

Sunflower Irrigated Hybrid Trial--High Oleic, NuSun, Confectionary, 2005

Texas A&M Research & Extension Center, Lubbock, TX

Conducted by Calvin Trostle, Texas A&M--Lubbock, 806.746.6101, ctrostle@ag.tamu.edu

Planted 30 June 2005, Harvested 14 Oct 2 Four replications per hybrid, harvest area 2-40" rows X 25'



Brand	Hybrid	Market & Oil Type*	Average plants/A	Days to 1/2 bloom	Test Wt. (lbs./bu)	% Oil Content @ 10% H2O	Oil Yield per acre (lbs.)	Yield @ 10% H2O (lbs./A)	Crop Value† per Acre \$
Croplan	340HO	HO	15,300	52	26.4	38.0	619	1,630	\$199
Croplan	343DMR HO	HO	13,800	49	30.7	36.5	634	1,736	\$206
Croplan	378HO	HO	16,300	54	28.8	41.1	668	1,626	\$212
Pioneer	64H41	HO	19,500	49	34.1	38.3	670	1,748	\$215
Seeds2000	Defender HO	HO	19,100	50	29.7	37.7	662	1,757	\$214
Seeds2001	Sierra	HO	17,800	56	26.3	37.4	667	1,784	\$216
Triumph	820HO	HO	15,000	50	31.9	42.9	748	1,743	\$235
InterState	HyOleic 120	HO	17,400	52	29.9	41.1	667	1,622	\$211
Pioneer	63M80	Nu	17,700	51	29.4	40.3	669	1,661	\$188
Pioneer	63M91	Nu	16,300	53	31.0	41.0	754	1,840	\$211
Triumph	s672	Nu, SS	14,800	53	30.0	42.9	747	1,742	\$207
Triumph	645	Nu	16,800	53	27.4	43.7	835	1,910	\$231
Triumph	TRX 4223HO	HO	18,600	50	28.5	43.9	734	1,672	\$230
Triumph	847HO	HO	16,500	53	26.8	40.4	751	1,858	\$239
Triumph	636	Nu	12,700	52	26.6	40.8	711	1,742	\$199
Triumph	658	Nu	13,200	53	26.8	41.2	724	1,757	\$202
Triumph	665	Nu	17,000	53	30.0	42.1	838	1,989	\$233
Triumph	665 4X Cruiser	Nu	15,800	54	29.7	41.3	778	1,883	\$217
Mycogen	8H288DM	HO	17,900	52	31.1	43.3	727	1,678	\$228
Mycogen	8H350DM	HO	14,700	48	29.5	41.3	636	1,539	\$201
Mycogen	8H419CL	HO	17,600	52	27.7	38.2	589	1,543	\$190

Seed >20/64"

Triumph	757C	Conf.	13,600	50	21.5	85%	N/A	1,399	\$277
Red River	7015	Conf.	14,200	49	22.5	66%	N/A	1,296	\$237
Red River	2215	Conf.	14,700	49	23.8	65%	N/A	1,435	\$261
Grand Average			16,300	52	28.3	40.6	706	1,691	\$219
Average (High Oleic)			16,900	51	29.3	40.0	675	1,687	\$215
Average (Mid Oleic)			15,500	53	28.7	41.7	754	1,806	\$210
Average (Confectionary)			14,200	49	22.6	N/A	N/A	1,377	\$258
P-Value, Test Criteria			0.0031		<0.0001	<0.0001		0.0256	
Fisher's Protected Least Signif. Diff. (0.10)‡			2,900		1.7	1.8		243	
Coefficient of Variation (%)			16.3		10.1	6.2		13.5	

*Nu = NuSun oil, HO = High oleic oil, SS = short stature; Conf. = Confectionary

†Oilseed--2:1 premium/discount vs. 40% oil--mid-oleic @ \$11.25/cwt, high oleic @ \$12.75/cwt; confectionary--\$21/cwt large seed, \$13/cwt small.

‡Numbers in the same column that vary by more than the least significant difference are significantly different at a 90% confidence level.