

MSU Soil Fertility Research Program  
**RESPONSE OF WHITE WINTER WHEAT TO VARIOUS RATES OF NITROGEN**  
 Trial ID: WHT06-18.19    Location: CAMPUS    Trial Year: 2018  
 Investigator: Kurt Steinke  
 Project ID: NITROCAMP

|                    |                |           |           |                |                 |              |          |
|--------------------|----------------|-----------|-----------|----------------|-----------------|--------------|----------|
| Crop Code          | TRZAW          |           |           |                |                 |              |          |
| Crop Name          | Winter wheat   |           |           |                |                 |              |          |
| Crop Variety       | Starburst      |           |           |                |                 |              |          |
| Description        | Yield          |           |           |                |                 |              |          |
| Rating Date        | Jul-23-2019    |           |           |                |                 |              |          |
| Rating Type        | YIELD          |           |           |                |                 |              |          |
| Rating Unit        | bu/ac          |           |           |                |                 |              |          |
| Crop Stage Scale   | HARVEST        |           |           |                |                 |              |          |
| ARM Action Codes   | ET6            |           |           |                |                 |              |          |
| Number of Decimals | 1              |           |           |                |                 |              |          |
| Trt No.            | Treatment Name | Form Conc | Form Type | Rate Rate Unit | Other Rate Unit | Growth Stage | 5        |
| 1                  | Check          |           |           |                |                 |              | 68.5 d   |
| 2                  | 28% Nitrogen   | 3         | AL        | 50 lb ai/a     | 16.7 gal/a      | GRNUP        | 90.1 c   |
| 3                  | 28% Nitrogen   | 3         | AL        | 100 lb ai/a    | 33.3 gal/a      | GRNUP        | 101.2 b  |
| 4                  | 28% Nitrogen   | 3         | AL        | 150 lb ai/a    | 50 gal/a        | GRNUP        | 107.7 ab |
| 5                  | 28% Nitrogen   | 3         | AL        | 140 lb ai/a    | 46.7 gal/a      | GRNUP        | 115.2 a  |
|                    | 28% Nitrogen   | 3         | AL        | 60 lb ai/a     | 20 gal/a        | FKS5         |          |
| 6                  | 28% Nitrogen   | 3         | AL        | 175 lb ai/a    | 58.3 gal/a      | GRNUP        | 115.0    |
|                    | 28% Nitrogen   | 3         | AL        | 75 lb ai/a     | 25 gal/a        | FKS5         |          |
| 7                  | 28% Nitrogen   | 3         | AL        | 210 lb ai/a    | 70 gal/a        | GRNUP        | 114.9 a  |
|                    | 28% Nitrogen   | 3         | AL        | 90 lb ai/a     | 30 gal/a        | FKS5         |          |
| LSD P=.05          |                |           |           |                |                 |              | 8.93     |
| Standard Deviation |                |           |           |                |                 |              | 5.92     |
| CV                 |                |           |           |                |                 |              | 5.95     |
| Replicate F        |                |           |           |                |                 |              | 6.032    |
| Replicate Prob(F)  |                |           |           |                |                 |              | 0.0066   |
| Treatment F        |                |           |           |                |                 |              | 36.573   |
| Treatment Prob(F)  |                |           |           |                |                 |              | 0.0001   |

Crop Code  
 TRZAW, BCER, Triticum aestivum, Winter wheat = US  
Rating Type  
 YIELD = yield  
Rating Unit  
 bu/ac = bushels per acre  
ARM Action Codes  
 ET6 = Excluded treatment 6

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.