4273	146.8	57.8	15.4	9	96	30976
Mycogen 2550	143.0	54.7	13.1	19	90	31288
Patriot 3999	140.7	55.5	12.5	21	104	30349
Ciba 4214	139.8	58.0	23.1	20	109	28841
Patriot 4018	137.3	56.6	13.9	25	95	29274
Grand Valley SX1220	131.2	57.8	14.0	50	99	32033
LG Seeds LG2410	131.0	58.7	12.5	34	95	30298
Ciba 4285	107.0	55.9	14.1	9	88	29001
Cargill 2497	106.3	56.7	13.8	11	89	31704
Average	167.7	56.3	14.1	20	93	30456
CV %	11.4					
LSD _(.30)	16.3					

¹Trial conducted on the Ed Croissant farm; seeded 4/22 and harvested 11/4.

Table 5. Average Irrigated Corn Hybrid Performance at Eaton, 1995-96

Hybrid	Yield	Test	Grain
	bu/ac	Weight lb/bu	Moisture %
AgriPro HY9339	177.3	52.2	15.6
Grand Valley SX1230	162.8	53.4	15.7
DEKALB DK527	161.8	52.3	14.2
Northrup King N4242	160.4	52.7	13.1
Northrup King N3030	156.8	54.2	13.3
Grand Valley SX1232	156.3	53.2	15.6
DEKALB DK493	150.2	51.3	13.8
Triumph 9932	148.5	53.7	15.8
Ciba 4214	146.5	54.3	17.5
Ciba 4273	144.5	54.2	15.8
Grand Valley SX1256	143.5	53.4	15.0
Mycogen 2550	136.9	50.6	12.7
Ciba 4285	122.0	52.9	13.5
Average	151.4	52.9	14.7

Table 6. Irrigated Corn Hybrid Performance at Julesburg in 1996¹

Hybird	Yield	Test	Grain	Lodging	Ear	Plant	Density
		Weight	Moisture		Drop	Height	
	bu/ac	lb/bu	%	%	%	in	plants/ac
Cargill 6303	193.4	52.1	17.5	35	0	79	27439
Cargill 6888	182.5	51.8	21.3	29	0	81	26516
Fontanelle 4193	181.8	53.2	16.6	24	0	73	27247
AgriPro AP 9489	181.7	53.5	19.5	21	0	76	28149
Kaystar KX-600	177.4	52.7	13.8	18	0	73	26287
Grand Valley X7258	175.6	50.9	16.1	46	0	81	25741
Wilson 1371	173.1	50.5	16.3	24	0	82	23292
LG Seeds LG2511	169.1	52.5	15.6	18	0	72	29239
NC+ 3869	168.6	53.3	16.1	21	0	73	26148
AgriPro AP 9340	167.1	51.6	14.0	25	0	80	26915
DEKALB DK493	166.5	51.5	13.1	42	0	78	25294
DEKALB DK560	165.6	53.3	17.0	36	0	85	24453
Grand Valley SX1230	165.0	53.4	13.9	20	1	75	23681
Mycogen 2689	164.9	52.3	19.6	18	0	80	27447
Ciba 4372	164.2	53.4	14.8	22	0	82	26808
Mycogen 2674	162.9	53.9	17.6	54	0	79	27023
AgriPro HY 9339	162.5	51.9	13.9	21	0	72	25109
Grand Valley SX1233	159.9	53.3	14.3	32	0	78	27317
Grand Valley SX1234	158.5	54.8	16.3	54	0	83	26681
DEKALB DK569	157.1	52.7	15.6	35	0	78	22534
Wilson 1350	155.7	53.9	14.3	24	0	76	25797
Grand Valley X7276	152.9	52.2	13.5	33	0	81	25047
LG Seeds LG2537	152.0	54.7	21.8	47	0	79	26514
Mycogen 2550	152.0	50.9	12.9	14	0	69	24356
DEKALB DK527	151.4	52.7	14.4	32	0	75	25008
ICI Seeds 8565	151.2	51.6	14.3	41	0	82	24475
Ciba 4306	151.2	54.7	16.0	54	0	76	27588
Ciba 4394	148.5	54.1	20.2	29	0	83	27461
Northrup King N4242	145.9	51.9	12.1	39	0	73	24020
Northrup King N4640	145.7	52.4	12.6	14	0	70	23483
Northrup King N3030	144.7	54.4	13.8	28	0	77	22447
Grand Valley SX1232	143.9	53.0	14.2	23	0	72	25859
Average	162.3	52.8	15.7	30	0	77	25793
CV %	7.5						
LSD _(.30)	10.4						

¹Trial conducted on the Gene Bauerle farm; seeded 5/7 and harvested 10/30.**Table 7. Average Irrigated Corn Hybrid Performance at Julesburg, 1995-96**

Hybrid	Yield	Test	Grain
		Weight	Moisture
	bu/ac	lb/bu	%
Grand Valley SX1230	155.3	53.0	16.2
LG Seeds LG2511	155.2	51.5	16.4
AgriPro HY9339	154.6	51.6	16.2
Wilson 1371	154.0	49.1	17.6
Mycogen 2689	149.2	51.7	20.1
Ciba 4372	148.5	52.4	17.0
DEKALB DK493	148.0	50.5	15.2
Mycogen 2550	145.8	50.1	14.4
Grand Valley SX1232	144.3	52.6	16.0
Wilson 1350	143.4	53.5	17.4
DEKALB DK527	143.3	51.8	16.1
DEKALB DK560	142.5	52.5	19.5
LG Seeds LG2537	142.4	53.6	22.3
Grand Valley SX1234	141.9	53.5	17.7
ICI Seeds 8565	140.6	50.8	16.9
DEKALB DK569	135.0	50.6	19.0
Ciba 4394	134.3	53.0	20.5
Average	145.8	51.9	17.6

