A1124-23 (November 2023)

North Dakota Canola

Hybrid Trial Results for 2023 and Selection Guide

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Canola is a major oil crop in the northern Great Plains, particularly in North Dakota. In 2023, canola was planted on 1.93 million acres, slightly up from the acres plant last year and continuing a trend of increasing acres over the last few years. This publication summarizes canola hybrid performance at the various North Dakota State University Research Extension Centers. The relative performance of the hybrids is presented in table form.

Give special attention to yield results of those trials nearest to your production area when evaluating varieties or hybrids in these trials. Also, attempt to view yield averages of several years rather than using only one year's data as a determining factor. In addition, consider other agronomic characteristics, such as maturity, lodging score and oil percentages, if available.

Research specialists and technicians helped with the fieldwork and data compilation. The assistance given by many secretaries in entering data in respective portions of the document is very much appreciated.

2023 Growing Season Update

Canola planting was delayed by a cool, wet spring relative to the long-term average. However, by midsummer most canola fields flowered close to the average of previous years. Harvesting was somewhat delayed compared to average. Crop yields varied considerably throughout the state due to large differences in rainfall. However, in many areas of the state where canola was grown, there was adequate moisture, but the statewide average yield was slightly below trendline.

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Table 1. Canola Production, North Dakota 2008-2023.

| Year | Acres Planted | Acres Harvested | Yield Per Acre | Production |
|---------|---------------|-----------------|----------------|-------------|
| | (1,000 | O Acres) | (lb.) | (1,000 lb.) |
| 2008 | 910 | 895 | 1,460 | 1,306,700 |
| 2009 | 730 | 725 | 1,840 | 1,334,000 |
| 2010 | 1,280 | 1,270 | 1,720 | 2,184,400 |
| 2011 | 890 | 850 | 1,500 | 1,275,000 |
| 2012 | 1,460 | 1,455 | 1,380 | 2,007,900 |
| 2013 | 920 | 915 | 1,820 | 1,665,300 |
| 2014 | 1,200 | 1,190 | 1,800 | 2,142,000 |
| 2015 | 1,410 | 1,400 | 1,780 | 2,492,000 |
| 2016 | 1,460 | 1,450 | 1,840 | 2,668,000 |
| 2017 | 1,590 | 1,560 | 1,600 | 2,496,000 |
| 2018 | 1,590 | 1,580 | 1,960 | 3,096,800 |
| 2019 | 1,700 | 1,610 | 1,800 | 2,898,000 |
| 2020 | 1,510 | 1,490 | 1,960 | 2,920,400 |
| 2021 | 1,750 | 1,720 | 1,340 | 2,304,800 |
| 2022 | 1,800 | 1,780 | 1,920 | 3,417,600 |
| 2023 | 1,930 | 1,900 | 1,790 | 3,401,000 |
| Average | 1,347 | 1,326 | 1,715 | 2,280,593 |

Source: North Dakota Agricultural Statistics Service – USDA.

About This Publication

Variety trial data from all NDSU Research Extension Centers for all crops can be found at www.ag.ndsu.edu/varietytrials and the variety selection tool at https://vt.ag.ndsu.edu/. The agronomic data presented in this publication are from replicated research plots using experimental designs that enable the use of statistical analysis. The LSD (least significant difference) numbers beneath the columns in tables are derived from the statistical analyses and only apply to the numbers in the column in which they appear. If the difference between two varieties exceeds the LSD value, it means that with 95% or 90% probability (0.05 or 0.10 level), the higher-yielding variety has a significant yield advantage. If the difference between two varieties is less than the LSD value, then the variety yields are considered similar. The abbreviation NS is used to indicate "no significant difference" for that trait among any of the varieties. The CV (coefficient of variation) is a measure of variability in the trial and is expressed as a percentage. Large CVs mean a large amount of variation that could not be attributed to differences in the varieties. In the tables, the mean indicates the average of the observations in the column. Only compare values within the table and look for trends for the desired trait among different experimental sites and years.

Oil and harvest yield were adjusted to 8.5% moisture. Oil content is intended to differentiate among hybrids at one location. LSD values should be used to determine differences among hybrids. The oil content data are not intended to be compared between locations.

