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1999 Colorado Sunflower Performance Trials



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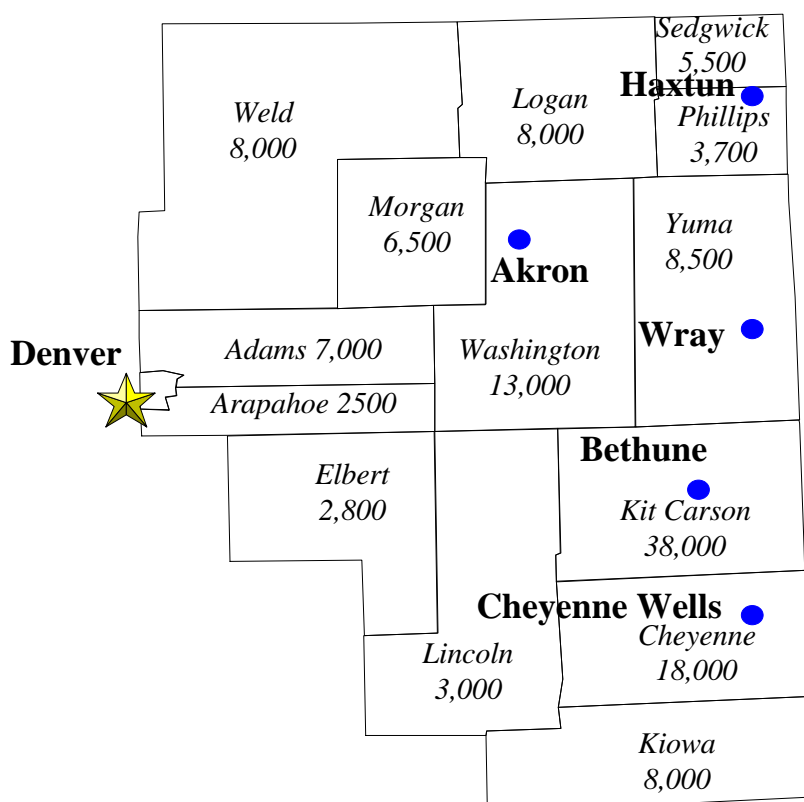
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Five Colorado sunflower trial locations in 1999 and the 1998 acreage harvested for the top producing counties.



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1999 COLORADO SUNFLOWER PERFORMANCE TRIALS

Introduction

Sunflowers have become an important crop in Colorado, especially in the northeastern counties of Kit Carson, Cheyenne, and Yuma. According to the Colorado Agricultural Statistics Service (October 1999), Colorado sunflower production is expected to total 375.2 million pounds, up 88 percent from the 1998 crop with an average expected yield of 1,230 pounds per acre. Harvest area for 1999 is estimated to reach 305,000 acres, up from 150,000 acres harvested a year ago.

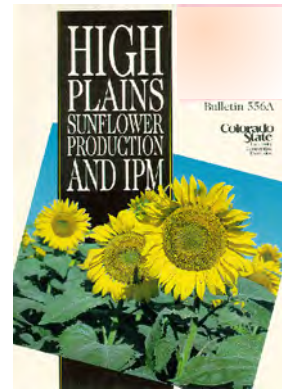
Hybrid seed is used to plant all sunflower acreage in Colorado. The 1999 market value of seed to plant over 300,000 acres exceeded \$4 million. To assist Colorado sunflower producers to make the best hybrid decision, CSU personnel evaluate commercial sunflower hybrids at different locations in northeastern Colorado.

A randomized complete block design with three replicates was used for all trials. The center two rows of four row plots (30" spacing between rows and 40' long) were harvested for grain yield. Oil hybrids were seeded at 19,000 seeds/acre under dryland conditions and at 24,000 seeds/acre under irrigation. Confection hybrids were seeded at 15,000 seeds/acre under dryland conditions and at 17,000 seeds/acre under irrigation.

In addition to seed yields (reported in pounds per acre adjusted to 10% moisture content), test weight, moisture at harvest, plant height, lodging, plants per acre (density), oil content (for oil hybrids), and seed size (for confection hybrids) are also reported. The least significant difference (LSD) value, $\alpha=0.30$, is reported for yield. Oil content was determined by Triumph Seed Co., Inc. using NMR analysis from bulked samples. Oil content is expressed on a 0% moisture basis.