Table 8. Irrigated Corn Hybrid Performance at Rocky Ford in 1996¹

Hybrid	Yield	Test Weight	Grain Moisture	Lodging	Plant Height	Density	Silking ²
	bu/ac	lb/bu	%	%	in	plants/ac	date
DEKALB DK642	251.9	55.0	13.7	0	94	32807	195
Pioneer brand 3225	247.5	57.5	15.2	0	87	33786	194
Mycogen 2725	244.2	55.4	13.4	0	85	31412	190
DEKALB DK641	241.6	56.7	14.8	5	91	32761	192
Pioneer brand 3162	239.0	55.7	17.3	0	86	32216	195
DEKALB DK652	238.4	55.6	16.0	2	89	30796	195
Pioneer brand 3489	235.7	54.9	12.9	0	88	32307	192
Northrup King X6423	235.3	55.4	13.3	1	87	30311	190
Mycogen 7250	231.1	56.2	15.3	1	86	32802	191
Kaystar X6113	230.5	53.7	14.5	3	91	31925	196
Wilson 1719	230.1	55.7	14.7	2	89	30855	191
Kaystar KX-909	229.5	55.2	15.9	1	89	31853	193
ICI/Garst 8326IT	228.9	56.5	16.1	2	94	31490	193
Pioneer brand 3223	228.6	56.2	15.2	5	94	32670	196
Ciba 4662	224.5	56.4	15.8	7	93	31101	196
Triumph 1522	220.7	56.8	14.8	6	91	31853	191
Pioneer brand 3394	218.3	55.5	12.7	1	89	32126	192
DEKALB DK580	216.3	56.6	13.0	1	85	31944	191
Triumph 2010	213.4	56.8	15.9	0	91	32018	196
Ciba 4575	208.0	56.9	15.9	28	94	30593	197
Grand Valley X7261	204.3	55.2	12.6	11	91	30492	193
Ciba 4581	203.4	57.8	20.3	3	91	30855	199
Northrup King N4242	200.3	54.4	11.4	1	81	32126	185
Cargill 8328	199.3	57.5	17.0	3	93	29766	195
Northrup King N7931	198.2	57.3	18.0	3	94	29135	193
ICI/Garst 8285	197.2	56.3	17.1	15	95	32579	196
Northrup King N6800	182.7	57.9	17.5	2	90	33305	192
Northrup King N3030	175.6	55.5	11.8	5	87	30855	189
Grand Valley SX1550	169.5	58.5	19.5	17	95	30129	195
Average	218.8	56.2	15.2	4	90	31616	193
CV %	8.0						
LSD _(.30)	14.9						

¹Trial conducted on the Arkansas Valley Research Center; seeded 4/30 and harvested 10/23.

²Julian date

Table 9. Average Irrigated Corn Hybrid Performance at Rocky Ford, 1995-96

Hybrid	Yield	Test Weight	Grain Moisture
	bu/ac	lb/bu	%
Pioneer brand 3162	226.2	53.3	19.2
DEKALB DK642	223.9	51.8	16.7
Pioneer brand 3225	222.7	54.7	17.5
Mycogen 7250	219.4	53.7	16.8
DEKALB DK652	216.8	52.8	17.9
ICI/Garst 8326IT	215.3	53.6	18.7
Kaystar KX-909	214.8	52.4	18.0
Triumph 1522	212.2	53.8	17.4
Pioneer brand 3223	210.3	53.2	17.4
DEKALB DK580	205.8	53.9	14.0
Grand Valley SX1550	197.8	55.1	20.3
ICI/Garst 8285	195.1	53.3	18.9
Average	213.3	53.5	17.7

Table 10. Irrigated Corn Hybrid Performance at Wiggins in 1996¹

Hybrid	Yield	Test	Grain	Lodging	Plant	Density
		Weight	Moisture		Height	
	bu/ac	lb/bu	%	%	in	plants/ac
DEKALB DK493	162.9	52.3	19.3	2	84	30339
Cargill 4127	160.6	53.6	21.6	1	84	30204
DEKALB DK560	156.0	52.2	28.3	4	89	32064
AgriPro HY 9339	155.2	51.7	26.5	3	79	29901
DEKALB DK569	155.1	51.5	29.1	2	80	29977
Mycogen 5250	153.1	52.0	21.6	1	87	29726
Cargill 3677	151.6	53.9	17.8	3	82	31772
Cargill 6303	151.4	51.0	27.9	1	79	31365
Kaystar KX-711	151.2	51.7	33.2	2	86	32095
DEKALB DK527	150.0	52.5	24.2	2	83	32158
Ciba 4306	149.3	53.0	26.6	2	76	32326
Grand Valley SX1234	149.2	52.9	26.7	2	86	29975
AgriPro AP 9340	148.2	51.6	23.6	1	80	31063
Grand Valley SX1232	146.9	52.9	19.0	4	79	31170
Patriot 4026	146.7	52.6	23.6	0	76	30607
Grand Valley X7276	145.5	51.8	22.4	2	78	31852
Ciba 4394	145.3	51.8	31.6	1	91	32278
Grand Valley X4684	144.8	51.9	29.5	6	84	30905
ICI/Garst 8565	143.0	51.5	23.5	3	85	30598
Patriot 4027	140.8	51.9	23.9	2	79	30911
Patriot 3999	139.8	52.4	18.9	2	79	31113
LG Seeds LG2511	139.6	52.8	19.3	6	80	29858
LG Seeds LG2482	139.2	51.3	20.0	3	82	30904
Cargill 6327	139.1	50.4	36.0	3	85	32816
Triumph 9932	137.4	52.9	20.5	5	78	30593
Grand Valley SX1230	136.0	53.2	20.6	4	77	29494
Grand Valley SX1233	135.3	52.5	22.2	5	79	29626
Mycogen 2689	135.0	50.9	35.3	3	82	30867
Grand Valley X7258	134.9	49.7	30.8	2	84	29472
Patriot 4055	133.7	50.7	28.2	5	84	32224
Ciba 4372	131.7	52.0	25.3	2	81	29865
Patriot 4018	117.8	51.7	18.7	6	79	30479
Average	144.6	52.0	24.9	3	82	30894
CV %	7.2					
LSD _(.30)	8.9					

¹Trial conducted on the Larry Rothe farm; seeded 4/26 and harvested 10/12.

