

**NDSU Langdon Research Extension Center
2019 Variety Trial Data**

Canola - Liberty Link, Clearfield - 2019- Table 1

Langdon

| Company/Brand | Variety | Type ¹ | Blackleg Rating ² | Status ³ | Club root Resist. ⁵ | Days to 1st Flower | Days to End Flower | Flower Duration | Days to Maturity |
|--------------------------|---------------|-------------------|------------------------------|---------------------|--------------------------------|--------------------|--------------------|-----------------|------------------|
| BASF | InVigor L233P | LL,TR | R | CA | No | 47 | 62 | 15 | 94 |
| BASF | InVigor L255P | LL,TR | R | CA | Yes | 49 | 64 | 15 | 97 |
| BASF | InVigor L234P | LL,TR | R | CA | Yes | 47 | 62 | 15 | 94 |
| BASF | InVigor L252 | LL,TR | R | CA | No | 49 | 63 | 15 | 97 |
| BASF | InVigor L230 | LL,TR | R | CA | No | 45 | 58 | 12 | 93 |
| BASF | InVigor L345P | LL,TR | R | Exp | Yes | 48 | 63 | 15 | 95 |
| BASF | InVigor L352 | LL,TR | R | Exp | Yes | 50 | 66 | 16 | 99 |
| BrettYoung | 5545CL | CL,TR | R | CA | No | 48 | 65 | 17 | 98 |
| Canterra Seeds | CS2500 CL | CL,TR | R | CA | No | 47 | 60 | 13 | 95 |
| Cargill | 16MH6001 | CL,HO | R | Exp | No | 48 | 64 | 16 | 94 |
| Cargill | 16MH6004 | CL, HO | R | Exp | No | 48 | 63 | 15 | 93 |
| Dyna-Gro | DG 200CL | CL, TR | R | CA | No | 49 | 65 | 16 | 96 |
| CROPLAN ⁴ | CP955RR-CK | RR, TR | R | CA | Yes | 46 | 62 | 16 | 95 |
| Brett Young ⁴ | 4178 RR-CK | RR, TR | R | CA | Yes | 50 | 64 | 14 | 96 |
| Trial Mean | | | | | | 48 | 64 | 16 | 96 |
| C.V. % | | | | | | 1.2 | 1.5 | 6.3 | 1.7 |
| LSD 5% | | | | | | 0.8 | 1.4 | 1.4 | 2.4 |
| LSD 10% | | | | | | 0.7 | 1.2 | 1.2 | 2.0 |

Planting Date: May 17

Harvest Date: September 6

¹All varieties are Hybrids. LL-Liberty Link, CL-Clearfield, RR-Roundup Ready
TR-Traditional Oil type, HO-High Oleic Oil Type

²Blackleg Rating: , R-Resistant. Ratings provided by the company.

³Status: CA-Commercially available, EXP-Experimental

⁴Roundup Ready check variety.

⁵Has clubroot resistance gene.

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Canola - Liberty Link, Clearfield, - 2019- Table 2 **Langdon**

| Company/Brand | Variety | Plant Height | LGD | Cover ² | Oil ¹ | Yield ¹ | | | | |
|--------------------------|---------------|-----------------|------|--------------------|------------------|--------------------|------|------|-------------|-------------|
| | | | | | | 2017 | 2018 | 2019 | 2yr Avg. | 3yr Avg. |
| | | inches | 0-9 | % | % | -----lbs/a----- | | | | |
| BASF | InVigor L233P | 46 | 5.5 | 92 | NA | 3770 | 3198 | 3528 | 3363 | 3499 |
| BASF | InVigor L255P | 48 | 2.0 | 92 | | 3807 | 3749 | 3937 | 3843 | 3831 |
| BASF | InVigor L234P | 43 | 6.5 | 86 | | -- | -- | 3394 | -- | -- |
| BASF | InVigor L252 | 48 | 2.8 | 90 | | 4047 | 3997 | 3681 | 3839 | 3908 |
| BASF | InVigor L230 | 46 | 1.8 | 91 | | 3559 | 3580 | 3521 | 3550 | 3553 |
| BASF | InVigor L345P | 49 | 4.0 | 91 | | -- | -- | 3947 | -- | -- |
| BASF | InVigor L352 | 48 | 3.0 | 90 | | -- | -- | 3499 | -- | -- |
| BrettYoung | 5545CL | 46 | 3.8 | 94 | | -- | -- | 3536 | -- | -- |
| Canterra Seeds | CS2500 CL | 47 | 1.8 | 89 | | -- | 3563 | 3234 | 3398 | -- |
| Cargill | 16MH6001 | 43 | 1.5 | 90 | | -- | -- | 3291 | -- | -- |
| Cargill | 16MH6004 | 46 | 2.0 | 88 | | -- | -- | 3109 | -- | -- |
| Dyna-Gro | DG 200CL | 50 | 4.3 | 88 | | 4008 | 3448 | 3216 | 3332 | 3557 |
| CROPLAN ³ | CP955RR-CK | 42 | 4.8 | 95 | | 3457 | 3477 | 3469 | 3473 | 3468 |
| Brett Young ³ | 4178 RR-CK | 50 | 1.3 | 93 | | -- | -- | 3684 | -- | -- |
| Trial Mean | | 47 | 3.1 | 90 | | 3499 | 3322 | 3432 | -- | -- |
| C.V. % | | 6.3 | 56.4 | 4.5 | | 9.7 | 6.3 | 8.2 | -- | -- |
| LSD 5% | | 4.2 | 2.5 | 5.8 | | 479 | 294 | 396 | -- | -- |
| LSD 10% | | 3.5 | 2.1 | 4.8 | | 400 | 245 | 331 | -- | -- |

¹ 8.5% moisture

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

³Roundup ready check variety.