The 1999 Sunflower Season

The results of our 1999 dryland sunflower oil and confection trials at Akron, Cheyenne Wells, and Wray are shown below. Unfortunately we lost the trials at Bethune (irrigated) and Haxtun (dryland) to severe hail damage.



Information regarding sunflower production practices and pest control can be obtained from the following source: "High Plains Sunflower Production and IPM," Bulletin No. 556A, Colorado State University Cooperative Extension, Fort Collins, 80523. Call CERC at 970-491-6198 to order your copy.

Table 1. Cultural conditions for sunflower testing in 1999.

	Akron	Cheyenne Wells	Wray
Soil Type	Weld-Iliff Loam	Keith-Ulysses Silt Loam	Colby Silt Loam
Previous Crop	Corn	Wheat	Wheat
Fertilization			
N acre ⁻¹	55	70	0
P ₂ O ₅ acre ⁻¹	15	0	0
S acre ⁻¹	4	0	0
ACA acre ⁻¹	7oz		
Herbicide	Sonalan	Treflan Spartan	Roundup
Insecticide	None	None	None

Table 2. Dryland sunflower oil performance at Akron¹ in 1999.

Hybrid	Test		Plant		Lodging	Oil
	Yield	Weight	Height	Density		
	lb/ac	bu/ac	in	plants/ac	%	%
Interstate Hysun 450	2000	26.0	47	13511	6	40.2
Triumph 562	1970	26.0	53	11945	11	39.7
DEKALB DK3900	1915	26.9	51	13956	1	42.0
Cargill SF187	1877	26.0	44	14207	3	38.5
DEKALB DK3875	1747	27.3	43	13809	6	39.7
Pioneer brand 6338	1742	27.8	53	14335	0	41.4
Interstate Hysun 449	1735	25.5	49	12447	11	39.1
DEKALB DK3868	1692	27.3	43	12665	10	38.3
Interstate IS 6767	1647	26.1	50	13454	7	40.1
Pioneer brand 63A81	1644	24.6	50	14991	9	40.1
Cargill SF125NL	1615	27.7	57	14514	7	40.9
Cargill SF120	1573	27.3	53	11879	10	39.0
DEKALB DK3872 NS	1550	26.3	56	14597	4	42.9
Cargill SF270	1524	26.5	44	11982	4	39.1
Pioneer brand XF379	1515	25.8	55	14084	9	40.4
Pioneer brand 6300	1463	26.4	51	10539	2	42.0
Triumph 540	1451	25.1	45	12716	6	40.1
Cargill SF260	1417	24.3	46	14331	5	40.2
Mycogen 8488NS	1416	26.4	50	14591	4	39.7
Mycogen 8372	1408	27.5	45	12924	4	40.7
Cargill SF290NL	1381	26.1	52	11768	4	39.1
Pioneer brand 6451	1366	26.0	45	13827	2	40.1
Interstate IS 4049	1287	27.0	52	13319	8	39.2
DEKALB DK3790	1246	26.9	47	13275	3	42.7
Pioneer brand 63A70	1235	25.6	48	12580	13	42.2
DEKALB DK3806	1095	24.5	47	14809	13	41.0
Average	1558	26.3	49	13348	6	40.3
CV%	27.9					
LSD _(0.30)	372					

¹Trial conducted on the Jason Shook farm; seeded 6/24 and harvested 10/20.

Table 3. 2-yr average dryland sunflower oil performance at Akron, 1998-99.

Hybrid	Test	
	Yield	Weight
	lb/ac	bu/ac
Triumph 562	1459	26.0
DEKALB DK3900	1452	26.8
DEKALB DK3875	1450	26.4
Pioneer brand 6338	1438	26.9
Cargill SF187	1410	26.0
Interstate IS 4049	1355	26.9
DEKALB DK3868	1333	26.5
Interstate Hysun 449	1275	25.0
Interstate IS 6767	1271	26.3
Pioneer brand XF379	1233	26.3
Cargill SF270	1220	25.8
Cargill SF260	1219	24.8
Pioneer brand 6451	1149	26.4
Cargill SF290NL	1088	25.7
DEKALB DK3806	1035	25.5
DEKALB DK3790	926	26.0
Average	1270	26.1

Table 4. Dryland sunflower oil performance at Cheyenne Wells¹ in 1999.

