

**NDSU Carrington Research Extension Center  
2021 Variety Trial Data**

|                      |                                 |
|----------------------|---------------------------------|
| <b>Oil Sunflower</b> | <b>Carrington (Page 1 of 3)</b> |
|----------------------|---------------------------------|

| Brand              | Hybrid       | Days to Bloom | Days to Maturity | Plant Height<br>in | Lodge <sup>1</sup><br>0-9 | Test Weight<br>lb/bu | Harvest Moisture<br>% | Oil<br>% | ----- Seed Yield ----- |               |
|--------------------|--------------|---------------|------------------|--------------------|---------------------------|----------------------|-----------------------|----------|------------------------|---------------|
|                    |              |               |                  |                    |                           |                      |                       |          | 2021<br>lb/ac          | 2-yr.<br>Avg. |
| USDA               | 894          | 64.0          | 112.8            | 40.6               | 0.0                       | 32.0                 | 9.8                   | 46.3     | 728                    | --            |
| CROPLAN            | 559CL        | 66.3          | 117.5            | 36.2               | 0.0                       | 31.2                 | 11.5                  | 46.6     | 1069                   | --            |
| Mycogen Seeds      | 8N270CLDM    | 62.3          | 108.8            | 39.5               | 0.0                       | 31.5                 | 8.8                   | 45.3     | 744                    | --            |
| USDA               | Honeycomb NS | 60.0          | 106.8            | 41.8               | 0.0                       | 29.7                 | 9.5                   | 42.9     | 832                    | --            |
| Pioneer Brand      | P63HE501     | 65.3          | 109.5            | 44.4               | 0.0                       | 31.4                 | 9.3                   | 44.4     | 781                    | 1402          |
| Pioneer Brand      | P64HE101     | 69.5          | 128.5            | 40.2               | 0.3                       | 29.5                 | 17.6                  | 42.6     | 1241                   | 1752          |
| Croplan            | CP3845       | 67.3          | 112.5            | 44.2               | 0.5                       | 33.3                 | 10.5                  | 46.9     | 958                    | 1158          |
| Croplan            | CP432E       | 64.5          | 115.8            | 39.7               | 0.0                       | 32.3                 | 9.8                   | 44.6     | 1148                   | 1571          |
| Croplan            | CP450E       | 68.8          | 129.3            | 39.2               | 0.0                       | 30.5                 | 16.0                  | 44.1     | 1312                   | 1592          |
| Croplan            | CP455E       | 67.8          | 126.5            | 42.8               | 0.3                       | 31.8                 | 14.4                  | 47.7     | 1154                   | 1547          |
| Croplan            | CP4909E      | 68.8          | 122.5            | 37.5               | 0.0                       | 34.5                 | 12.0                  | 48.5     | 1238                   | 1385          |
| Croplan            | CP5045CL     | 69.3          | 123.8            | 38.3               | 0.0                       | 34.7                 | 11.7                  | 49.3     | 1254                   | 1347          |
| Croplan            | CP7919CL     | 68.8          | 128.0            | 38.9               | 0.0                       | 33.3                 | 13.2                  | 48.2     | 1198                   | 1393          |
| Croplan            | CP4157E      | 67.8          | 116.8            | 40.5               | 0.0                       | 33.0                 | 10.0                  | 47.1     | 1060                   | --            |
| RAGT Semences      | AC2101       | 67.5          | 116.8            | 44.8               | 0.0                       | 32.0                 | 11.1                  | 46.8     | 949                    | --            |
| Sunflower Partners | SF440 HO/CL  | 70.5          | 125.3            | 37.9               | 0.0                       | 35.5                 | 10.3                  | 48.7     | 1140                   | --            |
| Sunflower Partners | SF1H63CL     | 69.0          | 121.0            | 42.8               | 0.0                       | 32.9                 | 12.0                  | 47.8     | 1094                   | --            |
| Sunflower Partners | NSW21460     | 67.5          | 127.8            | 35.9               | 0.0                       | 33.1                 | 13.6                  | 46.9     | 1086                   | --            |
| <hr/>              |              |               |                  |                    |                           |                      |                       |          |                        |               |
| Mean               |              | 67.6          | 121.2            | 40.3               | 0.2                       | 32.2                 | 12.3                  | 46.4     | 1031                   | --            |
| C.V. (%)           |              | 1.6           | 2.7              | 8.7                | 373.0                     | 3.0                  | 11.3                  | 2.5      | 16.8                   | --            |
| LSD (0.05)         |              | 1.5           | 4.6              | 4.9                | 0.8                       | 1.4                  | 1.9                   | 1.6      | 220                    | --            |
| LSD (0.10)         |              | 1.3           | 3.8              | 4.1                | 0.7                       | 1.1                  | 1.6                   | 1.5      | 185                    | --            |

