



College of Agriculture, Food and Environmental Sciences |
SDSU Extension | South Dakota Agricultural Experiment Station

2025 South Dakota Sunflower Hybrid Trial Results - Onida

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Cooperator: Yackley Ranches

Location: From HWY 1804, West on 188th St 3 miles to 281st Ave, South 3 miles to 191st St, .75 miles West,
44.618703, -100.526074

Soil type: Highmore-Walke silt loams, 0-2% slopes

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding rate: 24,000/acre

Fertilizer: 120 lbs N + 14 lbs S

Herbicide:

- Burndown (fall): 3oz Valor
- Early Pre: 4oz Authority Supreme + 32oz 3# Paraquat
- Pre: 4oz Authority Supreme

Insecticide: 4oz Priaxor + 24oz Malathion + 1.9oz 2# Lambda @ R5

Fungicide: 4oz Headline + 1.9oz Lunge

Date seeded: 6/13/2025

Date harvested: 11/29/2025



**SOUTH DAKOTA STATE
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Table 1. Sunflower oilseed hybrid performance results (average of 4 replications) at Onida, SD.

Hybrid Information			Agronomic Performance					
Brand	Hybrid	Type*	Yield (lbs/ac) (@10%)	Moisture (%)	Test Weight (lbs/bu)	Oil % (@10%)	Harvest Population (plants/ac)	Height (in)
CROPLAN	CP455E	SU-HO-DM	4091	10.1	27.6	41.5	22264	77
DYNAGRO	H49HO19CL	HO-CL	3958	10.7	27.5	43.2	23595	84
CROPLAN	CP7919CL	CL-HO-DM	3828	11.4	27.4	43.2	19844	78
ADVANTA	ADV 5407CL	CL	3828	10.5	26.6	46.5	23474	82
CROPLAN	CP4255E	SU-HO-DM	3820	11.2	27.6	39.9	20449	77
CROPLAN	CP5249CL	CL-HO-DM	3769	9.1	26.6	46.3	21901	71
NUSEED	N4H422 CL	CL	3664	10.4	26.9	42.9	26378	82
CROPLAN	CP4490E	SU-HO-DM	3634	10.2	26.7	40.5	22143	76
ADVANTA	ADV 5310CL	CL	3611	11.2	26.8	42.7	22143	85
DYNAGRO	XH41HO54CL	HO-CL	3567	10.3	27.7	43.0	26015	84
NUSEED	N4H490 E	HO	3548	10.7	28.5	44.5	23958	87
ADVANTA	HYSUN 182IT	CL	3541	9.5	26.2	39.2	19118	77
DYNAGRO	XH41HO90EX	HO-EX	3519	11.1	28.6	43.0	25289	86
SUNRICH	4425CL	CL	3504	10.2	26.0	36.5	21901	83
SUNRICH	4415HO/DMR/CLP	HO-DM-CLP	3489	10.8	27.2	39.5	21901	82
ADVANTA	ADV 5420CL(V201810)	CL	3485	10.5	27.5	46.1	25289	86
NUSEED	N4H337 E	HO	3419	9.6	28.3	44.8	27467	81
THUNDER SEED	TSU1592N	NS-EX	3403	9.9	29.1	41.9	22627	74
THUNDER SEED	TSU1582H	HO-EX-DM	3393	10.7	28.8	44.2	26378	85
THUNDER SEED	TCP1533H	HO-CP-DM	3333	10.6	28.5	46.8	24926	83
NUSEED	N4H205 E	HO	3248	9.2	25.8	45.2	26257	77
DYNAGRO	H47HO11EX	HO-EX	3230	11.3	28.2	39.3	20328	83
NUSEED	N4H470 CLP	HO	3218	9.8	28.2	46.2	23716	82
DYNAGRO	XH41HO70EX	HO-EX	3187	9.3	26.1	44.6	26499	80
ADVANTA	HYSUN 302IT	CL	3173	11.4	26.1	36.6	20691	89
DYNAGRO	H50HO20CP	HO-CP	3164	9.5	28.3	46.5	24805	82
THUNDER SEED	TSU1512H	HO-EX	3065	9.8	26.0	42.4	23595	82
NUSEED	N4H462 E	HO	2971	9.7	27.2	44.6	28919	84
DYNAGRO	H45HO10EX	HO-EX	2730	11.3	24.5	41.3	22869	81
DYNAGRO	XH41HO56CL	HO-CL	2472	9.9	21.5	34.7	25773	57
Trial Average			3429	10.3	27.1	42.6	23683	80.5
LSD (0.05)†			407	0.8	1.2	1.8	2555	4.9
C.V.‡			8.4	5.8	3.2	3	7.4	4.4

*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.