Hybrid	Yield lb/ac	Test Plant		Density plants/ac	Lodging %	Oil %
		Weight bu/ac	Height in			
Triumph 562	1762	26.6	59	13566	0	41.2
Interstate ST 2126	1694	26.4	57	14463	2	41.1
Novartis NK brand 278	1604	25.2	51	13714	3	40.2
Mycogen 8372	1507	26.7	51	15145	1	40.3
Pioneer brand 6451	1437	25.6	51	14315	1	40.0
Interstate IS 4049	1436	26.8	55	12342	0	42.1
Pioneer brand 64M01	1416	25.6	55	12164	4	40.3
Pioneer brand 63A51(HO)	1406	25.5	52	13192	0	40.8
Pioneer brand XF4815	1395	26.3	56	11755	1	40.2
Cargill SF270	1388	26.3	47	13298	2	39.7
Novartis NX12827	1387	26.6	60	12230	3	40.2
Cargill SF290NL	1384	25.7	52	14623	0	42.7
Interstate ST 971136 NS	1365	26.5	53	13215	2	41.0
Triumph 540	1359	25.5	51	13026	4	41.6
DEKALB DK3875	1358	26.0	45	14409	0	38.2
Asgrow AS5101	1346	26.3	59	14105	6	40.5
Cargill SF125NL	1340	27.2	57	14881	2	40.1
Cargill SF187	1333	26.8	46	13068	1	39.8
Pioneer brand 63M80	1330	26.7	56	12737	0	43.1
DEKALB DK3790	1328	26.5	51	15082	4	43.0
Interstate IS XK41978	1323	25.2	51	11716	1	39.7
DEKALB DK3872 NS	1308	25.6	47	13853	1	41.9
Kaystar 9501	1296	27.3	61	13363	0	39.7
Asgrow AS503	1279	27.0	66	14702	1	42.4
DEKALB DK3900	1274	27.1	49	13721	0	41.2
Pioneer brand 6338	1267	28.5	54	16136	1	42.3
Pioneer brand 63A81	1256	24.5	56	11710	0	39.7
Pioneer brand XF379	1245	25.6	59	12965	2	40.9
Novartis NK brand 231	1245	26.4	53	15040	0	37.9
DEKALB DK3881	1231	25.9	46	13555	1	41.5
DEKALB DK3806	1225	28.1	50	13740	1	43.9
Asgrow AS3211	1207	25.9	59	14024	1	39.8
Cargill SF260	1189	27.0	39	14124	0	42.3
Interstate IS 6767	1172	27.0	47	14413	0	41.7
Cargill SF120	1170	27.0	56	13645	0	39.3
DEKALB DK3868	1162	26.3	51	14192	1	41.5
Pioneer brand 63A70	1125	25.2	51	13250	0	44.0
Interstate Hysun 449	1098	26.2	50	13184	0	38.8
Pioneer brand 63M91	1090	26.1	57	12892	2	41.6
Pioneer brand 6300	1066	26.5	50	13713	3	42.6
Mycogen 8488NS	1055	27.5	57	13580	1	41.6
Interstate Hysun 450	1049	25.9	47	13026	2	40.5
Interstate ST 2135	947	24.8	48	14263	1	42.0
Average	1299	26.3	53	13631	1	41.0
CV%	24.8					
LSD _(0.30)	275					

¹Trial conducted on the Dennis Campbell farm; seeded 6/8 and harvested 10/19.

Table 5. 2-yr average dryland sunflower oil performance at Cheyenne Wells, 1998-99.

Hybrid	Test	
	Yield lb/ac	Weight bu/ac
Triumph 562	1648	25.0
Novartis NK brand 278	1565	24.8
DEKALB DK3790	1454	26.1
Cargill SF270	1439	25.7
Kaystar 9501	1416	26.6
Pioneer brand XF379	1374	24.8
Cargill SF290NL	1374	25.2
DEKALB DK3881	1361	25.1
DEKALB DK3806	1359	26.8
Interstate IS 6767	1324	26.1
DEKALB DK3875	1322	25.5
Pioneer brand 6338	1321	27.3
DEKALB DK3900	1311	26.4
Interstate Hysun 449	1304	24.6
Novartis NK brand 231	1296	25.4
Interstate IS 4049	1292	26.0
Pioneer brand 6451	1259	25.0
Pioneer brand 6300	1252	25.6
Pioneer brand 63A51(HO)	1249	25.1
Cargill SF187	1229	25.7
Cargill SF260	1214	25.7
DEKALB DK3868	1083	25.5
Average	1338	25.6

Table 6. Dryland sunflower oil performance at Wray¹ in 1999.

