

## 2009 SUNFLOWER HYBRID PERFORMANCE TRIAL

## WILLISTON RESEARCH EXTENSION CENTER

Brand	Hybrid <sup>a</sup>	Oil Type <sup>b</sup>	Days to	Plant	Seed	Harvest	Test	Seed	-- Seed Yield --			Avg Yield	
			Flower	Height	Moist <sup>d</sup>	Pop.	Weight	Oil <sup>c</sup>	2007	2008	2009	2 yr	3 yr
			fr pltg	inches	%	plt/a	lbs/bu	%	--- lbs/a ---				
Mycogen Seeds	8N270CLDM	NS	70.0	45.7	11.8	18121	32.8	43.6	--	--	2113	--	--
Mycogen Seeds	8H288CLDM	HO	71.7	45.0	14.3	17664	31.8	43.2	--	--	2375	--	--
Mycogen Seeds	8N358CLDM	NS	75.7	44.9	11.2	18353	31.0	44.1	--	--	2275	--	--
Mycogen Seeds	8N433DM	NS	77.3	50.2	15.8	17540	30.0	44.4	--	--	2999	--	--
Mycogen Seeds	8D310	NS	71.0	55.9	14.3	18353	29.6	38.9	--	1081	2312	1697	--
Mycogen Seeds	8D481	NS	77.3	52.9	19.8	17656	32.0	39.8	--	--	2341	--	--
Seeds 2000	Defender Plus	NS	71.7	43.2	10.3	17424	31.3	40.5	548	1034	2226	1630	1269
Seeds 2000	X5619	NS	75.3	42.6	12.4	18121	28.3	40.1	--	--	2260	--	--
Croplan Gen	306 DMR NS	NS	70.0	47.5	11.6	17576	31.7	44.0	--	--	2670	--	--
Croplan Gen	3080 DMR NS	NS	70.3	44.4	8.4	19980	30.8	45.9	689	957	2674	1816	1440
Croplan Gen	3080 DMR NS	NS	73.0	42.6	13.9	17182	31.0	44.8	--	--	2813	--	--
Croplan Gen	369 DMR NS	NS	75.3	48.7	15.0	15245	30.1	42.3	--	--	2316	--	--
Croplan Gen	460 E NS	NS	79.3	51.8	24.6	14866	30.2	43.0	--	--	2421	--	--
Croplan Gen	555 CL DMR NS	NS	76.7	53.1	17.6	15969	29.4	40.0	--	--	1835	--	--
Dekalb	DKF29-30 NS/DM	NS	72.3	47.9	11.1	15990	30.5	43.4	494	1200	2561	1881	1418
Dekalb	IS7120 HO/DM	HO	72.3	44.1	15.5	16727	31.5	41.8	518	1286	2435	1860	1413
Dekalb	DKF34-80CL	NS	76.7	44.2	15.6	17192	30.6	42.2	628	1081	2398	1739	1369
Dekalb	MH9001CL	NS	79.3	51.4	20.8	16093	33.6	40.3	--	--	1921	--	--
Dekalb	MH9002CL	NS	78.3	50.5	18.9	18818	34.2	40.5	--	--	1826	--	--
Dekalb	DKF39-80CL	NS	76.7	51.7	18.1	18353	31.5	40.6	--	1081	2214	1648	--
Dekalb	DKF34-33 NS/DM	NS	77.7	46.2	11.8	16727	32.3	43.5	545	921	2268	1595	1245
Dekalb	DKF37-31 NS	NS	75.7	45.2	10.8	17656	33.0	42.9	522	1179	2142	1660	1281
Dekalb	DKF37-32	NS	75.7	43.3	12.2	17889	32.6	41.9	--	--	2234	--	--
Dekalb	DKF38-75	NS	78.3	44.0	18.7	18353	32.9	38.4	--	--	2172	--	--
Dekalb	DKF38-45	HO	76.0	43.0	14.5	18818	32.5	43.6	503	1175	2315	1745	1331
Triumph Seeds	S655	NS	79.3	28.3	20.3	18353	33.0	42.5	--	--	1459	--	--
Triumph Seeds	S671	NS	78.0	32.5	14.1	16727	33.3	44.5	--	--	2078	--	--
Triumph Seeds	TRX7435HO	HO	75.0	50.5	18.0	16233	30.7	42.3	--	--	1892	--	--
Proven Seed	Sunwheat	Trad	64.0	28.1	13.0	17062	29.9	35.0	--	--	1425	--	--
NDSU	Hybrid 894	Trad	74.3	50.9	10.7	17192	31.4	41.1	--	996	1879	1438	--
MEAN			74.8	45.7	14.8	17408	31.4	42.0	561	1077	2228	--	--
C.V. %			2.2	6.9	33.0	14	1.6	1.5	19	15	15	--	--
LSD 5%			2.7	5.1	8.0	NS	1.1	1.3	216	232	563	--	--

Planting Date: May 18, 2009

Date Harvested: October 19 Machine harvested.

a - CL = Clearfield. DM, DMR - Downy Mildew resistance.

b - NS designates the NuSun Hybrids. HO = High oleic. Trad=Traditional.

c - Seed oil content determined on an NMR machine and adjusted to 10% moisture.

NuSun and High Oleic oils also adjusted for oil type.

d - Seed moisture taken at harvest.

Comments: Heads from one of the middle rows (harvested row) were netted after seed set and no bird damage occurred.

Rep 4 was abandoned because of its proximity to a single row shelter belt which caused highly variable agronomic data within that replication, particularly for yield.