

**2018 Limited-Irrigation Oil Sunflower
 Hybrid Variety Performance Trial at Burlington**

Brand	Hybrid	Oil Type ^a	Technology Traits ^b	Yield ^c lb/ac	2-Year		Test Weight lb/bu	Plant Height in	Population plants/ac
					Avg. Yield lb/ac	Moisture percent			
Croplan	568 CL HO	HO	Clearfield, DM	3507	3455	11.0	28.7	59	18,586
Nuseed	N4HM521	HO	Clearfield, DM	3466	3288	11.1	27.1	52	21,158
Dyna-Gro	DG H48HO15 CL	HO	Clearfield, DM	3396	-	10.9	27.8	52	18,295
Croplan	545 CL	NS	Clearfield, DM	3325	3342	11.6	29.5	48	18,606
Dyna-Gro	DG H49HO19 CL	HO	Clearfield, DM	3298	-	11.5	29.1	51	20,618
Allegiant	70H51CL	HO	Clearfield, DM	3264	-	10.7	27.9	55	20,909
Dyna-Gro	DG H49NS14 CL	NS	Clearfield, DM	3221	-	11.3	30.3	49	17,747
Croplan	549 CL	NS	Clearfield, DM	3021	2983	10.8	29.8	64	19,332
Nuseed	Hornet	HO	Clearfield, DM	2939	2949	10.7	29.5	58	17,811
Croplan	3845 HO	HO	N/A	2887	2797	10.3	28.3	59	18,107
Nuseed	NHKP53383	HO	Clearfield Plus, DM	2851	-	11.2	28.5	53	22,236
Dyna-Gro	XH81H50CL	HO	Clearfield	2791	-	11.3	29.1	58	19,747
Dyna-Gro	XH81N48EX	NS	ExpressSun	2738	-	10.6	30.7	53	21,914
Nuseed	NHKM34006	HO	Clearfield, DM	2667	-	11.0	28.1	58	22,825
Croplan	455 E HO	HO	ExpressSun, DM	2650	2528	11.0	29.5	50	20,909
Croplan	557 CL HO	HO	Clearfield, DM	2645	-	11.6	29.3	59	15,939
Dyna-Gro	DG H44HO12 CL	HO	Clearfield, DM	2578	-	10.5	28.9	45	20,764
Croplan	432 E	NS	ExpressSun, DM	2571	2721	10.5	29.9	58	22,942
Allegiant	65H81CL	HO	Clearfield, DM	2485	-	10.3	29.0	54	21,215
Dyna-Gro	DG H45NS16 CL	NS	Clearfield, DM	2391	-	10.6	29.8	52	22,942
Nuseed	N4HP470	HO	Clearfield Plus, DM	2345	-	10.8	30.4	58	19,554
Nuseed	N4HM354	NS	Clearfield, DM	2110	2544	10.5	30.1	52	20,457
Croplan	3732	NS	N/A	2088	2557	10.8	29.1	54	17,489
Nuseed	N4HE302	HO	ExpressSun	2045	-	10.9	27.5	55	19,747
Dyna-Gro	XH81N46EX	NS	ExpressSun	1590	-	11.2	28.1	55	21,909
Dyna-Gro	XH81H51EX	HO	ExpressSun	733	-	10.8	25.7	37	20,005
Average				2677	2916	10.9	28.9	54	20,068
^d LSD (P<0.30)				258					
^d LSD (P<0.05)				493					
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: Gerhard Heintges
 Planting Date: June 5, 2018
 Harvest Date: November 1, 2018
 Irrigation: Center-pivot
 Soil Type: Colby loam

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