Hybrid	Test		Plant		Lodging	Oil
	Yield	Weight	Height	Density		
	lb/ac	bu/ac	in	plants/ac	%	%
Triumph 652	2538	30.1	55	14034	1	48.8
Asgrow AS503	2308	29.6	56	13885	9	49.0
Interstate IS 4049	2250	29.3	56	12796	2	48.8
Seeds 2000 Bronco	2214	30.4	45	13431	3	49.4
Cargill SF187	2148	29.3	49	13431	3	49.2
Pioneer brand XF379	2115	28.9	57	14226	10	47.7
Triumph 562	2075	30.9	55	12814	11	49.0
Pioneer brand 6451	2051	29.6	53	12433	5	51.8
DEKALB DK3900	2049	31.7	47	14455	19	49.7
Pioneer brand 6338	2032	30.8	52	14338	4	47.0
Cargill SF260	2027	26.5	48	13110	1	51.3
Interstate Hysun 449	1992	29.5	55	12933	9	47.9
Pioneer brand XF4815	1921	29.2	56	12666	4	49.3
DEKALB DK3806	1921	31.3	51	13861	14	51.2
Interstate Hysun 450	1899	27.7	48	13947	3	48.8
Pioneer brand 63A51(HO)	1891	30.6	59	14124	17	50.3
Cargill SF125NL	1887	31.3	50	13976	3	47.9
Kaystar 9404	1881	28.5	54	13065	14	47.9
Pioneer brand 63A81	1879	28.0	52	11985	7	50.8
Interstate IS 6767	1869	30.5	52	12408	12	49.7
Asgrow AS5101	1850	31.0	60	13758	10	50.1
DEKALB DK3875	1815	30.5	48	12837	16	49.6
DEKALB DK3872 NS	1797	29.5	50	13183	6	50.5
Pioneer brand 63M91	1784	31.4	53	12756	6	50.5
Mycogen 8372	1783	32.0	54	14546	13	51.0
Mycogen 8488NS	1767	30.5	56	14049	7	50.5
Seeds 2000 Maverick	1737	30.1	55	12877	8	48.6
Pioneer brand 64M01	1726	30.6	52	13186	9	47.7
Pioneer brand 63M80	1676	30.2	52	12753	8	51.9
Cargill SF290NL	1644	29.0	46	12767	4	50.6
DEKALB DK3868	1641	28.6	49	13920	23	51.1
Asgrow AS3211	1605	31.1	64	13917	7	47.2
Cargill SF270	1589	30.1	53	14338	10	50.0
DEKALB DK3790	1581	31.8	52	13879	14	50.7
Triumph 540	1573	25.7	53	14070	22	50.3
Pioneer brand 63A70	1563	30.7	57	8847	11	51.8
Cargill SF120	1459	33.2	54	13666	3	47.9
Pioneer brand 6300	1290	28.4	54	14157	7	48.6
Average	1864	29.9	53	13353	9	49.6
CV%	14.3					
LSD _(0.30)	227					

¹Trial conducted on the Jim Roberts farm; seeded 6/4 and harvested 10/18.

Table 7. Dryland sunflower confection performance at Akron¹ in 1999.

Hybrid	Test		Plant	Density	Lodging
	Yield	Weight	Height		
	lb/ac	bu/ac	in	plants/ac	%
Red River RRC 2413	2249	20.1	44	12446	10
Sigco Sun SS-62	2143	20.2	49	12700	8
Red River RRC EX2582	2068	19.7	51	14468	8
Pioneer brand XF981	1848	19.2	52	10983	12
Red River RRC 2213	1825	19.9	58	12924	7
Royal Hybrid 2073	1803	19.3	51	8340	29
Seeds 2000 Kodiak	1667	20.2	53	13978	3
Triumph 520C	1666	19.8	53	12655	11
Red River RRC 2331	1644	19.8	52	12838	9
Red River RRC 9490	1615	20.3	56	9746	20
Triumph 766 CRT	1569	19.3	53	10139	20
Red River RRC 2412	1543	18.7	53	8588	18
Royal Hybrid 2373	1453	19.5	50	12139	8
Interstate IS 8048	1447	23.9	50	11333	9
Triumph 765C	1419	19.7	53	12772	15
Pioneer brand DE-1998	1327	20.0	49	10902	18
Average	1705	20.0	52	11684	13
CV%	24.5				
LSD _(0.30)	360				

¹Trial conducted on the Jason Shook farm; seeded 6/24 and harvested 10/20.

