



## 2011 Colorado Spring Crop Variety Performance Trial Results

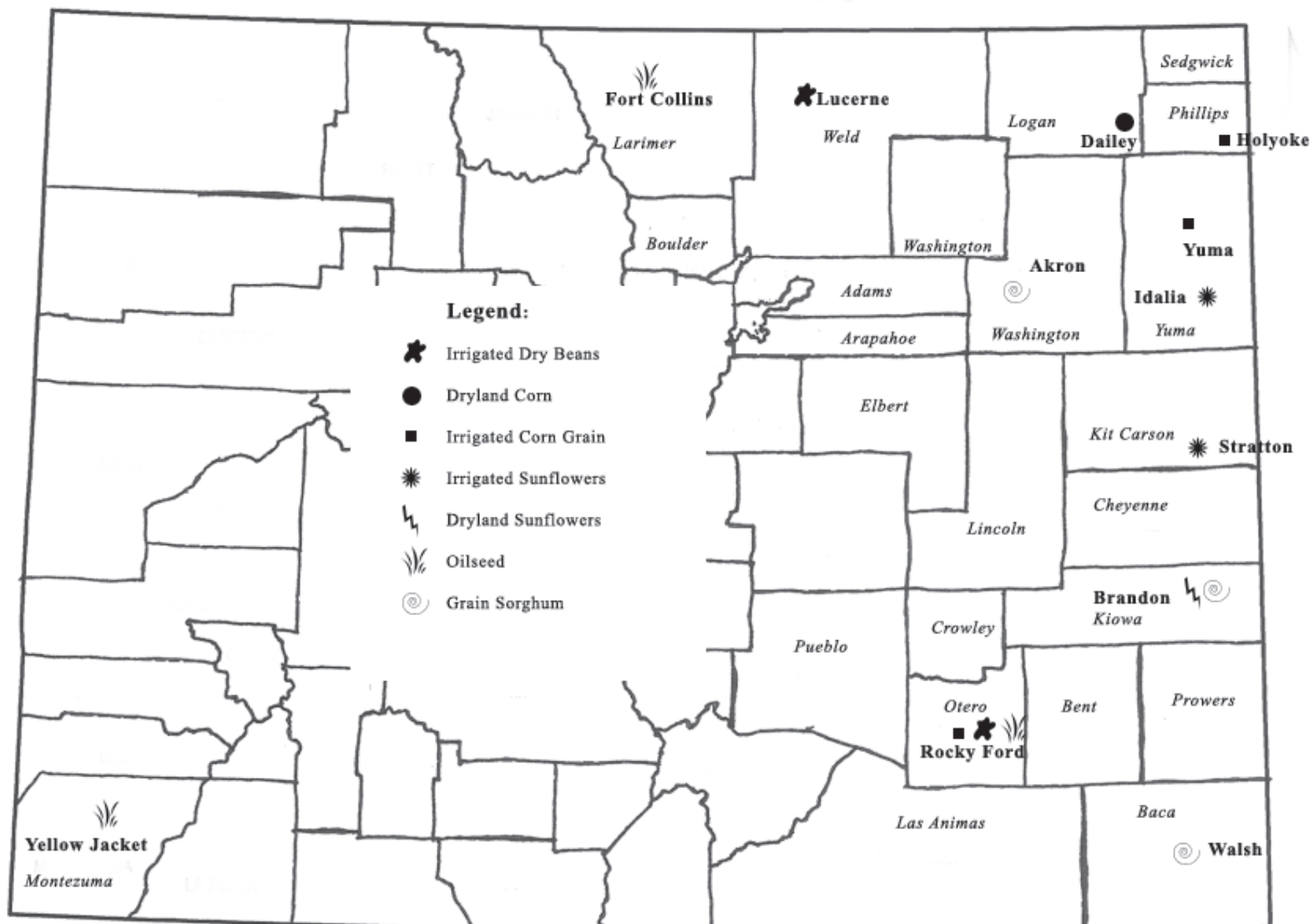
Colorado State University: Jerry J. Johnson, Jim Hain, Sally Sauer, Mark Brick, Howard Schwartz, Garrett Jewett, Navid Sediqi, Jean Nicolas Enjalbert, Perry Cabot, Mike Bartolo, Jeff Davidson, Kevin Larson, Merle Vigil, Dipak Santra and Kierra Jewell

Colorado State University Crops Testing program annually collaborates with university breeding programs and seed companies to conduct variety trials to provide unbiased and reliable performance results to help Colorado crop producers make better variety decisions. These trials allow universities and seed companies an opportunity to screen elite experimental lines for adaptability to diverse and variable Colorado cropping environments. Seed companies can use results to make variety marketing decisions. Some trials are also part of CSU's formal education efforts- graduate thesis research and undergraduate training- as universities train the next generation of the world's plant breeders and agronomists. CSU extension agents and CSU Agriculture Experiment Station personnel participate in conducting these trials and use trial results to make agronomic and variety recommendations to Colorado crop producers.

This publication marks the fifth year that CSU spring crop performance trial results have been published by the High Plains Journal and we are thankful for their collaboration. Selected pinto bean, corn, sunflower, proso millet, camelina (for biofuel), and grain sorghum trial results are featured in the following tables. Please note that these tables are intended to be stand alone and self-explanatory. The complete set of 2011 crop performance trial results for each crop is available on the Crops Testing website: [www.csucrops.com](http://www.csucrops.com). Crop performance trial results for previous years are also available at the same site.

The map below provides the approximate location of these trials within eastern Colorado. Some of the trials are conducted on CSU Agricultural Experiment Stations and others in superior farmer fields. We are especially thankful to the collaborating farmers, whose names are provided at the bottom of each trial results table, who donate their land, time, and equipment so that all Colorado crop producers can benefit from these trial results. These trials are made possible with funding from seed company entry fees; funding from the Colorado Dry Bean Administrative Committee, the Colorado Sorghum Producers, and the Colorado Sunflower Administrative Committee; as well as a grant from the CSU Clean Energy Supercluster.

2011 Colorado Crop Variety Performance Trial Locations



## 2011 Pinto Bean Variety Performance Trial at Lucerne

Variety	Source	Yield <sup>a</sup>	Test Weight	Moisture	Seeds/Pound
		lb/ac	lb/bu	percent	count
La Paz	ProVita, Inc.	3561	60.1	14.1	1261
06185	ProVita, Inc.	3387	60.5	12.6	1260
Sinaloa	ProVita, Inc.	3339	58.9	11.7	1361
ND-307	North Dakota State University	3270	57.0	11.7	1196
07167 (LP-7)	ProVita, Inc.	3262	59.9	12.0	1293
Bill Z	Colorado State University	3255	58.7	9.7	1353
Croissant	Colorado State University	3230	59.6	10.4	1275
Montrose	Colorado State University	3181	58.5	10.5	1276
COB-2824-99	Gentec Inc.	3154	58.1	11.2	1209
CO 54912-7-6	Colorado State University	3118	58.2	19.1	1229
06187	ProVita, Inc.	3097	59.3	12.4	1191
Durango	ProVita, Inc.	3067	59.4	10.7	1213
CO 91216-15	Colorado State University	3019	56.9	12.9	1121
Lariat	North Dakota State University	3011	57.9	15.2	1137
CO 55024-4	Colorado State University	3003	58.8	13.8	1169
CO 93195-17	Colorado State University	2970	56.7	12.7	1325
99217	ProVita, Inc.	2876	59.9	11.4	1193
CO 24972	Colorado State University	2869	59.8	15.3	1279
Stampede	North Dakota State University	2841	58.4	11.0	1232
Galeena	ProVita, Inc.	2807	59.6	11.4	1321
GTS-904	Gentec Inc.	2800	58.5	12.3	1116
CO 54912-7-14	Colorado State University	2789	57.9	21.0	1223
Grand Mesa	Colorado State University	2775	58.3	10.1	1312
CO 54912-7-3	Colorado State University	2690	56.9	22.5	1242
06189	ProVita, Inc.	2689	59.7	13.6	1288
Long's Peak	Colorado State University	2684	57.7	14.0	1227
CO 55024-11	Colorado State University	2675	58.8	13.3	1171
CO 92838-11	Colorado State University	2651	57.8	13.1	1125
CO 54912-7-7	Colorado State University	2584	58.8	18.8	1253
GTS-903	Gentec Inc.	2568	58.7	16.9	1231
CO 54912-7-12	Colorado State University	2441	58.4	19.1	1231
<b>Average</b>		<b>2957</b>	<b>58.6</b>	<b>13.7</b>	<b>1236</b>

