

**NDSU Langdon Research Extension Center
2022 Oil Sunflower Trial**

Oil Sunflower **Langdon (Page 1-2)**

| Brand | Hybrid | Hybrid Type ¹ | Days to Flower (DAP) ² | Days to PM (DAP) ² | Plant Height (inch) | Test Oil (%) | Harvest Weight (lb/bu) | Harvest Moist. (%) | Yield | |
|----------|------------|--------------------------|--------------------------------------|----------------------------------|------------------------|-----------------|---------------------------|-----------------------|-------|------------------------|
| | | | | | | | | | 2022 | 2-yr Avg. ⁵ |
| Croplan | CP3845 | HO,CONV | 74 | 112 | 63 | 46.2 | 31.2 | 8.5 | 2469 | 2869 |
| Croplan | CP432E | NS,EX,DMR | 71 | 113 | 59 | 43.6 | 31.6 | 9.3 | 2989 | 3201 |
| Croplan | CP450E | HO,EX,DMR | 76 | 119 | 62 | 45.2 | 31.0 | 13.1 | 2589 | 3187 |
| Croplan | CP455E | HO,EX,DMR | 74 | 116 | 64 | 44.9 | 31.2 | 10.6 | 2814 | 3120 |
| Croplan | CP4909E | NS,EX | 76 | 114 | 58 | 45.4 | 32.9 | 10.8 | 2621 | 2911 |
| Croplan | CP545CL | NS,CL,DMR | 75 | 116 | 55 | 44.6 | 31.6 | 18.5 | 2574 | 2980 |
| Croplan | CP7919CL | HO,CL,DMR | 75 | 117 | 62 | 48.2 | 29.7 | 18.0 | 2630 | -- |
| Dyna-Gro | H42HO18CL | HO,CL | 73 | 116 | 54 | 45.7 | 32.7 | 9.9 | 2650 | 2929 |
| Dyna-Gro | H45HO10EX | HO,EX | 73 | 113 | 58 | 44.4 | 28.1 | 10.5 | 2437 | 2836 |
| Dyna-Gro | H45NS16CL | NS,CL | 72 | 112 | 54 | 47.4 | 33.9 | 9.4 | 3045 | 3331 |
| Dyna-Gro | H47HO11EX | HO,EX | 75 | 115 | 69 | 43.5 | 32.9 | 13.6 | 2534 | -- |
| Dyna-Gro | H49HO19CL | HO,CL | 77 | 116 | 58 | 45.8 | 29.3 | 14.0 | 2734 | 3129 |
| Dyna-Gro | H49NS14CL | NS,CL | 77 | 115 | 57 | 46.1 | 31.3 | 16.3 | 2456 | -- |
| Dyna-Gro | H50HO20CP | HO,CP | 76 | 116 | 59 | 47.6 | 31.6 | 15.1 | 2533 | -- |
| Nuseed | Falcon | NS,EX | 76 | 112 | 56 | 46.3 | 32.1 | 10.6 | 2550 | 2753 |
| Nuseed | N4H302 E | HO,EX | 73 | 112 | 58 | 44.3 | 27.9 | 10.6 | 2550 | 2814 |
| Nuseed | N4H422 CL | HO,CL,DMR | 73 | 114 | 61 | 44.5 | 30.1 | 11.1 | 2720 | 2940 |
| Nuseed | N4H470 CLP | HO,CP,DMR | 76 | 117 | 56 | 48.4 | 31.6 | 15.4 | 2409 | 2766 |
| Pioneer | P63HE501 | HO,EX,DMR | 75 | 113 | 58 | 38.1 | 29.9 | 9.8 | 2009 | 2651 |
| Pioneer | P63HE920 | HO,EX,DMR | 75 | 114 | 61 | 42.2 | 32.6 | 12.4 | 2618 | -- |

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| Brand | Hybrid | Hybrid Type ¹ | Days to Flower (DAP) ² | Days to PM (DAP) ² | Plant Height (inch) | Test Oil (%) | Harvest Weight (lb/bu) | Harvest Moist. (%) | Yield | |
|------------|------------------------|--------------------------|--------------------------------------|----------------------------------|------------------------|-----------------|---------------------------|-----------------------|-------|------------------------|
| | | | | | | | | | 2022 | 2-yr Avg. ⁵ |
| Proseed | 12G25 CL | HO,CL | 73 | 113 | 62 | 45.2 | 30.9 | 10.3 | 2925 | 3006 |
| Proseed | 50016 CL | HO,CP,DMR | 75 | 116 | 64 | 44.9 | 30.4 | 11.3 | 2633 | 2719 |
| Proseed | E-91 E | HO,EX,DMR | 76 | 113 | 71 | 45.9 | 31.9 | 10.1 | 2622 | 2918 |
| RAGT | AC2101 | HO,CP,DMR | 74 | 114 | 65 | 42.8 | 29.0 | 11.3 | 2483 | -- |
| RAGT | AC2201 | HO,CL,DMR | 75 | 116 | 65 | 45.4 | 31.6 | 12.3 | 2795 | -- |
| Sunrich | 4415 | HO,CP,DMR | 74 | 115 | 62 | 43.0 | 28.5 | 11.0 | 2651 | -- |
| Sunrich | 4425 CL | MO,CL,CON | 74 | 111 | 67 | 40.4 | 30.4 | 8.6 | 2768 | -- |
| USDA | 894 ³ | Trad | 73 | 114 | 56 | 45.0 | 31.4 | 10.0 | 2797 | 2930 |
| Mat Check | HoneyComb ⁴ | NS | 64 | 101 | 53 | 40.9 | 30.6 | 7.8 | 2489 | 2787 |
| Mat Check | 8N270 ⁴ | NS,CL,DM | 68 | 107 | 57 | 44.7 | 32.4 | 8.5 | 2008 | 2546 |
| Mat Check | 559CL ⁴ | NS,CL,DM | 76 | 115 | 67 | 46.7 | 30.2 | 9.3 | 2637 | 3018 |
| Trial Mean | | | 74 | 114 | 61 | 44.5 | 30.9 | 11.5 | 2584 | -- |
| C.V. % | | | 0.8 | 0.9 | 2.3 | 2.0 | 2.3 | 10.1 | 9.3 | -- |
| LSD 5% | | | 0.6 | 1.1 | 1.5 | 1.0 | 0.7 | 1.3 | 256 | -- |
| LSD 10% | | | 0.8 | 1.3 | 1.9 | 1.2 | 0.8 | 1.5 | 307 | -- |

Planting Date: May 27

Harvest Date: October 20

Previous Crop: Wheat

Soil Type: Svea-Barnes loam

¹Type: HO = High Oleic, NS = NuSun, MO = Mid Oleic, Trad = Traditional(linoleic), CL = Clearfield, EX= ExpressSun, CP = Clearfield plus, DMR = Downy Mildew Resistant, CON=ConOil, MO=Mid-Oleic

²Days after planting, ³Long-term hybrid check, ⁴Early, mid, and late maturity check.

⁵2-yr yield average includes 2020 and 2022.