

Table 5. 2019 Sunflower variety (oilseed) performance trial results for Presho, South Dakota.

Entry	Brand	Hybrid	Harvest moisture (%)	Test Weight (lb/bu)	Yield (lb/A)	Oil content	Plant Height (inch)	Hulling test (%)	2-year Yield (Avg.)
1	Pioneer	P64HE101	11.9	30.4	2105.7	39.2	51.5	92.0	2085.2
2	Pioneer	P64ME01	11.7	30.8	2206.0	40.1	51.9	94.1	
3	Proseed	E-21 CL	10.5	25.6	1069.2	38.0	55.8	96.4	1416.5
4	Proseed	E-31 CL	11.1	24.6	1601.2	38.6	51.1	96.1	2008.2
5	Proseed	E-362436	11.2	24.9	1213.9	37.0	68.3	84.7	1694.7
6	Proseed	E-91 E	10.6	23.6	1436.0	37.8	51.9	76.7	
7	Proseed	E-92 E	10.8	27.3	1688.4	41.7	62.4	60.8	
8	SunOpta	4425CL	10.9	27.4	1746.9	37.6	54.6		1893.9
9	SunOpta	4415 HO/CLP/DM	11.2	28.3	1633.9	41.0	50.7		2004.0
10	SunOpta	EX725	11.1	23.1	1490.7	40.4	66.7		1725.8
11	Dyna-Gro	H45NS16CL	10.7	27.2	1844.1	40.5	62.0		2384.6
12	Dyna-Gro	H48HO15CL	11.0	26.0	1722.9	44.2	60.8		1906.7
13	Dyna-Gro	H49HO19CL	11.6	28.7	2318.6	43.7	59.3		2309.1
14	Dyna-Gro	H49NS14CL	12.0	29.5	1871.7	39.6	64.4		2044.1
15	Winfield	CP3845	10.8	28.7	1584.9	45.4	58.9	82.0	2023.7
16	Winfield	CP432E	10.1	20.4	1266.3	29.7	63.6	68.6	1855.0
17	Winfield	CP450E	10.6	26.9	1440.9	38.3	53.4	70.1	1940.4
18	Winfield	CP455E	10.8	26.9	1655.2	38.6	57.7		1906.1
19	Winfield	CP4909E	11.4	28.1	1804.5	41.9	49.9	93.1	
20	Winfield	CP545CL	12.3	32.8	2214.3	42.0	63.6	90.4	2196.6
21	Winfield	CPX40419E	10.7	25.5	1498.5	44.4	58.1	80.9	
22	Winfield	CPX57919CLP	10.8	23.4	1508.6	41.0	59.3	91.7	
23	Winfield	CPX59619CLP	11.3	29.1	1980.5	44.4	58.5		
24	Mission Seed Solutions	3N692	11.1	29.7	2052.1	41.9	49.9		2210.2
25	Mission Seed Solutions	AF4H95CD	11.5	30.4	2055.3	44.1	49.5		2348.5
26	Mission Seed Solutions	AF4740MC	12.4	29.9	2093.1	42.0	50.3		
27	Mission Seed Solutions	AF4738HC	11.1	25.9	1867.5	42.4	58.5		
28	Mission Seed Solutions	AF3679HE	10.7	27.2	1596.6	42.4	62.4		
29	Mission Seed Solutions	AF2690HC	10.8	29.4	1499.3	42.5	58.9		
30	NuSeed	N4H470 CL Plus	11.6	28.3	2043.1	45.5	63.6		2324.6
31	NuSeed	N4H302 E	11.0	25.6	1479.3	40.6	62.4		1872.7
32	NuSeed	N4H521 CL	11.6	28.6	2120.0	44.2	59.3		2271.5
33	NuSeed	Hornet	11.9	29.1	2107.9	44.9	62.8		2219.2
34	NuSeed	N4HM354	11.0	27.2	1913.6	41.9	50.3		2172.7
35	NuSeed	Falcon	11.2	30.4	2038.0	41.4	56.9		2198.3
36	NuSeed	Camaro II	11.5	30.2	1959.2	41.1	56.6		2314.3
37	NuSeed	N5LM307	10.9	30.6	1155.2	33.0	64.4	86.2	1731.5
38	NuSeed	Badger DMR	10.4	23.7	1364.0	34.5	53.8	88.4	1538.1
39	CHS	Allegiant 65H81CL	10.0	22.9	1256.1	41.4	55.8		1734.0
40	CHS	Allegiant 70H51CL	10.3	22.8	1266.8	44.2	57.3		1897.4
41	USDA	Check	10.2	23.3	1315.8	39.1	58.1		1682.8
	LSD @ .05 †		0.74		415.42	3.17	5.69	17.56	525.56
	CV ‡		4.78		17.36	5.56	15.2	9.78	26.89
	P-Value		<0.001		<0.001	<0.001	<0.001	0.01	0.00

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† Value required (\geq LSD) to determine if varieties are significantly different from one another.									
‡ C.V. is a measure of variability or experimental error, 20% or less is considered acceptable.									
2-year yield data was not available for all varieties									