



**Quality of Flaxseed Varieties from 2012 Harvest Sample Program**  
1CW Composites

| Variety <sup>1</sup> | No. of Samples | Oil                  | Protein              | FFA <sup>4</sup> | Iodine Value <sup>5</sup> | Fatty Acid Composition <sup>6</sup> |            |             |             |             |
|----------------------|----------------|----------------------|----------------------|------------------|---------------------------|-------------------------------------|------------|-------------|-------------|-------------|
|                      |                | Content <sup>2</sup> | Content <sup>3</sup> |                  |                           | C16:0                               | C18:0      | C18:1       | C18:2       | C18:3       |
|                      |                | %                    | %                    |                  |                           | %                                   | %          | %           | %           | %           |
| <b>Manitoba</b>      |                |                      |                      |                  |                           |                                     |            |             |             |             |
| CDC Bethune          | 16             | 43.6                 | 26.1                 | 0.23             | 185                       | 4.8                                 | 3.7        | 22.0        | 14.6        | 53.6        |
| CDC Sorrel           | 14             | 43.8                 | 25.3                 | 0.21             | 189                       | 5.0                                 | 3.6        | 20.4        | 13.3        | 56.5        |
| Hanley               | 5              | 42.3                 | 26.3                 | 0.12             | 193                       | 5.4                                 | 2.8        | 16.8        | 16.9        | 57.0        |
| Lightening           | 6              | 45.5                 | 24.8                 | 0.16             | 189                       | 4.7                                 | 3.7        | 19.7        | 15.2        | 55.6        |
| Taurus               | 6              | 45.1                 | 23.9                 | 0.16             | 189                       | 5.1                                 | 3.0        | 20.5        | 14.2        | 56.1        |
| <b>Means</b>         | <b>47</b>      | <b>44.1</b>          | <b>25.3</b>          | <b>0.18</b>      | <b>189</b>                | <b>5.0</b>                          | <b>3.4</b> | <b>19.9</b> | <b>14.8</b> | <b>55.8</b> |
| <b>Saskatchewan</b>  |                |                      |                      |                  |                           |                                     |            |             |             |             |
| CDC Arras            | 6              | 44.9                 | 22.7                 | 0.12             | 189                       | 5.7                                 | 3.8        | 18.4        | 15.0        | 56.0        |
| CDC Bethune          | 75             | 45.6                 | 21.9                 | 0.12             | 191                       | 4.9                                 | 3.4        | 19.0        | 15.4        | 56.3        |
| CDC Sorrel           | 43             | 45.4                 | 21.6                 | 0.15             | 193                       | 5.1                                 | 3.3        | 18.3        | 13.8        | 58.5        |
| Taurus               | 11             | 45.5                 | 22.3                 | 0.15             | 191                       | 5.3                                 | 2.8        | 20.0        | 13.9        | 57.0        |
| Vimy                 | 16             | 45.3                 | 23.0                 | 0.13             | 192                       | 5.4                                 | 3.5        | 18.0        | 14.4        | 57.8        |
| <b>Means</b>         | <b>151</b>     | <b>45.3</b>          | <b>22.3</b>          | <b>0.13</b>      | <b>191</b>                | <b>5.3</b>                          | <b>3.3</b> | <b>18.8</b> | <b>14.5</b> | <b>57.1</b> |

<sup>1</sup> as indicated on submitted envelopes

<sup>2</sup> moisture-free basis

<sup>3</sup> %N x 6.25; moisture-free basis

<sup>4</sup> % free fatty acids in oil, expressed as percentage oleic acid

<sup>5</sup> calculated from fatty acid composition

<sup>6</sup> % of fatty acids including: Palmitic (C16:0), Stearic (C18:0), Oleic (C18:1), Linoleic (C18:2), and Linolenic (C18:3), Arachidic (C20:0), Eicosenoic (C20:1), Behenic (C22:0), and Lignoceric (C24:0)