Table 11. Average Irrigated Corn Hybrid Performance at Wiggins, 1995-96

Hybrid	Yield	Test	Grain
		Weight	Moisture
	bu/ac	lb/bu	%
AgriPro HY9339	151.6	49.9	23.1
DEKALB DK527	150.6	50.1	21.2
LG Seeds LG2511	149.6	51.2	18.1
ICI Seeds 8565	147.9	49.6	20.1
Grand Valley SX1230	145.9	51.6	18.1
Grand Valley SX1232	145.9	51.2	18.7
Triumph 9932	144.4	51.3	19.7
DEKALB DK569	143.1	48.6	26.3
DEKALB DK560	142.6	49.8	24.9
Grand Valley SX1234	142.5	52.0	21.6
Ciba 4394	140.6	50.1	25.0
Ciba 4372	137.4	50.0	22.9
Cargill 6327	135.7	48.0	30.6
Mycogen 2689	130.8	48.2	30.3
Average	143.5	50.1	22.9

Table 12. Irrigated Corn Hybrid Performance at Yuma in 1996¹

Hybrid	Yield	Test	Grain	Lodging	Plant	Density
		Weight	Moisture		Height	
	bu/ac	lb/bu	%	%	in	plants/ac
Fontanelle 4193	173.2	54.2	24.6	5	84	32670
NC+ 3869	163.7	53.9	25.2	5	81	31364
Grand Valley X4676	157.6	53.3	25.7	6	80	31021
DEKALB DK566	156.3	51.8	19.8	7	85	31562
Mycogen 2674	153.8	53.6	23.4	5	83	32373
DEKALB DK569	153.1	51.1	20.8	6	82	30166
DEKALB DK527	152.6	53.2	18.8	12	87	31037
Kaystar KX-777	151.9	50.8	29.7	8	88	32739
NC+ 4646	151.3	51.5	29.5	10	88	30652
NC+ 4880	149.5	50.8	30.5	9	87	30108
Wilson 1371	149.5	50.6	23.9	9	91	30009
Wilson 1468	149.5	53.7	24.1	7	84	30179
DEKALB DK560	149.4	52.9	20.3	7	87	29697
Fontanelle 5306	148.3	51.4	29.6	7	89	30855
Cargill 6303	145.8	52.4	22.6	11	78	29778
Cargill 6888	144.9	50.7	27.2	6	90	31309
Asgrow RX701	144.8	51.4	22.8	12	84	30384
Mycogen 2677	143.6	52.3	23.7	11	80	32126
Grand Valley X7276	143.5	51.8	17.9	9	86	29315
LG Seeds NB471	143.2	53.3	25.8	9	87	30916
Asgrow RX601	141.8	53.0	23.3	9	82	31490
Wilson 1581	141.5	52.8	26.8	6	85	32752
Grand Valley X7258	137.3	50.9	21.5	18	88	27525
Mycogen 2689	137.1	51.8	24.8	11	87	29554
Triumph 9932	135.6	53.2	18.2	7	78	31400
Ciba 4494	131.9	51.2	30.9	9	87	32997
Wilson 1350	127.1	54.1	22.2	7	84	29903
LG Seeds LG2560	126.2	50.1	24.7	11	87	30311
Triumph 6311	121.0	53.4	19.4	18	86	29494
Grand Valley SX1233	116.8	52.2	18.7	16	84	28522
Ciba 4394	107.4	53.0	23.7	14	91	29743
Average	143.5	52.3	23.9	9	85	30708
CV %	9.1					
LSD _(.30)	11.2					

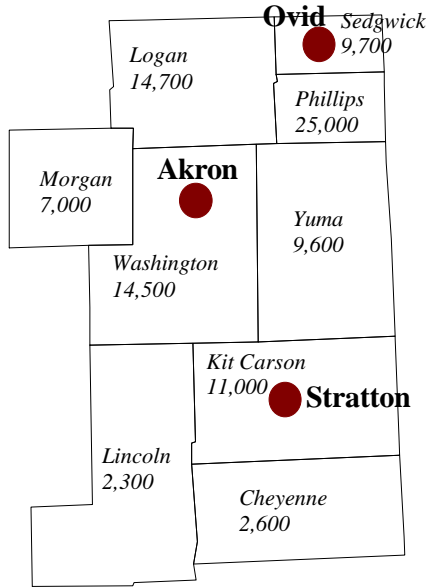
¹Trial conducted on the Byron Weathers farm; seeded 5/7 and harvested 10/12.

Table 13. Average Irrigated Corn Hybrid Performance at Yuma, 1995-96

Hybrid	Yield	Test	Grain
		Weight	Moisture
	bu/ac	lb/bu	%
Fontanelle 4193	160.0	54.4	19.0
DEKALB DK527	149.1	53.0	15.3
DEKALB DK569	146.4	51.8	16.9
Triumph 9932	144.4	53.5	15.5
DEKALB DK566	144.2	51.6	16.1
Kaystar KX-777	140.4	51.2	22.2
DEKALB DK560	138.2	52.5	16.6
Mycogen 2689	134.8	52.2	19.1
LG Seeds NB471	132.1	53.0	20.0
Wilson 1581	128.4	53.3	20.4
Ciba 4394	118.9	54.0	19.0
LG Seeds LG2560	118.7	50.6	18.8
Ciba 4494	117.6	52.5	22.4
Average	136.4	52.6	18.6

Dryland Hybrid Grain Corn Performance Data

Northeastern Colorado Counties with 1995 Dryland Corn Acreage and Three 1996 Trial Locations



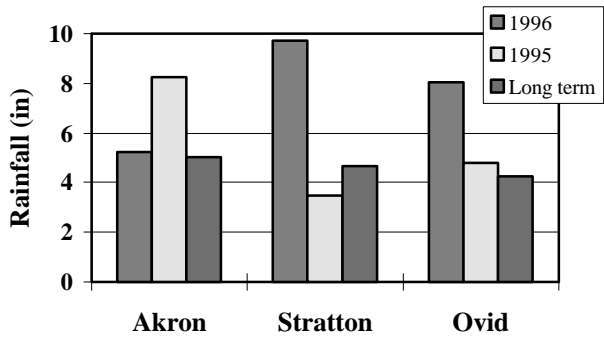
Northeastern Colorado growers have been adopting more intensive dryland cropping systems as shown by increased dryland corn acreage which rose from 26,000 acres in 1990 to 100,000 acres in 1995. Most of the acreage is found in nine NE Colorado counties. CSU agronomists, G. Peterson and D. Westfall, have conducted cropping systems trials at Sterling and Stratton since 1988 with dryland corn as a rotation crop. In their on-farm trials, dryland corn averaged 60 bu/ac at Sterling and 69 bu/ac at Stratton. The value of the dryland hybrid corn seed business in Colorado, increasing every year, was about \$1½ million in 1995.

