

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.