Presentation of data for the varieties tested does not imply approval or endorsement by the authors or agencies conducting the tests. NDSU approves the reproduction of any table in this publication only if no portion is deleted, appropriate footnotes are given, the order of the data is not rearranged and NDSU is credited for the data.

| Table 2. Company Name, | Short Name Used | in the Tables and URL With Company Information. |
|-------------------------|-----------------|---|
| Company/Brand | Short | URL |
| BASF | BASF | https://agriculture.basf.us/crop-protection/products/seeds/invigor.html |
| Bayer/Dekalb | Dekalb | www.dekalbasgrowdeltapine.com/ |
| BrettYoung | BrettYoung | www.brettyoung.ca/agricultural-seed-crop-inputs-usa-portal/canola-usa/ |
| DuPont/Pioneer | Pioneer | www.pioneer.com/us |
| Dyna-Gro Seed | Dyna-Gro | www.dynagroseed.com |
| Integra Fortified Seed | Integra | www.wilburellisagribusiness.com/integra-seed/ |
| Meridian Seeds/Canterra | Canterra | www.meridianseeds.com/bulk-seed-for-sale/oil-seed/canola-seed/ |
| Nuseed SA | Nuseed | https://nuseed.com/us/crop/canola/ |
| Photosyntech | Photosyntech | www.photosyntech.com/crop/winter-spring-canola/ |
| Rubisco | Rubisco | www.rubiscoseeds.com/canola-hybrids/ |
| Star Specialty | Star | www.starspecialtyseed.com |
| WinField/Croplan | Croplan | www.winfieldunited.com/products/winfield-united-seed/ |

| Table 3. 2023 Summa | Table 3. 2023 Summary of LibertyLink and Clearflield Canola Hybrids in North Dakota. | | | | | | |
|----------------------------|--|-------------------|---------------------|-------------------------|-----------|---------|-------|
| Company/ | | | Blackleg | Clubroot | REC | REC | REC |
| Brand | Hybrid | Type ¹ | Rating ² | Resistance ³ | Hettinger | Langdon | Minot |
| BASF | L233P | LL | R | No | | X | x |
| BASF | L340PC | LL | R | Yes | X | X | x |
| BASF | L343PC | LL | R | Yes | | X | x |
| BASF | L345PC | LL | R | Yes | | X | X |
| BASF | L350PC | LL | R | Yes | | X | x |
| BASF | LR354PC | TF/LL | R | Yes | | X | x |
| BrettYoung | BY 7204LL | LL | R | Yes | X | | |
| Canterra | CS4000 LL | LL | R | Yes | X | X | X |
| Croplan | CP7250LL | LL | R | Yes | X | X | x |
| Dekalb | DKLL 82 SC | LL | R | No | | X | X |
| Dekalb | DKLL 83 SC | LL | R | No | | X | X |
| Dekalb | DKTFLL 21 SC | TF/LL | R | No | | X | X |
| Dyna-Gro | DG 661 LCM | LL | R | Yes | | X | X |
| Dyna-Gro | DG280CLC | CL | R | Yes | | X | X |
| Photosyntech | PST SC 0742 CL | CL | MR | NA | | X | |
| Photosyntech | PST SC 1159 CL | CL | MR | NA | | X | |
| Pioneer | P505MSL | LL | R | Yes | | X | X |
| Pioneer | P612L | LL | R | Yes | | X | x |
| Rubisco | RUB368-D | CL | R | NA | | X | |
| Rubisco | RUB378-M | CL | R | NA | | X | |

¹LL = LibertyLink, TF = Roundup Ready TruFlex, CL = Clearfield.

 $^{^{2}}$ Blackleg rating provided by company, R = Resistant, MR = Moderate Resistance.

