



## 2022 Dryland Oil Sunflower Hybrid Performance Trial at Sheridan Lake

Brand	Hybrid	Oil Type <sup>a</sup>	Technology Traits <sup>b</sup>	Grain		2-Year		Test		Oil
				Yield <sup>c</sup> bu/ac	% of test avg.	Avg. Yield bu/ac	Moisture percent	Weight lb/bu	Population plants/ac	Content percent
DYNAGRO	H49HO19CL	HO	Clearfield	<b>1384</b>	157%	1187	12	23	11,500	36
DYNAGRO	H47HO11EX	HO	ExpressSun	1080	122%	-	13	26	10,900	36
DYNAGRO	H49NS14CL	NS	Clearfield	959	109%	1035	12	24	7,500	35
Nuseed	N4H521 CL	HO	Clearfield, DMR	942	107%	981	12	24	9,800	36
Nuseed	Hornet	HO	Clearfield, DMR	901	102%	1021	12	25	14,800	37
CROPLAN	CP455E	HO	ExpressSun	901	102%	945	12	24	12,100	37
DYNAGRO	H50HO20CP	HO	Clearfield Plus	870	99%	-	12	25	14,400	39
DYNAGRO	H45NS16CL	NS	Clearfield	835	95%	-	13	24	15,100	38
Nuseed	N4H422 CL	HO	Clearfield, DMR	817	93%	904	12	23	14,400	35
CROPLAN	CP7919CL	NS	Clearfield	734	83%	967	12	24	12,000	37
DYNAGRO	H42HO18CL	HO	Clearfield	720	82%	-	12	25	11,500	36
Nuseed	N4H470 CLP	HO	Clearfield Plus, DMR	720	82%	840	12	24	16,400	37
DYNAGRO	H45HO10EX	HO	ExpressSun	600	68%	-	12	22	12,000	35
<b>Average</b>				<b>882</b>	<b>100%</b>	<b>985</b>	<b>12</b>	<b>24</b>	<b>12,500</b>	<b>36</b>
				<sup>d</sup> LSD (0.30)	128					
				<sup>d</sup> LSD (0.05)	247					
				Coefficient of Variation (%)	19.8					

<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; DMR=downy mildew resistance; ExpressSun=tolerant to Express herbicide.

<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>Farmers selecting a hybrid based on yield should use the LSD (.30) to protect themselves from false negative conclusions (concluding hybrids are the same when they are actually different). Companies or researchers may be interested in the LSD (.05) to avoid false positive conclusions (concluding hybrids are different when they are actually the same).

### Site Information

Collaborator: Jason Specht  
 Planting Date: June 20, 2022  
 Harvest Date: October 27, 2022  
 Soil Type: Keith-Richfield silt loam and Keith-Ulysses silt loam  
 GPS Coordinates: 38.6581234, -102.1154623

*The data included in this table may not be republished without permission. Contact Sally Jones-Diamond at sally.jones@colostate.edu.*