



**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 Reliance

Jonathan Kleinjan | SDSU Extension Agronomist
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location:	3 miles south and 1/2 mile east of Reliance, SD 43.832454°, -99.596162°
Cooperator:	Schindler Farms
Soil Type:	Millboro silty clay loam, 0-3% slopes
Fertilizer:	200 lb/acre 46-0-0 + 30 lb/acre AMS
Previous crop:	corn
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:	4 oz/acre Lambda
Date seeded:	6/8/2022
Date harvested:	10/17/2022

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



2022 South Dakota Sunflower Hybrid Trial Results Reliance

**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1a. Sunflower oilseed hybrid performance results (average of 4 replications) at Reliance, 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)
Dyna-Gro Seed	H50HO20CP	HO, CP	2616	59	7.7	29.2	48.2	20700
Croplan	CP545CL	CL, NS, DM	2586	58	8.7	28.1	46.0	18100
Croplan	CP455E	EX, HO, DM	2537	58	6.9	27.0	45.0	18200
Nuseed	N4H521 CL	HO, CL, DM	2535	58	9.3	27.0	46.8	18800
Proseed	EXP 2300 CL	HO, CP, DM	2449	63	7.7	28.4	44.8	17000
AgVenture	AF3682HE	HO, EX	2448	61	7.8	28.2	45.2	18200
Proseed	EXP 2346-E	HO, EX, DM	2428	63	6.5	26.0	44.6	17100
Sunrich Products	GP25	CL, CO	2397	61	6.4	26.6	39.4	17700
RAGT Semences	AC2202	HO, IMI	2384	65	7.9	28.6	47.0	19200
AgVenture	AF3679HE	HO, EX, DM	2352	60	7.0	27.6	46.3	21400
Nuseed	N4H422 CL	HO, CL, DM	2325	64	7.8	28.0	45.0	20300
Pioneer	P64HE101	HO, EX, DM	2315	60	8.2	27.3	44.6	19900
Sunrich Products	4425 CL	CL, CO	2282	64	7.1	26.0	39.9	19300
Proseed	E-91 E	HO, EX, DM	2267	63	7.6	29.6	43.3	16500
Nuseed	N4H470 CLP	HO, CP, DM	2264	60	7.3	28.3	47.6	21500
AgVenture	AF3N692ES	NS, EX	2243	59	6.9	26.5	45.7	18400
Dyna-Gro Seed	H45NS16CL	NS, CL	2165	58	6.4	27.8	45.9	18200
Dyna-Gro Seed	H49NS14CL	NS, CL	2165	53	8.8	27.7	45.9	15700
RAGT Semences	AC2201	HO, IMI	2154	65	6.2	28.2	44.6	20400
USDA Check	HYBRID 894	-	2130	60	5.6	26.8	44.6	20300
Dyna-Gro Seed	XH22H66EX	HO, EX	2117	59	7.1	27.7	46.5	20900
Croplan	CP3845	Trad, HO	2057	55	7.0	28.8	48.1	15100
Pioneer	P63HE920	HO, EX, DM	2057	56	6.9	29.9	44.9	20700
Croplan	CP450E	EX, HO, DM	2041	56	6.1	25.9	44.6	17600
Dyna-Gro Seed	XH82H65EX	HO, EX	2011	62	6.2	27.2	45.9	19200
Dyna-Gro Seed	H49HO19CL	HO, CL	1993	60	6.4	26.6	44.9	19100
Croplan	CP432E	EX, NS, DM	1939	55	5.4	26.4	41.8	19800
Sunrich Products	4415 HO/DM/CLP	HO, DM, CP	1926	61	5.7	25.8	42.2	18400
Trial Average			2083	59	6.9	27.3	44.8	18600
LSD (0.05)†			297	3	1.0	0.9	1.3	1300
C.V.‡			10.2	-	-	-	-	-

*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.



**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

2022 South Dakota Sunflower Hybrid Trial Results Reliance

Table 1b. Sunflower oilseed hybrid performance results, continued (average of 4 replications) at Reliance, 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)
Nuseed	FALCON	NS, EX	1900	53	6.2	28.1	47.2	19300
AgVenture	AF3691HC	HO, CL, DM	1894	63	6.3	27.1	45.4	20900
Croplan	CP7919CL	CL, HO, DM	1894	56	7.4	27.0	45.8	20400
Nuseed	NHKE04490	-	1883	62	6.9	27.6	45.3	21600
Dyna-Gro Seed	H47HO11EX	HO, EX	1875	62	7.2	27.8	44.2	17000
Proseed	12G25 CL	HO, CL	1865	57	5.9	27.6	46.6	16700
Croplan	CP4909E	EX, NS	1841	56	6.7	27.9	45.0	18300
RAGT Semences	AC2101	HO, CL	1754	60	6.3	26.0	43.9	17800
Dyna-Gro Seed	H45HO10EX	HO, EX	1695	56	7.4	24.5	45.1	18100
USDA Check	HONEYCOMB NS	NS	1490	57	5.6	26.7	39.8	15700
Nuseed	N4H302 E	HO, EX	1456	57	5.8	26.4	44.5	18900
Dyna-Gro Seed	H42HO18CL	HO, CL	1425	58	7.3	26.7	42.7	14400
Proseed	E-50016 CL	HO, CP, DM	1275	54	6.3	25.6	43.7	13700
Trial Average			2083	59	6.9	27.3	44.8	18600
LSD (0.05)†			297	3	1.0	0.9	1.3	1300
C.V.‡			10.2	-	-	-	-	-

*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.