

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

Barley - Dryland **Carrington**

| Variety | Days to Head | Plant Lodge 0 to 9 | Plant Height inch | Stem Breakage ¹ 1 to 10 | Plump >6/64 % | Thin <5/64 % | --- Grain Protein --- | | ----- Grain Yield ----- | | | |
|----------------|--------------|-----------------------|----------------------|---------------------------------------|------------------|-----------------|-----------------------|---------------------|-------------------------|---------------------------|------------|------------|
| | | | | | | | 2019 ----- % ----- | 3-yr. Avg. ----- | Test Weight lb/bu | 2019 ----- bu/ac ----- | 2-yr. Avg. | 3-yr. Avg. |
| Two Row | | | | | | | | | | | | |
| Conlon | 52.3 | 7.3 | 26.0 | 7.0 | 83.3 | 1.7 | 11.0 | 11.9 | 44.3 | 50.2 | 76.8 | 80.0 |
| Pinnacle | 54.8 | 5.0 | 28.1 | 4.5 | 72.4 | 3.9 | 10.7 | 11.0 | 39.4 | 49.6 | 66.6 | 78.2 |
| ND Genesis | 59.8 | 4.3 | 26.3 | 3.3 | 78.3 | 2.0 | 11.1 | 11.5 | 41.4 | 50.9 | 70.3 | 81.3 |
| AAC Synergy | 59.8 | 1.5 | 25.6 | 1.5 | 90.9 | 1.0 | 10.1 | 11.5 | 43.1 | 60.0 | 86.6 | 96.9 |
| ABI Balster | 61.5 | 3.5 | 26.7 | 2.8 | 81.0 | 2.6 | 11.5 | 12.1 | 41.5 | 55.5 | 80.0 | 90.2 |
| Explorer | 57.3 | 3.0 | 23.0 | 3.8 | 75.4 | 3.2 | 11.0 | 11.7 | 39.5 | 48.9 | 75.2 | 85.5 |
| AAC Connect | 57.5 | 0.3 | 27.1 | 0.3 | 80.4 | 2.2 | 10.8 | -- | 43.4 | 64.6 | -- | -- |
| CDC Bow | 61.5 | 1.0 | 28.1 | 0.8 | 94.2 | 0.8 | 10.6 | -- | 44.1 | 51.4 | -- | -- |
| CDC Fraser | 59.5 | 1.0 | 27.5 | 1.3 | 83.9 | 1.9 | 10.9 | -- | 41.6 | 61.9 | -- | -- |
| Lowe | 63.3 | 2.5 | 32.5 | 2.5 | 81.9 | 1.2 | 12.3 | 12.2 | 44.2 | 58.8 | 86.0 | 92.1 |
| Six Row | | | | | | | | | | | | |
| Tradition | 53.0 | 0.0 | 29.8 | 0.0 | 79.2 | 1.4 | 10.9 | 11.8 | 42.1 | 82.3 | 94.6 | 96.2 |
| Lacey | 54.0 | 0.3 | 27.8 | 0.5 | 83.4 | 1.0 | 12.1 | 12.2 | 43.4 | 76.5 | 93.3 | 95.0 |
| MEAN | 56.4 | 1.8 | 26.8 | 1.8 | 83.1 | 1.7 | 10.7 | -- | 42.3 | 61.5 | -- | -- |
| C.V. (%) | 1.9 | 71.7 | 8.3 | 55.7 | 6.1 | 32.7 | 7.0 | -- | 2.1 | 14.0 | -- | -- |
| LSD 0.10 | 1.2 | 1.5 | 2.6 | 1.2 | 6.0 | 0.7 | 0.9 | -- | 1.1 | 10.2 | -- | -- |
| LSD 0.05 | 1.5 | 1.8 | 3.1 | 1.4 | 7.1 | 0.8 | 1.0 | -- | 1.3 | 12.2 | -- | -- |

Planting Date = May 10; Harvest Date = August 7; Previous Crop = Flax

¹ Stem breakage, assessment of stems that are intact but result in exposing heads to lower reaches of the canopy. Scored 1 to 10 where 1 = no breakage to 10 = significant breakage.

Barley seeding rate used in this trial was 1,100,000 pure live seeds acre⁻¹.