

## **2010 Sawfly Tolerance Variety Trial - Continuously Cropped - No-till at Scranton**

Cooperators: Neal and Justin Freitag, Scranton

| Variety                              | Plant<br>Height | Test<br>Weight | Grain<br>Protein | ---- Grain Yield ---- |      |      | <u>Average Yield</u> |      |
|--------------------------------------|-----------------|----------------|------------------|-----------------------|------|------|----------------------|------|
|                                      | inches          | lbs/bu         | %                | 2008                  | 2009 | 2010 | 2 yr                 | 3 yr |
| ----- Bushels per acre -----         |                 |                |                  |                       |      |      |                      |      |
| <b><i>Tolerant Varieties</i></b>     |                 |                |                  |                       |      |      |                      |      |
| Mott                                 | 37              | 58.7           | 13.0             | 18.3                  | 58.5 | 65.2 | 61.8                 | 47.3 |
| Vida                                 | 35              | 57.9           | 13.1             | 11.4                  | 54.9 | 66.4 | 60.6                 | 44.2 |
| Choteau                              | 33              | 57.7           | 12.9             | 8.3                   | 53.0 | 66.8 | 59.9                 | 42.7 |
| AC Lillian                           | 40              | 56.5           | 14.0             | 11.7                  | 47.3 | 61.5 | 54.4                 | 40.2 |
| Conan                                | 31              | 56.2           | 13.9             | 10.7                  | 45.4 | 54.5 | 50.0                 | 36.9 |
| <b><i>Conventional Varieties</i></b> |                 |                |                  |                       |      |      |                      |      |
| Reeder                               | 33              | 57.2           | 13.6             | 11.6                  | 52.4 | 64.3 | 58.4                 | 42.8 |
| Steele-ND                            | 35              | 58.4           | 13.3             | 10.0                  | 53.1 | 61.8 | 57.4                 | 41.6 |
| Glenn                                | 35              | 61.2           | 13.5             | 6.8                   | 44.2 | 63.9 | 54.0                 | 38.3 |
| <b><i>Durum Varieties</i></b>        |                 |                |                  |                       |      |      |                      |      |
| Mountrail                            | 36              | 57.7           | 11.8             | 9.6                   | 54.4 | 77.0 | 65.7                 | 47.0 |
| Divide                               | 37              | 58.6           | 12.5             | 8.8                   | 50.5 | 74.1 | 62.3                 | 44.5 |
| Alkabo                               | 34              | 58.6           | 12.0             | 8.9                   | 47.1 | 70.0 | 58.6                 | 42.0 |
| Grenora                              | 33              | 57.1           | 12.0             |                       |      | 72.1 |                      |      |
| Trial Mean                           | 31              | 57.8           | 13.9             | 21.4                  | 60.9 | 58.2 | --                   | --   |
| C.V. %                               | 6.7             | 1.8            | 2.3              | 7.1                   | 11.2 | 5.2  | --                   | --   |
| LSD .05                              | 3               | 1.5            | 0.5              | 2.2                   | 9.8  | 4.4  | --                   | --   |
| LSD .01                              | 4               | 2.0            | 0.6              | 2.9                   | 13.3 | 5.9  | --                   | --   |

Planting Date: April 21

Harvest Date: August 17

Seeding Rate: 1.1 million live seeds / acre (approx. 1.6 bu/A).

Previous Crop: 2007, 2008 & 2009 = hrsw.

Note: The 2008 trial sustained severe heat and moisture stress.