Table 9. Seed size of dryland sunflower confection performance at Akron in 1999, percent by size.

Hybrid	Above 22/64	22/64	20/64	18/64	16/64
		To 20/64	To 18/64	To 16/64	To 14/64
Interstate IS 8048	43.3	31.4	16.8	6.2	2.3
Pioneer brand XF981	57.6	21.3	13.4	5.3	2.4
Pioneer brand DE-1998	23.7	43.7	22.4	7.4	2.8
Red River RRC 2213	32.7	35.6	21.1	7.9	2.7
Red River RRC EX2582	46.3	32.3	14.8	3.9	2.7
Red River RRC 2413	38.4	33.6	17.5	7.6	2.9
Red River RRC 2331	26.0	30.4	23.8	10.6	9.2
Red River RRC 2412	54.2	21.5	13.0	7.0	4.3
Red River RRC 9490	30.9	33.8	18.8	9.6	6.9
Royal Hybrid 2373	46.9	29.6	14.8	4.7	4.0
Royal Hybrid 2073	60.9	25.0	9.4	2.8	1.9
Seeds 2000 Kodiak	36.4	23.1	24.4	12.4	3.7
Sigco Sun SS-62	33.7	31.7	22.2	9.2	3.2
Triumph 520C	37.7	36.1	18.0	7.0	1.2
Triumph 765C	38.8	32.7	15.9	7.8	4.8
Triumph 766 CRT	43.5	29.8	17.8	6.2	2.7

Table 8. 2-yr average dryland sunflower confection performance at Akron, 1998-99.

Hybrid	Test	
	Yield	Weight
	lb/ac	bu/ac
Red River RRC 2413	1498	19.4
Red River RRC 9490	1328	20.1
Triumph 520C	1321	19.3
Seeds 2000 Kodiak	1308	19.3
Red River RRC 2213	1280	19.1
Royal Hybrid 2073	1277	19.2
Red River RRC 2331	1265	19.3
Royal Hybrid 2373	1178	19.2
Triumph 765C	1176	18.7
Pioneer brand DE-1998	1032	19.4
Average	1266	19.3

Table 10. Dryland sunflower confection performance at Cheyenne Wells¹ in 1999.

Hybrid	Test		Plant	Density	Lodging
	Yield	Weight	Height		
	lb/ac	bu/ac	in	plants/ac	%
Interstate IS 8048	1637	21.0	53	11760	1
Triumph 765C	1505	20.6	51	12878	2
Pioneer brand XF981	1326	20.9	57	12772	2
Triumph 766 CRT	1299	20.4	55	12306	3
Pioneer brand DE-1998	1261	21.5	49	12675	0
Average	1406	20.9	53	12478	1
CV%	18.2				
LSD _(0.30)	231				

¹Trial conducted on the Dennis Campbell farm; seeded 6/8 and harvested 10/19.

Table 12. Seed size of dryland sunflower confection performance at Cheyenne Wells in 1999, percent by size.

Hybrid	Above 22/64	22/64	20/64	18/64	16/64
		To 20/64	To 18/64	To 16/64	To 14/64
Interstate IS 8048	23.6	28.6	21.2	11.6	15.0
Pioneer brand XF981	18.9	34.5	29.5	8.1	9.0
Pioneer brand DE-1998	13.0	32.1	28.9	18.0	8.0
Triumph 765C	19.5	31.6	25.5	12.7	10.7
Triumph 766 CRT	10.3	29.8	20.0	30.2	9.7

Table 13. Dryland sunflower confection performance at Wray¹ in 1999.

Hybrid	Test		Plant	Density	Lodging
	Yield	Weight	Height		
	lb/ac	bu/ac	in	plants/ac	%
Seeds 2000 Kodiak	2053	23.3	59	11146	6
Pioneer brand XF981	2048	22.4	53	10437	29
Triumph 765C	2027	23.7	58	10847	10
Triumph 766 CRT	1865	22.7	52	10735	12
Interstate IS 8048	1580	24.6	59	10702	11
Pioneer brand DE-1998	1154	23.7	51	11682	24
Average	1788	23.4	56	10925	15
CV%	19.4				
LSD _(0.30)	391				

¹Trial conducted on the Jim Roberts farm; seeded 6/4 and harvested 10/18.

