South Dakota State University Extension

# 2022 South Dakota Sunflower Hybrid Trial Results Reliance

Table 1a. Sunflower oilseed hybrid performance results (average of 4 replications) at Reliance, SD.

| Hybrid Information | | | Agronomic Performance | | | | | |
|---|---|---|---|---|---|---|---|---|
| Brand | Hybrid | Type* | Yield (lbs/ac) (@10%) | Height (inches) | Moisture (%) | Test Weight (lbs/bu) | Oil % (@10%) | Harvest Population (plants/ac) |
| Dyna-Gro Seed | H50HO20CP | HO, CP | **2616** | 59 | 7.7 | 29.2 | 48.2 | 20700 |
| Croplan | CP545CL | CL, NS, DM | **2586** | 58 | 8.7 | 28.1 | 46.0 | 18100 |
| Croplan | CP455E | EX, HO, DM | **2537** | 58 | 6.9 | 27.0 | 45.0 | 18200 |
| Nuseed | N4H521 CL | HO, CL, DM | **2535** | 58 | 9.3 | 27.0 | 46.8 | 18800 |
| Proseed | EXP 2300 CL | HO, CP, DM | **2449** | 63 | 7.7 | 28.4 | 44.8 | 17000 |
| AgVenture | AF3682HE | HO, EX | **2448** | 61 | 7.8 | 28.2 | 45.2 | 18200 |
| Proseed | EXP 2346-E | HO, EX, DM | **2428** | 63 | 6.5 | 26.0 | 44.6 | 17100 |
| Sunrich Products | GP25 | CL, CO | **2397** | 61 | 6.4 | 26.6 | 39.4 | 17700 |
| RAGT Semences | AC2202 | HO, IMI | **2384** | 65 | 7.9 | 28.6 | 47.0 | 19200 |
| AgVenture | AF3679HE | HO, EX, DM | **2352** | 60 | 7.0 | 27.6 | 46.3 | 21400 |
| Nuseed | N4H422 CL | HO, CL, DM | **2325** | 64 | 7.8 | 28.0 | 45.0 | 20300 |
| Pioneer | P64HE101 | HO, EX, DM | 2315 | 60 | 8.2 | 27.3 | 44.6 | 19900 |
| Sunrich Products | 4425 CL | CL, CO | 2282 | 64 | 7.1 | 26.0 | 39.9 | 19300 |
| Proseed | E-91 E | HO, EX, DM | 2267 | 63 | 7.6 | 29.6 | 43.3 | 16500 |
| Nuseed | N4H470 CLP | HO, CP, DM | 2264 | 60 | 7.3 | 28.3 | 47.6 | 21500 |
| AgVenture | AF3N692ES | NS, EX | 2243 | 59 | 6.9 | 26.5 | 45.7 | 18400 |
| Dyna-Gro Seed | H45NS16CL | NS, CL | 2165 | 58 | 6.4 | 27.8 | 45.9 | 18200 |
| Dyna-Gro Seed | H49NS14CL | NS, CL | 2165 | 53 | 8.8 | 27.7 | 45.9 | 15700 |
| RAGT Semences | AC2201 | HO, IMI | 2154 | 65 | 6.2 | 28.2 | 44.6 | 20400 |
| USDA Check | HYBRID 894 | - | 2130 | 60 | 5.6 | 26.8 | 44.6 | 20300 |
| Dyna-Gro Seed | XH22H66EX | HO, EX | 2117 | 59 | 7.1 | 27.7 | 46.5 | 20900 |
| Croplan | CP3845 | Trad, HO | 2057 | 55 | 7.0 | 28.8 | 48.1 | 15100 |
| Pioneer | P63HE920 | HO, EX, DM | 2057 | 56 | 6.9 | 29.9 | 44.9 | 20700 |
| Croplan | CP450E | EX, HO, DM | 2041 | 56 | 6.1 | 25.9 | 44.6 | 17600 |
| Dyna-Gro Seed | XH82H65EX | HO, EX | 2011 | 62 | 6.2 | 27.2 | 45.9 | 19200 |
| Dyna-Gro Seed | H49HO19CL | HO, CL | 1993 | 60 | 6.4 | 26.6 | 44.9 | 19100 |
| Croplan | CP432E | EX, NS, DM | 1939 | 55 | 5.4 | 26.4 | 41.8 | 19800 |
| Sunrich Products | 4415 HO/DM/CLP | HO, DM, CP | 1926 | 61 | 5.7 | 25.8 | 42.2 | 18400 |
| | | **Trial Average** | 2083 | 59 | 6.9 | 27.3 | 44.8 | 18600 |
| | | **LSD (0.05)†** | 297 | 3 | 1.0 | 0.9 | 1.3 | 1300 |
| | | **C.V.‡** | 10.2 | - | - | - | - | - |

