



2020 Dryland Oil Sunflower Hybrid  
Performance Trial at Julesburg

Brand	Hybrid	Oil Type <sup>a</sup>	Technology Traits <sup>b</sup>	Yield <sup>c</sup> lb/ac	2-Year Avg. Yield lb/ac	Moisture percent	Test Weight lb/bu	Population plants/ac	Oil Content <sup>c</sup> percent
Croplan by Winfield United	CP432E	NS	ExpressSun, DM	<b>1481</b>	1277	12.3	26.8	10,209	34.7
Nuseed	N4H521 CL	HO	Clearfield, DM	<b>1373</b>	1326	13.7	27.7	9,120	37.4
Croplan by Winfield United	CL4909E	NS	ExpressSun	<b>1371</b>	1268	12.7	28.7	14,021	37.5
Croplan by Winfield United	CP545CL	NS	Clearfield, DM	1356	1216	12.5	28.2	12,660	37.5
Croplan by Winfield United	CP3845	HO	N/A	1343	1413	13.9	28.0	11,298	38.2
Croplan by Winfield United	CP450E	HO	ExpressSun, DM	1339	1212	12.8	28.4	10,890	37.2
Croplan by Winfield United	CP455E	HO	ExpressSun, DM	1324	1190	13.1	27.3	9,257	36.6
S&W Seed Company	SF440	HO	Clearfield	1271	1463	12.5	28.4	13,340	37.2
Nuseed	N4H422 CL	HO	Clearfield	1252	-	13.1	27.9	12,387	37.6
Nuseed	N4H302 E	HO	ExpressSun	1235	1150	12.3	26.3	7,487	34.2
Croplan by Winfield United	CPX50120CL	-	Clearfield	1201	-	12.5	28.7	14,293	37.8
Nuseed	Hornet	HO	Clearfield, DM	1175	1365	12.3	27.9	11,026	37.4
Nuseed	N4HM354	NS	Clearfield, DM	1154	1147	12.6	27.9	14,157	36.5
S&W Seed Company	SF110	HO	Clearfield	1104	1009	12.8	27.8	15,110	36.3
Nuseed	N4H470 CL Plus	HO	Clearfield Plus, DM	1043	1209	12.6	28.9	15,654	38.7
<b>Average</b>				<b>1268</b>	<b>1250</b>	<b>12.8</b>	<b>27.9</b>	<b>12,061</b>	<b>37.0</b>
<sup>d</sup> LSD (P<0.30)				111					
<sup>d</sup> LSD (P<0.05)				213					
Coefficient of Variation (%)				14.0					

<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, 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: Josh Lechman  
Planting Date: June 8, 2020  
Harvest Date: October 21, 2020  
Soil Type: Richfield loam  
GPS Coordinates: 40.869, -102.2266

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