

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	--	--
<b>P-Value</b>		0.442	0.129	0.210	0.925	0.178	0.646	0.911
<b>C.V.‡</b>		12.11	26.43	6.20	17.58	5.94	33.67	29.46
<b>LSD (0.05)†</b>		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.