



**2017 Limited-Irrigation Oil
Sunflower Hybrid Variety Performance
Trial at Burlington**

Brand	Hybrid	Oil		Yield ^c	Moisture	Test Weight	Plant Height	Population	Oil Content
		Type ^a	Technology Traits ^b						
				lb/ac	percent	lb/bu	in	plants/ac	percent
Dyna-Gro	XH72N54CP	HO	Clearfield Plus	4119	6.8	33.7	49	17,642	41.6
Dyna-Gro	XH71N44CL	NS	Clearfield	3591	6.8	31.5	70	18,803	38.8
Croplan	568 CL HO	HO	Clearfield, DM	3404	6.8	30.8	64	15,173	40.0
Nuseed	N4HM505	HO	Clearfield, DM	3399	7.1	30.3	60	16,553	38.4
Dyna-Gro	XH71H27CL	HO	Clearfield	3364	6.7	30.8	73	15,827	39.5
Croplan	545 CL	NS	Clearfield, DM	3359	7.5	31.7	64	15,246	37.8
Croplan	7919 CL HO	HO	Clearfield, DM	3303	7.0	29.7	64	14,566	39.9
Dyna-Gro	XH72H61CL	HO	Clearfield	3178	6.1	30.6	54	17,714	39.9
Nuseed	Camaro II	NS	Clearfield, DM	3128	6.2	31.7	68	17,642	37.7
Nuseed	N4HM521	HO	Clearfield, DM	3109	6.9	29.8	68	15,173	40.2
Croplan	3732	NS	N/A	3025	6.8	30.9	62	16,625	40.1
Dyna-Gro	XH72H38CL	HO	Clearfield	2996	6.5	30.3	66	12,995	37.9
Nuseed	N4HM354	NS	Clearfield, DM	2977	6.1	31.2	60	16,988	39.7
Nuseed	Hornet	HO	Clearfield, DM	2959	7.1	30.7	64	14,507	39.2
Dyna-Gro	XH72H12CP	HO	Clearfield Plus	2947	6.2	31.2	77	15,827	39.6
Croplan	549 CL	NS	Clearfield, DM	2945	6.2	31.1	75	14,375	38.7
Dyna-Gro	XH72H47CL	HO	Clearfield	2908	6.8	30.2	65	16,553	39.9
Croplan	432 E	NS	ExpressSun, DM	2871	6.2	30.7	73	17,569	37.3
Dyna-Gro	HX71N33CL	NS	Clearfield	2830	6.4	31.3	58	17,027	39.4
Croplan	3845 HO	HO	N/A	2707	6.7	30.9	62	11,367	40.9
Croplan	450 E HO	HO	ExpressSun, DM	2591	6.8	30.5	73	13,620	37.0
Dyna-Gro	XH71H11CL	HO	Clearfield	2565	6.3	31.0	62	17,569	38.3
Croplan	458 E HO	HO	ExpressSun, DM	2469	7.2	29.3	71	13,671	36.8
Dyna-Gro	XH73H14CL	HO	Clearfield	2466	6.5	30.6	62	17,424	37.9
Croplan	455 E HO	HO	ExpressSun, DM	2406	6.7	31.0	68	15,173	38.6
Dyna-Gro	XH73H32CL	HO	Clearfield	2362	7.1	30.4	64	14,157	39.4
Croplan	7717 CL HO	HO	Clearfield, DM	2303	6.0	30.8	56	16,553	38.5
Dyna-Gro	XH72H22HCL	HO	Clearfield	2201	6.4	32.0	62	12,357	37.6
Nuseed	Cobalt II	HO	Clearfield, DM	2184	7.0	30.9	66	17,061	38.3
Average				2919	6.6	30.9	65	15,716	38.9
^d LSD (P<0.30)				240					
^d LSD (P<0.05)				458					
Coefficient of Variation (%)				11.5					

^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.

^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 12, 2017
 Harvest Date: October 30, 2017
 Fertilizer: N at 120, P at 35, and S at 10 lb/ac
 Herbicide: Dual Magnum and Spartan
 Insecticide: Lorsban and Warrior to control moths
 Irrigation: Center-pivot
 Soil Type: Richfield silty clay loam

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