This year's corn crop was aided by plentiful, and well-distributed, precipitation during the growing season. 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,

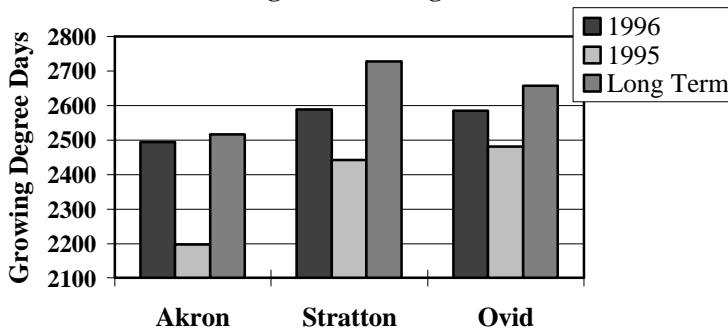
corresponding to tasseling, silking, and early grain-filling. The graph below shows rainfall during July and August at the three dryland corn trial locations. With the exception of Akron, critical 1996 rainfall was greater than 1995 rainfall and mean yields at all locations were higher in 1996 than 1995.

Dryland corn needs sun as well as water and the 1996 growing season was sunnier than the 1995 growing season and more like long-term average growing conditions. More growing degree days and more rainfall in 1996 than 1995 resulted in considerably higher average yields. The average trial yield was 35 bu/ac in 1995 and 74 bu/ac in 1996.

July and August Rainfall at Dryland Corn Trial Locations



1996 GDD for Dryland Corn Trials compared to GDD for 1995 and Long Term Average GDD



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 Corn Hybrid Performance at Akron in 1996¹

Hybrid	Yield	Test	Grain	Lodging	Plant	Density	Silking ²
		Weight	Moisture		Height		
	bu/ac	lb/bu	%	%	in	plants/ac	date
DEKALB DK493	80.9	54.3	15.6	0	74	15289	209
Northrup King N4640	77.8	55.0	13.7	0	68	16453	209
Mycogen 2550	76.3	54.7	14.7	0	66	15577	211
Northrup King N4242	75.6	54.2	13.3	1	67	15919	208
Cargill 4127	73.3	55.8	25.9	0	71	15110	211
DEKALB DK527	72.8	53.4	14.6	4	73	15709	209
Northrup King N3030	72.4	55.2	15.0	0	75	15978	208
ICI/Garst 8692IT	69.6	56.8	16.6	0	61	14784	210
LG Seeds LG2482	68.0	56.4	24.5	3	69	15303	212
Mycogen 5250	66.0	54.3	23.4	9	75	15465	209
LG Seeds LG2537	65.7	56.5	27.2	1	72	15715	212
Kaystar KX-600	56.4	54.9	13.7	21	66	15927	210
Cargill 3677	45.8	55.1	13.6	1	70	15647	210
Average	69.3	55.1	17.8	3	70	15606	210
CV %	15.2						
LSD (.30)	7.8						

¹Trial conducted on the Central Great Plains Research Center; seeded 5/1 and harvested 10/15.²Julian date.**Table 16. Dryland Corn Hybrid Performance at Ovid in 1996¹**

Hybrid	Yield	Test	Grain	Lodging	Plant	Density
		Weight	Moisture		Height	
	bu/ac	lb/bu	%	%	in	plants/ac
Kaystar KX-600	81.2	53.2	25.2	21	75	14702
ICI/Garst 8692IT	68.6	53.3	33.5	2	69	15004
Mycogen 5250	66.5	50.3	30.1	12	81	14544
Asgrow RX707	65.8	50.2	34.9	4	82	15155
Mycogen 2550	56.5	51.6	26.6	4	71	15113
Average	66.8	51.6	29.9	8	76	14885
CV %	6.6					
LSD (.30)	3.9					

¹Trial conducted on the Gene Bauerle farm; seeded 5/20 and harvested 10/30.**Table 17. Dryland Corn Hybrid Performance at Stratton in 1996¹**

Hybrid	Yield	Test	Grain	Plant	Density
		Weight	Moisture	Height	
	bu/ac	lb/bu	%	in	plants/ac
DEKALB DK493	94.8	51.6	20.3	75	15234
Kaystar KX-600	90.4	53.7	17.4	72	15301
Asgrow RX601	90.0	52.0	28.0	74	14622
DEKALB DK527	87.9	52.2	21.8	73	14829
Mycogen 5250	84.0	51.7	23.0	78	14894
Mycogen 2550	81.1	51.9	18.2	69	15370
Asgrow RX707	64.9	51.9	37.4	77	14770
Average	85.2	52.7	22.7	71	15182
CV %	10.5				
LSD (.30)	6.6				

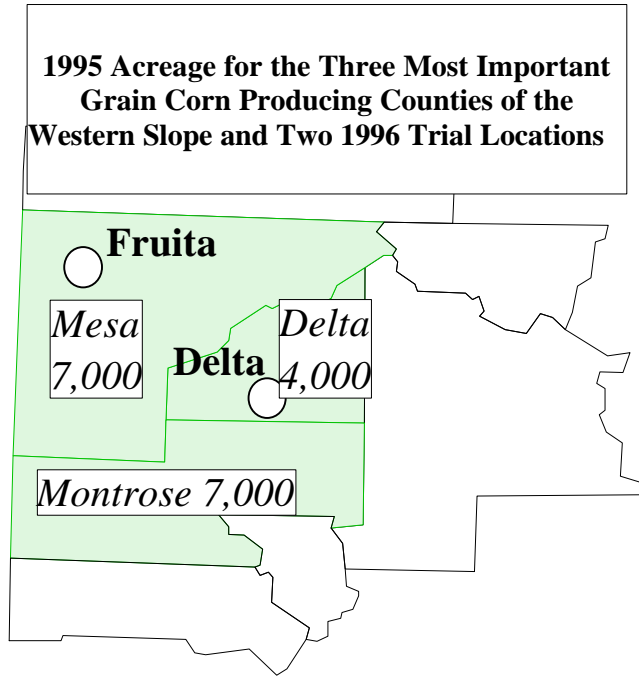
¹Trial conducted on the Steve Scott farm; seeded 6/3 and harvested 10/24.**Table 15. Average Dryland Corn Hybrid Performance at Akron, 1995-96**

