

Soybean Variety Trial at Rugby

Cooperators: Dave Teigen and the Pierce County Crop Improvement Assoc.

| Company/Brand | Variety | Herbicide System | Maturity Group | IDC Rating | Plant Height inches | Protein % | Oil % | Test Weight lbs/bu | Yield ----- | | | |
|----------------|---------------|------------------|----------------|------------|------------------------|-----------|-------|-----------------------|-------------|------|------|----|
| | | | | | | | | | 2018 | 2019 | Avg. | |
| REA Hybrids | RX00749 | XT | 00.7 | 1.8 | 23 | 33.7 | 15.8 | 56.6 | 55.9 | 33.2 | 44.6 | |
| REA Hybrids | RX00810 | XT | 00.8 | 2.4 | 21 | 33.2 | 16.3 | 56.1 | -- | 38.6 | -- | |
| REA Hybrids | RX0228 | XT | 0.2 | 1.6 | 26 | 33.7 | 15.9 | 56.3 | 60.1 | 39.6 | 49.9 | |
| REA Hybrids | RX0330 | XT | 0.3 | 1.9 | 24 | 33.3 | 15.2 | 55.9 | -- | 41.7 | -- | |
| LG Seeds | LGS00663RX | XT | 00.6 | 2.1 | 21 | 33.6 | 15.7 | 57.5 | -- | 33.5 | -- | |
| LG Seeds | LGS00899RX | XT | 00.8 | 2.3 | 24 | 33.0 | 16.4 | 56.4 | -- | 38.6 | -- | |
| LG Seeds | LGS0111RX | XT | 0.1 | 2.6 | 27 | 33.8 | 16.1 | 56.0 | -- | 45.7 | -- | |
| Integra | 50001 R2X | XT | 00.1 | 2.5 | 23 | 33.7 | 15.8 | 56.0 | -- | 41.8 | -- | |
| Integra | 40129 E3 | EN | 0.1 | 1.4 | 22 | 32.2 | 16.2 | 56.0 | -- | 34.6 | -- | |
| Integra | 40209 E3 | EN | 0.2 | 2.3 | 22 | 33.3 | 15.6 | 55.8 | -- | 35.9 | -- | |
| Integra | 20215 R2Y | RR | 0.2 | 2.2 | 24 | 33.7 | 15.5 | 56.6 | 54.8 | 41.9 | 48.4 | |
| Integra | 50309N R2X | XT | 0.3 | 1.5 | 24 | 32.8 | 15.3 | 56.7 | 66.3 | 40.7 | 53.5 | |
| Proseed | XT 60-09 | XT | 00.9 | 2.2 | 26 | 32.7 | 16.6 | 56.7 | -- | 37.5 | -- | |
| Proseed | EL 80-093 | EN | 00.9 | 2.2 | 24 | 32.8 | 16.3 | 56.5 | -- | 38.9 | -- | |
| Proseed | 50-10 | RR | 0.1 | 2.9 | 29 | 33.1 | 16.4 | 56.7 | -- | 42.5 | -- | |
| Proseed | XT 80-20 | XT | 0.2 | 1.6 | 25 | 32.6 | 15.4 | 56.4 | -- | 44.0 | -- | |
| Peterson Farms | 18X008 | XT | 00.8 | 2.3 | 27 | 32.8 | 16.6 | 56.5 | -- | 35.2 | -- | |
| Peterson Farms | 19EN008 | EN | 00.8 | 1.6 | 25 | 32.7 | 16.1 | 56.5 | -- | 40.5 | -- | |
| Peterson Farms | 20X01 | XT | 0.1 | 3.2 | 22 | 33.3 | 16.1 | 56.3 | -- | 35.6 | -- | |
| P3 Genetics | 2002E | EN | 0.2 | -- | 21 | 33.2 | 15.8 | 56.0 | -- | 37.7 | -- | |
| NorthStar | NS 90214E3 | EN | 0.2 | 2.5 | 21 | 33.6 | 15.5 | 55.7 | -- | 42.0 | -- | |
| NorthStar | NS 60264NXR2 | XT | 0.2 | 1.8 | 23 | 33.0 | 15.5 | 56.3 | 57.3 | 46.5 | 51.9 | |
| NorthStar | NS 90334E3 | EN | 0.3 | 2.4 | 22 | 33.2 | 15.5 | 56.5 | -- | 46.3 | -- | |
| Legacy Seeds | LS-00930 RR2X | XT | 00.9 | 2.6 | 23 | 33.3 | 15.9 | 56.5 | -- | 43.4 | -- | |
| Legacy Seeds | LS-0239N RR2X | XT | 0.2 | 1.7 | 25 | 33.1 | 15.2 | 56.7 | 53.8 | 40.5 | 47.1 | |
| Legacy Seeds | LS-0429 E3 | EN | 0.4 | 1.8 | 24 | 34.0 | 15.9 | 55.6 | -- | 40.9 | -- | |
| Legacy Seeds | LS-0438 RR2X | XT | 0.4 | 2.6 | 23 | 34.0 | 15.9 | 55.7 | -- | 41.0 | -- | |
| NDSU | ND18008GT | GT | 00.7 | 2.8 | 21 | 33.7 | 16.7 | 56.5 | 56.2 | 36.8 | 46.5 | |
| NDSU | ND17009GT | GT | 00.9 | 3.1 | 24 | 35.0 | 16.6 | 58.6 | 57.4 | 35.3 | 46.3 | |
| Trial Mean | | | | | 2.4 | 24 | 33.3 | 15.9 | 56.4 | 58.6 | 39.4 | -- |
| C.V.% | | | | | 22.6 | 7.6 | 1.3 | 1.7 | 0.7 | 6.4 | 9.1 | -- |
| LSD 5% | | | | | 0.4 | 3 | 0.6 | 0.4 | 0.5 | 5.2 | 5.0 | -- |
| LSD 10% | | | | | 0.3 | 2 | 0.5 | 0.3 | 0.4 | 4.4 | 4.2 | -- |

^a IDC rating = Iron deficiency chlorosis rating: 1 - green, 3 - yellow, 5 - dead

Planting Date: May 23

Harvest Date: October 21

Planting Rate: 150,000 PLS/A

Row Spacing: Solid Seeded (7" rows)

Soil Type: Gardena silt loam

Tillage: Minimum Till

Previous Crop: 2017 = Barley, 2018 = soybean

Note: Protein, oil, test weight and yield are adjusted to 13% moisture.