

2012 Oilseed Sunflower Hybrid Trial
Etter, Texas (Moore Co.)

Planted July 2, 2012; harvested November 14, 2012.

Company or Brand	Hybrid	Oil Type†	Days to Half Bloom	Plant Height (inches)	Avg. Plants/ acre	Lodg- ing %	Test Weight (lbs./bu)	Seed Yield ,@10% H2O (lbs./A)	% Oil Con- tent	Oil Yield (lbs./A)
Mycogen	8H449 CL DM	HO, CL	55	52	14,700	6	32.9	2,596	45.0	1,169
Mycogen	8N421 CL DM	NS, CL	55	62	13,800	3	29.9	2,396	40.8	978
Mycogen	8N510	NS	54	47	14,200	8	28.9	2,625	38.8	1,016
Mycogen	8N678S	NS, SS	57	48	13,600	2	31.8	2,853	41.1	1,170
Seeds 2000	Cobalt II	HO, CL	53	47	13,100	8	30.3	1,639	39.9	654
Seeds 2000	Daytona CL	HO, CL	55	48	13,400	5	29.7	2,118	38.5	813
Seeds 2000	Durango SU	NS, EX	59	42	14,800	6	31.6	2,129	39.6	843
Seeds 2000	Sierra	HO	58	53	13,000	14	27.7	2,746	38.2	1,048
Seeds 2000	Torino CL	NS, CL	56	51	12,600	12	33.6	2,034	40.6	824
Seeds 2000	X6814 CL, DMR	HO, CL	54	57	13,900	7	29.6	2,294	38.3	878
Seeds 2000	X6878 CL, DMR	NS, CL	56	65	14,100	8	31.6	2,062	41.4	856
Syngenta	3158 NS/CL/DM	NS, CL	54	49	10,600	10	28.2	2,250	37.8	849
Syngenta	3733 NS/DM	NS	55	44	12,700	6	29.7	2,522	41.2	1,040
Syngenta	3845HO	HO	53	51	12,700	2	30.0	2,467	41.1	1,013
Triumph	651CLD (TRX1262CLDM)	NS, CL	55	60	14,600	4	29.2	2,530	39.4	997
Triumph	660CL	NS, CL	56	52	12,100	13	31.2	2,446	41.6	1,017
Triumph	662 (TRX1261)	NS	55	48	13,300	2	28.2	2,364	36.7	869
Triumph	849CLD	HO, CL	55	49	13,600	3	32.3	2,468	43.5	1,071
Triumph	s668	NS, SS	56	37	13,900	3	31.0	2,293	42.7	978
Triumph	s673	NS, SS	57	42	13,900	3	29.7	2,137	41.8	892
Triumph	s870CL	HO, SS, CL	58	34	15,200	2	30.9	2,244	41.5	929
Triumph	TRX11345CPD	NS, CP	55	53	13,000	7	27.8	2,720	41.1	1,117
Triumph	TRX11431 HO	HO	58	41	14,200	4	30.0	2,468	40.7	1,006
Average			56	49	13,500	6	30.2	2,365	40.5	958

P-Value (Hybrid)	<0.0001	<0.0001	0.0013	0.0004	<0.0001	0.0020	<0.0001	0.0001
Fisher's Protected LSD (0.05)†‡	1	6	1,800	6	1.0	488	1.7	196
Coefficient of Variation, CV (%)	3.7	17.1	10.9	89	5.5	17.1	5.4	18.1

†Nu = NuSun mid-oleic, HO = high oleic, EX = Express herbicide tolerant, SS = short stature, CL = Clearfield herb. tolerant; CP, Clearfield Plus.

‡Typical market pricing in 2012 for Texas High Plains oilseed is \$27.00/cwt., with 2-for-1 pricing based on oilseed content at 40.0% oil.

¶Numbers in the same column that vary by more than the least significant difference (LSD) are significantly different at the 95% confidence level.

Trial Notes:

Drought severity at the test site was severe due to poor minimal rainfall and heat. Rainfall was 4.2" and furrow irrigation was 14".

Yields were good in spite of the drought.

An adjacent confectionary sunflower hybrid trial yielded 2,607 lbs./A with an average crop value of \$868/acre.

For further information about this test or the Texas A&M AgriLife Crop Testing Program, contact Mr. Dennis Pietsch, Crop Testing director, Texas A&M AgriLife Research, College Station, TX, (979) 845-8505, dpietsch@ag.tamu.edu

Please visit the Crop Testing webpage at <http://varietytesting.tamu.edu> for sunflower and other crop hybrid information.

For additional sunflower production resources for Texas contact Extension agronomist Dr. Calvin Trostle, Lubbock, Texas A&M AgriLife Extension Service, Lubbock, (806) 746-6101, ctrostle@ag.tamu.edu, or visit <http://lubbock.tamu.edu/sunflower>

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Crop Value† (\$/Acre)
772
658
690
786
441
553
570
714
555
598
573
580
698
680
675
681
597
712
652
597
623
750
677
645
0.0003
132
17.8