



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

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

2024 South Dakota Sunflower Hybrid Trial Results Gettysburg

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Location:	1 1/2 miles south of Gettysburg, SD 44.976986°, -99.953092°
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: 32 oz Glyphosate Pre: 2 oz Spartan Post: none
Insecticide:	32 oz Lorsban 4e
Date seeded:	6/19/2024
Date harvested:	11/14/2024

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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)
SUNRICH	4425CL	CL	2695	9.9	25.7	34.0	20978
ADVANTA	HYSUN182IT	CL	2689	9.8	24.7	38.8	24531
ADVANTA	HYSUN238IT	CL	2658	10.4	27.0	34.4	24875
DYNAGRO	H45NS16CL	NS, CL	2647	10.2	26.7	42.7	22124
NUSEED	N4H490E	HO, EX, DM	2568	10.6	26.2	39.7	20863
ADVANTA	ADV5310CL	CL	2543	10.7	24.6	42.2	22353
NUSEED	N4H205E	HO, EX, DM	2542	9.6	24.7	42.8	24646
CROPLAN	CP5249CL	HO, CL	2515	9.1	23.1	44.4	22353
ADVANTA	HYSUN302IT	CL	2511	10.5	26.1	36.2	23385
PIONEER	P63HE920	HO, EX, DM	2511	10.3	26.6	37.4	24073
NUSEED	N4H462E	HO, EX, DM	2499	10.5	26.2	41.8	22697
DYNAGRO	XH41H90EX	HO, EX	2464	10.7	25.9	40.1	21093
NUSEED	N5H493CL	HO, CL	2459	9.9	23.4	27.1	24531
DYNAGRO	H49HO19CL	HO, CL	2412	10.3	24.8	40.0	24416
CROPLAN	CP7919CL	HO, CL	2409	10.5	24.0	40.1	19259
PIONEER	P64HE188	HO, EX, DM	2407	10.3	24.7	40.0	24302
PIONEER	P64HE101	HO, EX, DM	2405	10.5	24.9	35.7	21666
CROPLAN	CP455E	HO, EX	2397	10.1	24.5	37.3	23499
ADVANTA	ADV5407CL	CL	2371	10.3	23.9	44.5	21322
CROPLAN	CP4475E	HO, EX	2370	9.6	25.2	38.9	19831
CROPLAN	CP4255E	HO, EX	2311	10.2	24.7	37.6	22238
NUSEED	N4H422CL	HO, CL, DM	2278	10.0	24.8	38.9	23614
DYNAGRO	XH41H56CL	HO, CL	2271	10.5	27.4	39.5	22697
DYNAGRO	H50HO20CP	HO, CP	2257	10.4	24.2	41.6	23041
NUSEED	BADGERDMR	NS, CL, DM	2249	9.6	24.6	30.1	19831
NUSEED	N4H470CLP	HO, CLP, DM	2231	10.6	24.7	42.3	23499
RAGT SEMENCES	AC2201	HO, CL, DM	2202	10.4	24.7	39.8	23385
THUNDER SEED	TEX2403SF	HO, EX	2186	10.3	23.5	38.5	22009
Trial Average			2286	10.1	24.7	38.5	22163
LSD (0.05)†			305.5	0.6	1	1.8	2650
C.V.‡			9.7	3.9	2.8	3.3	8.6

*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)
ADVANTA	HYSUN254	TRAD	2149	9.7	23.8	39.8	24760
ADVANTA	ALTASUN452	HO	2145	10.4	23.9	38.1	18341
DYNAGRO	H45HO10EX	HO, EX	2137	9.8	23.6	39.8	20519
ADVANTA	ADV5205CLHO	CL, HO	2121	10.3	24.0	37.7	20863
SUNRICH	4415HO/DM/CLP	HO, CP, DM	2051	10.7	25.0	35.6	19029
NUSEED	N4H337E	HO, EX, DM	2041	10.3	25.9	40.7	23614
ADVANTA	HU22-3005SJ	SU	1996	9.7	22.8	37.4	22239
ADVANTA	HU22-3015SJ	SU	1995	9.6	23.5	36.1	23614
ADVANTA	ALTASUN100	HO	1958	10.4	23.3	39.0	15017
THUNDER SEED	TEX2404SF	HO, EX	1957	9.7	24.5	39.0	22582
RAGT SEMENCES	AC2202	HO, CL, DM	1936	10.2	26.2	42.5	23385
ADVANTA	HU22-3001SJ	SU	1910	9.4	22.5	37.0	22009
DYNAGRO	H47HO11EX	HO, EX	1871	10.3	25.5	37.7	23041
RAGT SEMENCES	AC2101	HO, CP, DM	1723	9.3	22.2	38.5	19373
Trial Average			2286	10.1	24.7	38.5	22163
LSD (0.05)†			305.5	0.6	1	1.8	2650
C.V.‡			9.7	3.9	2.8	3.3	8.6

*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.