

**NDSU Carrington Research Extension Center
2020 Variety Trial Data**

| Oil Sunflower | | | | | | | | | | | | | Carrington (Page 1 of 3) | |
|---------------|-------------|--------------------------|-----------------|-------------------|------------------|-----------|-------------|-------------------|--------------------------|--------------------------|------------|-------------------------|--------------------------|--|
| Brand | Hybrid | Hybrid Type ¹ | Tech Trait | Days to Bloom | Days to PM | Plant Ht. | Plant Lodge | Moist. at Harvest | Test Weight ³ | Oil Content ³ | Seed Yield | | | |
| | | | | DAP ² | DAP ² | inch | 0 to 9 | % | lb/bu | % | 2020 | 2-yr. Avg. ⁴ | | |
| | | | | ----- lb/ac ----- | | | | | | | | | | |
| CROPLAN | CP3845 | High Oleic | Conventional | 65.0 | 108.5 | 67.6 | 1.3 | 8.1 | 26.7 | 44.0 | 1358 | 1370 | | |
| CROPLAN | CP432E | NuSun | ExpressSun | 61.0 | 109.0 | 66.5 | 1.8 | 8.1 | 27.9 | 44.7 | 1993 | 1908 | | |
| CROPLAN | CP450E | High Oleic | ExpressSun | 65.0 | 111.0 | 69.8 | 1.8 | 9.3 | 27.6 | 42.2 | 1872 | 1763 | | |
| CROPLAN | CP455E | High Oleic | ExpressSun | 64.3 | 110.3 | 72.4 | 1.5 | 8.6 | 27.0 | 43.7 | 1940 | 1656 | | |
| CROPLAN | CP4909E | Traditional | ExpressSun | 65.5 | 109.8 | 66.3 | 1.0 | 8.9 | 28.0 | 44.7 | 1531 | -- | | |
| CROPLAN | CP5045CL | High Oleic | Clearfield | 65.0 | 110.3 | 69.6 | 1.0 | 8.9 | 27.7 | 43.6 | 1441 | -- | | |
| CROPLAN | CP545CL | NuSun | Clearfield | 65.8 | 110.3 | 64.6 | 0.5 | 9.1 | 26.7 | 44.4 | 1780 | 1529 | | |
| CROPLAN | CP7919CL | High Oleic | ExpressSun | 66.3 | 108.5 | 67.1 | 1.3 | 8.2 | 25.1 | 41.7 | 1589 | -- | | |
| CROPLAN | CPX5012OCL | High Oleic | Clearfield | 65.3 | 109.5 | 64.6 | 1.3 | 10.0 | 27.1 | 41.9 | 1799 | -- | | |
| CROPLAN | CPX5222OCL | High Oleic | Clearfield | 53.0 | 110.5 | 58.7 | 1.5 | 8.5 | 29.7 | 43.3 | 1859 | -- | | |
| CROPLAN | CPX57919CLP | High Oleic | Clearfield Plus | 66.0 | 109.5 | 66.1 | 2.0 | 9.1 | 26.3 | 40.3 | 1702 | -- | | |
| Dyna-Gro | H42HO18CL | High Oleic | Clearfield | 62.3 | 110.0 | 61.4 | 1.0 | 8.0 | 27.2 | 43.2 | 1906 | 1606 | | |
| Dyna-Gro | H44HO12CL | High Oleic | Clearfield | 61.0 | 109.0 | 65.8 | 2.3 | 8.5 | 26.9 | 46.0 | 1667 | 1487 | | |
| Dyna-Gro | H45HO10EX | High Oleic | ExpressSun | 62.3 | 109.3 | 68.1 | 0.8 | 8.2 | 24.6 | 42.8 | 1749 | -- | | |
| Dyna-Gro | H45NS16CL | NuSun | Clearfield | 62.0 | 108.8 | 63.1 | 2.0 | 8.1 | 27.2 | 46.2 | 1785 | 1557 | | |
| Dyna-Gro | H48HO15CL | High Oleic | Clearfield | 67.8 | 109.8 | 70.5 | 1.5 | 9.0 | 25.7 | 43.4 | 1739 | 1552 | | |
| Dyna-Gro | H49HO19CL | High Oleic | Clearfield | 67.3 | 107.8 | 65.2 | 1.0 | 9.0 | 25.3 | 42.2 | 1728 | 1640 | | |
| Dyna-Gro | H49NS14CL | NuSun | Clearfield | 66.0 | 109.8 | 62.5 | 1.0 | 8.5 | 27.0 | 44.3 | 1887 | -- | | |
| Dyna-Gro | XH800H5T | NuSun | Conventional | 67.8 | 108.5 | 71.4 | 1.3 | 9.5 | 27.5 | 46.3 | 1455 | -- | | |
| Dyna-Gro | XH81H52CP | High Oleic | Clearfield | 66.8 | 110.5 | 69.1 | 2.3 | 8.8 | 27.2 | 43.7 | 1620 | -- | | |
| Dyna-Gro | XH82H63EX | High Oleic | ExpressSun | 67.3 | 111.3 | 71.0 | 2.3 | 12.9 | 29.9 | 43.2 | 2111 | 1865 | | |
| MEAN | | | | 64.5 | 109.2 | 68.0 | 1.4 | 8.8 | 26.5 | 42.9 | 1715 | -- | | |
| C.V.(%) | | | | 1.6 | 1.0 | 5.6 | 45.3 | 8.7 | 3.7 | 3.3 | 13.9 | -- | | |
| LSD 0.10 | | | | 1.2 | 1.3 | 4.5 | 0.8 | 0.9 | 1.1 | 1.7 | 278 | -- | | |
| LSD 0.05 | | | | 1.4 | 1.5 | 5.3 | 0.9 | 1.1 | 1.4 | 2.0 | 332 | -- | | |