Hybrid	Yield	Test	Grain
		Weight	Moisture
	bu/ac	lb/bu	%
Northrup King N4242	58.4	51.3	13.8
Northrup King N4640	54.6	51.8	13.4
ICI/Garst 8692IT	52.2	53.0	16.2
Northrup King N3030	52.1	52.8	14.3
Mycogen 2550	51.9	51.7	14.2
DEKALB DK493	51.0	50.4	13.9
LG Seeds LG2537	47.8	54.0	22.6
Average	52.6	52.1	15.5

Table 18. Dryland Cultural Conditions in 1996

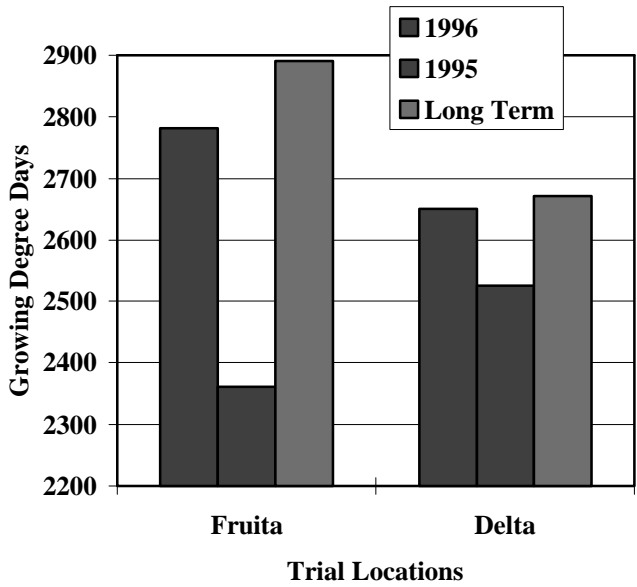
	Akron	Ovid	Stratton
Soil Type	Weld Silt Loam	Rago Kuma Silt Loam	Kieth Silt Loam
Previous Crop	Wheat	Wheat	Sunflowers
Fertilization			
N lb acre ⁻¹	50	15	100
P ₂ O ₅ lb acre ⁻¹		48	35
Herbicide	Roundup Banvel	Roundup Bicep	Prowl Marksman
Insecticide	None	None	None

Western Slope Hybrid Grain Corn Performance Data



Over 2,700,000 bu of grain corn were produced on about 20,000 acres of irrigated farmland on the Western Slope in 1995. Even in a year like 1995 with relatively low yields throughout the state, grain corn is big business on the Western Slope, bringing in about \$7 million to local producers. Calvin Pearson and Harold Golus of the Colorado Experiment Station annually evaluate long-season and short-season corn hybrids to provide reliable and unbiased information to Western Slope producers.

1996, 1995, and Long Term GDD for Two Western Slope Grain Hybrid Trial Locations



Like in Eastern Colorado, the growing degree days on the Western Slope in 1996 were higher than 1995 GDD and more like long term average growing degree days for the May 1 through September 30 period. The trial results this year show the potential of the Western Slope to produce very high grain yields.

Table 19. Irrigated Long Season Corn Hybrid Performance at Fruita in 1996¹

Hybrid	Grain		
	Yield	Moisture	Density
	bu/ac	%	plants/ac
Mycogen 2725	286.6	18.1	34517
DEKALB DK626	284.7	17.3	34422
Patriot 5105	272.8	17.3	33806
Mycogen 2689	271.7	16.6	34138
Mycogen 7250cb	271.4	18.3	33333
Mycogen 2778	266.3	19.0	33901
Grand Valley SX1550	263.4	18.8	32765
DEKALB DK604	263.3	15.2	32954
Northrup King N6423	260.4	17.2	33380
DEKALB DK641	254.3	16.9	31108
Northrup King N7590	252.2	17.5	33854
Grand Valley X7261	245.6	16.3	32054
DEKALB DK580	234.2	16.0	31960
Average	263.6	17.3	33245
CV%	3.9		
LSD (.30)	7.7		

¹Trial conducted on the Fruita Research Center; seeded 5/2 and harvested 11/14.

Table 21. Irrigated Short Season Corn Hybrid Performance at Fruita in 1996¹

Hybrid	Grain		
	Yield	Moisture	Density
	bu/ac	%	plants/ac
Grand Valley X7258	249.7	15.9	32007
Grand Valley X4676	240.6	15.6	32291
Patriot 4027	232.6	15.1	31344
Grand Valley X7276	232.1	15.1	32670
Patriot 3999	231.5	14.4	32859
DEKALB DK493	225.7	14.9	32907
Keltgen 2550	224.9	15.1	32528
DEKALB DK512	224.0	15.1	31723
Grand Valley SX1234	222.3	15.6	31770
Grand Valley SX1233	221.9	15.0	31581
Northrup King N4242	220.3	15.1	31297
Northrup King N3030	216.5	15.0	32149
Mycogen 2500	210.7	15.5	31392
Grand Valley SX1230	209.5	15.1	31250
Northrup King X2944	202.7	14.3	31486
Mycogen 5250cb	197.6	15.6	30918
DEKALB DK477	196.5	14.3	32717
Average	221.1	15.1	31935
CV%	6.2		
LSD (.30)	10.1		

¹Trial conducted on the Fruita Research Center; seeded 5/2 and harvested 11/13.

