



## 2022 South Dakota Sunflower Hybrid Trial Results Onida

**SOUTH DAKOTA STATE  
UNIVERSITY EXTENSION**

Table 1a. Sunflower oilseed hybrid performance results (average of 4 replications) at Onida, 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) |
| Pioneer Dairyland Seed | P64HE101   | HO, EX, DM            | <b>3515</b>           | 65              | 9.3          | 28.1                 | 42.4         | 21900                          |
| Nuseed                 | D687HO     | EX, HO                | <b>3479</b>           | 64              | 9.2          | 28.7                 | 43.2         | 21000                          |
| Croplan                | N4H521 CL  | HO, CL, DM            | <b>3475</b>           | 64              | 9.3          | 27.0                 | 45.5         | 22700                          |
|                        | CP455E     | EX, HO, DM            | <b>3468</b>           | 66              | 9.0          | 28.3                 | 45.3         | 22100                          |
| Pioneer                | P63HE920   | HO, EX, DM            | <b>3413</b>           | 66              | 9.4          | 30.1                 | 42.4         | 21200                          |
| Ag Venture             | AF3679HE   | HO, EX, DM            | <b>3404</b>           | 64              | 9.1          | 28.5                 | 42.0         | 19100                          |
| Dyna-Gro Seed          | H49NS14CL  | NS, CL                | <b>3367</b>           | 64              | 9.5          | 28.2                 | 42.9         | 20100                          |
| Sunrich Products       | 4425 CL    | CL, CO                | <b>3358</b>           | 69              | 8.9          | 27.7                 | 40.0         | 20900                          |
| Croplan                | CP450E     | EX, HO, DM            | <b>3338</b>           | 65              | 8.8          | 27.1                 | 43.1         | 23300                          |
| RAGT Semences          | AC2201     | HO, IMI               | <b>3323</b>           | 69              | 9.1          | 29.1                 | 43.1         | 22200                          |
| Dyna-Gro Seed          | XH82H65EX  | HO, EX                | 3180                  | 69              | 8.8          | 28.5                 | 43.6         | 18200                          |
| Croplan                | CP7919CL   | CL, HO, DM            | 3166                  | 65              | 9.1          | 27.3                 | 45.4         | 21500                          |
| Dyna-Gro Seed          | H49HO19CL  | HO, CL                | 3162                  | 65              | 9.0          | 27.2                 | 43.3         | 22700                          |
| Proseed                | EXP 2346-E | HO, EX, DM            | 3160                  | 70              | 9.3          | 27.4                 | 42.9         | 20900                          |
| Croplan                | CP545CL    | CL, NS, DM            | 3133                  | 65              | 9.3          | 28.8                 | 44.4         | 22900                          |
| Croplan                | CP4909E    | EX, NS                | 3107                  | 62              | 8.9          | 29.1                 | 42.5         | 22500                          |
| Dyna-Gro Seed          | XH22H66EX  | HO, EX                | 3097                  | 63              | 9.0          | 28.5                 | 43.7         | 22300                          |
| RAGT Semences          | AC2101     | HO, CL                | 3094                  | 62              | 8.5          | 25.3                 | 42.7         | 18800                          |
| Nuseed                 | N4H470 CLP | HO, CO, CLP           | 3087                  | 67              | 9.0          | 27.9                 | 46.5         | 22700                          |
| Croplan                | CP3845     | Trad, HO              | 3084                  | 58              | 8.6          | 27.8                 | 45.5         | 18300                          |
| Ag Venture             | AF3682HE   | HO, EX                | 3082                  | 64              | 9.3          | 28.9                 | 42.7         | 22100                          |
| Dyna-Gro Seed          | H47HO11EX  | HO, EX                | 3078                  | 68              | 9.3          | 29.7                 | 41.5         | 21500                          |
| Proseed                | 12G25 CL   | HO, CL                | 3077                  | 62              | 8.8          | 28.0                 | 45.4         | 21100                          |
| Proseed                | E-91 E     | HO, EX, DM            | 3051                  | 67              | 9.3          | 29.1                 | 41.8         | 19100                          |
| Dairyland Seed         | D690MO     | EX, DM                | 3027                  | 66              | 8.9          | 27.8                 | 44.1         | 20700                          |
| Ag Venture             | AF3N692ES  | NS, EX                | 3010                  | 69              | 9.1          | 28.5                 | 44.9         | 21800                          |
| Sunrich Products       | GP25       | CL, CO                | 2989                  | 66              | 8.9          | 27.0                 | 39.2         | 18900                          |
| Ag Venture             | AF3691HC   | HO, CL, DM            | 2980                  | 69              | 8.9          | 28.2                 | 43.0         | 23100                          |
| <b>Trial Average</b>   |            |                       | 2965                  | 66              | 9.0          | 27.7                 | 42.7         | 21100                          |
| <b>LSD (0.05)†</b>     |            |                       | 211                   | 5.6             | 0.2          | 0.9                  | 1.3          | 1300                           |
| <b>C.V.‡</b>           |            |                       | 5.1                   | -               | -            | -                    | -            | -                              |

