



2020 Irrigated Oil Sunflower Hybrid
Performance Trial at Burlington

Brand	Hybrid	Oil		Yield ^c	2-Year		Test Weight	Plant		Oil Content ^c	
		Type ^a	Technology Traits ^b		lb/ac	Avg. Yield		Moisture	Height		Population
				lb/ac	lb/ac	percent	lb/bu	in	plants/ac	percent	
Nuseed	Hornet	HO	Clearfield, DM	2679	2673	15.0	31.7	61	20,909	39.3	
Croplan by Winfield United	CP545CL	NS	Clearfield, DM	2602	2737	13.9	31.8	54	17,932	39.6	
Croplan by Winfield United	CPX50120CL	-	Clearfield	2485	-	15.3	31.3	62	20,110	38.4	
Dyna-Gro	H48HO15CL	HO	Clearfield	2482	2512	14.0	31.0	63	18,150	40.6	
Nuseed	N4H422 CL	HO	Clearfield	2443	2343	14.9	31.4	62	20,473	38.4	
Croplan by Winfield United	CP455E	HO	ExpressSun, DM	2375	2481	14.6	32.5	57	17,642	38.6	
Dyna-Gro	H49NS14CL	NS	Clearfield	2312	2694	16.4	31.9	60	19,820	39.5	
S&W Seed Company	SF440	HO	Clearfield	2259	-	15.3	31.3	63	19,675	39.3	
Croplan by Winfield United	CP450E	HO	ExpressSun, DM	2239	2585	14.3	32.1	59	16,190	36.9	
Nuseed	N4H470 CL Plus	HO	Clearfield Plus, DM	2183	2130	14.2	32.4	60	20,546	40.4	
Nuseed	N4H521 CL	HO	Clearfield, DM	2038	2571	13.8	30.6	59	20,038	38.4	
Dyna-Gro	H49HO19CL	HO	Clearfield	2025	2348	13.9	32.2	61	18,295	39.5	
Nuseed	N4H302 E	HO	ExpressSun	1964	1792	12.9	30.5	59	15,754	37.2	
Croplan by Winfield United	CP432E	NS	ExpressSun, DM	1848	2171	13.8	32.3	58	17,279	37.0	
S&W Seed Company	SF110	HO	Clearfield	1744	-	13.1	32.1	56	17,424	38.4	
Croplan by Winfield United	CL4909E	NS	ExpressSun	1622	2009	14.2	32.1	60	18,005	39.0	
Dyna-Gro	XH00H57	NS	N/A	1563	-	13.6	31.7	66	17,860	41.0	
Nuseed	N4HM354	NS	Clearfield, DM	1511	1687	14.5	32.3	57	20,909	39.3	
Croplan by Winfield United	CP3845	HO	N/A	838	1481	15.5	32.0	56	18,440	40.6	
Average				2064		14.4	31.7	59	18,708	39.0	
^d LSD (P<0.30)				230							
^d LSD (P<0.05)				440							
Coefficient of Variation (%)				16.0							

^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. Hybrids in the top yield group (P<0.30) are bolded.

^dIf the difference between two hybrid yields equals or exceeds the LSD value, the difference is significant. Hybrid yields in the top yield group (P<0.30) are in bold. Farmers should use the LSD (P<0.30) for selecting superior hybrids to minimize economic loss due to false negative results and others may use LSD (P<0.05) to minimize the risk of false positive results.

Site Information

Collaborator: Gerhard Heintges
 Planting Date: June 1, 2020
 Harvest Date: October 14, 2020
 Fertilizer: N at 125, P at 40, and S at 5 lb/ac
 Soil Type: Norka-Colby silt loams
 GPS Coordinates: 39.187, -102.2714

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