

**2017 Dryland Oil Sunflower Hybrid
 Variety Performance Trial at Arapahoe**

Brand	Hybrid	Technology		Yield ^c lb/ac	Moisture percent	Test Weight lb/bu	Plant Height in	Population plants/ac	Oil Content percent
		Oil Type ^a	Traits ^b						
Croplan	568 CL HO	HO	Clearfield, DM	2707	7.3	26.5	43	8,404	36.7
Croplan	7919 CL HO	HO	Clearfield, DM	2549	7.9	25.1	41	7,557	35.3
Nuseed	N4HM521	HO	Clearfield, DM	2527	7.7	25.3	49	8,073	38.2
Croplan	549 CL	NS	Clearfield, DM	2427	6.4	26.5	61	8,661	34.4
Nuseed	Hornet	HO	Clearfield, DM	2371	6.9	25.6	47	8,571	35.6
Croplan	545 CL	NS	Clearfield, DM	2236	7.6	25.6	46	9,243	37.6
Croplan	3732	NS	N/A	2186	6.2	26.6	48	10,261	38.6
Croplan	458 E HO	HO	ExpressSun, DM	2135	7.2	23.2	50	9,090	34.9
Nuseed	Camaro II	NS	Clearfield, DM	2134	5.9	27.2	46	11,348	36.8
Croplan	432 E	NS	ExpressSun, DM	2100	6.3	25.3	44	10,174	33.3
Croplan	455 E HO	HO	ExpressSun, DM	2010	6.6	26.0	48	9,197	35.9
Nuseed	N4HM354	NS	Clearfield, DM	1916	5.9	25.8	43	9,814	37.0
Croplan	450 E HO	HO	ExpressSun, DM	1912	6.4	25.7	45	8,517	36.8
Croplan	7717 CL HO	HO	Clearfield, DM	1843	6.2	26.7	40	9,749	34.6
Nuseed	Cobalt II	HO	Clearfield, DM	1692	6.4	25.8	41	8,696	35.0
Croplan	3845 HO	HO	N/A	1666	6.4	26.3	43	6,556	39.7
Average				2151	6.7	25.8	46	8,994	36.3
^d LSD (P<0.30)				159					
^d LSD (P<0.05)				306					
Coefficient of Variation (%)				11.6					

^aOil type designations: HO=High oleic; NS=NuSun/Mid-oleic.

^bTechnology trait designations: Clearfield=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.

^dIf 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: Gabe Mitchek
 Planting Date: June 15, 2017
 Harvest Date: October 26, 2017
 Fertilizer: N at 37, P at 24, S at 11, and Zn at 0.6 lb/ac
 Herbicide: Pre-plant: Glyphosate at 48 oz/ac and 2,4-D at 24 oz/ac, Prowl at 1 qt/ac, 0.40 oz/ac of Spartan, and gramoxone at 44 oz/ac for burndown; In-season: Select at 10 oz/ac
 Insecticide: Mustang Maxx
 Soil Type: Keith-Richfield silt loam

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