<sup>b</sup>LSD<sub>(0.30)</sub>

222

<sup>a</sup>Yields corrected to 14% moisture

<sup>b</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: Randomized complete block with three replications

Plot Size: 10' x 30'

### Site Information

Cooperator: Brian Leafgren  
 Harvest Date: 9/11/2011  
 Planting Date: 6/3/2011  
 Seeding Rate: 85,000 seeds/ac  
 Irrigation: Furrow

## 2011 Pinto Bean Variety Performance Trial at Rocky Ford

Variety	Source	Yield <sup>a</sup>	Test Weight	Moisture	Seeds/Pound
		lb/ac	lb/bu	percent	count
CO 54912-7-3	Colorado State University	2806	59.3	11.4	1190
CO 54912-7-7	Colorado State University	2331	60.0	11.7	1133
CO 54912-7-12	Colorado State University	2288	60.8	10.5	1162
Sinaloa	ProVita, Inc.	2260	57.7	9.7	1214
06185	ProVita, Inc.	2250	58.3	9.8	1192
Montrose	Colorado State University	2139	57.5	9.5	1218
GTS-904	Gentec Inc.	2137	56.6	10.2	1123
Galeena	ProVita, Inc.	2056	59.2	9.3	1366
GTS-903	Gentec Inc.	2052	58.2	12.5	1061
06189	ProVita, Inc.	2027	56.9	9.7	1177
CO 55024-4	Colorado State University	1968	58.5	10.6	1088
CO 24972	Colorado State University	1888	59.5	9.9	1344
CO 54912-7-14	Colorado State University	1867	59.5	11.0	1198
La Paz	ProVita, Inc.	1839	57.8	9.5	1234
06187	ProVita, Inc.	1834	56.2	9.0	1180
CO 55024-11	Colorado State University	1782	54.5	9.8	1189
CO 54912-7-6	Colorado State University	1739	59.4	11.7	1172
Croissant	Colorado State University	1727	58.7	9.4	1216
Stampede	North Dakota State University	1718	55.9	9.3	1156
Grand Mesa	Colorado State University	1633	55.9	9.3	1404
COB-2824-99	Gentec Inc.	1602	55.5	9.3	1130
07167 (LP-7)	ProVita, Inc.	1566	60.2	9.6	1360
Durango	ProVita, Inc.	1535	57.8	9.4	1117
CO 92838-11	Colorado State University	1487	55.5	10.1	1043
99217	ProVita, Inc.	1419	58.0	9.3	1151
Lariat	North Dakota State University	1398	55.5	11.3	1075
Bill Z	Colorado State University	1354	55.6	9.2	1421
ND-307	North Dakota State University	1326	53.2	9.4	1213
<b>Average</b>		<b>1858</b>	<b>57.6</b>	<b>10.1</b>	<b>1197</b>

<sup>b</sup>LSD<sub>(0.30)</sub>

248

<sup>a</sup>Yields corrected to 14% moisture

<sup>b</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: Randomized complete block with three replications

Plot Size: 10' x 30'

### Site Information

Cooperator: Arkansas Valley Research Center

Harvest date: 10/4/2011

Planting date: 6/9/2011

Seeding Rate: 85,000 seeds/ac

Fertilizer applied: N-P (22-104) lb/ac (dry, broadcast in the fall of 2010)

Soil Type: Rocky Ford Silty Clay Loam

Tillage: Conventional

Irrigation: Furrow

Comments: Infestations of common bacterial blight, fusarium wilt, and Mexican bean beetle occurred during the growing season. High temperatures and irrigation timing also had a negative effect on yield.

## 2011 Irrigated Corn Variety Performance Trial at Holyoke

Source	Hybrid	Yield <sup>a</sup>	Moisture	Test Weight	Plant Height	Population	Lodging
		bu/ac	percent	lb/bu	in	plants/ac	percent
Producers Hybrids	6814VT3	240.0	17.5	54.6	95	26,613	2.2
Dekalb	DKC62-97 (GENVT3P)	227.1	18.5	56.8	86	27,629	1.2
Mycogen Seeds	2C641	222.6	18.7	57.2	91	27,751	0.0
Dekalb	DKC55-24 (VT3)	222.1	17.2	59.2	91	26,910	1.5
LG Seeds	2535STX	221.0	20.0	56.1	88	26,187	0.0
NuTech Seed LLC	5H-0601™	220.5	19.7	57.4	86	24,816	0.4
Dekalb	DKC63-07	218.2	24.7	55.8	82	26,620	2.3
Triumph Seed	7830R	216.9	18.6	57.5	87	26,717	0.0
NuTech Seed LLC	5H-501™	215.8	16.9	58.8	93	25,915	0.4
Producers Hybrids	6694VT3Pro	213.7	18.2	57.3	87	25,846	0.4
Mycogen Seeds	X21552	212.3	19.9	56.2	88	26,462	2.5
Producers Hybrids	7014VT3	211.5	18.6	55.0	88	26,323	1.4
NuTech Seed LLC	5H-905™	211.2	18.2	56.4	88	26,972	0.0
Producers Hybrids	6364GT3	209.0	18.3	57.1	89	26,571	1.1
NuTech Seed LLC	5N-001	206.3	16.2	56.1	89	26,814	0.7
Producers Hybrids	7224VT3	205.6	22.0	54.1	96	26,572	1.8
Dekalb	DKC59-88 (VT3)	205.6	21.2	56.8	86	26,516	1.1
Producers Hybrids	7134VT3	197.6	22.3	54.4	85	26,814	2.3
Dekalb	DKC52-59 (VT3)	194.4	15.7	56.9	85	26,547	2.2
Mycogen Seeds	2A555	194.3	16.8	58.2	91	25,407	0.4
Producers Hybrids	6582RR	192.2	17.9	58.8	92	27,004	1.1
Triumph Seed	9934S	191.3	15.8	56.0	103	26,234	0.9
NuTech Seed LLC	5N-102	191.2	15.4	58.2	91	25,832	7.5
Triumph Seed	TRX 09669S	190.1	14.3	57.5	93	25,642	0.4
Mycogen Seeds	2G500	188.7	16.0	58.4	92	26,520	1.9
LG Seeds	2525RR	171.6	18.1	58.7	100	27,104	1.1
<b>Average</b>		<b>207.4</b>	<b>18.3</b>	<b>56.9</b>	<b>90</b>	<b>26,475</b>	<b>1.3</b>

<sup>b,c</sup>LSD<sub>0.30</sub>

14.1

LSD<sub>0.05</sub>

27.1

<sup>a</sup>Yields corrected to 15.5% moisture

<sup>b</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety but some collaborators find LSD<sub>0.05</sub> useful

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with three replications

Plot size: 5' x 30'

### **Site Information**

Collaborator: Brent Adler  
 Planting Date: 5/10/2011  
 Harvest Date: 10/21/2011  
 Previous Crop: Corn  
 Fertilizer: N-P-K-S (220-65-35-30) lb/ac  
 Herbicide: Status, Dual, Roundup  
 Irrigation: Sprinkler