³Hybrid Clubroot resistance rating provided by company.

| Table 4. 2023 S | ummary of Roundup l | Ready Canol | a Hybrids in | North Dakota. | | | |
|------------------------|---------------------|-------------------|---------------------|-------------------------|-----------|---------|-------|
| Company/ | | | Blackleg | Clubroot | REC | REC | REC |
| Brand | Hybrid | Type ¹ | Rating ² | Resistance ³ | Hettinger | Langdon | Minot |
| BASF | LR354PC | TF/LL | R | Yes | | X | X |
| Bayer | DK900TF | TF | R | Yes | | X | X |
| Bayer | DK902TF | TF | R | Yes | | | X |
| BrettYoung | BY 6211TF | TF | R | No | X | X | X |
| Canterra | CS2300 | TF | R | Yes | | | X |
| Canterra | CS2600 CR-T | TF | R | Yes | x | X | X |
| Canterra | CS3000 TF | TF | R | Yes | X | X | X |
| Canterra | CS3100 TF | TF | R | Yes | X | X | X |
| Croplan | CP9221TF | TF | R | Yes | x | X | X |
| Croplan | CP9978TF | TF | R | No | X | X | X |
| Dekalb | DKTF 99 SC | TF | R | No | | | X |
| Dekalb | DKTFLL 21 SC | TF/LL | R | No | x | | |
| Dyna-Gro | DG 760TM | TF | R | No | | X | X |
| Dyna-Gro | DG 781 TCM | TF | R | Yes | | X | X |
| Integra | 7361RC | TF | R | Yes | | | x |
| Nuseed | NC155 TF | TF | R | No | X | X | |
| Nuseed | NC471 TF | TF | R | No | X | X | |
| Nuseed | NC527CR TF | TF | R | Yes | x | X | |
| Pioneer | P511G | GLY | R | Yes | | X | X |
| Pioneer | P515G | GLY | R | Yes | | X | X |
| Proseed | TR23127 | TF | R | Yes | x | X | |
| Star | StarFlex | TF | R | No | X | X | |

Thybrids are traditional oil type, TF = Roundup Ready TruFlex and LL = LibertyLink and GLY = Optimum GLY (glyphosate).

²Blackleg rating provided by company, R = Resistant.

³Hybrid Clubroot resistance rating provided by company.

| Table 5. 2023 | 3 Canola - Roundup | Ready - Het | tinger - Aut | hor, J. Ricke | ertsen and l | M. Wells. | | |
|----------------------|--------------------|-------------|--------------|---------------|--------------|--------------------|---------|------------|
| Company/ | | Days to | Flower | | Plant | Plant | Oil | Seed Yield |
| Brand | Hybrid | Flower | Duration | Maturity | Height | Lodge ¹ | Content | 2023 |
| | | $(DAP)^2$ | (days) | $(DAP)^2$ | (inch) | (0-9) | (%) | (lb/a) |
| BrettYoung | BY 6211TF | 40 | 27 | 85 | 53 | 0.0 | 41.2 | 2,304 |
| Canterra | CS2600 CR-T | 40 | 24 | 82 | 52 | 0.0 | 41.6 | 2,300 |
| Canterra | CS3000 TF | 38 | 25 | 82 | 47 | 0.0 | 42.1 | 2,227 |
| Canterra | CS3100 TF | 38 | 31 | 88 | 50 | 0.0 | 41.7 | 2,350 |
| Croplan | CP9978TF | 37 | 29 | 84 | 50 | 0.0 | 40.9 | 2,366 |
| Croplan | CP9221TF | 40 | 22 | 80 | 46 | 3.3 | 41.2 | 1,973 |
| Dekalb | DKTFLL 21 SC | 38 | 26 | 81 | 47 | 0.0 | 41.6 | 2,307 |
| Nuseed | NC155 TF | 40 | 27 | 86 | 50 | 0.0 | 41.5 | 2,195 |
| Nuseed | NC471 TF | 43 | 23 | 84 | 52 | 0.0 | 42.8 | 1,949 |
| Nuseed | NC527CR TF | 39 | 28 | 85 | 51 | 0.0 | 42.2 | 2,140 |
| Proseed | TR 23127 | 39 | 29 | 85 | 52 | 0.0 | 41.1 | 2,279 |
| Star | StarFlex | 40 | 27 | 85 | 51 | 0.0 | 42.2 | 2,486 |
| Mean | | 39 | 27 | 84 | 51 | 0.2 | 41.7 | 2,251 |
| CV % | | 4.1 | 6.9 | 1.1 | 4.4 | 125 | 1.5 | 5.1 |
| LSD 0.05 | | 1.9 | 2.3 | 1.1 | 2.7 | 0.3 | 0.8 | 138 |
| LSD 0.10 | | 1.5 | 1.7 | 0.8 | 2.1 | 0.2 | 0.6 | 107 |

