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

Willie Wieck Farm, Sherman Co., Texas, 2005

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

Planted 24 June 2005, Harvested 17 Oct 2005

Harvested 17 October 2005 Four replications per hybrid, harvested area 2-30" rows X 25'



					Days	Test	%Oil	Oil Yield	Yield @	Crop Value†
			Average	Height	to 1/2	Wt.	Content @	per acre	10% H2O	per Acre
Brand	Hybrid	Oil Type	plants/A	(feet)	bloom	(lbs./bu)	10% H2O	(lbs.)	(lbs./A)	\$
Croplan	340HO	НО	21,800	5.8	58	27.6	35.6	549	1,543	\$179
Croplan	343DMR HO	НО	16,700	5.3	58	29.4	35.0	722	2,067	\$237
Croplan	378HO	НО	20,500	6.2	60	28.3	38.9	650	1,671	\$208
Pioneer	64H41	НО	24,100	6.2	55	33.9	38.6	713	1,847	\$229
Seeds 2000	Defender HO	НО	25,000	5.8	56	27.5	35.4	673	1,903	\$220
Seeds 2000	Sierra	НО	21,100	6.6	61	25.6	34.9	520	1,487	\$170
Triumph	820HO	НО	27,100	5.9	56	30.3	40.2	506	1,259	\$161
InterState	HyOleic 120	НО	21,500	5.8	57	29.4	40.6	554	1,365	\$176
Pioneer	63M80	Nu	23,700	5.6	56	27.8	36.6	533	1,457	\$170
Pioneer	63M91	Nu	27,800	6.4	57	33.7	41.5	1114	2,682	\$346
Triumph	s672	Nu, SS	18,200	3.8	57	32.4	41.8	551	1,317	\$171
Triumph	645	Nu	20,800	6.1	57	26.2	42.9	758	1,767	\$234

Grand Average	22,400	5.8	57	29.3	38.5	654	1,697	\$208
Average (High Oleic)	22,200			29.0	37.4	611	1,643	\$198
Average (Mid Oleic)	22,600			30.0	40.7	739	1,806	\$230
P-Value, Test Criteria	0.0204			< 0.0001	<0.0001		< 0.0001	
Fisher's Protested Least Signif. Diff. (0.10)‡	5,000			0.9	1.0		250	
Coefficient of Variation (%)	22.6			9.5	7.6		25.9	

†Oilseed--2:1 premium/discount vs. 40% oil--mid-oleic @ \$11.25/cwt, high oleic @ \$12.50/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. Trostle commentary: A large range of yields were measured among both high oleic and NuSun hybrids. Oil contents are significantly lower for high oleic in this first-year Texas Panhandle sunflower trial. Triumph s672 was partially shaded due to short stature. High variability is reported in the CV for yield, and producers are advised to place minimal emphasis on yield data with %CV > 15%.