## 2011 Irrigated Corn Variety Performance Trial at Rocky Ford

Source	Hybrid	Yield <sup>a</sup> bu/ac	Moisture percent	Test Weight lb/bu	Plant Height in	Silk Date days after planting	Population plants/ac
Dekalb	DKC 63-07	235.9	31.9	52.7	102	58	34,848
Dekalb	DKC 64-69	234.7	29.2	53.2	100	61	34,320
Dekalb	DKC 62-09	231.6	30.0	51.8	102	60	32,566
Triumph Seed	1217S	225.6	30.1	52.8	105	61	32,492
Triumph Seed	1420X	217.1	30.7	53.2	97	61	31,944
LG Seeds	2602 VT3	217.0	29.6	52.4	104	61	29,473
Dekalb	DKC 64-83	212.4	25.8	55.2	103	59	31,218
LG Seeds	2642 VT3	209.1	33.6	52.3	96	60	30,420
LG Seeds	2636 VT3	208.6	31.0	52.3	103	60	34,848
Dekalb	DKC 62-97	206.6	29.7	52.9	99	58	32,403
Mycogen Seeds	2V738	193.4	32.7	53.1	102	62	30,094
Mycogen Seeds	2V702	192.9	31.1	52.9	100	61	31,064
Dekalb	DKC 63-84	188.6	31.5	52.0	102	60	29,595
Triumph Seed	1157X	187.9	26.9	53.0	107	62	30,815
Mycogen Seeds	2V715	180.3	29.0	51.7	103	63	30,424
Mycogen Seeds	2D744	167.4	25.3	54.2	102	61	30,454
<b>Average</b>		<b>206.8</b>	<b>29.9</b>	<b>52.9</b>	<b>102</b>	<b>61</b>	<b>31,686</b>

<sup>b,c</sup>LSD<sub>0.30</sub>

17.8

LSD<sub>0.05</sub>

34.8

<sup>a</sup>Yields corrected to 15.5% moisture

<sup>b</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety but some collaborators find LSD<sub>0.05</sub> useful

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with three replications

Plot size: 5' x 30'

### **Site Information**

Collaborator: Arkansas Valley Research Center  
 Planting Date: 6/6/2011  
 Harvest Date: 10/14/2011  
 Previous Crop: Corn  
 Fertilizer: Preplant: N-P (22-104 lb/ac) Postplant: 150 lb/ac N  
 Irrigation: Furrow  
 Soil Type: Rocky Ford Silty Clay Loam

## 2011 Irrigated Corn Variety Performance Trial at Yuma

Source	Hybrid	Yield <sup>a</sup> bu/ac	Moisture percent	Test Weight lb/bu	Plant Height in	Population plants/ac	Lodging percent
Delkalb	DKC62-97 (GENVT3P)	260.1	19.5	58.6	82	30,003	0.9
Mycogen Seeds	2V707	253.3	19.5	57.4	86	28,922	1.5
NuTech Seed	5H-0601™	241.7	17.5	58.8	80	28,137	1.6
Triumph Seed	1217S	237.3	20.2	57.5	83	29,356	0.8
Triumph Seed	1157X	236.8	18.3	56.7	87	28,846	6.9
NuTech Seed	5H-905™	235.2	17.4	58.0	80	28,107	0.4
Triumph Seed	1204S	234.0	20.2	58.2	83	29,911	1.7
LG Seeds	2552VT3	232.0	18.5	55.6	78	29,137	5.1
Triumph Seed	1002S	231.5	17.9	58.4	85	27,838	0.4
Delkalb	DKC59-88 (VT3)	229.5	18.8	59.2	79	29,466	0.4
LG Seeds	2549VT3	227.9	18.4	58.0	78	30,105	0.0
Mycogen Seeds	2V715	226.8	18.4	56.5	87	26,817	9.6
LG Seeds	2544VT3	224.4	18.2	57.1	79	27,291	2.2
Producers Hybrids	6814VT3	218.4	17.8	57.0	73	28,556	2.3
NuTech Seed	5N-001	218.0	15.8	58.4	81	29,305	0.4
Mycogen Seeds	X21552	215.2	17.7	58.4	81	29,061	2.6
Mycogen Seeds	2G500	212.9	16.2	59.9	82	28,887	5.3
Delkalb	DKC63-07	212.2	20.3	58.7	74	28,673	0.0
Seeds 2000	3051 G3	212.1	16.9	58.6	86	26,854	1.5
Producers Hybrids	6364GT3	208.9	17.2	59.4	85	26,926	0.0
Delkalb	DKC55-24 (VT3)	206.9	16.9	60.1	78	29,484	0.4
NuTech Seed	5N-102	206.4	15.8	60.1	84	29,198	1.3
Seeds 2000	3141 GT	204.3	16.2	59.2	86	28,108	2.3
Producers Hybrids	6694VT3Pro	204.2	19.7	57.7	74	27,491	0.5
Delkalb	DKC52-59 (VT3)	203.2	16.3	58.7	76	30,507	0.9
Mycogen Seeds	2D744	202.1	18.6	60.6	84	28,708	1.2
Producers Hybrids	6582RR	184.3	17.7	60.9	80	28,569	1.3
NuTech Seed	5H-501™	181.8	17.6	59.4	83	26,523	5.2
Producers Hybrids	5784VT3	169.1	15.1	59.0	75	27,847	0.0
<b>Average</b>		<b>218.3</b>	<b>17.9</b>	<b>58.5</b>	<b>81</b>	<b>28,574</b>	<b>1.9</b>

<sup>b,c</sup>LSD<sub>0.30</sub>

12.2

LSD<sub>0.05</sub>

23.4

<sup>a</sup>Yields corrected to 15.5% moisture

<sup>b</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety but some collaborators find LSD<sub>0.05</sub> useful

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with three replications

Plot size: 5' x 30'

### **Site Information**

Collaborator: Larry Gardner

Planting Date: 5/3/2011

Harvest Date: 11/7/2011

Previous Crop: Corn

Fertilizer: N-P-K-S-Zn-Fe-Mn (245-20-10-10-0.5-0.25-0.25) lb/ac

Herbicide: Roundup

Irrigation: Pivot

## 2011 Dryland Corn Variety Performance Trial at Dailey

Source	Hybrid	Yield <sup>a</sup>	Moisture	Test Weight	Ear Height	Population	Ear Drop
		bu/ac	percent	lb/bu	in	plants/ac	percent
Dekalb	DKC52-59 (VT3)	104.4	21.2	57.6	37	13,981	0.94
Triumph Seed	9934S	99.8	19.7	56.4	39	13,279	0.54
Dekalb	DKC43-27 (VT3)	93.3	16.9	59.1	31	14,192	0.97
Dekalb	DKC48-37	91.3	16.8	59.6	35	14,388	0.00
Dekalb	DKC42-72 (VT3)	86.5	16.6	58.8	29	14,824	0.00
Triumph Seed	TRX 09669S	82.6	15.9	58.5	35	13,144	2.62
<b>Average</b>		<b>93.0</b>	<b>17.9</b>	<b>58.3</b>	<b>34</b>	<b>13,968</b>	<b>0.85</b>
<sup>b,c</sup> LSD <sub>0.30</sub>		6.1					
LSD <sub>0.05</sub>		12.1					

<sup>a</sup>Yields corrected to 15.5% moisture

<sup>b</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety but some collaborators find LSD<sub>0.05</sub> useful

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with four replications

Plot size: 5' x 31'

### **Site Information**

Collaborator: Mark & Neil Lambert  
 Planting Date: 5/31/2011  
 Harvest Date: 10/18/2011  
 Previous Crop: Wheat (fallow)  
 Fertilizer: N-P (80-40) lb/ac  
 Herbicide: Roundup, Atrazine, Status  
 Tillage: No-till