Trial was planted on May 18 and harvested on Sept. 1. Previous crop was oats.

| Table 6. 2023 | 3 Canola - LibertyLii | ık - Hetting | ger - Author | , J. Rickerts | en and M. Wells. | | |
|----------------------|-----------------------|--------------|--------------|---------------|------------------|---------|------------|
| | | Days to | Flower | Days to | Plant | Oil | Seed Yield |
| Brand | Hybrid | Flower | Duration | Maturity | Height | Content | 2023 |
| | | $(DAP)^1$ | (days) | $(DAP)^1$ | (inch) | (%) | (lb/a) |
| BASF | InVigor L340PC | 41 | 26 | 84 | 52 | 40.3 | 2,533 |
| BrettYoung | BY 7204LL | 40 | 27 | 85 | 51 | 43.1 | 2,512 |
| Canterra | CS4000 LL | 41 | 25 | 85 | 52 | 41.7 | 2,497 |
| Croplan | CP7250LL | 41 | 27 | 86 | 54 | 41.0 | 2,589 |
| Mean | | 43 | 25 | 87 | 53 | 41.7 | 2,498 |
| CV % | | 1.2 | 2.1 | 0.3 | 3.1 | 2.1 | 7.4 |
| LSD 0.05 | | 0.7 | 0.7 | 0.3 | 2.0 | 1.1 | 227 |
| LSD 0.10 | | 0.5 | 0.5 | 0.2 | 1.5 | 0.9 | 174 |

Trial was planted on May 18 and harvested on Sept. 1. Previous crop was oats.

 $^{^{1}}$ Lodging: 0 = none, 9 = lying flat on the ground.

²DAP = Days after planting.

¹DAP = Days after planting.

| Table 7. 2023 | Canola - Roundup | Ready - Lang | don - Author | rs, B. Hansor | , L. Henry | and R. Duer | r. | | |
|----------------------|------------------|--------------|--------------|---------------|------------|--------------------|---------|-------|-----------|
| Company/ | | Days to | Flower | Days to | Plant | | Oil | Seed | l Yield |
| Brand | Hybrid | Flower | Duration | Maturity | Height | Cover ¹ | Content | 2023 | 2-yr Avg. |
| | | $(DAP)^2$ | (days) | $(DAP)^2$ | (inch) | (%) | (%) | (1 | b/a) |
| BASF | LR354PC | 47 | 17 | 89 | 55 | 83 | 41.1 | 2,344 | |
| Bayer | DK900TF | 42 | 21 | 85 | 52 | 88 | 42.4 | 2,757 | |
| BrettYoung | BY 6211TF | 40 | 21 | 85 | 51 | 87 | 40.4 | 2,515 | 2,905 |
| Canterra | CS2600 CR-T | 39 | 21 | 83 | 50 | 88 | 42.6 | 2,608 | 2,508 |
| Canterra | CS3000 TF | 37 | 22 | 83 | 49 | 85 | 41.6 | 2,578 | 2,754 |
| Canterra | CS3100 TF | 43 | 25 | 92 | 53 | 83 | 42.7 | 2,609 | 2,996 |
| Croplan | CP9221TF | 38 | 22 | 83 | 46 | 78 | 40.6 | 2,412 | |
| Croplan | CP9978TF | 38 | 24 | 86 | 51 | 90 | 41.1 | 2,932 | 2,821 |
| Dyna-Gro | DG 760 TC | 39 | 21 | 83 | 49 | 90 | 41.7 | 2,818 | |
| Dyna-Gro | DG 781 TCM | 42 | 18 | 89 | 53 | 88 | 42.2 | 2,526 | |
| Nuseed | NC155 TF | 39 | 25 | 89 | 53 | 82 | 40.8 | 2,412 | 2,687 |
| Nuseed | NC471 TF | 41 | 22 | 89 | 53 | 65 | 41.8 | 2,072 | 2,216 |
| Nuseed | NC527CR TF | 39 | 22 | 86 | 52 | 90 | 41.3 | 2,471 | 2,634 |
| Pioneer | P511G | 43 | 21 | 87 | 55 | 72 | 42.2 | 2,391 | |
| Pioneer | P515G | 41 | 21 | 84 | 50 | 83 | 41.3 | 2,551 | |
| Proseed | TR 23127 | 42 | 22 | 88 | 53 | 80 | 42.1 | 2,709 | |
| Star | StarFlex | 38 | 25 | 86 | 52 | 92 | 42.7 | 2,676 | 2,913 |
| Mean | | 41 | 22 | 87 | 52 | 84 | 41.6 | 2,516 | |
| CV % | | 2.9 | 6.9 | 2.4 | 5.1 | 10.6 | 2.3 | 5.1 | |
| LSD 0.05 | | 2.0 | 2.5 | 3.5 | 4.4 | 14.8 | 1.6 | 341 | |
| LSD 0.10 | | 1.7 | 2.0 | 2.9 | 3.7 | 12.3 | 1.3 | | |

