



# 2022 South Dakota Sunflower Hybrid Trial Results Onida

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<b>Location:</b>	10 miles west and 1 mile north of Agar, SD 44.852335°, -100.277620°
<b>Cooperator:</b>	Yackley Ranches
<b>Soil Type:</b>	Agar silt loams, 0-2% slopes
<b>Fertilizer:</b>	26-0-0-2.8S-.005B strip-till applied
<b>Previous crop:</b>	corn
<b>Tillage:</b>	no till
<b>Row spacing:</b>	30 inches
<b>Seeding Rate:</b>	24,000/acre
<b>Herbicide:</b>	Burndown: 6 oz/acre Pixarro + 22 oz/acre RT3 Pre: 2 oz/acre Aim EC + 5.3 oz/acre Authority Supreme + 7 oz/acre Gatlin + 6 oz/acre Pixarro + 22 oz/acre RT3 Post: none
<b>Fungicide:</b>	6 oz/acre Headline
<b>Insecticide:</b>	1) 9.6 oz/acre Asana XL + 3.8 oz/acre Lambda_CY (8/13/22) 2) 9.6 oz/acre Asana XL + 3.8 oz/acre Lambda_CY (8/17/22)
<b>Date seeded:</b>	6/9/2022
<b>Date harvested:</b>	10/26/2022

Individual trial location results can be accessed online at:  
[extension.sdstate.edu/south-dakota-sunflower-hybrid-performance-trials](https://extension.sdstate.edu/south-dakota-sunflower-hybrid-performance-trials)



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

Hybrid Information		Agronomic Performance						
Brand	Hybrid	Type*	Yield (lbs/ac) (@10%)	Height (inches)	Moisture (%)	Test Weight (lbs/bu)	Oil % (@10%)	Harvest Population (plants/ac)
Pioneer Dairyland Seed	P64HE101	HO, EX, DM	<b>3515</b>	65	9.3	28.1	42.4	21900
Nuseed	D687HO	EX, HO	<b>3479</b>	64	9.2	28.7	43.2	21000
Croplan	N4H521 CL	HO, CL, DM	<b>3475</b>	64	9.3	27.0	45.5	22700
	CP455E	EX, HO, DM	<b>3468</b>	66	9.0	28.3	45.3	22100
Pioneer	P63HE920	HO, EX, DM	<b>3413</b>	66	9.4	30.1	42.4	21200
Ag Venture	AF3679HE	HO, EX, DM	<b>3404</b>	64	9.1	28.5	42.0	19100
Dyna-Gro Seed	H49NS14CL	NS, CL	<b>3367</b>	64	9.5	28.2	42.9	20100
Sunrich Products	4425 CL	CL, CO	<b>3358</b>	69	8.9	27.7	40.0	20900
Croplan	CP450E	EX, HO, DM	<b>3338</b>	65	8.8	27.1	43.1	23300
RAGT Semences	AC2201	HO, IMI	<b>3323</b>	69	9.1	29.1	43.1	22200
Dyna-Gro Seed	XH82H65EX	HO, EX	3180	69	8.8	28.5	43.6	18200
Croplan	CP7919CL	CL, HO, DM	3166	65	9.1	27.3	45.4	21500
Dyna-Gro Seed	H49HO19CL	HO, CL	3162	65	9.0	27.2	43.3	22700
Proseed	EXP 2346-E	HO, EX, DM	3160	70	9.3	27.4	42.9	20900
Croplan	CP545CL	CL, NS, DM	3133	65	9.3	28.8	44.4	22900
Croplan	CP4909E	EX, NS	3107	62	8.9	29.1	42.5	22500
Dyna-Gro Seed	XH22H66EX	HO, EX	3097	63	9.0	28.5	43.7	22300
RAGT Semences	AC2101	HO, CL	3094	62	8.5	25.3	42.7	18800
Nuseed	N4H470 CLP	HO, CO, CLP	3087	67	9.0	27.9	46.5	22700
Croplan	CP3845	Trad, HO	3084	58	8.6	27.8	45.5	18300
Ag Venture	AF3682HE	HO, EX	3082	64	9.3	28.9	42.7	22100
Dyna-Gro Seed	H47HO11EX	HO, EX	3078	68	9.3	29.7	41.5	21500
Proseed	12G25 CL	HO, CL	3077	62	8.8	28.0	45.4	21100
Proseed	E-91 E	HO, EX, DM	3051	67	9.3	29.1	41.8	19100
Dairyland Seed	D690MO	EX, DM	3027	66	8.9	27.8	44.1	20700
Ag Venture	AF3N692ES	NS, EX	3010	69	9.1	28.5	44.9	21800
Sunrich Products	GP25	CL, CO	2989	66	8.9	27.0	39.2	18900
Ag Venture	AF3691HC	HO, CL, DM	2980	69	8.9	28.2	43.0	23100
<b>Trial Average</b>			2965	66	9.0	27.7	42.7	21100
<b>LSD (0.05)†</b>			211	5.6	0.2	0.9	1.3	1300
<b>C.V.‡</b>			5.1	-	-	-	-	-

\*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 Onida, SD.

Hybrid Information		Agronomic Performance						
Brand	Hybrid	Type*	Yield (lbs/ac) (@10%)	Height (inches)	Moisture (%)	Test Weight (lbs/bu)	Oil % (@10%)	Harvest Population (plants/ac)
Sunrich Products	4415 HO/DM/CLP	HO, DM, CLP	2959	65	8.8	26.8	42.8	22000
Nuseed	FALCON	NS, EX	2954	61	8.8	28.4	44.6	22200
Dyna-Gro Seed	H50HO20CP	HO, CP	2952	67	9.1	29.0	45.3	21400
Proseed	E-50016 CL	HO, CO, DM	2938	63	8.8	27.4	42.2	18600
Nuseed	N4H422 CL	HO, CL, DM	2887	72	9.0	28.1	43.4	21500
Nuseed	NHKE04490	-	2828	68	9.0	28.4	43.8	23100
Sunrich Products	SS91	CO	2818	71	9.2	22.5	32.6	20200
Croplan	CP432E	EX, NS, DM	2797	62	8.8	27.6	38.6	22200
RAGT Semences	AC2202	HO, IMI	2718	68	9.1	29.1	44.1	17600
Proseed	EXP 2300 CL	HO, CP, DM	2669	71	9.1	28.3	43.1	20900
Dyna-Gro Seed	H45NS16CL	NS, CL	2640	62	8.8	29.0	45.2	22300
USDA Check	HYBRID 894	-	2513	66	8.8	26.8	43.1	17000
Dyna-Gro Seed	H42HO18CL	HO, CL	2486	63	9.0	29.0	43.8	22800
Dyna-Gro Seed	XH81N62EX	HO, EX	2474	66	9.1	28.8	41.7	23500
Dyna-Gro Seed	XH21H58CL	HO, CL	2367	61	8.5	25.8	44.6	22200
Dyna-Gro Seed	H45HO10EX	HO, EX	2270	66	8.6	26.0	42.9	20800
Sunrich Products	SS90	CO	2205	68	8.8	23.4	31.8	18500
Nuseed	N4H302 E	HO, EX	2183	65	8.6	25.7	43.5	21100
USDA Check	HONEYCOMB NS	NS	1993	62	8.7	25.6	37.4	20400
<b>Trial Average</b>			2965	66	9.0	27.7	42.7	21100
<b>LSD (0.05)†</b>			211	5.6	0.2	0.9	1.3	1300
<b>C.V.‡</b>			5.1	-	-	-	-	-

\*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.

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