## 2011 Irrigated Oil Sunflower Variety Performance Trial at Idalia

Source	Hybrid <sup>a</sup>	Yield	Moisture	Test Weight	Plant Height	Population	Lodging	Oil Content
		lb/ac	percent	lb/bu	in	plants/ac	percent	percent
Syngenta	3845 HO Coated	2756	6.0	27.0	64	19,229	5.0	41.0
Triumph Seed	TRXs11432CL	2581	7.8	27.6	59	21,733	3.3	41.3
Syngenta	3845 HO	2577	5.4	26.6	65	19,318	2.3	40.3
Mycogen Seeds	8H449CLDM	2534	7.8	29.4	71	20,731	0.3	41.6
Syngenta	3875	2441	7.4	27.8	70	20,258	4.7	38.5
Seeds 2000	X9822-CL, DMR	2422	9.8	28.5	65	21,196	3.7	39.9
Triumph Seed	TRX8341	2418	13.2	25.9	69	19,017	3.3	41.2
Triumph Seed	s673	2338	6.7	26.7	57	20,154	4.0	38.9
Mycogen Seeds	8N421CLDM	2260	8.3	26.6	71	21,279	2.7	38.6
Syngenta	3495 NS/CL/DM	2259	7.4	29.1	67	20,234	14.3	38.7
Triumph Seed	657	2252	8.9	24.3	81	15,637	1.7	40.2
Syngenta	4596 HO/DM	2237	7.3	28.7	79	19,626	4.3	40.3
Mycogen Seeds	8N510	2202	6.3	26.5	64	22,014	6.0	38.4
Seeds 2000	X9452-CL	2194	10.7	27.7	68	22,483	4.0	40.1
Croplan Genetics	548 CL DMR NS	2175	6.9	27.1	73	19,869	9.3	36.7
Croplan Genetics	356A NS	2160	6.4	28.2	64	20,163	7.3	39.2
Seeds 2000	Camaro-CL, DMR	2145	8.4	28.9	72	18,978	3.3	38.1
Triumph Seed	TRXs11431CL	2132	9.9	26.7	64	20,234	4.7	41.0
Seeds 2000	Torino-CL	2114	11.9	28.4	72	22,295	5.7	40.6
Triumph Seed	s668	2112	7.0	28.5	62	21,452	5.0	40.4
Syngenta	3733 NS Coated	2091	6.4	27.7	71	20,365	8.0	38.3
Croplan Genetics	442 E NS	2082	9.7	26.0	68	19,198	6.0	40.8
Syngenta	3158 NS/CL/DM	2050	7.3	27.6	64	19,204	6.0	38.3
Dahlgren & Co.	DO-2012CL	2033	7.6	28.2	65	19,059	8.3	40.7
Triumph Seed	s678	2022	11.4	28.9	70	19,525	4.3	42.7
Seeds 2000	Sierra	1978	10.9	24.8	69	20,828	4.3	37.8
Syngenta	3995 NS/SU	1945	7.0	26.3	64	19,077	7.0	37.5
Seeds 2000	Durango-XPS	1783	7.6	27.4	69	20,931	5.0	38.0
Syngenta	3733 NS/DM	1699	7.8	27.9	68	20,830	8.0	39.2
Mycogen Seeds	8N453DM	1688	7.0	28.8	76	21,490	2.3	42.5
Croplan Genetics	559 CL DMR NS	1589	7.9	27.4	79	21,777	7.0	39.5
<b>Average</b>		<b>2170</b>	<b>8.2</b>	<b>27.5</b>	<b>68</b>	<b>20,264</b>	<b>5.2</b>	<b>39.7</b>

<sup>b,c</sup>LSD<sub>0.30</sub>

LSD<sub>0.05</sub>

<sup>a</sup>Yields corrected to 10% moisture

<sup>b</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety, but some collaborators find LSD<sub>0.05</sub> useful

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with three replications

Plot size: 5' x 31'

### **Site Information**

Collaborator: Schulte Brothers

Planting Date: 6/8/2011

Seeding Rate: Overplanted and thinned to a target of 20,000 plants/acre

Harvest Date: 10/5/2011

## 2011 Irrigated Confection Sunflower Variety Performance Trial at Idalia

Source	Hybrid <sup>a</sup>	Yield lb/ac	Moisture percent	Test Weight lb/bu	Plant Height in	Population plants/ac	Lodging percent	Seed Size				
								Above 24/64	23/64 to 22/64	21/64 to 20/64	19/64 to 16/64	16/64 and below
Triumph Seed	TRX10454C	2716	13.9	18.4	68	15,126	4.6	24.6	36.4	26.2	11.4	1.4
Seeds 2000	Sundance	2429	15.5	19.3	74	18,264	9.5	5.4	19.4	31.8	41.2	2.2
Seeds 2000	Panther II	2421	12.9	18.1	79	17,030	7.2	17.8	28.8	27.8	22.4	3.2
Dahlgren and Co.	EX-819	2114	15.1	16.0	81	17,930	12.3	23.8	22.6	30.6	19.6	3.4
Mycogen Seeds	8C451	2105	13.9	17.4	78	17,611	6.4	47.6	32.2	11.0	7.2	2.0
Seeds 2000	Jaguar II-CL	2103	18.9	16.6	74	17,693	14.2	40.2	31.4	19.4	7.8	1.2
Dahlgren and Co.	D-9579	2063	13.5	15.6	67	18,642	10.6	11.0	36.6	38.2	12.8	1.4
Seeds 2000	Jaguar-CL	1922	14.0	17.4	67	18,002	13.0	18.8	42.2	22.6	12.6	3.8
Triumph Seed	770CL	1917	18.9	17.4	83	17,786	12.7	39.2	31.0	20.6	8.4	0.8
Seeds 2000	X9674	1909	12.0	18.0	78	17,799	8.9	26.4	20.6	25.4	25.4	2.2
Red River Commodities	EX 1512	1872	12.8	17.1	81	18,038	5.4	11.0	20.4	34.6	30.0	4.0
Dahlgren and Co.	D-9530	1824	12.6	18.2	77	17,415	13.2	15.2	34.4	30.4	17.8	2.2
Dahlgren and Co.	D-9530CL	1768	11.4	18.2	78	19,204	14.8	12.0	29.2	36.4	20.4	2.0
Red River Commodities	2215	1764	12.0	18.8	78	17,892	11.0	10.2	29.8	37.2	21.8	1.0
Dahlgren and Co.	EX-610	1740	16.7	17.1	69	19,110	10.3	25.8	30.4	29.6	12.6	1.6
Red River Commodities	2215 CL	1722	12.0	17.6	81	19,017	6.0	8.2	31.6	38.0	19.4	2.8
Red River Commodities	8015	1564	13.2	15.4	73	18,253	10.5	19.4	33.0	32.4	14.2	1.0
Mycogen Seeds	8C410CL	1474	13.6	17.7	80	18,479	8.7	21.6	27.4	32.4	16.8	1.8
Dahlgren and Co.	EX06CL	1471	17.4	18.4	84	17,036	9.0	31.0	23.8	23.0	20.4	1.8
Triumph Seed	TRX9350C	1285	16.8	17.2	73	18,923	4.4	37.0	31.2	19.4	11.0	1.4
Red River Commodities	2217	1237	10.7	17.3	78	18,267	8.8	16.6	31.8	31.8	18.8	1.0
Triumph Seed	777C	981	14.2	17.3	83	17,237	17.0	17.8	36.2	28.2	15.8	2.0
Seeds 2000	Jaguar XL-CL	*	20.9	16.2	83	18,276	10.5	5.8	18.8	22.0	47.0	6.4
<b>Average</b>		<b>1836</b>	<b>14.5</b>	<b>17.4</b>	<b>77</b>	<b>17,958</b>	<b>10.0</b>	<b>21.1</b>	<b>29.5</b>	<b>28.2</b>	<b>18.9</b>	<b>2.2</b>

<sup>b,c</sup>LSD<sub>0.30</sub>

230

LSD<sub>0.05</sub>

452

<sup>a</sup>Yields corrected to 10% moisture

<sup>b</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety but some collaborators find LSD<sub>0.05</sub> useful

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

\*We were not able to obtain a reliable yield estimate for Jaguar XL-CL

Experimental Design: randomized complete block design with three replications

Plot size: 5' x 31'