Trial was planted on May 25 and harvested on Sept. 18. Previous crop: soybean.

Plants were at 5- to 6-leaf stage.

| Table 8. 2023 | Canola - Clearfield - Lang | don - Authors, B. l | Hanson, L. H | lenry and R. | Duerr. | | | |
|----------------------|----------------------------|---------------------|--------------|--------------|--------|--------------------|---------|-------|
| Company/ | | Days to | Flower | Days to | Plant | | Oil | Yield |
| Brand | Hybrid | Flower | Duration | Maturity | Height | Cover ¹ | Content | 2023 |
| | | $(DAP)^2$ | (days) | $(DAP)^2$ | (inch) | (%) | (%) | lb/a |
| Dyna-Gro | DG 280 CLC | 44 | 17 | 85 | 51 | 92 | 44.4 | 2,603 |
| Photosyntech | PST SC 0742 CL | 50 | 19 | 92 | 59 | 84 | 41.4 | 2,636 |
| Photosyntech | PST SC 1159 CL | 53 | 17 | 94 | 60 | 89 | 41.1 | 2,282 |
| Rubisco | RUB378-M | 43 | 20 | 89 | 55 | 87 | 44.8 | 3,040 |
| Rubisco | RUB368-D | 39 | 23 | 85 | 51 | 88 | 42.0 | 2,734 |
| | LL Check | 40 | 21 | 86 | 51 | 85 | 41.6 | 3,279 |
| | RR Check | 39 | 22 | 87 | 48 | 84 | 42.7 | 3,018 |
| Mean | | 43 | 20 | 88 | 53 | 81 | 42.0 | 2,604 |
| CV % | | 2.7 | 5.7 | 1.8 | 5.0 | 6.2 | 1.3 | 10.6 |
| LSD 0.05 | | 1.7 | 1.6 | 2.3 | 3.8 | 7.2 | 0.8 | 397 |
| LSD 0.10 | | 1.4 | 1.4 | 1.9 | 3.1 | 6.0 | 0.7 | 329 |

Trial was planted on May 25 and harvested on Sept. 19. Previous crop: soybean.

Plants were at 5- to 6-leaf stage.

¹Cover - visual rating of percent area of plot covered by plant growth. This is a measure of stand and vigor.

 $^{^{2}}DAP = Days$ after planting.

¹Cover - visual rating of percent area of plot covered by plant growth. This is a measure of stand and vigor.

²DAP = Days after planting.

