

**2019 Irrigated Oil Sunflower Hybrid  
 Performance Trial at Burlington**

Brand	Hybrid	Oil Type <sup>a</sup>	Technology Traits <sup>b</sup>	Yield <sup>c</sup> lb/ac	2-Year	Moisture percent	Test	Plant	Population plants/ac	Oil
					Avg. Yield lb/ac		Weight lb/bu	Height in		Content <sup>c</sup> percent
Nuseed	N4H521 CL	HO	Clearfield, DM	<b>3104</b>	3285	5.6	31.6	70	15,899	39.3
Dyna-Gro	H49NS14CL	NS	Clearfield, DM	<b>3076</b>	3148	5.8	33.1	74	14,084	39.8
Nuseed	4170 CL Plus	Traditional	Clearfield Plus	<b>2971</b>	-	6.1	32.1	80	15,609	39.8
Croplan by Winfield United	CP450E	HO	ExpressSun, DM	<b>2930</b>	-	5.0	33.5	72	14,447	38.6
Croplan by Winfield United	CP545CL	NS	Clearfield, DM	<b>2872</b>	3099	5.5	32.9	70	16,045	39.5
Dyna-Gro	H49HO19CL	HO	Clearfield, DM	2671	2985	5.5	33.0	69	16,698	40.2
Nuseed	Hornet	HO	Clearfield, DM	2667	2803	5.5	33.2	74	14,520	38.8
Nuseed	N4H407 CL	HO	Clearfield	2623	-	5.6	32.1	70	15,682	39.8
Croplan by Winfield United	CP455E	HO	ExpressSun, DM	2587	2618	5.4	32.8	74	14,956	39.1
Dyna-Gro	H48HO15CL	HO	Clearfield, DM	2542	2969	5.6	31.9	72	14,302	40.4
Croplan by Winfield United	CP432E	NS	ExpressSun, DM	2495	2533	4.9	32.8	66	16,480	38.6
Croplan by Winfield United	CPX59619CLP	NS	Clearfield Plus	2466	-	5.2	31.8	70	14,956	39.4
Croplan by Winfield United	CL4909E	NS	ExpressSun	2395	-	5.1	33.4	70	16,480	40.2
<b>S&amp;W Seed Co</b>	<b>NSW20440</b>	<b>HO</b>	<b>Clearfield</b>	<b>2339</b>	<b>-</b>	<b>5.6</b>	<b>32.1</b>	<b>70</b>	<b>15,246</b>	<b>39.7</b>
Nuseed	N4H422 CL	HO	Clearfield	2243	-	5.5	32.8	75	14,883	39.1
Croplan by Winfield United	CP3845	HO	N/A	2123	2505	5.0	33.1	68	16,262	41.0
Nuseed	N4H470 CL Plus	HO	Clearfield Plus, DM	2078	2211	5.8	33.4	63	15,682	39.8
Croplan by Winfield United	CP432E ProSize	NS	ExpressSun, DM	2076	-	5.0	32.7	64	14,447	38.5
Nuseed	N4HM354	NS	Clearfield, DM	1863	-	5.0	33.7	72	15,536	40.1
<b>S&amp;W Seed Co</b>	<b>NSW20110</b>	<b>HO</b>	<b>Clearfield</b>	<b>1736</b>	<b>-</b>	<b>5.1</b>	<b>32.9</b>	<b>68</b>	<b>14,883</b>	<b>40.2</b>
Dyna-Gro	H45NS16CL	NS	Clearfield, DM	1734	2063	5.1	32.2	68	15,028	40.5
Nuseed	N4H302 E	HO	ExpressSun	1620	1832	5.3	31.9	64	15,173	39.0
Nuseed	4140 CL	Traditional	Clearfield	1469	-	7.0	32.4	78	17,714	38.9
<b>Average</b>				<b>2377</b>	<b>2671</b>	<b>5.4</b>	<b>32.7</b>	<b>70</b>	<b>15,435</b>	<b>39.6</b>
<sup>d</sup> LSD (P<0.30)				289						
<sup>d</sup> LSD (P<0.05)				552						
Coefficient of Variation (%)				17.2						

<sup>a</sup>Oil type designations: HO=High oleic; NS=NuSun/Mid-oleic.

<sup>b</sup>Technology trait designations: Clearfield and Clearfield Plus=tolerant to Beyond herbicide; DM=downy mildew resistance; ExpressSun=tolerant to Express herbicide; N/A=no technology traits.

<sup>c</sup>Yield and oil content were corrected to 10% moisture at harvest. Hybrids in the top yield group (P<0.30) are bolded.

<sup>d</sup>If 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 10, 2019  
 Harvest Date: October 17, 2019  
 Irrigation: Center-pivot  
 Soil Type: Norka-Colby silt loam

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