### Site Information

Collaborator: Schulte Brothers

Planting Date: 6/8/2011

Seeding Rate: Overplanted and thinned to a target of 18,000 plants/acre

Harvest Date: 10/6/2011

## 2011 Irrigated Oil Sunflower Variety Performance Trial at Stratton

Source	Hybrid <sup>a</sup>	Yield	Moisture	Test	Plant	Population	Lodging	Oil Content
				Weight	Height			
		lb/ac	percent	lb/bu	in	plants/ac	percent	percent
Syngenta	3845 HO	2907	6.0	29.0	64	17,944	16.0	44.7
Triumph Seed	TRXs11431CL	2905	8.3	28.6	56	18,477	9.7	43.8
Syngenta	3875	2863	6.3	29.6	64	16,768	13.4	41.6
Mycogen Seeds	8N510	2805	6.5	28.9	62	18,829	15.9	42.2
Mycogen Seeds	8N453DM	2730	6.9	30.4	68	19,197	19.8	45.8
Triumph Seed	s678	2673	8.2	31.2	62	19,672	8.1	44.7
Triumph Seed	TRX8341	2630	10.3	29.1	62	15,269	10.9	44.3
Mycogen Seeds	8H449CLDM	2592	7.0	31.2	65	19,672	11.6	45.7
Triumph Seed	s673	2579	8.3	28.8	62	20,047	12.7	44.8
Triumph Seed	s668	2535	9.8	30.2	55	20,796	11.9	44.8
Croplan Genetics	559 CL DMR NS	2521	9.3	29.7	73	17,427	14.9	41.3
Triumph Seed	TRXs11432CL	2464	8.3	29.6	57	19,953	7.7	42.8
Triumph Seed	TRXs10424	2412	7.4	28.9	53	18,829	14.1	43.2
Seeds 2000	Torino-CL	2393	10.5	30.9	83	20,716	12.0	41.5
Syngenta	3733 NS/DM	2346	6.4	29.2	64	18,454	19.1	44.4
Seeds 2000	Camaro-CL, DMR	2339	7.7	31.0	66	21,021	8.9	41.5
Triumph Seed	660CL	2289	8.8	29.8	75	18,821	25.4	41.9
Triumph Seed	664	2265	8.8	29.9	71	17,492	13.1	44.8
Syngenta	4596 HO/DM	2210	8.0	31.1	73	17,049	25.6	43.5
Mycogen Seeds	8N421CLDM	2191	7.0	29.1	71	19,579	22.5	42.5
Seeds 2000	Durango-XPS	2172	7.8	29.5	65	19,866	14.3	40.7
Triumph Seed	859HCL	2165	8.4	29.6	71	19,064	20.6	42.6
Seeds 2000	X9452-CL	2156	7.1	30.0	61	21,265	10.5	42.0
Dahlgren & Co.	DO-2012CLDM	2137	7.0	30.1	67	20,347	12.6	43.0
Seeds 2000	Sierra	2128	10.8	26.5	73	21,035	19.8	41.4
Croplan Genetics	356A NS	2105	6.4	29.6	65	20,703	19.0	43.3
Syngenta	3845 HO Coated	2061	6.5	29.7	65	20,047	17.9	43.3
Syngenta	3733 NS Coated	2042	6.8	29.6	64	17,799	17.4	42.6
Croplan Genetics	442 E NS	1956	8.3	27.4	67	17,583	14.0	44.2
Syngenta	3995 NS/SU	1955	6.4	28.4	65	20,371	20.0	39.8
Seeds 2000	X9822-CL, DMR	1868	7.4	31.2	63	20,984	15.0	41.5
Syngenta	3158 NS/CL/DM	1790	7.0	29.2	68	18,829	21.4	43.5
Croplan Genetics	548 CL DMR NS	1769	6.9	29.6	61	18,361	17.9	39.9
Syngenta	3495 NS/CL/DM	1607	6.9	31.6	68	20,453	23.6	40.8
<b>Average</b>		<b>2311</b>	<b>7.7</b>	<b>29.7</b>	<b>66</b>	<b>19,198</b>	<b>15.8</b>	<b>42.9</b>

<sup>b,c</sup>LSD<sub>0.30</sub>

198

LSD<sub>0.05</sub>

381

<sup>a</sup>Yields corrected to 10% moisture

<sup>b</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety, but some collaborators find LSD<sub>0.05</sub> useful

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with three replications

Plot size: 5' x 31'

### Site Information

Collaborator: Galen Travis

Planting Date: 6/5/2011

Seeding Rate: Overplanted and thinned to a target of 19,000 plants/acre

Harvest Date: 10/13/2011

## 2011 Irrigated Confection Sunflower Variety Performance Trial at Stratton

Source	Hybrid <sup>a</sup>	Yield	Moisture	Test Weight	Plant Height	Population	Lodging	Seed Size				
								Above 24/64	23/64 to 22/64	21/64 to 20/64	19/64 to 16/64	16/64 and below
		lb/ac	percent	lb/bu	in	plants/ac	percent	percent				
Red River Commodities	2215 CL	2400	10.3	17.8	80	14,177	10.2	35.4	40.8	16.8	6.4	0.6
Mycogen Seeds	8C451	2200	9.3	18.8	84	14,240	12.7	11.4	43.4	30.2	12.8	2.2
Dahlgren & Co.	D-9579	2066	9.4	19.2	77	16,465	19.9	6.4	19.8	37.2	34.4	2.2
Dahlgren & Co.	EX06CL	2045	10.1	18.5	71	13,987	15.2	12.2	38.8	35.6	12.6	0.8
Red River Commodities	2217	1982	9.1	17.7	79	14,500	18.2	18.4	38.2	32.6	10.2	0.6
Dahlgren & Co.	D-9530	1941	10.1	18.9	76	14,577	13.0	13.0	28.4	35.8	21.2	1.6
Seeds 2000	X9674	1940	9.3	17.4	71	14,121	24.7	8.2	35.2	34.6	21.4	0.6
Triumph Seed	770CL	1894	9.2	18.0	74	14,443	16.1	26.8	34.4	29.2	8.2	1.4
Dahlgren & Co.	EX-819	1873	9.8	18.7	85	15,774	13.2	14.2	35.0	35.6	13.4	1.8
Dahlgren & Co.	EX-610	1853	9.0	18.7	77	14,975	13.9	10.6	28.8	39.8	19.2	1.6
Red River Commodities	EX 1512	1846	9.9	17.8	72	13,952	19.7	26.8	33.2	24.0	14.4	1.6
Red River Commodities	8015	1813	9.1	18.1	79	13,611	18.4	39.8	37.8	16.2	5.2	1.0
Seeds 2000	Jaguar II-CL	1752	9.2	18.3	75	15,041	14.8	7.4	28.8	38.0	23.4	2.4
Seeds 2000	Jaguar XL-CL	1730	11.8	17.4	76	13,893	12.2	34.0	36.6	20.8	8.2	0.4
Seeds 2000	Panther II	1728	10.3	18.4	71	15,632	12.6	15.2	25.8	32.6	24.4	2.0
Triumph Seed	777C	1629	9.2	18.3	74	16,113	19.8	20.2	38.8	30.2	9.8	1.0
Dahlgren & Co.	D-9530CL	1616	9.4	19.0	81	16,100	16.4	10.8	26.4	38.0	23.4	1.4
Red River Commodities	2215	1591	10.1	18.5	80	15,082	11.7	30.0	26.8	30.8	10.0	2.4
Seeds 2000	Jaguar-CL	1583	9.5	18.3	81	14,977	19.6	23.0	34.6	32.0	8.4	2.0
Mycogen Seeds	8C410CL	1437	11.1	18.1	83	14,693	13.5	24.2	30.8	30.6	13.2	1.2
Seeds 2000	Sundance	1408	9.7	18.7	82	15,419	13.6	14.6	34.6	32.0	17.2	1.6
<b>Average</b>		<b>1825</b>	<b>9.8</b>	<b>18.3</b>	<b>77</b>	<b>14,846</b>	<b>15.7</b>	<b>19.2</b>	<b>33.2</b>	<b>31.1</b>	<b>15.1</b>	<b>1.4</b>

<sup>b,c</sup>LSD<sub>0.30</sub>

LSD<sub>0.05</sub>

<sup>a</sup>Yields corrected to 10% moisture

<sup>b</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety but some collaborators find LSD<sub>0.05</sub> useful

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with three replications

Plot size: 5' x 31'

### Site Information

Collaborator: Galen Travis  
 Planting Date: 6/5/2011  
 Seeding Rate: Overplanted and thinned to a target of 15,000 plants/acre  
 Harvest Date: 10/12/2011

