



2018 Irrigated Oil Sunflower Hybrid
Variety Performance Trial at Prospect Valley

Brand	Hybrid	Oil Type ^a	Technology Traits ^b	Yield ^c lb/ac	2-Year	Moisture percent	Test	Plant	Population plants/ac	Oil
					Avg. Yield lb/ac		Weight lb/bu	Height in		Content ^c percent
Croplan	549 CL	NS	Clearfield, DM	2928	2936	10.8	32.1	60	17,134	39.9
Nuseed	NHKP53383	HO	Clearfield Plus, DM	2747	-	12.0	30.1	36	17,134	39.2
Croplan	545 CL	NS	Clearfield, DM	2667	3013	11.8	31.4	46	13,358	39.4
Dyna-Gro	XH81N48EX	NS	ExpressSun	2571	-	10.6	32.4	44	19,747	40.0
Dyna-Gro	XH82N62EX	NS	ExpressSun	2568	-	11.1	32.0	47	18,295	39.8
Nuseed	Hornet	HO	Clearfield, DM	2470	2715	11.0	31.2	48	17,424	40.9
Dyna-Gro	DG H49NS14 CL	NS	Clearfield, DM	2358	-	11.2	31.2	48	13,068	40.5
Dyna-Gro	XH82H65EX	HO	ExpressSun	2287	-	11.1	31.5	54	19,166	39.9
Croplan	455 E HO	HO	ExpressSun, DM	2273	2340	11.0	31.3	52	17,424	39.4
Croplan	568 CL HO	HO	Clearfield, DM	2210	2807	11.3	30.5	43	15,972	42.8
Dyna-Gro	DG H48HO15 CL	HO	Clearfield, DM	2146	-	11.1	31.2	50	13,358	42.1
Dyna-Gro	DG H49HO19 CL	HO	Clearfield, DM	2123	-	10.9	31.0	44	14,520	41.2
Allegiant	70H51CL	HO	Clearfield, DM	2109	-	11.4	31.4	51	17,714	43.5
Dyna-Gro	XH81H53EX	HO	ExpressSun	2081	-	10.8	30.3	49	16,262	41.8
Dyna-Gro	XH81H52CP	HO	Clearfield Plus	2077	-	11.7	32.0	49	16,843	42.7
Nuseed	N4HP470	HO	Clearfield Plus, DM	2071	-	11.5	32.6	48	14,810	42.3
Dyna-Gro	XH82H63EX	HO	ExpressSun	2033	-	11.4	32.0	50	14,810	38.9
Croplan	3845 HO	HO	N/A	2017	2362	10.8	32.0	48	14,810	43.0
Nuseed	N4HM521	HO	Clearfield, DM	1942	2525	10.8	30.4	44	15,682	42.9
Nuseed	NHKM34006	HO	Clearfield, DM	1895	-	10.7	31.5	44	18,295	40.9
Croplan	432 E	NS	ExpressSun, DM	1842	2357	10.6	31.0	55	19,166	37.6
Dyna-Gro	XH82N64EX	NS	ExpressSun	1772	-	10.5	31.7	54	19,457	-
Croplan	3732	NS	N/A	1732	2378	11.4	31.3	47	13,649	41.9
Nuseed	N4HE302	HO	ExpressSun	1719	-	10.8	30.1	47	17,424	39.4
Nuseed	N4HM354	NS	Clearfield, DM	1700	2338	11.1	31.9	46	18,295	42.0
Dyna-Gro	XH81H50CL	HO	Clearfield	1676	-	11.1	31.2	48	18,876	40.4
Allegiant	65H81CL	HO	Clearfield, DM	1626	-	10.7	31.4	40	19,747	41.7
Dyna-Gro	DG H45NS16 CL	NS	Clearfield, DM	1617	-	11.1	31.7	42	16,843	40.5
Croplan	557 CL HO	HO	Clearfield, DM	1604	-	12.1	30.9	45	14,053	39.7
Dyna-Gro	DG H44HO12 CL	HO	Clearfield, DM	1529	-	10.9	31.1	54	19,747	41.9
Dyna-Gro	XH81N46EX	NS	ExpressSun	1485	-	11.4	30.0	52	18,586	39.6
Dyna-Gro	XH81H51EX	HO	ExpressSun	514	-	8.4	30.9	32	17,134	39.2
Average				2012	2577	11.0	31.3	47	16,838	40.9

^dLSD (P<0.30)

229

^dLSD (P<0.05)

436

Coefficient of Variation (%)

15.8

^aOil type designations: HO=High oleic; NS=NuSun/Mid-oleic.

^bTechnology trait designations: Clearfield and Clearfield Plus=tolerant to Beyond herbicide; DM=downy mildew resistance; ExpressSun=tolerant to Express herbicide; N/A=no technology traits.

^cYield and oil content were corrected to 10% moisture at harvest.

^dIf the difference between two hybrid yields equals or exceeds the LSD value, there is a 70% chance (P<0.30) or 95% chance (P<0.05) the difference is significant.

Site Information

Collaborator: Leon Zimbelman

Planting Date: June 2, 2018

Harvest Date: November 3, 2018

Fertilizer: N at 120 lb/ac

Herbicide: Sonolan at 3 pt/ac

Insecticide: Warrior at 1.9 oz/ac and Lorsban at 0.67 pt/ac

Irrigation: Furrow irrigation

Soil Type: Colby loam

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