



2020 South Dakota Sunflower Variety Trial Results

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Location: Onida, Gettysburg, Ft. Pierre, Lantry, Presho

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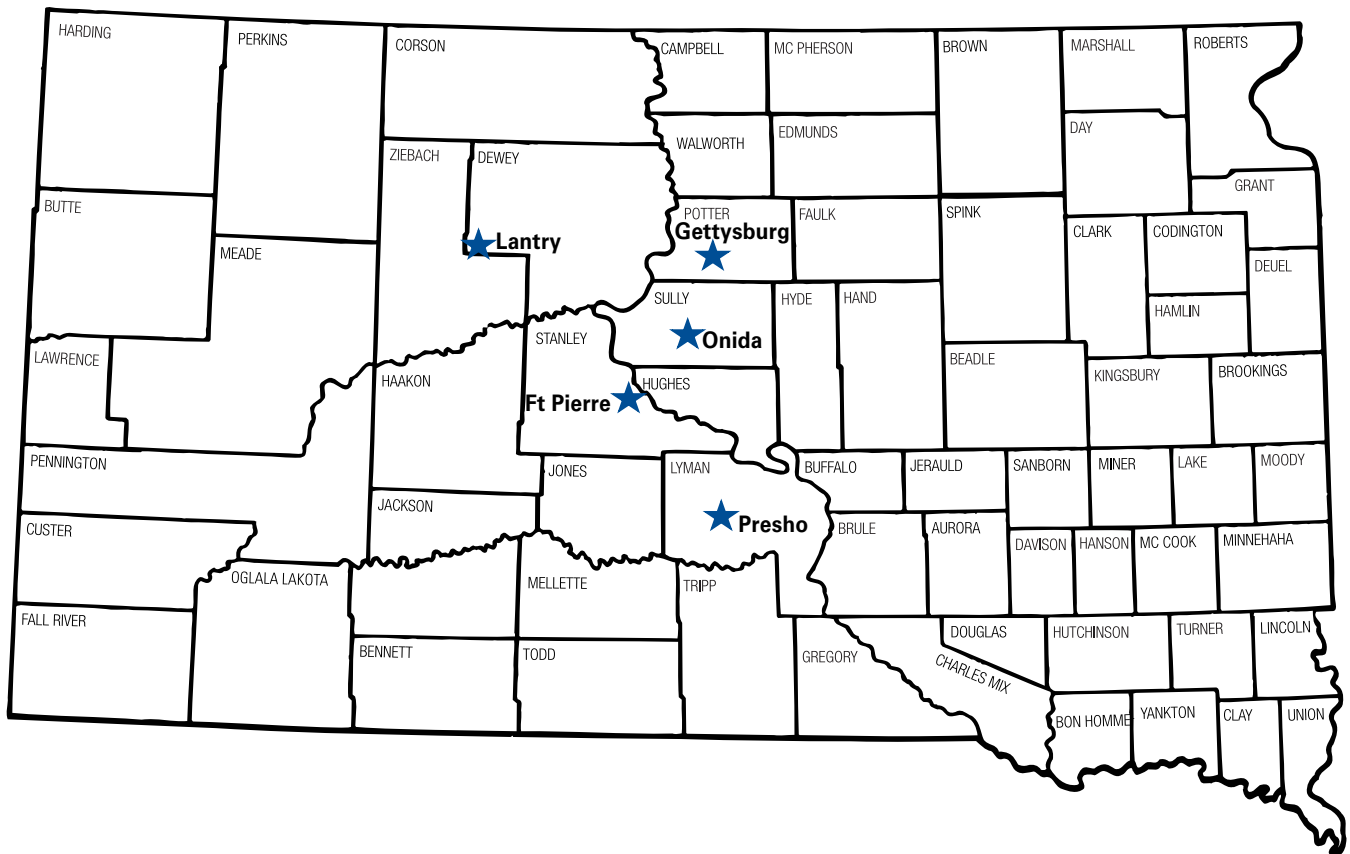


Table 1. Sunflower variety (oilseed) performance results (average of 4 replications) at Onida, SD.