## 2011 Dryland Oil Sunflower Variety Performance Trial at Brandon

Source	Hybrid <sup>a</sup>	Yield lb/ac	Moisture percent	Test	Plant	Population plants/ac	Lodging percent	Oil Content percent
				Weight lb/bu	Height in			
Triumph Seed	TRX8341	2232	15.7	23.7	53	11,810	4.7	40.1
Mycogen Seeds	8N453DM	2072	10.7	26.5	56	14,412	8.1	43.1
Syngenta	3875	2067	9.3	25.7	56	14,033	8.2	40.4
Syngenta	3733 NS Coated	2035	8.9	26.4	53	13,656	7.9	40.1
Triumph Seed	s678	2013	14.0	25.8	54	15,808	2.5	43.0
Syngenta	3733 NS/DM	1929	9.0	26.7	55	14,414	7.8	41.2
Triumph Seed	TRXs11431CL	1900	14.4	24.0	48	15,457	3.6	42.1
Triumph Seed	s668	1900	13.3	25.7	49	16,065	4.0	42.8
Mycogen Seeds	8H449CLDM	1885	12.8	26.2	56	12,801	2.1	41.7
Mycogen Seeds	8N510	1884	9.0	25.8	56	14,428	9.4	40.7
Triumph Seed	845	1858	12.2	23.3	64	14,667	8.0	42.1
Syngenta	3845 HO	1831	9.5	26.0	56	12,634	6.7	41.1
Triumph Seed	s673	1776	14.2	25.2	43	14,348	2.8	40.3
Seeds 2000	Torino-CL	1774	11.3	26.4	65	15,758	5.6	40.0
Mycogen Seeds	8N421CLDM	1707	11.6	24.7	61	12,197	7.0	40.0
Seeds 2000	X9452-CL	1650	11.8	25.0	55	15,565	10.2	38.3
Triumph Seed	TRXs11432CL	1647	12.0	24.8	46	15,670	3.4	41.2
Syngenta	3995 NS/SU	1645	9.8	24.2	56	13,558	8.4	36.8
Seeds 2000	Sierra	1634	13.6	23.5	64	15,916	10.2	37.9
Triumph Seed	859HCL	1601	12.3	24.9	61	14,670	12.5	40.1
Syngenta	3495 NS/CL/DM	1580	9.5	27.0	57	14,552	13.9	38.4
Triumph Seed	TRXs10429H	1549	12.0	24.1	50	15,567	3.9	41.4
Syngenta	4596 HO/DM	1530	14.0	27.1	62	11,184	8.2	38.7
Syngenta	3845 HO Coated	1525	9.4	26.4	51	13,172	9.3	40.1
Triumph Seed	s870HCL	1512	13.6	24.5	40	14,552	3.4	40.2
Dahlgren & Co.	DO-2012CL	1438	10.5	25.9	61	13,156	8.7	39.4
Syngenta	3158 NS/CL/DM	1398	10.0	26.0	56	14,604	17.4	40.2
Seeds 2000	Durango-XPS	1379	10.5	25.8	54	15,145	12.7	39.3
Seeds 2000	X9822-CL, DMR	1222	12.1	24.2	56	13,000	5.8	38.5
<b>Average</b>		<b>1730</b>	<b>11.6</b>	<b>25.3</b>	<b>55</b>	<b>14,234</b>	<b>7.5</b>	<b>40.3</b>

<sup>b,c</sup>LSD<sub>0.30</sub>

LSD<sub>0.05</sub>

<sup>a</sup>Yields corrected to 10% moisture

<sup>b</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety, but some collaborators find LSD<sub>0.05</sub> useful

<sup>c</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with four replications

Plot size: 5' x 31'

### **Site Information**

Collaborator: Burl Scherler

Planting Date: 6/16/2011

Seeding Rate: Overplanted and thinned to a target of 14,000 plants/acre

Harvest Date: 10/11/2011

## 2011 Multi-Location Camelina Variety Trial Summary

Variety	Source	Yield					Average Across Locations
		Colorado Locations			Bozeman, Montana	Dusty, Washington	
		Fort Collins	Yellow Jacket	Rocky Ford			
				lb/ac			
SSD 177*	Univ. Giessen <sup>a</sup>	1026	202	420	1115	2071	967
SSD 10*	Univ. Giessen	1049	204	391	1170	1976	958
SO-60	Sustainable Oils	975	165	478	1025	2099	948
SO-40	Sustainable Oils	1109	217	396	1042	1892	931
SO-50	Sustainable Oils	988	163	334	942	2087	903
SSD 138*	Univ. Giessen	905	109	405	1125	1936	896
Ligena	Europe	1073	210	396	1040	1820	908
Celine	Europe	1049	188	365	986	1957	909
BSX G22	Blue Sun Biodiesel	1012	225	265	1085	1782	874
SSD 87*	Univ. Giessen	972	144	372	1037	1901	885
Lindo	Univ. Giessen	883	187	360	1158	1862	890
Licalla	Univ. Giessen	1064	120	292	1057	1883	883
C10.BZ.SB7.5	Sustainable Oils	964	207	330	1029	1835	873
SSD186*	Univ. Giessen	949	180	376	1012	1744	852
Suneson	MSU	937	205	365	867	1778	830
C10.BZ.SB7.7	Sustainable Oils	914	164	349	819	1945	838
BSX G24	Blue Sun Biodiesel	785	150	400	781	1787	780
Cheyenne	Blue Sun Biodiesel	807	182	339	1003	1817	830
Yellowstone	Great Plain Oil	790	233	297	906	1824	810
Blaine Creek	MSU	794	190	306	900	1794	797
<b>Average</b>		<b>952</b>	<b>182</b>	<b>362</b>	<b>1005</b>	<b>1889</b>	<b>878</b>
LSD <sub>0.30</sub>		120	27	60	72	137	45
Plant Date:		3/25/2011	4/20/2011	3/18/2011	5/12/2011	4/19/2011	
Harvest Date:		7/26/2011	8/16/2011	7/18/2011	8/23/2011	4/8/2011	

<sup>a</sup>University of Giessen (Germany)

\*Experimental Line

### **Collaborators:**

Fort Collins, CO: Agricultural Research, Development and Education Center (ARDEC)

Rocky Ford, CO: Dr. Michael Bartolo, Arkansas Valley Research Center

Yellow Jacket, CO: Dr. Abdel Berrada, Southwestern Colorado Research Center

Bozeman, MT: Dr. Fernando Guillen-Portal, Sustainable Oils-Bozeman, MT

Dusty, WA: Dr. Stephen O. Guy, Washington State University- Pullman, WA

## 2011 Dryland Proso Millet Variety Performance Trials at Akron

Dipak K Santra (University of Nebraska), Jim Hain, Jerry Johnson,  
and Sally Sauer (Colorado State University)

Variety	Yield <sup>a</sup>	Moisture	Test Weight	Plant Height
	lb/ac	percent	lb/bu	in
172-2-B	1605	9.8	58.0	29
Sunup	1522	10.8	56.3	31
182-4-24	1521	10.3	55.3	27
Sunrise	1495	10.3	56.5	32
Horizon	1489	10.5	55.3	30
Earlybird	1447	9.8	56.5	31
5014	1416	11.0	54.3	32
182-5-18	1389	10.0	57.8	32
5094	1343	10.5	54.3	31
Plateau	1333	9.8	58.3	30
Ames 12696	1329	10.8	56.3	31
177-9-13	1307	10.0	57.5	28
Huntsman	1291	11.0	55.0	32
177-3-13	1283	10.0	55.3	34
177-8	1278	10.5	55.3	31
5106 (waxy)	1273	9.8	55.8	29
5061 (waxy)	1260	9.8	55.3	31
5059 (waxy)	1239	9.0	60.8	32
5016	1225	10.8	54.8	30
5100	1188	10.3	53.8	29
5034 (waxy)	1160	10.3	55.3	33
5029	1141	10.0	55.8	32
5045 (waxy)	1134	9.5	56.0	32
5086	1115	9.8	57.0	31
174-7-13	1040	10.3	54.5	32
5104 (waxy)	1032	9.8	58.8	29
5095 (waxy)	1028	10.0	58.5	32
5087 (waxy)	1026	9.8	57.0	29
5002 (waxy)	959	9.8	56.5	33
5011 (waxy)	938	9.8	55.3	30
Dawn	687	10.5	56.0	28
<b>Average</b>	<b>1242</b>	<b>10.1</b>	<b>56.2</b>	<b>31</b>
<sup>b</sup> LSD <sub>0.05</sub>	246	0.7	4.4	5.3

<sup>a</sup>Yields corrected to 10% moisture

<sup>b</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with four replications

Plot size: 4.2' x 21'

