

## Corn Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2018

| Variety          | Company / Brand | Relative Maturity | Days to Silk (DAP*) | Ear Height (in) | Harvest Moisture (%) | Test Weight (lb/bu) | Yield†      |                 |
|------------------|-----------------|-------------------|---------------------|-----------------|----------------------|---------------------|-------------|-----------------|
|                  |                 |                   |                     |                 |                      |                     | 2018 (bu/a) | 2-Yr Avg (bu/a) |
| 2B861            | REA Hybrid      | 86                | 63                  | 38              | 19.6                 | 51.1                | 223.9       | 227.8           |
| 1B811            | REA Hybrid      | 81                | 63                  | 35              | 18.3                 | 53.5                | 188.8       | 208.1           |
| H3902VT2PRIB     | Hefty           | 89                | 64                  | 38              | 20.2                 | 50.3                | 225.9       | -               |
| RC 3601          | Rob-See-Co      | 86                | 62                  | 37              | 20.0                 | 52.1                | 215.0       | -               |
| IC 2737          | Innotech        | 77                | 61                  | 34              | 19.7                 | 53.2                | 207.0       | -               |
| H3302VT2PRIB     | Hefty           | 83                | 63                  | 38              | 18.9                 | 52.8                | 204.4       | -               |
| H4102VT2PRIB     | Hefty           | 91                | 67                  | 38              | 24.5                 | 47.5                | 201.0       | -               |
| 1B780            | REA Hybrid      | 79                | 62                  | 35              | 18.5                 | 52.4                | 198.3       | -               |
| H3712VT2PRIB     | Hefty           | 87                | 65                  | 37              | 20.7                 | 49.0                | 197.3       | -               |
| H4012VT2PRIB     | Hefty           | 90                | 67                  | 37              | 24.6                 | 47.0                | 195.7       | -               |
| H4612VT2PRIB     | Hefty           | 96                | 65                  | 40              | 24.3                 | 50.6                | 192.3       | -               |
| 3282 VT2PRO      | Integra         | 82                | 63                  | 39              | 18.9                 | 51.8                | 189.1       | -               |
| 2B872            | REA Hybrid      | 86                | 64                  | 36              | 18.7                 | 51.8                | 188.6       | -               |
| 3537 VT2PRIB     | Integra         | 85                | 64                  | 37              | 19.6                 | 50.4                | 187.2       | -               |
| IC 3041          | Innotech        | 80                | 61                  | 36              | 19.4                 | 55.5                | 182.7       | -               |
| H2802VT2PRIB     | Hefty           | 78                | 63                  | 38              | 18.6                 | 52.4                | 174.0       | -               |
| H2602VT2PRIB     | Hefty           | 76                | 59                  | 36              | 18.2                 | 55.5                | 172.0       | -               |
| H2512VT2PRIB     | Hefty           | 75                | 58                  | 35              | 19.6                 | 56.1                | 169.0       | -               |
| RC3418           | Rob-See-Co      | 84                | 64                  | 33              | 21.2                 | 49.1                | 155.1       | -               |
| <b>MEAN</b>      |                 |                   | 62.6                | 36.4            | 20.11                | 51.86               | 190.68      | 208.13          |
| <b>C.V. (%)</b>  |                 |                   | -                   | -               | 10.46                | 4.14                | 12.33       | -               |
| <b>LSD (5%)</b>  |                 |                   | -                   | -               | 2.99                 | 3.03                | 33.75       | -               |
| <b>LSD (10%)</b> |                 |                   | -                   | -               | 2.50                 | 2.53                | 28.17       | -               |

\* Days after planting †Yields adjusted to harvest moisture

Location: Latitude 48 9.9222°N; Longitude 103 6.132°W

Elevation: 1902 ft

Soil test to (0-6"): P=24 ppm; K=207 ppm; pH=7.8; OM=2.3%

Previous crop: Barley

(0-24"): NO3-N= 42 lb/a

Planted: 5/21/2018

Applied fertilizer in lb/a broadcast: 188 lbs of 46-0-0 (5/1/2018)

Harvested: 11/20/2018

Yield goal: 190 bu/a

Soil Type: Lihen Loamy Fine Sand

Planting population: 38,000 seeds/a

Plot size: 61.25 ft<sup>2</sup>

Herbicides applied: Cornerstone Plus 24 oz/a, Class Act 1 gal/100 gal (6/8/2018) Rainfall: 11.1 in (5/21/2018 - 11/20/2018)

Fungicides applied: none

Irrigation: 11.9 in (5/21/2018 - 11/20/2018)