



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2023 South Dakota Sunflower Hybrid Trial Results Gettysburg

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Location:	1 1/2 miles south of Gettysburg, SD 44.977613°, -99.954330°
Cooperator:	Nathaniel Williams
Soil Type:	Eakin-Peno complex, 2-6% slopes
Fertilizer:	200 lbs/acre 46-0-0 preplant broadcast
Previous crop:	corn
Tillage:	no-till
Row spacing:	30 inches
Seeding Rate:	24,000/acre
Herbicide:	Burndown: 9 oz/acre Authority Supreme + 3 oz/acre dicamba Pre: 35 oz/acre Roundup + 6 oz/acre Pixxaro + 2 oz/acre Spartan + 0.5 oz/ acre Express Post: none
Insecticide:	not reported
Date seeded:	6/1/2023
Date harvested:	11/8/2023

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Table 1a. Sunflower oilseed hybrid performance results (average of 4 replications) at Gettysburg, SD.

Hybrid Information			Agronomic Performance				
Brand	Hybrid	Type*	Yield (lbs/ac) (@10%)	Moisture (%)	Test Weight (lbs/bu)	Oil % (@10%)	Harvest Population (plants/ac)
Advanta Seeds	ADV XH182IT	CL	3121	10.5	28.5	43.9	23800
Nuseed	N4H490 E	HO, EX, DM	2980	10.5	28.6	45.5	23800
Advanta Seeds	ADV XH302IT	CL	2926	10.6	27.9	40.6	21500
Nuseed	N4H521 CL	HO, CL, DM	2887	10.8	27.6	44.5	21000
Nuseed	N5H493 CL	HO, CL, DM	2843	10.4	25.6	37.3	24100
Pioneer	P64HE101	HO, EX, DM	2688	10.8	28.3	42.3	22900
Croplan	CP5249CL	IMI	2666	10.0	27.1	48.4	20700
Croplan	CP455E	SU, HO, DM	2655	10.8	28.7	42.2	21800
Croplan	CP5045CL	IMI, NS, DM	2631	10.9	29.1	45.4	23200
Nuseed	HORNET	HO, CL, DM	2561	10.5	27.7	44.5	22900
Dyna-Gro Seed	H49HO19CL	HO, CL	2539	10.4	27.3	44.8	23500
Croplan	CP7919CL	IMI, HO, DM	2472	10.5	27.2	44.0	18400
Proseed	50502 CL	HO, SU, DM	2429	10.3	26.3	48.1	22700
Croplan	CP450E	SU, HO, DM	2395	10.3	27.9	42.2	23800
Advanta Seeds	ADV XH136	-	2326	10.5	29.4	44.4	21800
Dyna-Gro Seed	H45NS16CL	NS, CL	2209	10.5	30.4	44.8	21500
Sunrich Products	4425 CL	CL	2170	10.4	27.8	39.6	21000
Croplan	CP4157E	SU	2163	10.3	28.8	40.7	21800
Proseed	50068 CL	HO, SU, DM	2109	10.4	28.1	42.4	21800
Nuseed	N4H422 CL	HO, CL, DM	2105	11.2	28.9	42.9	19800
Nuseed	FALCON	NS, EX	2062	10.8	29.5	42.3	21000
Pioneer	P63HE920	HO, EX, DM	2057	10.9	29.4	40.9	22100
Dyna-Gro Seed	H45HO10EX	HO, SU	2029	10.2	27.4	42.9	18700
Dyna-Gro Seed	H50HO20CP	HO, CP	1965	10.6	28.9	46.1	21200
RAGT Semences	AC2201	HO, CL, DM	1953	10.6	29.2	42.9	22700
Thunder Seed	TEX2302SF	HO, EX	1893	10.1	27.3	39.4	18100
Dyna-Gro Seed	H47HO11EX	HO, SU	1888	10.8	29.3	41.5	18700
RAGT Semences	AC2202	HO, CL, DM	1876	10.7	29.4	43.7	23200
Trial Average			2055	10.5	28.3	42.2	21500
LSD (0.05)†			345	0.4	0.8	2.4	1900
C.V.‡			11.9	-	-	-	-

*Type: NuSun = NS; Traditional = Trad; High Oleic = HO; Clearfield (IMI) = CL; Clearfield Plus (IMI) = CP; Conoil = CO; ExpressSun (SU) = EX; Downy Mildew Resistant = DM; Rust Resistant = Rust.

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



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Table 1b. Sunflower oilseed hybrid performance results, continued (average of 4 replications) at Gettysburg, SD.

Hybrid Information			Agronomic Performance				
Brand	Hybrid	Type*	Yield (lbs/ ac) (@10%)	Moisture (%)	Test Weight (lbs/bu)	Oil % (@10%)	Harvest Population (plants/ac)
Sunrich Products	4415 HO/DM/CLP	HO, DM, CP	1856	10.6	27.7	38.3	22100
Dyna-Gro Seed	H42HO18CL	HO, CL	1835	10.4	29.5	43.0	22900
Croplan	CP432E	SU, NS, DM	1832	10.5	28.8	38.6	21800
Proseed	E-93 E	HO, SU, DM	1827	10.3	27.8	39.1	18700
RAGT Semences	AC2101	HO, CP, DM	1781	10.4	25.8	41.7	22100
Nuseed	N4H470 CLP	HO, CL, DM	1748	10.5	28.6	46.2	21200
Proseed	EXP 109L-E	HO, SU, DM	1715	10.7	28.4	42.5	19500
Nuseed	BADGER DMR	NS, CL, DM	1690	10.6	28.0	34.4	19500
Thunder Seed	TEX2301SF	HO,EX	1655	10.6	28.1	42.1	22400
Proseed	E-91 E	HO, SU, DM	1546	10.8	28.4	40.8	20700
USDA Check	HYBRID 894	TRAD	1121	11.0	28.7	40.8	21800
Trial Average			2055	10.5	28.3	42.2	21500
LSD (0.05)†			345	0.4	0.8	2.4	1900
C.V.‡			11.9	-	-	-	-

*Type: NuSun = NS; Traditional =Trad; High Oleic = HO; Clearfield (IMI) = CL; Clearfield Plus (IMI) = CP; Conoil = CO; ExpressSun (SU) = EX; Downy Mildew Resistant = DM; Rust Resistant = Rust.

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.