Table 20. Average Irrigated Long Season Corn Hybrid Performance at Fruita, 1995-96

Hybrid	Grain	
	Yield	Moisture
	bu/ac	%
DEKALB DK626	225.9	17.2
Grand Valley SX1550	211.2	19.3
DEKALB DK580	209.7	15.6
Northrup King N7590	205.7	17.6
Average	213.1	17.4

Table 22. Average Irrigated Short Season Corn Hybrid Performance at Fruita, 1995-96

Hybrid	Grain	
	Yield	Moisture
	bu/ac	%
DEKALB DK512	205.8	14.6
DEKALB DK493	204.1	14.6
Grand Valley SX1234	197.8	15.4
Grand Valley SX1230	192.9	15.0
Northrup King N4242	185.6	13.9
Average	197.3	14.7

Table 23. Western Slope Grain Cultural Conditions in 1996

	Fruita Short Season	Fruita Long Season	Delta
Soil Type	Youngston Fine Sandy Loam	Youngston Fine Sandy Loam	Mesa Clay Loam
Previous Crop	Alfalfa	Alfalfa	Beans
Fertilization			
N lb acre ⁻¹	236	236	218
P ₂ O ₅ acre ⁻¹	92	92	62
Herbicide	Bladex	Bladex	Banvel + 2,4-D
Insecticide	Comite + Dimethoate	Dimethoate + Capture	Comite + Dimethoate

Table 24. Irrigated Corn Hybrid Performance at Delta in 1996¹

Hybrid	Grain			Density plants/ac
	Yield bu/ac	Moisture %	Lodging %	
Mycogen 2725	285.0	16.5	1	33238
Mycogen 2689	255.8	16.2	1	33806
Mycogen 2674	254.0	15.7	1	31865
Patriot 3980	249.1	14.8	1	32812
DEKALB DK477	245.4	14.0	1	32528
Grand Valley SX1230	240.8	15.3	0	31676
ICI Seeds 8771	235.8	14.6	1	32481
Grand Valley SX1233	233.3	15.8	4	32812
Grand Valley X7276	233.2	14.3	2	32528
Northrup King N3030	230.6	14.0	1	32007
Northrup King N4242	228.7	14.1	1	31960
DEKALB DK512	227.1	14.4	4	31108
Mycogen 2500	227.0	14.4	0	32244
Patriot 3999	223.1	13.6	1	31912
DEKALB DK493	223.1	13.9	2	31912
Grand Valley X8408	221.6	14.5	1	31392
Patriot 4027	220.0	14.1	1	31392
ICI Seeds N3681	214.8	14.8	1	31155
Northrup King X2944	213.4	13.7	0	31344
Grand Valley SX1216	213.2	15.1	0	32244
Keltgen 2606	211.6	15.1	2	31628
Keltgen 2550	208.2	14.4	8	32528
Patriot 4018	203.6	14.5	1	31155
Average	230.4	14.7	1	32075
CV%	4.7			
LSD _(.30)	7.9			

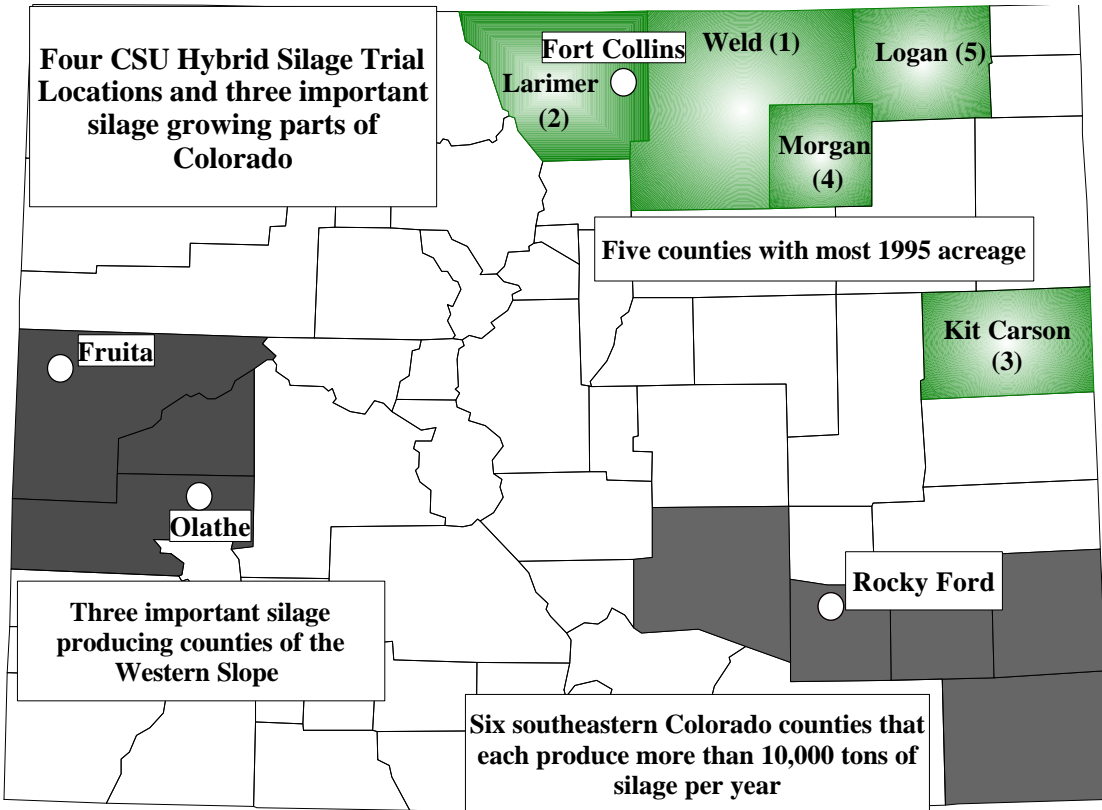
¹Trial conducted on the Wayne Brew farm; seeded 5/3 and harvested 11/12.

Table 25. Average Irrigated Corn Hybrid Performance at Delta, 1995-96

Hybrid	Grain	
	Yield bu/ac	Moisture %
Northrup King N3030	194.2	14.4
Grand Valley SX1230	189.2	17.2
Northrup King N4242	185.8	14.8
DEKALB DK512	179.0	15.8
Mycogen 2550	171.2	14.5
DEKALB DK493	170.9	15.2
Average	181.7	15.3

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

Colorado farmers plant about 100,000 acres of corn for silage each year with average yields of 18-20 Tons per acre. At about \$20 per ton, silage grosses about \$45 million per year for Colorado's silage producers. Hybrid corn seed is purchased every year at a cost of approximately \$30 per acre. Consequently, corn seed for silage in Colorado represents 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.



