

2007 Irrigated Oil Sunflower Variety Performance Trial at Idalia¹.

Hybrid	Yield ² lb/ac	Moisture %	Test Weight lb/bu	Plant Height inches	Density plants/ac	Lodging %	Heads	
							Broken Off ³ %	Oil Content %
Monsanto MH6638	2709	5.0	32.5	74	21002	12.7	2.4	43.32
Garst XF06NS16	2357	5.1	22.7	69	20366	5.7	1.7	38.19
Pioneer M91	2334	4.6	27.8	73	20634	13.1	1.0	44.25
Fontanelle 902 NS	2310	4.6	30.5	65	19109	19.7	8.7	43.62
DEKALB DKF34-33	2275	4.5	32.8	70	19550	24.1	5.8	43.83
Monsanto MH6640	2207	4.8	32.4	75	21280	27.5	4.0	43.06
DEKALB DKF38-45	2194	4.6	33.3	71	20079	40.1	8.1	44.70
Monsanto MH6639	2164	4.7	31.5	72	20034	34.5	2.0	44.79
Triumph R657	2144	4.7	25.7	72	20754	16.8	4.0	45.77
Seeds 2000 Blazer-NS	2134	4.6	31.4	82	22415	11.6	24.5	44.55
Triumph 645	2106	4.6	29.7	74	21296	22.6	2.9	45.53
Mycogen 8N510	2105	4.8	25.3	69	20420	27.7	5.3	42.64
Triumph TRXs7425HOCL	2049	4.8	28.0	67	19193	20.3	7.7	42.98
Triumph TRX7442	2025	4.7	24.8	75	21026	23.5	2.3	39.74
Garst 4651NS	2021	5.0	26.3	70	20416	22.2	15.3	42.14
Fontanelle IS 4668	2011	5.0	23.4	79	21599	20.9	15.8	39.49
Triumph TRX7449	1942	4.7	28.1	75	20510	18.5	7.1	43.61
DEKALB DKF34-80CL	1915	4.8	28.4	71	19580	7.1	18.1	43.13
Mycogen 8H419CL	1801	4.9	23.1	76	21245	10.8	24.1	43.42
Advanta Pacific F41269DM3	1742	4.8	28.8	73	20581	19.5	13.5	39.65
Mycogen 8N337DM	1731	4.7	28.5	64	18707	23.9	7.2	45.59
Mycogen 8N358CL	1699	4.7	27.2	74	20466	41.8	7.2	43.53
Triumph TRXs7426HO	1695	4.7	25.0	71	19930	41.9	0.4	43.14
Garst 4596HO	1680	4.8	31.7	64	18168	10.2	26.9	42.82
Advanta Pacific F51311NSDM	1679	5.0	30.9	62	17295	26.1	16.9	40.98
Mycogen 8N386CL	1665	4.9	24.0	75	20536	8.7	11.4	41.21
Triumph s678	1662	4.7	30.3	76	21036	37.2	1.8	43.81
Monsanto MH6641	1655	5.0	31.2	77	21571	22.1	33.3	37.95
Triumph TRX7434HOCL	1639	4.9	26.1	76	20890	25.1	13.1	41.85
Triumph 845HO	1626	4.6	26.6	77	21326	28.1	2.2	43.98
Advanta Pacific AP561NS	1617	5.0	22.5	79	22446	41.3	5.4	40.24
Dyna-Gro 94C38	1610	5.0	20.0	85	23416	19.5	22.8	38.70
Garst 4420NS	1564	4.8	27.1	79	21599	14.0	11.7	41.22
Dyna-Gro 94N82	1546	4.8	30.7	82	22234	24.3	16.7	41.22
Mycogen 8N453DM	1533	4.9	31.6	74	20813	50.0	5.4	44.10
Garst 4704NS	1533	5.0	25.7	84	22778	2.0	0.4	37.83
Garst 4668NS/CL	1509	5.1	14.4	82	22491	26.9	16.4	38.56
Dyna-Gro FX07519DM	1485	4.8	32.7	77	21296	60.1	2.3	43.47
Triumph R859HOCL	1473	4.7	29.2	74	20467	19.1	7.6	42.21
DEKALB DKF37-31	1424	4.6	31.4	60	17078	48.4	3.1	44.21
Fontanelle IS 5880	1395	5.0	21.5	70	19175	11.0	21.0	40.04
Dyna-Gro FX07419	1368	5.0	30.1	83	22461	58.9	0.0	42.12

Advanta Pacific F51132NS/CL/CM	1295	4.8	29.0	78	21782	5.6	53.7	40.79
Triumph R664	1240	4.7	27.6	73	19784	42.7	4.6	45.95
Advanta Pacific AP534NS/CL	1219	4.8	23.0	82	22325	28.0	17.2	38.30
Triumph TRXs7424	1209	4.6	32.1	68	18769	41.6	2.9	43.16
Triumph s672	1116	4.7	27.4	71	19421	61.0	0.5	43.64
Triumph TRXs5423	1094	4.8	28.9	69	18785	58.0	1.0	43.98
Average	1761	4.8	27.8	74	20573	26.4	10.2	42.35
⁴ LSD _(0.30)	360							
⁴ LSD _(0.05)	686							

¹Trial conducted on the Dennis Towns farm; seeded 6/8 and harvested 10/20.

²Yields corrected to 10% seed moisture.

³Severe winds prior to harvest broke some sunflower heads off from the stalks and into neighboring plots. Broken heads could not be harvested so yields and LSD values (of questionable meaning) are based only on harvested heads within the plot.

⁴LSD_(0.30) is more useful for producers using these results to select a variety but some seed company collaborators wish to use LSD_(0.05).

Site Information

Plot Size: 5' x 32' with 30" row spacing

Experimental Design: randomized complete block, 3 replications

Seeding Rate: approximately 25,000 seeds/acre

Previous Crop: corn

Irrigation: sprinkler

Soil Type: Kuma silt loam

Fertilization: 56 lbs N acre⁻¹; 19 lbs P₂O₅ acre⁻¹

Herbicide: Sonalan

2-Yr Average Irrigated Oil Sunflower Variety Performance Trial at Idalia in 2006-07.

Hybrid	Yield	Moisture	Test
			Weight
	lb/ac	%	lb/bu
Mycogen 8N510	2339	6.1	29.5
Seeds 2000 Blazer-NS	2270	5.5	30.2
Fontanelle 902 NS	2235	6.0	30.0
Triumph 845HO	2139	6.0	27.6
Triumph s678	2125	6.5	26.3
Mycogen 8N453 DM	2083	6.7	31.5
Fontanelle IS 5880	2046	5.7	28.4
Mycogen 8N386 CL	2029	6.7	27.0
Mycogen 8H419 CL	2023	6.0	28.1
Triumph TRXs5423	1852	5.6	25.2
Average	2101	6.1	28.2