\*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 ( $\geq$ 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.



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Table 1b. Sunflower oilseed hybrid performance results, continued (average of 4 replications) at Onida, 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) |
| Sunrich Products     | 4415 HO/DM/CLP | HO, DM, CLP           | 2959                  | 65              | 8.8          | 26.8                 | 42.8         | 22000                          |
| Nuseed               | FALCON         | NS, EX                | 2954                  | 61              | 8.8          | 28.4                 | 44.6         | 22200                          |
| Dyna-Gro Seed        | H50HO20CP      | HO, CP                | 2952                  | 67              | 9.1          | 29.0                 | 45.3         | 21400                          |
| Proseed              | E-50016 CL     | HO, CO, DM            | 2938                  | 63              | 8.8          | 27.4                 | 42.2         | 18600                          |
| Nuseed               | N4H422 CL      | HO, CL, DM            | 2887                  | 72              | 9.0          | 28.1                 | 43.4         | 21500                          |
| Nuseed               | NHKE04490      | -                     | 2828                  | 68              | 9.0          | 28.4                 | 43.8         | 23100                          |
| Sunrich Products     | SS91           | CO                    | 2818                  | 71              | 9.2          | 22.5                 | 32.6         | 20200                          |
| Croplan              | CP432E         | EX, NS, DM            | 2797                  | 62              | 8.8          | 27.6                 | 38.6         | 22200                          |
| RAGT Semences        | AC2202         | HO, IMI               | 2718                  | 68              | 9.1          | 29.1                 | 44.1         | 17600                          |
| Proseed              | EXP 2300 CL    | HO, CP, DM            | 2669                  | 71              | 9.1          | 28.3                 | 43.1         | 20900                          |
| Dyna-Gro Seed        | H45NS16CL      | NS, CL                | 2640                  | 62              | 8.8          | 29.0                 | 45.2         | 22300                          |
| USDA Check           | HYBRID 894     | -                     | 2513                  | 66              | 8.8          | 26.8                 | 43.1         | 17000                          |
| Dyna-Gro Seed        | H42HO18CL      | HO, CL                | 2486                  | 63              | 9.0          | 29.0                 | 43.8         | 22800                          |
| Dyna-Gro Seed        | XH81N62EX      | HO, EX                | 2474                  | 66              | 9.1          | 28.8                 | 41.7         | 23500                          |
| Dyna-Gro Seed        | XH21H58CL      | HO, CL                | 2367                  | 61              | 8.5          | 25.8                 | 44.6         | 22200                          |
| Dyna-Gro Seed        | H45HO10EX      | HO, EX                | 2270                  | 66              | 8.6          | 26.0                 | 42.9         | 20800                          |
| Sunrich Products     | SS90           | CO                    | 2205                  | 68              | 8.8          | 23.4                 | 31.8         | 18500                          |
| Nuseed               | N4H302 E       | HO, EX                | 2183                  | 65              | 8.6          | 25.7                 | 43.5         | 21100                          |
| USDA Check           | HONEYCOMB NS   | NS                    | 1993                  | 62              | 8.7          | 25.6                 | 37.4         | 20400                          |
| <b>Trial Average</b> |                |                       | 2965                  | 66              | 9.0          | 27.7                 | 42.7         | 21100                          |
| <b>LSD (0.05)†</b>   |                |                       | 211                   | 5.6             | 0.2          | 0.9                  | 1.3          | 1300                           |
| <b>C.V.‡</b>         |                |                       | 5.1                   | -               | -            | -                    | -            | -                              |

\*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 ( $\geq$ LSD) to determine if varieties are significantly different from one another.

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