1995, 1996, and Long Term GDD for CSU's Four Silage Hybrid Trial Location in 1996

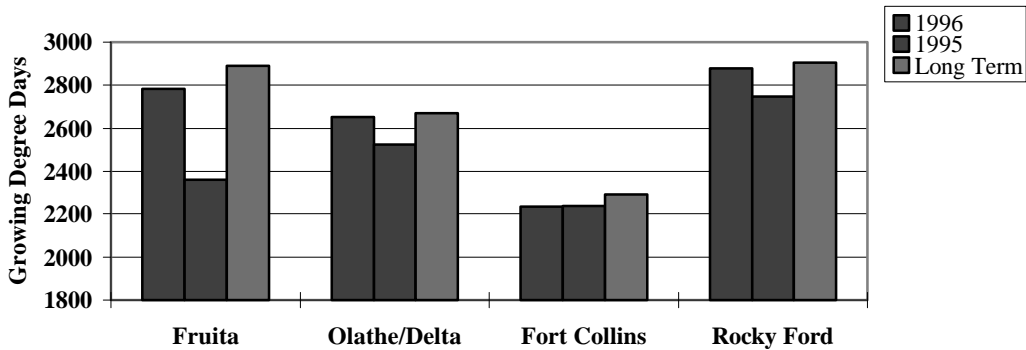


Table 26. Corn Silage Hybrid Performance at Fort Collins in 1996¹

Hybrid	Yield	Moisture	Plant
			Ht
	t/ac	%	in
Ciba 4494	30.6	69.4	90
Asgrow RX789	30.2	73.7	88
Grand Valley SX1550	29.8	74.3	104
Cargill 8327	29.8	76.3	98
Grand Valley SX1256	29.7	70.0	91
Cargill SX269	29.3	71.4	95
Cargill 8328	29.3	75.2	104
Ciba 4662	28.9	75.5	92
Ciba 4575	28.7	76.4	96
Grand Valley X7261	28.4	73.3	98
Asgrow RX770	27.3	71.8	92
AgriPro AP 9707	27.0	77.7	99
Grand Valley SX1356	26.7	72.4	93
Ciba 4581	26.7	77.9	97
Average	28.7	73.9	96
CV %	8.9		
LSD _(.30)	2.2		

¹Trial conducted on the Agricultural Research Development and Education Center; seeded 4/23 and harvested 9/17.

Table 28. Corn Silage Hybrid Performance at Rocky Ford in 1996¹

Hybrid	Yield	Moisture	Plant		
			Ht	Density	Silking ²
	t/ac	%	in	plants/ac	date
ICI/Garst 8315	40.7	65.0	94	32.0	200
Pioneer brand 3173	39.9	63.9	97	32.2	199
Wilson Demand 118	39.4	66.1	89	32.5	202
Pioneer brand 3211	38.3	63.8	97	35.0	196
Ciba 4575	38.0	63.9	93	29.7	199
DEKALB DK642	37.7	60.6	91	30.5	196
ICI/Garst 8285	37.3	63.3	93	31.3	199
Triumph 2010	37.1	61.9	93	30.4	197
DEKALB DK641	37.0	62.2	93	33.1	193
Cargill 8328	36.1	59.7	97	29.9	196
Ciba 4581	35.8	65.9	93	27.3	201
Cargill 9027	35.2	62.3	96	30.1	197
Grand Valley SX1545	35.1	63.0	95	30.3	197
Pioneer brand 3223	33.5	66.6	96	32.7	198
Ciba 4662	31.1	65.8	91	27.4	197
Grand Valley SX1550	25.9	63.0	94	27.9	196
Average	36.1	63.6	94	30.8	198
CV %	11.5				
LSD _(.30)	3.6				

¹Trial conducted on the Arkansas Valley Research Center; seeded 4/29 and harvested 9/10.

²Julian date.

Table 27. Average Corn Silage Hybrid Performance at Fort Collins, 1995-96

Hybrid	Yield	Moisture
	t/ac	%
Grand Valley SX1256	25.0	66.8
Cargill 8327	25.0	75.7
Cargill SX269	24.4	70.0
Grand Valley SX1356	23.4	70.5
Average	24.5	70.8

Table 29. Average Corn Silage Hybrid Performance at Rocky Ford, 1995-96

Hybrid	Yield	Moisture
	t/ac	%
ICI/Garst Seeds 8315	37.6	67.9
Pioneer brand 3211	36.7	67.0
DEKALB DK642	36.3	63.8
Pioneer brand 3173	36.2	68.4
Cargill 9027	35.8	66.4
Pioneer brand 3223	34.7	68.2
Grand Valley SX1550	31.8	65.4
Average	35.6	66.7

Table 30. Silage Cultural Conditions in 1996

	Fort Collins	Rocky Ford	Olathe	Fruita
Soil Type	Fort Collins Clay Loam	Silty Clay Loam	Clay Loam	Youngston Fine Sandy Loam
Previous Crop	Pinto Beans	Misc. Veg.	Corn Silage	Wheat
Fertilization				
N lb acre ⁻¹	80	175	194	236
P ₂ O ₅ lb acre ⁻¹	80	50	47	92
Zn lb acre ⁻¹	10			
Herbicide	Lasso Bladex	Dual Bladex	Banvel + 2,4-D	Bladex
Insecticide	None	Comite	Comite + Dimethoate	Comite + Dimethoate, Capture

Table 31. Corn Silage Hybrid Performance at Fruita in 1996¹

Hybrid	Yield	Moisture	Density
	t/ac	%	plants/ac
Grand Valley SX1550	40.3	61.5	32670
Grand Valley SX1545	39.5	62.6	31392
Cargill 8327	38.0	65.1	32386
DEKALB DK641	36.9	58.1	31013
DEKALB DK743	36.1	65.1	32907
Grand Valley TX161	36.0	66.6	31108
Grand Valley TX158	35.2	61.5	30539
DEKALB DK687	34.9	66.2	31250
Northrup King N7989	34.2	67.1	31770
Northrup King N7992	33.2	62.8	30587
Northrup King N7070	31.3	61.5	32528
Average	36.0	63.5	31650
CV%	4.1		
LSD (.30)	1.1		

¹Trial conducted on the Fruita Research Center; seeded 5/2 and harvested 9/10.

