

**Soybean Variety Trial at Garrison**

Cooperators: Brian and Roger Bendickson, Garrison

| Company/Brand  | Variety       | Herbicide System | Maturity Group | IDC Rating | Plant Height | Protein % | Oil % | Test Weight | Yield -----              |      |      |      |      |
|----------------|---------------|------------------|----------------|------------|--------------|-----------|-------|-------------|--------------------------|------|------|------|------|
|                |               |                  |                |            |              |           |       |             | 2015                     | 2016 | 2018 | 2 yr | 3 yr |
|                |               |                  |                |            |              |           |       |             | ----- bushels/acre ----- |      |      |      |      |
| Proseed        | 30-20         | RR               | 0.2            | 2.5        | 26           | 34.7      | 15.9  | 56.9        | 29.9                     | 38.1 | 41.7 | 39.9 | 36.6 |
| Proseed        | 10-08         | RR               | 00.8           | 1.9        | 26           | 33.5      | 16.1  | 57.4        | 32.7                     | 36.2 | 36.6 | 36.4 | 35.2 |
| Proseed        | 20-30         | RR               | 0.3            | 2.7        | 24           | 34.8      | 15.3  | 56.9        | --                       | --   | 45.4 | --   | --   |
| Dairyland Seed | DSR-0397/R2Y  | RR               | 0.3            | 2.2        | 29           | 34.1      | 15.9  | 57.4        | --                       | --   | 44.7 | --   | --   |
| Dairyland Seed | DSR-0309R     | GT               | 0.3            | 2.7        | 24           | 34.5      | 16.2  | 57.3        | --                       | --   | 41.0 | --   | --   |
| Dairyland Seed | DSR-0200/R2Y  | RR               | 0.2            | 1.8        | 28           | 34.1      | 15.8  | 58.0        | --                       | --   | 32.2 | --   | --   |
| Dairyland Seed | DSR-0225/R2Y  | RR               | 0.1            | 2.3        | 28           | 34.6      | 16.4  | 57.2        | --                       | --   | 31.7 | --   | --   |
| Integra        | 20126         | RR               | 0.1            | 2.5        | 25           | 35.5      | 15.8  | 56.4        | 49.9                     | 33.7 | 37.5 | 35.6 | 40.4 |
| Integra        | 20215         | RR               | 0.2            | 2.6        | 27           | 34.2      | 15.7  | 57.6        | 33.5                     | 35.6 | 37.0 | 36.3 | 35.4 |
| Integra        | 50309N        | XT               | 0.3            | 1.8        | 25           | 34.6      | 15.0  | 57.4        | --                       | --   | 36.6 | --   | --   |
| LG Seeds       | LGS0355RX     | XT               | 0.3            | 1.8        | 26           | 32.7      | 15.6  | 57.4        | --                       | --   | 45.8 | --   | --   |
| LG Seeds       | LGS00909R2    | RR               | 00.9           | 2.0        | 26           | 33.1      | 16.1  | 57.5        | --                       | --   | 38.1 | --   | --   |
| LG Seeds       | LGS0111RX     | XT               | 0.1            | 2.4        | 25           | 34.4      | 16.1  | 57.2        | --                       | --   | 36.3 | --   | --   |
| LG Seeds       | LGS0224R2     | RR               | 0.2            | 2.6        | 23           | 34.6      | 15.6  | 57.4        | --                       | --   | 35.8 | --   | --   |
| REA Hybrids    | RX0327        | XT               | 0.3            | 2.2        | 21           | 34.5      | 15.8  | 56.7        | --                       | --   | 34.2 | --   | --   |
| REA Hybrids    | RX0516        | XT               | 0.5            | 3.1        | 22           | 35.3      | 15.1  | 57.6        | --                       | --   | 33.8 | --   | --   |
| Peterson       | 16R01         | RR               | 0.1            | 2.5        | 30           | 34.5      | 16.5  | 57.2        | 36.1                     | 32.8 | 37.3 | 35.1 | 35.4 |
| Peterson       | 17X04N        | XT               | 0.4            | 2.4        | 22           | 34.3      | 16.2  | 57.1        | --                       | 36.0 | 39.4 | 37.7 | --   |
| Legacy Seeds   | LS-0334 RR2   | RR               | 0.3            | 2.3        | 24           | 35.0      | 15.7  | 57.1        | 41.4                     | 41.0 | 42.1 | 41.6 | 41.5 |
| Legacy Seeds   | LS-0135 RR2   | RR               | 00.9           | 2.6        | 29           | 34.1      | 16.8  | 57.2        | 30.9                     | 37.3 | 36.8 | 37.0 | 35.0 |
| Legacy Seeds   | LS-0337N RR2X | XT               | 0.3            | 2.2        | 22           | 34.3      | 16.0  | 57.1        | --                       | 34.6 | 40.2 | 37.4 | --   |
| Legacy Seeds   | LS-0239N RR2X | XT               | 0.2            | 1.8        | 26           | 33.1      | 15.7  | 57.5        | --                       | --   | 37.9 | --   | --   |
| Legacy Seeds   | LS-0438 RR2X  | XT               | 0.4            | 2.6        | 24           | 35.4      | 15.5  | 57.3        | --                       | --   | 36.4 | --   | --   |
| Legacy Seeds   | LS-0237 RR2X  | XT               | 0.2            | 2.7        | 29           | 33.7      | 16.5  | 57.4        | --                       | --   | 31.6 | --   | --   |
| Dyna-Gro       | S03XT29       | XT               | 0.3            | 1.8        | 24           | 34.1      | 15.2  | 57.5        | --                       | --   | 40.6 | --   | --   |
| Dyna-Gro       | S05XT88       | XT               | 0.5            | 2.4        | 23           | 35.2      | 15.7  | 57.0        | --                       | --   | 38.9 | --   | --   |
| Dyna-Gro       | S04XT77       | XT               | 0.4            | 2.3        | 21           | 34.9      | 15.7  | 57.4        | --                       | --   | 37.5 | --   | --   |
| NDSU           | ND17009GT     | GT               | 00.9           | 3.1        | 27           | 36.7      | 15.5  | 58.6        | --                       | --   | 33.6 | --   | --   |
| NDSU           | ND18008GT     | GT               | 00.8           | 2.6        | 25           | 34.4      | 16.4  | 57.3        | --                       | --   | 30.0 | --   | --   |
| Trial Mean     |               |                  |                | 2.4        | 25           | 34.5      | 15.8  | 57.3        | 33.0                     | 35.6 | 37.2 | --   | --   |
| C.V.%          |               |                  |                | 14.1       | 6.6          | 2.0       | 2.5   | 0.6         | 12.1                     | 12.2 | 8.8  | --   | --   |
| LSD 5%         |               |                  |                | 0.3        | 2            | 1.0       | 0.6   | 0.4         | 5.6                      | 6.1  | 4.6  | --   | --   |
| LSD 10%        |               |                  |                | 0.3        | 2            | 0.8       | 0.5   | 0.4         | 4.7                      | 5.1  | 3.9  | --   | --   |

<sup>a</sup> IDC rating = Iron deficiency chlorosis rating: 1 - green, 3 - yellow, 5 - dead

Planting Date: May 22

Harvest Date: September 28

Planting Rate: 150,000 PLS/A

Row Spacing: Solid Seeded (7" rows)

Soil Type: Williams Bowbells loam

Tillage: No-till

*Previous Crop: 2014 = barley, 2015 = canola, 2017 = spring wheat*

*Note: Protein, oil, test weight and yield are adjusted to 13% moisture. No data for 2017.*