

Misc. Bean Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2018

| Variety          | Market Class | Days to + Maturity (DAP ) | Canopy Height (inch) | Plant Lodge (0 to 9*) | 1000 KWT (gram) | Seeds/ Pound | Test Weight (lb/bu) | Yield       |                  |
|------------------|--------------|---------------------------|----------------------|-----------------------|-----------------|--------------|---------------------|-------------|------------------|
|                  |              |                           |                      |                       |                 |              |                     | 2018 (lb/a) | 2-Yr Avg† (lb/a) |
| Eclipse          | BL           | 114                       | 11                   | 0                     | 21.6            | 2108         | 61.5                | 1796.3      | 3231.7           |
| Loreto           | BL           | 114                       | 13                   | 0                     | 19.9            | 2289         | 63.0                | 1713.4      | 2836.7           |
| Zorro            | BL           | 107                       | 12                   | 1                     | 19.4            | 2352         | 62.1                | 1310.9      | 2695.5           |
| Rosetta          | PK           | 116                       | 13                   | 0                     | 33.9            | 1339         | 61.2                | 1429.2      | 2331.6           |
| Powderhorn       | GN           | 106                       | 11                   | 1                     | 35.1            | 1294         | 56.9                | 1593.1      | -                |
| <b>MEAN</b>      |              | 113.0                     | 12.5                 | 0.3                   | 23.68           | 2022.1       | 61.52               | 1542.85     | 2673.53          |
| <b>C.V. (%)</b>  |              | -                         | -                    | -                     | 3.14            | -            | 1.11                | 16.09       | -                |
| <b>LSD (5%)</b>  |              | -                         | -                    | -                     | 1.26            | -            | 1.04                | 388.83      | -                |
| <b>LSD (10%)</b> |              | -                         | -                    | -                     | 1.03            | -            | 0.85                | 318.07      | -                |

Days after planting \* 0: no lodging - 9: plants lying flat on the ground † 2 Year Average figured on yields from 2016 and 2018

Location: Latitude 48 9.9222'N; Longitude 103 6.132'W Elevation: 1902 ft

Soil test to (0-6"): P=16 ppm; K=126 ppm; pH=7.5; OM=2.1% Previous crop: Soybean

(0-24"): NO3-N= 42 lb/a Planted: 5/14/2018

Applied fertilizer in lb/a broadcast: 105 lbs of 46-0-0 (5/1/2018) Harvested: 10/8/2018

Yield goal: 2500 lb/a Soil Type: Lihen Loamy Fine Sand

Planting population: 125,000 seeds/a Plot size: 61.25 ft<sup>2</sup>

Herbicides applied: Prowl H2O 1.5 pt/a (5/15/2018), Section 3EC 8 oz/a (6/4/2018), Rainfall: 11.3 in (5/14/2018 - 10/8/2018)

Raptor 5 oz/a, Trophy Gold 1 qt/100 gal, 28-0-0 2 qt/a (6/6/2018), Irrigation: 11.9 in (5/14/2018 - 10/8/2018)

Gramaxone 2 pt/a, R-11 2 qt/100 gal (9/7/2018)

Fungicides applied: Headline 12 oz/a (7/3/2018)

Market Classes: BL = Black, GN = Great Northern, PK = Pink