**Planting Date = May 26; Harvest Date = October 19; Previous Crop = Spring Wheat**

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| <b>Oil Sunflower</b> | <b>Carrington (Page 2 of 3)</b> |
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| Brand      | Hybrid     | Days to Bloom | Days to Maturity | Plant Height<br>in | Lodge <sup>1</sup><br>0-9 | Test Weight<br>lb/bu | Harvest Moisture<br>% | Oil<br>% | ----- Seed Yield ----- |               |
|------------|------------|---------------|------------------|--------------------|---------------------------|----------------------|-----------------------|----------|------------------------|---------------|
|            |            |               |                  |                    |                           |                      |                       |          | 2021<br>lb/ac          | 2-yr.<br>Avg. |
| Nuseed     | NLKP74437  | 68.5          | 128.5            | 41.9               | 0.8                       | 30.5                 | 18.9                  | 44.3     | 1418                   | --            |
| Nuseed     | Badger DMR | 64.8          | 123.3            | 41.9               | 0.5                       | 31.5                 | 10.1                  | 41.0     | 821                    | 1356          |
| Nuseed     | N5H493 CL  | 68.8          | 122.5            | 40.9               | 0.0                       | 30.0                 | 11.8                  | 36.7     | 1006                   | --            |
| Nuseed     | Hornet     | 71.0          | 122.5            | 35.1               | 0.3                       | 35.2                 | 10.0                  | 48.8     | 1029                   | 1295          |
| Nuseed     | N4H422 CL  | 69.0          | 128.3            | 40.0               | 0.0                       | 32.9                 | 14.0                  | 46.4     | 1189                   | 1430          |
| Nuseed     | N4H470 CLP | 69.0          | 125.0            | 36.2               | 0.0                       | 33.9                 | 13.4                  | 49.2     | 932                    | 949           |
| Nuseed     | N4HM354    | 65.0          | 115.5            | 40.3               | 0.3                       | 33.7                 | 9.6                   | 49.4     | 781                    | 1170          |
| Nuseed     | N4H302 E   | 66.5          | 118.5            | 39.6               | 0.0                       | 30.6                 | 11.6                  | 48.0     | 915                    | 1177          |
| Nuseed     | Falcon     | 68.8          | 119.0            | 39.2               | 0.0                       | 33.6                 | 12.7                  | 48.7     | 1109                   | 1327          |
| Nuseed     | NLKE04002  | 70.3          | 127.3            | 38.3               | 0.0                       | 32.8                 | 14.9                  | 45.6     | 1354                   | --            |
| Dyna-Gro   | H42H018 CL | 64.8          | 115.0            | 36.2               | 0.0                       | 34.0                 | 9.3                   | 46.5     | 832                    | 1369          |
| Dyna-Gro   | H44H012 CL | 64.3          | 111.3            | 40.1               | 0.0                       | 32.9                 | 10.2                  | 49.2     | 978                    | 1322          |
| Dyna-Gro   | H45NS16 CL | 64.8          | 117.0            | 40.3               | 0.0                       | 33.2                 | 9.3                   | 48.0     | 995                    | 1390          |
| Dyna-Gro   | H45H010EX  | 66.8          | 120.8            | 40.5               | 0.3                       | 31.1                 | 11.6                  | 47.1     | 975                    | 1362          |
| Dyna-Gro   | H47H011 EX | 68.8          | 128.8            | 41.2               | 0.0                       | 32.3                 | 13.8                  | 46.4     | 1296                   | --            |
| Dyna-Gro   | H49H019 CL | 69.5          | 116.8            | 34.9               | 0.0                       | 35.1                 | 9.0                   | 50.2     | 961                    | 1344          |
| Dyna-Gro   | H49NS14 CL | 69.0          | 118.0            | 36.1               | 0.0                       | 34.4                 | 10.5                  | 49.6     | 1044                   | 1465          |
| Dyna-Gro   | XH81H52CP  | 69.0          | 125.5            | 37.8               | 0.0                       | 33.7                 | 13.7                  | 50.3     | 1039                   | 1329          |
| Dyna-Gro   | XH81H60EX  | 69.8          | 126.8            | 35.9               | 0.0                       | 33.6                 | 13.6                  | 48.7     | 1055                   | --            |
| Mean       |            | 67.6          | 121.2            | 40.3               | 0.2                       | 32.2                 | 12.3                  | 46.4     | 1031                   | --            |
| C.V. (%)   |            | 1.6           | 2.7              | 8.7                | 373.0                     | 3.0                  | 11.3                  | 2.5      | 16.8                   | --            |
| LSD (0.05) |            | 1.5           | 4.6              | 4.9                | 0.8                       | 1.4                  | 1.9                   | 1.6      | 220                    | --            |
| LSD (0.10) |            | 1.3           | 3.8              | 4.1                | 0.7                       | 1.1                  | 1.6                   | 1.5      | 185                    | --            |

