



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		Oil Content percent
					Avg. Yield lb/ac	Moisture percent		Height in	Population plants/ac	
Croplan	568 CL HO	HO	Clearfield, DM	3507	3455	11.0	28.7	59	18,586	42.1
Nuseed	N4HM521	HO	Clearfield, DM	3466	3288	11.1	27.1	52	21,158	40.8
Dyna-Gro	DG H48HO15 CL	HO	Clearfield, DM	3396	-	10.9	27.8	52	18,295	41.6
Croplan	545 CL	NS	Clearfield, DM	3325	3342	11.6	29.5	48	18,606	41.1
Dyna-Gro	DG H49HO19 CL	HO	Clearfield, DM	3298	-	11.5	29.1	51	20,618	40.9
Allegiant	70H51CL	HO	Clearfield, DM	3264	-	10.7	27.9	55	20,909	42.3
Dyna-Gro	DG H49NS14 CL	NS	Clearfield, DM	3221	-	11.3	30.3	49	17,747	41.0
Croplan	549 CL	NS	Clearfield, DM	3021	2983	10.8	29.8	64	19,332	40.0
Nuseed	Hornet	HO	Clearfield, DM	2939	2949	10.7	29.5	58	17,811	41.2
Croplan	3845 HO	HO	N/A	2887	2797	10.3	28.3	59	18,107	41.4
Nuseed	NHKP53383	HO	Clearfield Plus, DM	2851	-	11.2	28.5	53	22,236	38.9
Dyna-Gro	XH81H50CL	HO	Clearfield	2791	-	11.3	29.1	58	19,747	39.1
Dyna-Gro	XH81N48EX	NS	ExpressSun	2738	-	10.6	30.7	53	21,914	41.2
Nuseed	NHKM34006	HO	Clearfield, DM	2667	-	11.0	28.1	58	22,825	40.2
Croplan	455 E HO	HO	ExpressSun, DM	2650	2528	11.0	29.5	50	20,909	38.5
Croplan	557 CL HO	HO	Clearfield, DM	2645	-	11.6	29.3	59	15,939	40.1
Dyna-Gro	DG H44HO12 CL	HO	Clearfield, DM	2578	-	10.5	28.9	45	20,764	40.4
Croplan	432 E	NS	ExpressSun, DM	2571	2721	10.5	29.9	58	22,942	40.3
Allegiant	65H81CL	HO	Clearfield, DM	2485	-	10.3	29.0	54	21,215	40.7
Dyna-Gro	DG H45NS16 CL	NS	Clearfield, DM	2391	-	10.6	29.8	52	22,942	42.1
Nuseed	N4HP470	HO	Clearfield Plus, DM	2345	-	10.8	30.4	58	19,554	40.7
Nuseed	N4HM354	NS	Clearfield, DM	2110	2544	10.5	30.1	52	20,457	41.4
Croplan	3732	NS	N/A	2088	2557	10.8	29.1	54	17,489	40.6
Nuseed	N4HE302	HO	ExpressSun	2045	-	10.9	27.5	55	19,747	40.0
Dyna-Gro	XH81N46EX	NS	ExpressSun	1590	-	11.2	28.1	55	21,909	40.6
Dyna-Gro	XH81H51EX	HO	ExpressSun	733	-	10.8	25.7	37	20,005	38.7
Average				2677	2916	10.9	28.9	54	20,068	40.6
^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

Fertilizer: N at 120 and P at 35 lb/ac

Herbicide: Authority Elite at 19 oz/ac

Insecticide: Prevathon at 20 oz/ac applied 8/7/2018 and Mustang Maxx at 4 oz/ac on 8/23/2018

Irrigation: Center-pivot

Soil Type: Colby loam

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