Planting Date = June 1 ; Harvest Date = October 6 ; Previous Crop = Barley

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| Oil Sunflower | | | | | | | | | | | | | Carrington (Page 2 of 3) | |
|---------------|----------------|--------------------------|------------|-------------------|------------------|-----------|-------------|-------------------|--------------------------|--------------------------|------------|-------------------------|--------------------------|--|
| Brand | Hybrid | Hybrid Type ¹ | Tech Trait | Days to Bloom | Days to PM | Plant Ht. | Plant Lodge | Moist. at Harvest | Test Weight ³ | Oil Content ³ | Seed Yield | | | |
| | | | | DAP ² | DAP ² | inch | 0 to 9 | % | lb/bu | % | 2020 | 2-yr. Avg. ⁴ | | |
| | | | | ----- lb/ac ----- | | | | | | | | | | |
| Dyna-Gro | XH82H63EX | High Oleic | ExpressSun | 63.0 | 109.3 | 73.5 | 2.0 | 8.9 | 27.4 | 43.2 | 1831 | 1636 | | |
| Dyna-Gro | XH91H54CL | High Oleic | Clearfield | 65.3 | 110.3 | 67.4 | 1.5 | 9.6 | 26.1 | 41.1 | 1743 | -- | | |
| Dyna-Gro | XH93H79CL | High Oleic | Clearfield | 68.5 | 109.8 | 66.4 | 1.8 | 9.1 | 25.8 | 42.4 | 2089 | -- | | |
| Nuseed | Badger DMR | NuSun | Clearfield | 61.3 | 108.3 | 68.9 | 1.5 | 8.1 | 25.9 | 38.5 | 1890 | 1819 | | |
| Nuseed | Camaro II | NuSun | Clearfield | 65.8 | 109.0 | 68.9 | 1.3 | 8.6 | 27.1 | 45.2 | 1746 | 1782 | | |
| Nuseed | Falcon | NuSun | ExpressSun | 64.8 | 107.0 | 65.2 | 0.8 | 8.3 | 26.9 | 44.1 | 1546 | 1434 | | |
| Nuseed | Hornet | High Oleic | Clearfield | 68.0 | 109.5 | 67.5 | 1.8 | 9.4 | 25.5 | 42.5 | 1561 | 1535 | | |
| Nuseed | N4H302 E | High Oleic | ExpressSun | 64.0 | 109.8 | 69.8 | 1.0 | 8.2 | 24.6 | 41.9 | 1439 | 1354 | | |
| Nuseed | N4H422 CL | High Oleic | Clearfield | 65.0 | 108.5 | 69.2 | 1.5 | 8.8 | 26.3 | 41.3 | 1672 | -- | | |
| Nuseed | N4H470 CL Plus | High Oleic | Clearfield | 68.3 | 110.0 | 68.1 | 1.3 | 8.8 | 26.1 | 43.3 | 966 | 1099 | | |
| Nuseed | N4HM354 | NuSun | Clearfield | 63.0 | 109.0 | 63.2 | 1.5 | 8.9 | 26.9 | 45.9 | 1559 | 1598 | | |
| Nuseed | N5LM307 | NuSun | Clearfield | 61.0 | 109.0 | 64.6 | 1.8 | 8.1 | 24.6 | 38.5 | 1385 | 1438 | | |
| Pioneer Brand | P63HE501 | High Oleic | ExpressSun | 64.0 | 109.5 | 68.4 | 1.8 | 8.2 | 25.7 | 41.6 | 2023 | -- | | |
| Pioneer Brand | P64HE101 | High Oleic | ExpressSun | 66.8 | 110.8 | 73.8 | 1.5 | 11.8 | 28.3 | 41.3 | 2262 | 1909 | | |
| Proseed | 13Q25CL | High Oleic | Clearfield | 63.0 | 109.3 | 67.8 | 2.0 | 8.3 | 26.7 | 44.7 | 1688 | -- | | |
| Proseed | E31CL | High Oleic | Clearfield | 65.5 | 109.0 | 70.3 | 1.8 | 8.6 | 26.8 | 41.9 | 1656 | 1608 | | |
| Proseed | E50016CL | NuSun | Clearfield | 66.0 | 109.8 | 70.7 | 1.5 | 9.4 | 26.6 | 43.9 | 2089 | 1711 | | |
| Proseed | E91 | High Oleic | ExpressSun | 67.3 | 109.0 | 73.4 | 1.5 | 8.5 | 27.7 | 43.6 | 1609 | -- | | |
| Proseed | E93 | NuSun | ExpressSun | 65.5 | 109.5 | 73.4 | 1.3 | 8.4 | 24.6 | 41.9 | 1949 | -- | | |
| Royal Hybrid | 20-EXP1 | High Oleic | Clearfield | 64.5 | 109.0 | 69.7 | 1.3 | 8.1 | 24.7 | 39.4 | 1758 | -- | | |
| Royal Hybrid | 20-EXP5 | High Oleic | Clearfield | 64.0 | 107.3 | 71.6 | 1.5 | 7.9 | 24.2 | 40.7 | 1582 | -- | | |
| MEAN | | | | 64.5 | 109.2 | 68.0 | 1.4 | 8.8 | 26.5 | 42.9 | 1715 | -- | | |
| C.V.(%) | | | | 1.6 | 1.0 | 5.6 | 45.3 | 8.7 | 3.7 | 3.3 | 13.9 | -- | | |
| LSD 0.10 | | | | 1.2 | 1.3 | 4.5 | 0.8 | 0.9 | 1.1 | 1.7 | 278 | -- | | |
| LSD 0.05 | | | | 1.4 | 1.5 | 5.3 | 0.9 | 1.1 | 1.4 | 2.0 | 332 | -- | | |