| Table 9. 2 | 023 Canola - Liberty | Link - La | ngdon - A | uthors, B. | Hanson, L. | Henry an | d R. Duerr | • | | |
|------------|----------------------|-------------------|-----------|------------|------------|----------|--------------------|---------|-------|-----------|
| Company/ | | | Days to | Flower | Days to | Plant | | Oil | See | d Yield |
| Brand | Hybrid | Type ¹ | Flower | Duration | Maturity | Height | Cover ² | Content | 2023 | 2-yr Avg. |
| | | | $(DAP)^3$ | (days) | $(DAP)^3$ | (inch) | (%) | (%) | (| lb/a) |
| BASF | InVigor L233P | LL | 42 | 18 | 84 | 53 | 86 | 41.0 | 2,892 | 3,031 |
| BASF | InVigorL340PC | LL | 43 | 18 | 85 | 51 | 85 | 40.1 | 2,644 | 3,108 |
| BASF | InVigor L343PC | LL | 43 | 17 | 86 | 52 | 82 | 41.2 | 2,541 | 3,084 |
| BASF | InVigor L345PC | LL | 46 | 17 | 87 | 55 | 88 | 41.0 | 2,454 | 3,094 |
| BASF | InVigor L350PC | LL | 48 | 17 | 90 | 58 | 88 | 41.4 | 2,668 | 3,141 |
| BASF | InVigor LR354PC | TFLL | 47 | 17 | 88 | 57 | 86 | 41.7 | 2,429 | 2,890 |
| Bayer | DKLL82SC | LL | 41 | 21 | 86 | 46 | 86 | 40.8 | 2,428 | 2,761 |
| Bayer | DKLL83SC | LL | 39 | 21 | 84 | 48 | 78 | 41.3 | 2,314 | 2,748 |
| Bayer | DKTFLL21SC | TFLL | 40 | 21 | 84 | 48 | 81 | 41.0 | 2,473 | 2,633 |
| Canterra | CS4000 LL | LL | 42 | 19 | 85 | 53 | 85 | 41.5 | 2,907 | 3,072 |
| Croplan | CP7250LL | LL | 44 | 20 | 89 | 52 | 87 | 41.2 | 2,554 | |
| Dyna-Gro | DG 661 LCM | LL | 43 | 19 | 88 | 52 | 85 | 41.4 | 2,243 | |
| Pioneer | P505MSL | LL | 44 | 17 | 85 | 56 | 88 | 40.9 | 2,346 | 2,496 |
| Pioneer | P612L | LL | 47 | 18 | 89 | 58 | 83 | 42.0 | 2,584 | |
| Mean | | | 44 | 19 | 87 | 53 | 85 | 41.3 | 2,530 | 2,914 |
| CV % | | | 3.4 | 7.6 | 2.0 | 4.3 | 5.7 | 1.3 | 9.85 | |
| LSD 0.05 | | | 2.1 | 2.0 | 2.5 | 3.3 | 6.9 | 0.8 | 360 | |
| LSD 0.10 | | | 1.8 | 1.7 | 2.1 | 1.7 | 5.8 | 0.6 | 299 | |

Trial was planted on May 25 and harvested on Sept. 1. Previous crop: soybean.

¹LL = LibertyLink and TF = Roundup Ready TruFlex.

²Cover - visual rating of percent area of plot covered by plant growth. This is a measure of stand and vigor. Plants were at 5- to 6-leaf stage.

⁵DAP = Days after planting.

| Table 10. 2023 (| Table 10. 2023 Canola - LibertyLink - Minot - Authors, L. Bortolon, A. Kraklau and J. Hansen. | | | | | | |
|-------------------------|---|-------------|----------|-----------|--------|---------|--------|
| Company/ | | Days to | Flower | Days to | Plant | Oil | Yield |
| Brand | Hybrid | Flower | Duration | Maturity | Height | Content | 2023 |
| | | $(DAP)^{1}$ | (days) | $(DAP)^1$ | (inch) | (%) | (lb/a) |
| BASF | L233P | 42 | 20 | 95 | 52 | 38.9 | 2,196 |
| BASF | L340PC | 40 | 19 | 94 | 47 | 37.6 | 2,380 |
| BASF | L343PC | 40 | 22 | 97 | 44 | 38.7 | 2,266 |
| BASF | L345PC | 40 | 21 | 94 | 52 | 38.6 | 2,432 |
| BASF | L350PC | 43 | 21 | 97 | 54 | 38.9 | 2,173 |
| BASF | LR354PC | 42 | 21 | 95 | 53 | 38.6 | 2,360 |
| Canterra | CS4000LL | 40 | 21 | 94 | 50 | 39.3 | 2,246 |
| Croplan | CP7250LL | 43 | 23 | 94 | 49 | 38.9 | 1,942 |
| Dekalb | DKLL82SC | 38 | 24 | 94 | 48 | 38.5 | 2,141 |
| Dekalb | DKLL83SC | 36 | 23 | 92 | 46 | 39.1 | 2,442 |
| Dekalb | DKTFLL21SC | 39 | 25 | 95 | 47 | 39.0 | 1,999 |
| Dyna-Gro | DG280CLC | 39 | 24 | 98 | 46 | 39.7 | 1,835 |
| Dyna-Gro | DG661LCM | 40 | 21 | 93 | 49 | 39.2 | 2,280 |
| Pioneer | P505MSL | 41 | 21 | 94 | 52 | 38.8 | 2,465 |
| Pioneer | P612L | 42 | 23 | 97 | 55 | 39.1 | 2,070 |
| Mean | | 40 | 22 | 95 | 50 | 38.9 | 2,215 |
| CV % | | 4.7 | 10.2 | 2.0 | 7.0 | 2.3 | 16.9 |
| LSD 0.05 | | 3.2 | 3.7 | 4.0 | 6.0 | 1 | NS |
| LSD 0.10 | | 2.7 | 3.1 | 3.0 | 5.0 | 1.2 | NS |