**Planting Date = May 26; Harvest Date = October 19; Previous Crop = Spring Wheat**

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**Oil Sunflower**

**Carrington (Page 3 of 3)**

| Brand        | Hybrid     | Days to Bloom | Days to Maturity | Plant Height<br>in | Lodge <sup>1</sup><br>0-9 | Test Weight<br>lb/bu | Harvest Moisture<br>% | Oil<br>% | ----- Seed Yield ----- |               |
|--------------|------------|---------------|------------------|--------------------|---------------------------|----------------------|-----------------------|----------|------------------------|---------------|
|              |            |               |                  |                    |                           |                      |                       |          | 2021<br>lb/ac          | 2-yr.<br>Avg. |
| Dyna-Gro     | XH81N62EX  | 70.0          | 127.8            | 35.7               | 0.0                       | 33.2                 | 14.8                  | 46.2     | 1169                   | --            |
| Dyna-Gro     | XH82H63EX  | 66.0          | 116.5            | 41.8               | 0.0                       | 31.5                 | 9.6                   | 49.9     | 839                    | 1475          |
| Royal Hybrid | 20-EXP05   | 69.0          | 120.5            | 45.9               | 0.3                       | 26.5                 | 16.3                  | 44.3     | 819                    | 1201          |
| Proseed      | E-50016 CL | 69.5          | 121.5            | 40.8               | 0.0                       | 34.9                 | 9.9                   | 47.8     | 795                    | 1442          |
| Proseed      | 12G25CL    | 67.8          | 121.0            | 44.5               | 0.3                       | 34.4                 | 11.6                  | 48.8     | 1130                   | 1409          |
| Proseed      | E-31 CL    | 69.0          | 126.8            | 45.1               | 0.0                       | 30.5                 | 12.8                  | 43.0     | 1216                   | 1436          |
| Proseed      | E-91 E     | 69.8          | 126.3            | 46.9               | 1.0                       | 31.4                 | 13.7                  | 45.9     | 926                    | 1267          |
| Proseed      | E-93 E     | 69.0          | 124.3            | 46.4               | 1.5                       | 27.7                 | 16.7                  | 45.1     | 783                    | 1366          |
| SunOpta      | 4415HOCLP  | 67.8          | 116.0            | 40.6               | 0.5                       | 33.4                 | 9.5                   | 45.9     | 826                    | 1329          |
| SunOpta      | 4425CL     | 69.8          | 128.8            | 39.9               | 1.0                       | 30.2                 | 14.9                  | 42.6     | 1168                   | 1518          |
| SunOpta      | EX725CL    | 68.5          | 126.0            | 43.6               | 0.0                       | 28.2                 | 15.6                  | 43.8     | 1085                   | 1268          |
| Mean         |            | 67.6          | 121.2            | 40.3               | 0.2                       | 32.2                 | 12.3                  | 46.4     | 1031                   | --            |
| C.V. (%)     |            | 1.6           | 2.7              | 8.7                | 373.0                     | 3.0                  | 11.3                  | 2.5      | 16.8                   | --            |
| LSD (0.05)   |            | 1.5           | 4.6              | 4.9                | 0.8                       | 1.4                  | 1.9                   | 1.6      | 220                    | --            |
| LSD (0.10)   |            | 1.3           | 3.8              | 4.1                | 0.7                       | 1.1                  | 1.6                   | 1.5      | 185                    | --            |

**Planting Date = May 26; Harvest Date = October 19; Previous Crop = Spring Wheat**

<sup>1</sup>Lodging score: 0 = no lodging; 9 = plants lying flat