2019 South Dakota Sunflower Variety Trial Results Fort Pierre

Table 3. 2019 Sunflower variety (oilseed) performance trial results for Fort Pierre, South Dakota.

Entry	Brand	Hybrid	Harvest Moisture (%)	Yield (lb/A)	Test Weight (lb/bu)	Oil content	Plant Height (inch)	2-year Yield (Avg.)
1	Pioneer	P64HE101	13.4	1880.1	32.2	38.2	51.9	1867.0
2	Pioneer	P63HE90	12.8	1625.5	26.5	40.2	59.7	1694.6
3	Pioneer	P64ME01	12.7	1782.1	27.0	38.8	62.4	
4	Proseed	E-21 CL	12.1	720.1	24.2	35.8	55.8	1111.6
5	Proseed	E-31 CL	12.2	1407.8	25.1	35.1	65.1	1776.6
6	Proseed	E-362436	12.6	1320.4	26.7	36.1	49.9	1631.2
7	Proseed	E-91 E	12.3	1315.0	20.9	36.6	59.7	
8	Proseed	E-92 E	12.1	1035.3	23.4	38.2	61.2	
9	Winfield	CP3845	12.3	1532.7	29.5	40.8	68.6	1700.5
10	Winfield	CP432E	11.7	1079.4	21.6	33.9	59.7	1843.6
11	Winfield	CP450E	12.8	1675.7	27.5	38.9	55.8	1783.1
12	Winfield	CP455E	12.3	1285.1	23.5	40.3	60.1	1771.0
13	Winfield	CP4909E	12.1	1698.9	35.3	38.7	74.1	
14	Winfield	CP545CL	13.2	1915.4	32.3	42.1	53.0	1853.6
15	Winfield	CPX40419E	12.8	1521.9	23.5	41.2	72.2	
16	Winfield	CPX57919CLP	12.8	1693.4	29.4	39.0	60.1	
17	Winfield	CPX59619CLP	12.7	1862.5	32.0	40.5	62.4	
18	Mission Seed Solutions	3N692	12.4	2041.3	30.7	41.6	64.0	2078.0
19	Mission Seed Solutions	AF4H95CD	13.0	1560.3	29.5	41.7	56.6	1794.7
20	Mission Seed Solutions	AF4740MC	12.8	1608.2	28.3	40.8	64.0	
21	Mission Seed Solutions	AF4738HC	12.8	1451.6	30.5	41.1	67.1	
22	Mission Seed Solutions	AF3679HE	12.6	1480.9	27.4	38.8	52.7	
23	Mission Seed Solutions	AF2690HC	11.9	1778.7	30.7	43.7	66.3	
24	NuSeed	N4H470 CL Plus	11.9	1549.0	29.7	44.3	63.2	1880.3
25	NuSeed	N4H302 E	11.2	1299.6	28.6	40.3	60.8	1681.5
26	NuSeed	N4H521 CL	12.5	1193.3	22.4	40.0	57.3	1810.5
27	NuSeed	Hornet	13.0	1663.8	31.7	41.8	59.3	1778.5
28	NuSeed	N4HM354	11.4	1071.5	25.7	42.3	60.8	1660.5
29	NuSeed	Falcon	11.9	1363.0	29.6	39.9	50.7	1631.8
30	NuSeed	Camaro II	11.9	1018.0	16.4	40.9	49.1	1626.6
31	NuSeed	N5LM307	12.7	1108.7	22.9	31.7	60.1	1607.3
32	NuSeed	Badger DMR	12.2	1538.7	25.9	33.4	53.0	1658.8
33	USDA	Check	12.2	1184.4	24.8	37.0	64.7	1448.4
LSD @ .05 †			0.78	366.92	7.38	3.73		496.40
CV ‡			4.50	15.39	17.038	6.78		27.74
P-Value			< 0.001	< 0.001	<0.001	0.194		0.153

† Value required (≥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

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