Planting Date = June 1 ; Harvest Date = October 6 ; Previous Crop = Barley

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| Oil Sunflower | | | | | | | | | | | | | Carrington (Page 3 of 3) | |
|---------------|---------------------------|--------------------------|--------------|-------------------|------------------|-----------|-------------|-------------------|--------------------------|--------------------------|------------|-------------------------|--------------------------|--|
| Brand | Hybrid | Hybrid Type ¹ | Tech Trait | Days to Bloom | Days to PM | Plant Ht. | Plant Lodge | Moist. at Harvest | Test Weight ³ | Oil Content ³ | Seed Yield | | | |
| | | | | DAP ² | DAP ² | inch | 0 to 9 | % | lb/bu | % | 2020 | 2-yr. Avg. ⁴ | | |
| | | | | ----- lb/ac ----- | | | | | | | | | | |
| SunOpta | 4415HOCLP | High Oleic | Clearfield | 63.0 | 108.3 | 69.5 | 1.3 | 8.3 | 26.3 | 42.1 | 1832 | 1613 | | |
| SunOpta | 4425CL | NuSun | Clearfield | 62.8 | 107.5 | 72.3 | 1.3 | 8.3 | 26.2 | 41.9 | 1867 | 1822 | | |
| SunOpta | EX725CL | NuSun | Clearfield | 64.8 | 107.5 | 69.6 | 2.0 | 8.0 | 23.3 | 43.0 | 1451 | 1603 | | |
| USDA | 894 | | Check Hybrid | 63.0 | 108.5 | | | | | | | -- | | |
| CROPLAN | 559CL ² | | Check Hybrid | 67.0 | 109.5 | | | | | | | -- | | |
| Mycogen Seeds | 8N270CLDM ² | | Check Hybrid | 59.0 | 109.5 | | | | | | | -- | | |
| USDA | Honeycomb NS ² | | Check Hybrid | 55.0 | 108.0 | | | | | | | -- | | |
| Nuseed | Falcon ² | | Check Hybrid | 64.8 | 107.8 | | | | | | | -- | | |
| MEAN | | | | 64.5 | 109.2 | 68.0 | 1.4 | 8.8 | 26.5 | 42.9 | 1715 | -- | | |
| C.V.(%) | | | | 1.6 | 1.0 | 5.6 | 45.3 | 8.7 | 3.7 | 3.3 | 13.9 | -- | | |
| LSD 0.10 | | | | 1.2 | 1.3 | 4.5 | 0.8 | 0.9 | 1.1 | 1.7 | 278 | -- | | |
| LSD 0.05 | | | | 1.4 | 1.5 | 5.3 | 0.9 | 1.1 | 1.4 | 2.0 | 332 | -- | | |

Planting Date = June 1 ; Harvest Date = October 6 ; Previous Crop = Barley

¹ Oil Type: HO = High Oleic, NS = NuSun, Trad = Traditional. Hybrid detail as provided by seed company.

² Hybrids included as maturity checks.

³ Test Weight, Oil and Yield reported at 10% moisture.

⁴ Two-year average is for 2018 and 2020, as 2019 trial is not available.