



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

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

2022 South Dakota Sunflower Hybrid Trial Results Gettysburg

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Location:	2.5 miles south of Gettysburg, SD 44.966070°, -99.961091°
Cooperator:	Nathaniel Williams
Soil Type:	Highmore silt loam, 0-2% slopes
Fertilizer:	225 lbs/acre 46-0-0
Previous crop:	spring wheat
Tillage:	no till
Row spacing:	30 inches
Seeding Rate:	24,000/acre
Herbicide:	Pre: 1 qt/acre Roundup + 6 oz/acre Spartan Charge Post: none
Insecticide:	not reported
Date seeded:	6/9/2022
Date harvested:	10/26/2022

Individual trial location results can be accessed online at:
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 Gettysburg, 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	P64HE101	HO, EX, DM	2907	73	9.5	29.0	44.3	21400
Nuseed	N4H521 CL	HO, CL, DM	2883	70	9.7	26.7	47.7	19500
RAGT Semences	AC2201	HO, IMI	2846	72	9.5	28.8	44.6	22100
Dyna-Gro Seed	H49NS14CL	NS, CL	2772	65	9.5	27.8	44.1	20000
Croplan	CP545CL	CL, NS, DM	2748	69	9.7	27.8	45.4	23600
Sunrich Products	GP25	CL, CO	2746	71	8.9	26.8	41.8	19700
Sunrich Products	4425 CL	CL, CO	2590	72	8.8	26.6	42.2	21800
Pioneer	P63HE920	HO, EX, DM	2590	70	9.4	30.3	44.3	22300
Croplan	CP7919CL	CL, HO, DM	2577	70	9.2	27.6	48.0	21600
Croplan	CP3845	Trad, HO	2553	66	8.9	28.4	48.3	18000
Croplan	CP455E	EX, HO, DM	2537	69	8.7	27.7	45.4	23100
Croplan	CP4909E	EX, NS	2476	65	8.7	28.7	43.6	22700
Ag Venture	AF3N692ES	NS, EX	2469	71	9.0	27.8	45.9	22700
Proseed	E-50016 CL	HO, CP, DM	2415	68	8.7	26.9	43.6	19300
Dyna-Gro Seed	H50HO20CP	HO, CP	2414	69	9.1	26.9	46.8	23500
Proseed	12G25 CL	HO, CL	2404	63	9.0	28.2	46.9	19300
Dyna-Gro Seed	H49HO19CL	HO, CL	2401	70	9.1	26.7	44.3	22500
Dyna-Gro Seed	XH22H66EX	HO, EX	2377	69	9.3	28.7	44.0	23400
Ag Venture	AF3679HE	HO, EX, DM	2328	71	9.2	28.6	44.7	22400
Sunrich Products	4415 HO/DM/CLP	HO, DM, CP	2327	71	8.9	27.6	43.5	22700
RAGT Semences	AC2202	HO, IMI	2322	74	9.2	28.9	45.8	22900
Ag Venture	AF3691HC	HO, CL, DM	2315	71	9.0	29.1	44.6	23600
Nuseed	N4H470 CLP	HO, CP, DM	2301	72	8.8	27.0	46.9	21500
Proseed	EXP 2300 CL	HO, CP, DM	2295	73	9.8	27.5	43.6	18300
Nuseed	FALCON	NS, EX	2273	67	8.6	27.9	46.5	22700
Nuseed	N4H422 CL	HO, CL, DM	2224	73	9.1	28.1	44.2	22900
Croplan	CP450E	EX, HO, DM	2150	70	8.6	27.5	43.0	20000
Dyna-Gro Seed	H47HO11EX	HO, EX	2110	72	9.4	29.1	42.6	20300
Trial Average			2236	69	9.0	27.6	44.3	21100
LSD (0.05)†			178	2.4	0.4	1.0	1.2	1200
C.V.‡			5.7	-	-	-	-	-

*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%)	Height (inches)	Moisture (%)	Test Weight (lbs/bu)	Oil % (@10%)	Harvest Population (plants/ac)
Ag Venture	AF3682HE	HO,EX	2106	70	9.4	29.3	44.2	20000
Proseed	EXP 2346-E	HO, EX, DM	1942	70	10.1	24.8	42.8	18200
Nuseed	N4H302 E	HO, EX	1879	68	8.7	25.4	44.0	20700
Dyna-Gro Seed	H45NS16CL	NS, CL	1876	67	9.1	28.7	46.9	20300
Dyna-Gro Seed	H42HO18CL	HO, CL	1847	67	8.6	27.9	44.0	22300
Dyna-Gro Seed	XH82H65EX	HO, EX	1820	70	8.7	27.8	43.5	17500
USDA Check	HYBRID 894	-	1809	68	9.2	28.0	43.2	21200
RAGT Semences	AC2101	HO, CL	1729	70	8.4	24.4	43.4	20400
Proseed	E-91 E	HO, EX, DM	1545	69	9.0	26.4	42.5	20900
Dyna-Gro Seed	H45HO10EX	HO, EX	1437	68	8.6	25.6	44.0	18500
Croplan	CP432E	EX, NS, DM	1345	66	8.6	26.6	39.5	21800
USDA Check	HONEYCOMB NS	NS	776	65	7.4	27.0	37.2	19400
Trial Average			2236	69	9.0	27.6	44.3	21100
LSD (0.05)†			178	2.4	0.4	1.0	1.2	1200
C.V.‡			5.7	-	-	-	-	-

*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.