Trial was planted on June 1 and harvested on Sept. 15. Previous crop: fallow.

¹DAP = Days after planting.

| Table 11. 2023 | Canola - Roundup Ro | eady - Minot - A | Authors, L. Be | ortolon, A. Kr | aklau and J | . Hansen. | |
|----------------|---------------------|------------------|----------------|----------------|-------------|-----------|--------|
| Company/ | | Days to | Flower | Days to | Plant | Oil | Yield |
| Brand | Hybrid | Flower | Duration | Maturity | Height | Content | 2023 |
| | | $(DAP)^1$ | (days) | $(DAP)^1$ | (inch) | (%) | (lb/a) |
| BASF | LR354PC | | | 98 | 42 | 36.1 | |
| Bayer | DK900TF | 37 | 22 | 90 | 42 | 40.2 | 2,369 |
| Bayer | DK902TF | 35 | 23 | 90 | 39 | 40.4 | 2,459 |
| BrettYoung | BY6211TF | 39 | 22 | 94 | 45 | 40.4 | 1,996 |
| Canterra | CS2300 | 40 | 26 | 98 | 46 | 38.9 | 2,328 |
| Canterra | CS2600CR-T | 35 | 23 | 90 | 40 | 40.6 | 2,312 |
| Canterra | CS3000TF | 34 | 24 | 89 | 39 | 39.9 | 2,204 |
| Canterra | CS3100TF | 39 | 5 | 95 | 43 | 39.6 | 2,041 |
| Croplan | CP9221TF | 37 | 22 | 90 | 35 | 39.2 | 1,777 |
| Croplan | CP9978TF | 37 | 22 | 93 | 38 | 38.8 | 1,874 |
| Dekalb | DKTF99SC | 37 | 22 | 92 | 40 | 39.1 | 2,200 |
| Dyna-Gro | DG760TM | 36 | 22 | 90 | 41 | 39.3 | 2,365 |
| Dyna-Gro | DG781TCM | 38 | 21 | 94 | 39 | 38.9 | 2,088 |
| Integra | 7361RC | 39 | 21 | 90 | 42 | 39.5 | 2,112 |
| Pioneer | P511G | 37 | 22 | 93 | 46 | 39.7 | 2,409 |
| Pioneer | P515G | 38 | 21 | 93 | 44 | 40.2 | 2,390 |
| Proseed | TR23127 | 38 | 24 | 94 | 46 | 39.6 | 2,539 |
| Mean | | 37 | 23 | 93 | 42 | 39.4 | 2,216 |
| CV % | | 2.9 | 7.6 | 2.2 | 6.0 | 2.5 | 13.7 |
| LSD 0.05 | | 1.8 | 7.6 | 3.4 | 4.1 | 1.6 | 495 |
| LSD 0.10 | | 1.5 | 6.3 | 2.8 | 3.4 | 1.3 | 412 |

Trial was planted on June 1 and harvested on Sept. 15. Previous crop: fallow

¹DAP = Days after planting.

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