Variety Information		Moisture (%)	Test Wt (lbs/ bu)	Yield (lbs/ ac@10%)	Oil (%)	Hulling
Brand	Hybrid					
Pioneer	P64HE101	11.73	33.66	3425.05	40.1	73.7
Pioneer	P64ME01	9.66	33.21	3076.85	40.2	69.3
NuSeed	Badger DMR	7.36	30.68	2342.62	33.8	83.5
NuSeed	N5LM307	9.59	30.45	2524.72	35.2	85.1
NuSeed	Hornet	9.94	32.68	3029.18	42.5	--
NuSeed	N4H422 CL	9.31	32.31	3000.03	39.9	--
NuSeed	N4H470 CL Plus	9.38	34.52	2834.69	42.4	--
NuSeed	N4H521 CL	9.73	32.35	3157.89	40.9	--
NuSeed	N4HM354	8.55	34.25	2922.87	43.1	--
NuSeed	N4H302 E	9.02	31.82	2795.32	40.6	--
NuSeed	Falcon	7.62	32.88	2944.27	40.0	--
NuSeed	Camaro II	7.99	34.67	2642.67	41.5	--
CROPLAN by WinField United	CP3845	6.34	33.09	3098.49	43.8	72.6
CROPLAN by WinField United	CP432E	6.65	31.29	2990.00	37.1	71.4
CROPLAN by WinField United	CP450E	8.15	32.86	3199.60	39.2	67.0
CROPLAN by WinField United	CP455E	9.55	34.67	3616.75	42.5	53.1
CROPLAN by WinField United	CP4909E	7.86	33.98	2793.06	40.3	74.9
CROPLAN by WinField United	CP545CL	10.91	32.68	3209.50	40.3	60.8
CROPLAN by WinField United	CPX7919CL	7.83	32.33	3080.41	39.0	66.2
CROPLAN by WinField United	CPX57919CLP	9.74	34.47	3436.95	41.8	68.0
CROPLAN by WinField United	CPX50120CL	9.82	32.86	2998.24	40.6	17.0
Agventure	AF3N692ES	10.70	33.01	3103.03	40.7	75.8
Agventure	AF3679HE	8.43	33.37	2856.60	41.4	--
Agventure	AF4740MC	12.90	33.38	3084.32	41.9	--
Agventure	AF4738HC	9.02	32.06	2460.65	41.3	--
Agventure	XF2640HC	9.95	32.37	2951.42	39.4	--
DynaGro	H45HO10EX	7.60	30.50	2663.25	40.6	--
DynaGro	H48HO15CL	10.78	31.50	3257.77	43.4	--
DynaGro	H49HO19CL	8.50	32.73	3227.55	42.2	--
DynaGro	H49NS14CL	10.42	33.91	3281.58	42.1	--
DynaGro	XH93H79CL	8.77	33.82	3170.23	42.7	--
DynaGro	XH91H54CL	11.18	33.40	3280.43	38.4	--
DynaGro	XH81H52CP	10.61	35.19	3008.01	42.7	--
DynaGro	XH00H57	7.51	32.17	2945.43	43.6	--
SunOpta	4415	7.45	32.36	3061.51	41.0	--
SunOpta	4425	6.56	30.96	2790.21	38.5	--

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

Variety Information		Moisture (%)	Test Wt (lbs/ bu)	Yield (lbs/ ac@10%)	Oil (%)	Hulling
Brand	Hybrid					
SunOpta	EX725	7.23	29.72	3356.11	39.0	--
S+W SEED	SF110	7.91	32.73	2747.81	39.6	--
S+W SEED	SF440	8.23	32.48	3071.37	41.5	--
Proseed	E-31	7.71	31.30	3070.11	38.2	--
Proseed	E-91 E	10.00	34.70	3301.04	42.4	--
Proseed	E-93 E	7.59	31.09	2631.33	39.7	--
Proseed	50016	7.53	30.85	3059.95	39.5	--
Proseed	12G25	7.93	32.48	2997.81	41.6	--
USDA	Check 894	7.18	32.38	2482.35	39.2	--
Royal Hybrid	20-EXP5	6.99	28.09	2975.62	38.1	83.5
Royal Hybrid	8D310CL	8.44	27.91	2354.80	32.7	94.6
P-value		0.012	0.000	0.642	0.516	0.1
C.V.‡		21.14	5.46	12.28	7.03	21.9
LSD (0.05)†		3.00	2.86	591.59	3.95	23.0

Planted: June 16, Harvested: November 4. Previous Crop: Wheat, Tillage: Strip Till, Row Spacing: 30", Population: 18,000

† 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.

Table 2. Sunflower variety (oilseed) performance results (average of 4 replications) at Gettysburg, SD.