*Type: NuSun = NS; Traditional =Trad; High Oleic = HO; Clearfield (IMI) = CL; Clearfield Plus (IMI) = CP; Conoil = CO; ExpressSun (SU) = EX; Downy Mildew Resistant = DM; Rust Resistant = Rust.

† Yield or moisture value required (≥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.

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# 2022 South Dakota Sunflower Hybrid Trial Results Reliance

Table 1b. Sunflower oilseed hybrid performance results, continued (average of 4 replications) at Reliance, SD.

| Hybrid Information | | Agronomic Performance | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Brand | Hybrid | Type* | Yield (lbs/ac) (@10%) | Height (inches) | Moisture (%) | Test Weight (lbs/bu) | Oil % (@10%) | Harvest Population (plants/ac) |
| Nuseed | FALCON | NS, EX | 1900 | 53 | 6.2 | 28.1 | 47.2 | 19300 |
| AgVenture | AF3691HC | HO, CL, DM | 1894 | 63 | 6.3 | 27.1 | 45.4 | 20900 |
| Croplan | CP7919CL | CL, HO, DM | 1894 | 56 | 7.4 | 27.0 | 45.8 | 20400 |
| Nuseed | NHKE04490 | - | 1883 | 62 | 6.9 | 27.6 | 45.3 | 21600 |
| Dyna-Gro Seed | H47HO11EX | HO, EX | 1875 | 62 | 7.2 | 27.8 | 44.2 | 17000 |
| Proseed | 12G25 CL | HO, CL | 1865 | 57 | 5.9 | 27.6 | 46.6 | 16700 |
| Croplan | CP4909E | EX, NS | 1841 | 56 | 6.7 | 27.9 | 45.0 | 18300 |
| RAGT Semences | AC2101 | HO, CL | 1754 | 60 | 6.3 | 26.0 | 43.9 | 17800 |
| Dyna-Gro Seed | H45HO10EX | HO, EX | 1695 | 56 | 7.4 | 24.5 | 45.1 | 18100 |
| USDA Check | HONEYCOMB NS | NS | 1490 | 57 | 5.6 | 26.7 | 39.8 | 15700 |
| Nuseed | N4H302 E | HO, EX | 1456 | 57 | 5.8 | 26.4 | 44.5 | 18900 |
| Dyna-Gro Seed | H42HO18CL | HO, CL | 1425 | 58 | 7.3 | 26.7 | 42.7 | 14400 |
| Proseed | E-50016 CL | HO, CP, DM | 1275 | 54 | 6.3 | 25.6 | 43.7 | 13700 |
| | | **Trial Average** | 2083 | 59 | 6.9 | 27.3 | 44.8 | 18600 |
| | | **LSD (0.05)†** | 297 | 3 | 1.0 | 0.9 | 1.3 | 1300 |
| | | **C.V.‡** | 10.2 | - | - | - | - | - |

*Type: NuSun = NS; Traditional =Trad; High Oleic = HO; Clearfield (IMI) = CL; Clearfield Plus (IMI) = CP; Conoil = CO; ExpressSun (SU) = EX; Downy Mildew Resistant = DM; Rust Resistant = Rust.

† Yield or moisture value required (≥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.