

2004 Oil Type Sunflower Variety Trial - Continuously Cropped - No-till

Hettinger

Brand	Hybrid	Type	Days to Mature	Lodg	Plant Height	Test Weight	Oil Content	Seed Yield		Avg. Yield
								2003	2004	
		*		%	inches	Lbs/bu	%	- Pounds per Acre -		
Croplan	345	N	132	5	30	30.4	46.0	1161		
Genetics	3080DMR	N	132	12	29	30.2	47.8	1494		
	340	H	135	10	33	30.3	44.2	1178		
Dekalb	DKF 33-33NS	N	127	8	36	31.6	36.6	1995	1575	1785
	EXP35-10NS	N	134	4	38	31.1	39.8	1377		
	MH4433	N	134	29	38	32.6	48.5	1254		
	MH4231	N	134	2	36	29.2	46.1	1884		
	DKF 30-33NS	N	132	5	31	30.8	38.1	2492	1470	1981
	DKF 38-80CL	C, CL	130	1	31	28.0	35.7	2418	1394	1906
	DKF 38-30NS	N	137	7	38	30.8	46.7	2707	2217	2462
	MH4233	N	136	0	33	29.4	48.5	1639		
	MH4431	N	135	5	36	30.6	45.4	1762		
Dyna-Gro	DG94T90	C	132	14	35	31.3	47.6	1284		
	EXP DG93N05	N	136	3	28	28.9	39.4	1464		
	EXP DG91N05	N	125	13	28	29.1	37.5	758		
	EXP DG93C05	N, CL	136	8	36	29.0	43.2	1628		
Interstate	F00125NS	N	134	12	34	31.4	40.6	1412		
	IS 4540NS	N	134	6	29	32.8	44.7	1534		
	F10003NS	N	134	5	33	29.6	40.2	1698		
	Hysun 521	N	133	7	35	31.3	40.1	1511		
	IS 4704NS	N	134	17	35	30.6	39.0	1587		
	Hysun 525	N	129	7	37	29.1	40.7	2347	1879	2113
	Hysun 425	N	132	20	34	31.2	44.7	1021		
	F100016NS	N	135	4	33	31.4	38.8	1505		
	IS 4575NS/CL	N, CL	136	2	36	29.6	43.6	1272		
	IS 4880NS/CL	N, CL	136	12	39	30.0	41.4	1523		
	IS 6039	C	130	15	38	31.4	43.7	1991	1400	1696
	IS 4539	C	132	10	37	30.4	44.8	1383		
	IS 4049	C	132	6	35	30.6	47.1	2632	1634	2133
	F10046HO	H	135	6	29	32.8	48.0	1155		
	HyOleic 120	H	134	10	41	31.0	42.1	2664	1453	2058
Kaystar	8330NS	N	134	2	32	28.3	39.3	1330		
	8300	C	128	24	32	29.3	43.3	2168	939	1554
Legend	LSF 117N	N	134	4	33	30.7	40.8	2128	1272	1700
	LSF 121N	N	134	15	35	29.3	37.9	1400		
	LSF 126N	N	130	14	32	30.1	43.1	2470	1313	1892

continued

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Brand	Hybrid	Type	Days to Mature	Lodg	Plant Height	Test Weight	Oil Content	Seed Yield		Avg. Yield
								2003	2004	
		*		%	inches	Lbs/bu	%	- Pounds per Acre -		
Mycogen	8D310	N	132	3	32	28.9	37.4	1505		
	8N352	N	134	9	33	32.1	52.9	1680		
	8N327	N	132	17	32	31.7	48.1	2357	974	1666
	8377NS	N	132	6	34	31.1	47.2	1307		
Pioneer	63M02	N	126	23	35	34.0	45.0	1050		
	63M80	N	132	4	33	30.5	47.5	1178		
	63M91	N	133	7	40	30.8	46.3	1704		
	EXP0401	N	130	22	31	29.8	45.2	1237		
Proseed	9405	N	137	1	33	28.7	44.0	2546	1581	2064
	9444	N	129	11	39	29.4	45.5	928		
	T-1	N	138	3	34	26.0	45.2	1622		
	T-2	N	138	9	38	26.5	46.8	1400		
	T-3	N	128	1	41	28.4	44.9	1400		
REA	2220SR	N	130	5	38	29.1	45.3	1593		
Seeds 2000	Colonel	N	132	6	35	26.2	38.9	2439	1634	2036
	Blazer	N	132	10	32	30.0	45.6	2429	1237	1833
	Charger	N, CL	135	14	42	30.8	41.0	2256	1412	1834
	Viper	N, CL	135	9	38	30.6	43.7	1441		
	X978	N, CL	134	10	37	30.3	48.1	1599		
Triumph Seed	S675	NS	139	2	22	27.6	44.0	1289		
E. Mat. Check	Hysun 311		125							
M. Mat. Check	SF270		128							
L. Mat. Check	P6451		136							
Check	USDA 894	C	132	9	37	30.0	42.4	2471	1219	1845
Trial Mean			133	9	34	30.1	43.5	2274	1404	--
C.V. %			1.4	122	13.6	4.6	5.9	10.7	20.3	--
LSD 5%			3	NS	7	1.9	3.6	341	397	--
LSD 1%			3	NS	9	2.6	4.7	450	525	--

* Type: N = NuSun, C = conventional, H = high oleic, CL = Clearfield

Planting Date: May 18, 2004

Harvest Date: October 12, 2004

Seeding Rate: 21,000 seeds / acre, thinned to 18,650 plants / acre.

Row Spacing: 28"

Previous Crop: HRSW

Notes: The 2004 trial sustained cool and relatively dry growing conditions.

NS = no statistical difference between varieties.

Oil content is based on 10% moisture and is adjusted for NuSun types.