Table 14. Seed size of dryland sunflower confection performance at Wray in 1999, percent by size.

Hybrid	Above 22/64	22/64	20/64	18/64	16/64
		To 20/64	To 18/64	To 16/64	To 14/64
Interstate IS 8048	15.4	32.4	36.0	12.5	3.7
Pioneer brand DE-1998	14.4	28.7	38.9	14.8	3.2
Pioneer brand XF981	27.2	36.9	25.1	7.8	3.0
Seeds 2000 Kodiak	28.5	30.7	16.4	20.9	3.5
Triumph 765C	24.6	32.1	26.2	10.0	7.1

Table 11. 2-yr average dryland sunflower confection performance at Cheyenne Wells, 1998-99.

Hybrid	Test	
	Yield	Weight
	lb/ac	bu/ac
Triumph 765C	1329	19.4
Pioneer brand DE-1998	1017	20.1
Average	1197	19.4

Triumph 766 CRT 23.2 31.9

Seed Company Entrants in the 1999 Colorado Sunflower Performance Trials

BRAND/HYBRID ENTRANT	ADDRESS	TELEPHONE
Asgrow	Monsanto 3100 Sycamore Rd., Dekalb, IL 60115	(815) 758-3461
Cargill	Cargill Hybrid Seeds 1401 41 st Street NW, Fargo, ND 58102	(701) 282-8787
DEKALB	Monsanto 3100 Sycamore Rd., Dekalb, IL 60115	(815) 758-3461
Interstate	Interstate Seed PO Box 338, West Fargo, ND 58078	(701) 282-3373
Kaystar	Kaystar Seed PO Box 947, Huron, SD 57350	(605) 352-8791
Mycogen	Mycogen Seeds 1340 Corp. Center Curve, Eagan, MN 55121-1233	(800) 380-7282
Northrup King	Novartis Seeds 103 W. Chestnut St., Ste. 306, Garden City, KS 67846	(316) 275-9697
Pioneer	Pioneer Hi-Bred Int'l., Inc. 210 Gateway Mall Ste.-300, Lincoln, NE 68505-2449	(402) 467-5458
Red River	Red River Commodities, Inc. 1320 East College Drive, Colby, KS 67701	(785) 462-3911
Royal Hybrids	Agway, Inc. 314 3 rd Street, Grandin, ND 58038	(701) 484-5313
SEEDS 2000	SEEDS 2000 PO Box 101, Breckenridge, MN 56520	(218) 643-2410
SIGCO	SIGCO Sun Products, Inc. PO Box 331, Breckenridge, MN 56520	(218) 643-8467
Triumph	Triumph Seed Co., Inc. PO Box 1050, Ralls, TX 79357	(806) 253-2584

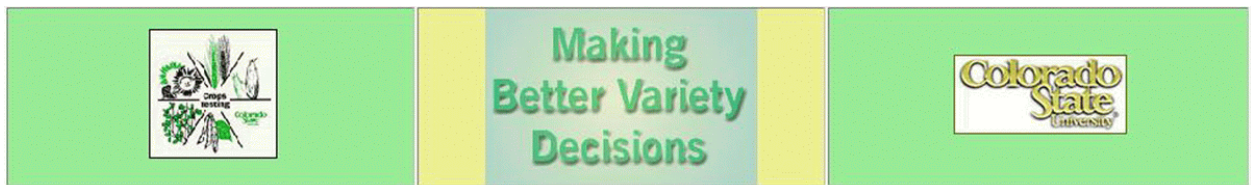
Entry Forms for 2000 Trials

Entry forms for 2000 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>.

Additional Copy Request

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<u>Winter Wheat</u> 1999 Variety Trial Results 1999 MEY Yield Results	<u>Dry Beans</u> 1999 results	<u>Corn</u> 1999 silage results 1999 dryland and irrigated grain results
Crop Variety Performance for Colorado Crops		
<u>Sunflower</u> 1999 results- oil and confection hybrids	<u>Alfalfa</u> 1999 results	<u>Spring Wheat Barley, & Oats</u> see 1998 results

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