



2019 Dryland Oil Sunflower Hybrid  
Performance Trial at Sheridan Lake

Brand	Hybrid	Oil Type <sup>a</sup>	Technology Traits <sup>b</sup>	Yield <sup>c</sup> lb/ac	Moisture percent	Test Weight lb/bu	Plant Height in	Population plants/ac	Oil Content <sup>c</sup> percent
Croplan by Winfield United	CP3845	HO	N/A	<b>2639</b>	4.9	31.5	54	10,890	38.5
S&W Seed Co	NSW20440	HO	Clearfield	<b>2581</b>	5.0	30.6	61	12,342	35.3
Nuseed	N4H521 CL	HO	Clearfield, DM	<b>2498</b>	5.0	30.5	47	8,131	37.3
Nuseed	Hornet	HO	Clearfield, DM	<b>2473</b>	5.0	30.5	56	10,745	36.3
Croplan by Winfield United	CP545CL	NS	Clearfield, DM	2446	5.0	30.7	58	12,197	36.6
Croplan by Winfield United	CPX59619CLP	NS	Clearfield Plus	2359	5.0	30.6	57	10,600	35.6
Croplan by Winfield United	CP455E	HO	ExpressSun, DM	2339	5.0	31.3	58	9,583	37.2
S&W Seed Co	SV20181	HO	Clearfield	2133	4.8	30.5	62	9,002	35.3
Croplan by Winfield United	CL4909E	NS	ExpressSun	2133	4.9	31.3	60	9,794	36.6
Croplan by Winfield United	CP432E ProSize	NS	ExpressSun, DM	2119	4.9	30.6	52	11,035	35.6
S&W Seed Co	SVH80028	HO	Clearfield	2103	5.0	30.5	61	9,874	35.9
Croplan by Winfield United	CP450E	HO	ExpressSun, DM	2057	5.0	31.1	60	9,583	35.4
Nuseed	N4H470 CL Plus	HO	Clearfield Plus, DM	2043	4.9	30.9	56	10,013	38.5
Croplan by Winfield United	CP432E	NS	ExpressSun, DM	2027	4.9	30.7	50	11,471	35.5
Nuseed	N4HM354	NS	Clearfield, DM	1818	4.8	31.6	58	12,923	37.5
S&W Seed Co	SV20063	HO	Clearfield	1739	4.9	30.8	55	12,052	36.2
Nuseed	N4H302 E	HO	ExpressSun	1715	4.9	29.5	54	9,583	35.2
S&W Seed Co	NSW20110	HO	Clearfield	1573	4.9	29.9	46	11,616	35.3
<b>Average</b>				<b>2155</b>	<b>4.9</b>	<b>30.7</b>	<b>56</b>	<b>10,635</b>	<b>36.3</b>

<sup>d</sup>LSD (P<0.30)

166

<sup>d</sup>LSD (P<0.05)

318

Coefficient of Variation (%)

11.6

<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: Burl Scherler  
 Planting Date: June 20, 2019  
 Harvest Date: October 18, 2019  
 Fertilizer: Pre-plant: N at 60 and S at 10 lb/ac; Planting: N at 4 and P at 13 lb/ac  
 Herbicide: Pre-plant: 2,4-D and sulfentrazone applied fall of 2018; glyphosate, 2,4-D, and sulfentrazone applied spring 2019  
 Soil Type: Wiley loam  
 Trial Comments: Trial hailed in early August, but no major damage was noted. Southern corn rootworm beetles were observed in the trial in the fall (as well as at harvest) at high levels. Rhizopus (head rot) was also noted at high levels prior to harvest.

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