### **Site Information**

Collaborator: Central Great Plains Research Station  
 Planting Date: 6/9/2011  
 Harvest Date: 9/13/2011  
 Previous Crop: Wheat  
 Herbicide: Roundup and Aim  
 Fertilizer: 40 lb/ac of N broadcast after planting  
 Soil Type: Weld Silt Loam

For results from Nebraska for previous years go to:  
<http://cropwatch.unl.edu/web/varietytest/othercrops>

## 2011 Dryland Grain Sorghum Hybrid Performance Trial at Akron

Source	Hybrid <sup>a</sup>	Yield	Moisture	Test Weight	Plant Height	Lodging <sup>b</sup>	50% Bloom	Maturity Group <sup>c</sup>
		bu/ac	percent	lb/bu	in	score (0-10)	days after planting	
Syngenta	H-307	63.1	11.9	56.6	42	1	77	E
Sorghum Partners	SP3303	54.6	11.4	56.6	37	1	74	E
Sorghum Partners	KS310	50.5	11.9	57.5	41	2	76	E
Triumph Seed	TR424	50.0	10.7	53.8	37	3	70	E
Dekalb	DKS29-28	49.0	10.3	52.5	37	3	70	E
Pioneer Hi-Bred	87P06	48.7	11.2	58.0	40	3	71	E
Syngenta	5745	47.7	12.3	56.7	40	1	78	ME
Dekalb	DKS28-05	43.6	10.9	53.1	38	5	70	E
Sorghum Partners	251	40.0	10.1	53.5	36	2	67	E
Triumph Seed	TRX00464	38.9	9.6	48.9	34	2	72	E
Pioneer Hi-Bred	88P68	37.3	11.3	57.1	40	7	71	E
Syngenta	5556	36.8	13.3	57.6	38	1	80	ML
<b>Average</b>		<b>46.7</b>	<b>11.2</b>	<b>55.1</b>	<b>38</b>	<b>3</b>	<b>73</b>	
<sup>d,e</sup> LSD <sub>0.30</sub>		5.3						
LSD <sub>0.05</sub>		10.3						

<sup>a</sup>Yields corrected to 14% moisture

<sup>b</sup>Lodging score of zero means no lodging, and ten means completely lodged

<sup>c</sup>Maturity Group: E=early; ME=medium early; ML=medium late

<sup>d</sup>LSD<sub>0.30</sub> is most useful for producers using these results to select a variety but some collaborators find LSD<sub>0.05</sub> useful

<sup>e</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

Experimental Design: randomized complete block design with four replications

Plot size: 5' x 31'

### **Site Information**

Collaborator: Central Great Plains Research Station

Planting Date: 6/7/2011

Harvest Date: 10/25/2011

Previous Crop: Wheat

Fertilizer: 40 lbs/ac of N

Herbicide: Lumax

Soil Type: Weld Silt Loam



**Summary of 3-Year Dryland Grain Sorghum Hybrid Performance Results at Akron (2009-2011)**  
 Grain Yield<sup>a</sup>

Source	Hybrid	2009			2010		2011		2-Yr	3-Yr
		bu/ac			Average		Average		Average	Average
Sorghum Partners	KS310	87.5	53.4	50.5	51.9	63.8				
Dekalb	DKS29-28	98.9	52.0	49.0	50.5	66.6				
Triumph Seed	TR424	-	50.0	50.0	50.0	-				
Sorghum Partners	SP3303	58.7	41.9	54.6	48.3	51.7				
Dekalb	DKS28-05	-	50.8	43.6	47.2	-				
Sorghum Partners	251	93.8	43.7	40.0	41.8	59.2				
Pioneer Hi-Bred	88P68	-	44.7	37.3	41.0	-				
<b>Average</b>		<b>84.7</b>	<b>48.1</b>	<b>46.4</b>	<b>47.3</b>	<b>60.3</b>				

<sup>a</sup>Yields were adjusted to 14% moisture content

Cooperator: Central Great Plains Research Center

## 2011 Dryland Grain Sorghum Hybrid Performance Trial at Brandon

Source	Hybrid	Test			Population	Plant Height	50% Bloom	GDD <sup>b</sup>	50% Mature	Maturity Group <sup>c</sup>
		Yield <sup>a</sup>	Weight	Lodging						
		bu/ac	lb/bu	percent	plants/ac	in	days after planting	days after planting <sup>d</sup>		
Dekalb	DKS28-05	37.1	56	7	17,800	36	74	1990	115	E
Sorghum Partners	KS310	32.4	59	1	18,000	37	77	2071	118	E
Triumph Seed	TR424	32.3	56	5	18,400	33	74	1990	116	E
Mycogen Seed	1G557	26.2	57	10	18,400	33	70	1883	112	E
Sorghum Partners	K35-Y5	24.8	55	0	14,500	35	78	2097	121	ME
Asgrow	Pulsar	21.7	59	4	14,700	34	77	2071	122	ME
Sorghum Partners	NK5418	20.8	55	1	19,900	33	89	2442	131	M
Sorghum Partners	NK4420	16.4	54	2	17,400	34	86	2358	129	ME
Dekalb	DK-28E	14.2	57	6	14,300	34	68	1836	110	E
Mycogen Seed	M3838	12.6	48	1	17,000	34	87	2385	HD	ME
Sorghum Partners	251	10.8	58	5	15,500	32	66	1784	107	E
Sorghum Partners	SP3303	9.7	57	3	14,700	35	74	1990	117	E
Triumph Seed	TRX03473	3.0	45	0	14,100	32	90	2472	HD	M
Syngenta	5556	1.7	-	0	14,100	33	96	2568	SD	ML
<b>Average</b>		<b>18.8</b>	<b>55</b>	<b>3</b>	<b>16,343</b>	<b>34</b>	<b>79</b>	<b>2138</b>	<b>118</b>	
<sup>e</sup> LSD <sub>0.20</sub>		10.8		3						

<sup>a</sup>Yields corrected to 14% moisture

<sup>b</sup>GDD: Growing Degree Days to 50% bloom date

<sup>c</sup>Maturity Group: E=early; ME=medium early; ML=medium late

<sup>d</sup>Days after planting or maturation of seed at first freeze; SD=soft dough and HD=hard dough stage

<sup>e</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

### **Site Information**

Collaborator: Burl Scherler  
 Planting Date: 6/2/2011  
 Harvest Date: 10/31/11 and 11/1/11

## Summary of 3-Year Dryland Grain Sorghum Hybrid Performance Results at Brandon (2009-2011)

Source	Hybrid	Grain Yield <sup>a</sup>				
		2009	2010	2011	2-Yr Average	3-Yr Average
				bu/ac		
Dekalb	DKS28-05	61	80	37	59	59
Sorghum Partners	KS310	62	79	32	56	58
Mycogen Seed	1G557	67	78	26	52	57
Triumph Seed	TR424	-	76	32	54	-
Asgrow	Pulsar	58	70	22	46	50
Sorghum Partners	K35-Y5	53	72	25	49	50
Sorghum Partners	NK5418	55	60	21	41	45
Sorghum Partners	251	60	55	11	33	42
Sorghum Partners	SP3303	47	60	10	35	39
Mycogen Seed	M3838	49	48	13	31	37
<b>Average</b>		<b>58</b>	<b>68</b>	<b>23</b>	<b>45</b>	<b>49</b>