Variety Information		Agronomic Performance						
Brand	Hybrid	Height (CM)	Moisture (%)	Test Wt (lbs/bu)	Yield (lbs/ac@10%)	Oil (%)	2 Year Yield	3 Year Yield
Pioneer	P64HE101	176	25.41	30.45	2934.50	40.10	2336.09	2386.93
Pioneer	P64ME01	176	18.75	27.88	2925.58	40.55	2580.36	--
NuSeed	Badger DMR	158	12.09	25.74	2713.45	38.53	1807.61	2000.71
NuSeed	N5LM307	176	16.05	26.95	2157.93	40.65	1827.96	2190.66
NuSeed	Hornet	150	23.22	29.55	1728.11	41.80	1833.94	2141.32
NuSeed	N4H422 CL	167	20.17	27.93	3063.19	41.25	--	--
NuSeed	N4H470 CL Plus	170	24.29	29.95	2600.15	44.63	1890.10	2241.17
NuSeed	N4H521 CL	155	20.56	27.80	2870.42	44.45	2511.36	2516.89
NuSeed	N4HM354	161	13.10	26.04	3073.59	43.35	2305.97	2441.88
NuSeed	N4H302 E	154	20.42	27.95	2764.66	39.80	2326.08	2449.66
NuSeed	Falcon	156	14.57	26.57	3121.34	43.00	2664.87	2483.61
NuSeed	Camaro II	164	23.60	29.51	2990.59	44.23	1912.83	2012.15
CSG	Kaledonia	165	14.54	26.05	2710.01	38.45	--	--
CROPLAN by WinField United	CP3845	151	16.72	27.55	2208.46	45.88	2002.63	2259.87
CROPLAN by WinField United	CP432E	161	16.55	27.55	2767.35	40.53	2239.04	2526.36
CROPLAN by WinField United	CP450E	159	20.59	28.43	1939.09	42.30	1732.28	2128.59
CROPLAN by WinField United	CP455E	176	24.81	29.97	2978.53	43.00	2185.58	2449.82
CROPLAN by WinField United	CP4909E	160	16.56	27.19	2840.78	42.33	2282.48	--
CROPLAN by WinField United	CP545CL	170	27.71	30.85	2884.83	41.95	2303.85	2563.65
CROPLAN by WinField United	CPX7919CL	164	24.79	29.38	2891.52	44.35	--	--
CROPLAN by WinField United	CPX57919CLP	161	20.45	28.89	3578.98	44.05	2998.95	--
CROPLAN by WinField United	CPX50120CL	181	21.80	28.52	3365.60	42.55	--	--
Agventure	AF3N692ES	181	20.99	28.58	3317.41	43.78	2709.66	2540.13
Agventure	AF3679HE	173	13.56	26.31	2871.75	44.18	2240.73	--
Agventure	AF4740MC	170	26.76	30.59	3378.33	43.13	2710.13	--
Agventure	AF4738HC	162	20.22	28.22	2994.92	42.68	2534.50	--
Agventure	XF2640HC	169	20.35	29.01	2938.59	43.80	--	--
DynaGro	H49NS14CL	159	26.56	31.32	2829.34	42.93	2067.54	--
DynaGro	XH93H79CL	172	21.50	28.16	2590.48	43.78	--	--
DynaGro	XH91H54CL	183	24.45	29.33	2998.03	42.33	--	--
DynaGro	XH81H52CP	169	25.58	30.82	3168.73	44.05	--	--
DynaGro	XH00H57	161	22.39	29.14	2541.64	43.80	--	--
S+W SEED	SF110	168	17.57	26.31	3037.13	40.83	--	--

Table 2. Sunflower variety (oilseed) performance results (average of 4 replications) at Gettysburg, SD, continued.

Variety Information		Agronomic Performance						
Brand	Hybrid	Height (CM)	Moisture (%)	Test Wt (lbs/bu)	Yield (lbs/ac@10%)	Oil (%)	2 Year Yield	3 Year Yield
S+W SEED	SF440	160	17.61	27.83	3132.46	43.38	--	--
Proseed	E-31	175	12.29	25.55	2820.30	39.50	1864.66	2006.53
Proseed	E-91 E	188	14.13	26.42	2278.44	41.46	1933.96	--
Proseed	E-93 E	187	14.80	26.26	3192.45	42.43	--	--
Proseed	50016	160	16.09	27.34	1965.10	42.05	--	--
Proseed	12G25	156	17.79	28.08	2830.40	43.60	--	--
USDA	Check 894	158	16.57	27.39	2843.75	41.10	2235.66	2252.81
Royal Hybrid	20-EXP5	157	15.85	26.50	2413.34	43.38	--	--
Royal Hybrid	8D310CL	162	16.21	26.89	2164.02	40.33	--	--
P-Value		0.442	0.129	0.210	0.925	0.178	0.646	0.911
C.V.‡		12.11	26.43	6.20	17.58	5.94	33.67	29.46
LSD (0.05)†		28.08	7.19	2.82	794.20	3.52	857.24	600.69

Planted: June 17, Harvested: November 5. Previous Crop: Corn, Tillage: Strip Till, Row Spacing: 30", Population: 18,000

† 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.

Table 6. Sunflower variety (non-oils) performance results (average of 4 replications) at Onida, SD.

Variety Information		Agronomic Performance		
Brand	Hybrid	Moisture (%)	Test Wt (lbs/bu)	Yield (lbs/ac@10%)
NuSeed	LD5009	11.03	22.03	2595.51
RRC	2414	11.59	20.84	2232.93
RRC	2319	10.49	19.64	2387.43
RRC	2310	10.38	21.44	2596.99
SunOpta	9583CLP	11.48	22.39	3362.85
SunOpta	EXSS90	9.95	21.23	2626.56
CHS	Rh1121	8.88	21.37	2491.03
CHS	RH609CLP	8.12	21.95	2551.76
CHS	20-EXp3	9.64	22.15	2990.66
CHS	15-EXpo2	10.31	20.92	2226.32
USDA	Check	10.14	21.90	2270.54
P-Value		0.074	0.370	0.781
C.V.‡		16.84	6.11	18.38
LSD (0.05)†		2.85	2.18	788.42

Planted: June 16, Harvested: November 4. Previous Crop: Wheat, Tillage: Strip Till, Row Spacing: 30", Population: 18,000

† 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.