Table 33. Corn Silage Hybrid Performance at Olathe in 1996¹

Hybrid	Yield	Moisture	Density
	t/ac	%	plants/ac
Grand Valley SX1356	30.4	69.4	31534
Cargill 8327	29.0	74.9	31297
Mycogen 2689	28.6	70.3	31486
Grand Valley X7261	28.5	72.6	31581
Northrup King N7070	28.4	72.1	32244
Grand Valley SX1545	28.4	73.9	31297
ICI Seeds 8314	28.4	76.0	30445
Cargill SX269	28.2	70.2	31060
DEKALB DK641	27.9	72.2	31344
Grand Valley TX158	27.8	73.7	30776
Grand Valley SX1550	27.6	74.1	31439
Northrup King N7989	27.6	76.2	30918
DEKALB DK743	27.5	73.3	31344
DEKALB DK687	26.9	75.1	30776
Mycogen 2778	26.8	73.1	31202
Northrup King N7992	25.6	71.7	31439
Average	28.0	73.0	31261
CV%	3.5		
LSD (.30)	0.7		

¹Trial conducted on the David Seymour Farm; seed 5/9 and harvested 9/16.

Table 32. Average Corn Silage Hybrid Performance at Fruita, 1995-96

Hybrid	Yield	Moisture
	t/ac	%
Grand Valley SX1550	36.5	63.9
Cargill 8327	34.4	68.6
DEKALB DK743	34.1	68.6
Grand Valley TX161	32.7	68.5
Grand Valley TX158	32.1	63.4
Northrup King N7992	30.8	66.0
Average	33.4	66.5

Table 34. Average Corn Silage Hybrid Performance at Olathe, 1995-96

Hybrid	Yield	Moisture
	t/ac	%
Grand Valley SX1356	27.3	66.4
ICI/Garst Seeds 8314	26.4	72.5
Grand Valley TX158	26.3	71.0
Cargill 8327	26.2	72.9
Cargill SX269	26.1	67.2
DEKALB DK743	25.5	71.9
Northrup King N7992	24.4	69.2
Average	26.0	70.2

Seed Company Entrants in the 1996 Colorado Corn Performance Trials

BRAND/HYBRID	ENTRANT	ADDRESS	TELEPHONE
AgriPro	AgriPro Seeds, Inc.	RR 2, Hwy 30 East, Ames, IA 50010	(800) 373-1741
Asgrow	Asgrow Seed Co.	PO Box 1945, Plainsview, TX 79073	(806) 293-8559
Cargill	Cargill Hybrid Seeds	PO Box 5645, Minneapolis, MN 55440	(612) 742-6731
Ciba	Ciba Seeds	211 Landmark Dr., Suite D-4, Normal, IL 61761	(309) 454-1223
DEKALB	DEKALB Genetics Corp.	3100 Sycamore Rd., DeKalb, IL 60115	(815) 756-7333
Fontanelle	Fontanelle Hybrids	Rt 1, Box 18, Nickerson, NE 68044	(402) 721-1410
Grand Valley	Grand Valley Hybrids, Inc.	840 23 Road, Grand Junction, CO 81505	(970) 243-3115
ICI/Garst Seeds	ICI Seeds	2938 Kyle Circle, Loveland, CO 80537-7843	(970) 962-9632
Kaystar	Kaystar Seed	PO Box 947, Huron, SD 57350	(605) 352-8791
LG Seeds	LG Seeds	PO Box 88, Tekamah, NE 68061	(800) 752-6574
Midwest	Midwest Seed Genetics	PO Box 518, Carroll, IA 51401	(712) 792-6691
Mycogen	Mycogen Plant Sciences	720 St. Croix Street, Prescott, WI 54021	(800) 321-2867
NC+	NC+ Hybrids	PO Box 4408, Lincoln, NE 68504	(402) 467-2517
Northrup King	Northrup King Co.	Box 959, Minneapolis, MN 55440	(612) 593-7333
Patriot	Patriot Seed Co.	208 S. Worrell, Box 97, Bowen, IL 62316	(217) 842-5612
Pioneer	Pioneer Hi-Bred Int'l., Inc.	1616 So. Kentucky St., Ste C-150, Amarillo, TX 79102	(806) 356-0160
Stauffer	Stauffer Seeds, Inc.	PO Box 68, Aurora, NE 68818	(402) 694-4062
Triumph	Triumph Seed Co, Inc.	PO Box 1050, Hwy 62 Bypass, Ralls, TX 79357	(806) 253-2584
Wilson	Wilson Seeds, Inc.	PO Box 391, Harlan, IA 51537	(712) 755-3841

Entry Forms for 1997 Trials

Entry forms for 1997 trials may be obtained from the Department of Soil and Crop Sciences, Colorado State University, by contacting Cynthia L. Johnson, Research Associate, C-4 Plant Science Building, Fort Collins, CO 80523; Telephone (970) 491-1914; FAX number (970) 491-2758; or e-mail cjohnson@ceres.agsci.colostate.edu. For Western Slope entry blanks, contact Harold Golus, Fruita Research Center, 1910 L Road, Fruita, CO 81521; Telephone (970) 858-3629.

Additional Copies

Crops Testing has made numerous changes to improve the quality of this report of 1996 Colorado Corn Performance Trials. Some of the changes have led to greater costs that we would like to partially recuperate from sales of extra copies of this report without deviating too much from our traditional distribution policy and our public mandate to deliver reliable corn hybrid performance data to Colorado producers. We will continue to provide ten copies to each of the seed corn companies entering hybrids in the trials. We hope that seedsmen and seed companies will order additional copies to help defray additional costs of publication and to encourage us to continue to make improvements in the quality of the report. Additional copies of this report may be ordered from Crops Testing, Cynthia Johnson at C-4 Plant Science Building, Fort Collins, CO 80523; Telephone (970) 491-1914; FAX number (970) 491-2758; or e-mail cjohnson@ceres.agsci.colostate.edu for \$3/copy. Colorado Cooperative Extension agents may obtain up to 10 copies of this report by calling Cynthia Johnson or by sending an e-mail message.