<sup>a</sup>Yields were adjusted to 14% moisture content

Cooperator: Burl Schurler

## 2011 Dryland Grain Sorghum Hybrid Performance Trial at Walsh

Source	Hybrid	Yield <sup>a</sup> bu/ac	Test Weight lb/bu	Population plants/ac	Plant Height in	50% Bloom days after planting	GDD <sup>b</sup>	50% Mature days after planting <sup>d</sup>	Maturity Group <sup>c</sup>
Sorghum Partners	NK5418	62.5	60	26	34	81	2460	123	M
Sorghum Partners	NK4420	60.6	61	25	38	77	2324	122	ME
Dekalb	DKS44-20	56.1	61	28	38	76	2291	120	M
Triumph Seed	TR438	50.0	60	29	40	73	2196	110	ME
Mycogen Seed	1G557	49.1	60	28	36	67	2002	106	E
Dekalb	DKS37-07	48.1	56	24	37	82	2486	129	ME
Triumph Seed	TR424	48.0	61	26	34	67	2002	107	E
Sorghum Partners	K35-Y5	46.6	60	26	35	73	2196	113	ME
Triumph Seed	TRX00464	45.6	58	26	34	68	2038	108	E
Sorghum Partners	KS310	42.8	59	26	37	72	2166	110	E
Triumph Seed	TRX03473	36.5	55	29	37	83	2516	128	M
Syngenta	5556	34.4	55	29	37	83	2516	127	ML
Sorghum Partners	SP3303	33.6	59	24	36	71	2133	114	E
Sorghum Partners	251	32.4	58	28	33	62	1862	101	E
Mycogen Seed	M3838	31.0	57	22	38	81	2460	129	ME
Check	399 X 2737	15.0	54	20	34	90	2682	HD	ML
<b>Average</b>		<b>43.3</b>	<b>58</b>	<b>26</b>	<b>36</b>	<b>75</b>	<b>2271</b>	<b>116</b>	

<sup>e</sup>LSD<sub>0.20</sub>

9.1

<sup>a</sup>Yields corrected to 14% moisture

<sup>b</sup>GDD: Growing Degree Days to 50% bloom date

<sup>c</sup>Maturity Group: E=early; ME=medium early; M=Medium; ML=medium late

<sup>d</sup>Days after planting or maturation of seed at first freeze; HD=hard dough stage

<sup>e</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

### **Site Information**

Collaborator: Plainsman Research Center

Planting Date: 6/9/2011

Harvest Date: 11/4/2011

Irrigation: This trial was irrigated after planting for stand establishment using furrow irrigation.

## Summary of 3-Year Dryland Grain Sorghum Hybrid Performance Results at Walsh (2009-2011)

Source	Hybrid	Grain Yield <sup>a</sup>				
		2009	2010	2011	2-Yr Average	3-Yr Average
				bu/ac		
Dekalb	DKS37-07	65	91	48	70	68
Mycogen Seed	M3838	-	88	31	60	-
Sorghum Partners	KS310	72	79	43	61	65
Sorghum Partners	251	45	57	32	45	45
Sorghum Partners	NK5418	65	112	63	88	80
Sorghum Partners	K35-Y5	55	95	47	71	66
Sorghum Partners	SP3303	46	64	34	49	48
Triumph Seed	TR424	-	83	48	66	-
Triumph Seed	TR438	62	100	50	75	71
Check	399 X 2737	38	101	15	58	51
<b>Average</b>		<b>56</b>	<b>87</b>	<b>41</b>	<b>64</b>	<b>62</b>

<sup>a</sup>Yields were adjusted to 14% moisture content

The site was pre-irrigated with furrow irrigation in 2011

Cooperator: Plainsman Research Center

## 2011 Dryland Forage Sorghum Hybrid Performance Trial at Walsh

Source	Hybrid	Yield <sup>a</sup> tons/ac	Growth Stage at Harvest <sup>b</sup>	Stem Sugar percent	Lodging percent	Population plants/ac	Plant Height in	50% Bloom days after planting	Forage Type <sup>c</sup>
Sorghum Partners	SS304	12.77	BT	16	0	35,600	59	BT	FS
Sorghum Partners	NK300	12.73	PM	19	0	35,500	45	106	FS
Sorghum Partners	HIKANE II	12.25	HD	19	6	37,600	71	80	FS
Sorghum Partners	SS405	11.14	PM	17	20	39,300	96	113	FS
NC+ (check)	NB 305F	8.51	EM	21	6	15,000	72	102	FS
Mycogen Seed	2T806	7.71	SD	13	2	21,700	75	73	Corn
<b>Average</b>		<b>10.85</b>		<b>17</b>	<b>6</b>	<b>30,783</b>	<b>70</b>	<b>95</b>	

<sup>d</sup>LSD<sub>0.20</sub>

1.72

<sup>a</sup>Yields corrected to 70% moisture content based on oven-dried samples

<sup>b</sup>Harvest stage: BT=boot; FL=flowering; PM=pre-milk; EM=early milk; SD=soft dough; HD=hard dough

<sup>c</sup>Forage type: FS=forage sorghum

<sup>d</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

### **Site Information**

Collaborator: Plainsman Research Center

Planting Date: 6/9/2011

Harvest Date: 10/11/2011

Irrigation: This trial was irrigated after planting for stand establishment using furrow irrigation.

**Summary of 3-Year Dryland Forage Sorghum Hybrid Performance Results at Walsh  
(2008-2009, 2011)**

Source	Hybrid	Forage Yield <sup>a</sup>				
		2008	2009	2011	2-Yr Average	3-Yr Average
				tons/ac		
Sorghum Partners	NK 300	19.0	15.1	12.7	13.9	15.6
Sorghum Partners	HIKANE II	15.5	16.1	12.3	14.2	14.6
NC+ (check)	NB 305F	16.2	13.6	8.5	11.1	12.8
(Check)	Corn	15.9	11.1	7.7	9.4	11.6
<b>Average</b>		<b>16.7</b>	<b>14.0</b>	<b>10.3</b>	<b>12.1</b>	<b>13.6</b>

<sup>a</sup>Forage yields were adjusted to 70% moisture content based on oven-dried sample

The site was pre-irrigated with furrow irrigation in 2008 and 2011

There was no forage trial in 2010

## 2011 Irrigated Forage Sorghum Hybrid Performance Trial at Walsh

Source	Hybrid	Yield <sup>a</sup> tons/ac	Growth Stage at Harvest <sup>b</sup>	Stem Sugar percent	Lodging percent	Population plants/ac	Plant Height in	50% Bloom days after planting	Forage Type <sup>c</sup>
Sorghum Partners	SS405	22.27	EM	14	2	61,200	127	111	FS
Sorghum Partners	NK300	21.85	PM	15	0	56,400	74	104	FS
Eastern CO Seeds	HP1010 BMR	20.51	MM	17	2	47,800	90	97	FS
Eastern CO Seeds	HP120 BMR	19.92	FL	16	0	58,100	68	115	FS
Eastern CO Seeds	HP95 BMR	19.91	HD	13	1	57,100	94	86	FS
NC+ (check)	NB 305F	18.09	MM	18	0	25,700	103	102	FS
Sorghum Partners	HIKANE II	17.40	HD	18	30	50,600	105	81	FS
Mycogen Seed	2T806	16.65	SD	12	1	32,500	80	74	Corn
Sorghum Partners	SS304	16.57	FL	15	15	54,800	110	111	FS
Mississippi State Univ.	Topper 76-6	13.66	MM	21	6	29,700	86	100	SW
<b>Average</b>		<b>18.68</b>		<b>16</b>	<b>6</b>	<b>47,390</b>	<b>94</b>	<b>98</b>	
<sup>d</sup> LSD <sub>0.20</sub>		1.26							

<sup>a</sup>Yields corrected to 70% moisture content based on oven-dried samples

<sup>b</sup>Harvest stage: FL=flowering; PM=pre-milk; EM=early milk; MM=mid-milk; SD=soft dough; HD=hard dough

<sup>c</sup>Forage type: FS=forage sorghum; SW=sweet sorghum

<sup>d</sup>If the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant; if not, the difference is not significant.

### **Site Information**

Collaborator: Plainsman Research Center  
 Planting Date: 6/9/2011  
 Harvest Date: 10/11/2011 and 10/12/2011



**Summary of 3-Year Irrigated Forage Sorghum Hybrid Performance Results at Walsh  
(2008-2009, 2011)**

Source	Hybrid	Forage Yield <sup>a</sup>				
		2008	2009	2011	2-Yr Average	3-Yr Average
				tons/ac		
Sorghum Partners	NK 300	19.4	21.5	21.9	21.7	20.9
NC+ (check)	NB 305F	16.4	19.4	18.1	18.8	18.0
(Check)	Corn	18.4	18.5	16.7	17.6	17.9
<b>Average</b>		<b>18.1</b>	<b>19.8</b>	<b>18.9</b>	<b>19.4</b>	<b>18.9</b>

<sup>a</sup>Forage yields were adjusted to 70% moisture content based on oven-dried sample

There was no forage trial in 2010





