**Disclaimer:**
This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern.**
Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge.
***Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.***

# N management in wheat 2014

**Trial ID:** RN1415 **Location:** Moree **Trial Year:** 2014
**Protocol ID:** NGA1408 **Investigator:** Rachel Norton

| | | | |
|---|---|---|---|
| **Crop/Variety:** | **Wheat cv. EGA Gregory** | | |
| **Planting Date:** | **20/05/2014** | | |
| **Planting Equipment:** | **Small plot tyne planter** | | |
| **Row Spacing:** | **32cm** | | |
| **Target plant stand:** | **100 pl/m2** | | |
| **Application Code:** | **A** | **B** | **C** |
| **Application Date:** | **20/5/2014** | **20/5/2014** | **22/7/2014** |
| **Target/Stage:** | **Planting/ IBS** | **PSPE** | **GS 30** |

| **Rating Date:** | | | | **25/06/2014** | **01/08/2014** | **01/09/2014** | **03/11/2014** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rating Type:** | | | | **EMERGE** | **NDVI** | **NDVI** | **YIELD** | **PROTEIN** | **TEST WEIGHT** | **SCREENINGS** | **N RECOVERY** |
| **Rating Unit:** | | | | **/m2** | **RATIO** | **RATIO** | **kg/ha** | **%** | **kg/hL** | **%** | **kg N/ha** |
| **Days After First/Last Application:** | | | | **36 36** | **73 10** | **104 41** | **167 104** | **167 104** | **167 104** | **167 104** | **167 104** |
| **Trt No.** | **Treatment** | **Nitrogen Rate** | **Appln Code** | | | | | | | | |
| 1 | Untreated | | - | 55.5 - | 0.73 - | 0.75a-e | 4061 - | 9.5e | 82.2 - | 1.5 - | 67.8e |
| 2 | Urea | 50kg/ha | A | 55.5 - | 0.72 - | 0.78a-d | 4264 - | 10.0cde | 81.1 - | 2.3 - | 74.5b-e |
| 3 | Urea | 100kg/ha | A | 60.0 - | 0.70 - | 0.75a-f | 4379 - | 10.5abc | 81.5 - | 1.1 - | 80.7ab |
| 4 | Urea | 200kg/ha | A | 59.5 - | 0.71 - | 0.76a-e | 4364 - | 10.9a | 81.8 - | 2.6 - | 83.2a |
| 5 | Urea | 50kg/ha | A | 55.8 - | 0.70 - | 0.78a-d | 4426 - | 10.8ab | 81.6 - | 1.6 - | 83.7a |
| | Urea | 50kg/ha | C | | | | | | | | |
| 6 | Urea | 100kg/ha | B | 58.5 - | 0.71 - | 0.77a-e | 4366 - | 10.6abc | 81.7 - | 2.1 - | 80.6ab |
| 7 | ESN | 30kg/ha | A | 58.0 - | 0.69 - | 0.75b-f | 4092 - | 10.0cde | 81.8 - | 1.5 - | 71.6cde |
| | Urea | 20kg/ha | A | | | | | | | | |
| 8 | ESN | 38kg/ha | A | 56.5 - | 0.75 - | 0.79ab | 4179 - | 9.8de | 82.1 - | 1.2 - | 71.8cde |
| | Urea | 25kg/ha | A | | | | | | | | |
| 9 | ESN | 60kg/ha | A | 54.0 - | 0.70 - | 0.75a-f | 4135 - | 10.5a-d | 82.0 - | 1.4 - | 75.5bcd |
| | Urea | 40kg/ha | A | | | | | | | | |
| 10 | Agrocote N38 | 15kg/ha | A | 58.0 - | 0.65 - | 0.73def | 4277 - | 10.4a-d | 80.5 - | 1.7 - | 77.4abc |
| | Urea | 35kg/ha | A | | | | | | | | |
| 11 | Agrocote N38 | 25kg/ha | A | 53.5 - | 0.69 - | 0.73ef | 4102 - | 9.8de | 82.1 - | 2.0 - | 70.5de |
| | Urea | 59kg/ha | A | | | | | | | | |
| 12 | Agrocote N38 | 30kg/ha | A | 55.8 - | 0.69 - | 0.74b-f | 4221 - | 10.2bcd | 82.0 - | 1.2 - | 75.5bcd |
| | Urea | 70kg/ha | A | | | | | | | | |
| 13 | eNtrench | 2.5l/ha | A | 55.3 - | 0.67 - | 0.74b-f | 3961 - | 10.2cde | 82.0 - | 1.7 - | 70.2de |
| | Urea | 50kg/ha | A | | | | | | | | |
| 14 | eNtrench | 2.5l/ha | A | 58.0 - | 0.72 - | 0.80a | 4348 - | 10.2bcd | 81.6 - | 1.6 - | 77.5abc |
| | Urea | 62kg/ha | A | | | | | | | | |
| 15 | eNtrench | 2.5l/ha | A | 61.0 - | 0.70 - | 0.71f | 4209 - | 10.3bcd | 82.3 - | 1.7 - | 75.4bcd |
| | Urea | 100kg/ha | A | | | | | | | | |
| 16 | Entec | 50kg/ha | A | 61.0 - | 0.70 - | 0.73c-f | 4137 - | 10.4a-d | 81.5 - | 1.9 - | 75.0bcd |
| 17 | Entec | 89kg/ha | A | 58.5 - | 0.64 - | 0.76a-e | 4180 - | 9.9cde | 81.7 - | 1.9 - | 72.6cde |
| 18 | Entec | 100kg/ha | A | 61.0 - | 0.74 - | 0.78abc | 4323 - | 10.3a-d | 81.3 - | 2.0 - | 77.6abc |
| | | | LSD P=.05 | 7.94 | 0.088 | 0.048 | 300.3 | 0.64 | 1.03 | 0.15 | 6.78 |
| | | | CV | | | | 5.0 | | | | |
| | | | Treatment Prob.(F) | 0.7552 | 0.6167 | 0.0401 | 0.1436 | 0.0082 | 0.1705 | 0.1971 | 0.0003 |

Means followed by same letter do not significantly differ (P=.05, LSD)
t=Mean descriptions are reported in transformed data units, and are not de-transformed.
Mean comparisons performed only when AOV Treatment P (F) is significant at mean comparison OSL.
Missing data estimates are included in columns: Yates=7

| Application Description | | | |
|---|---|---|---|
| | A | B | C |
| Application Date: | 20/5/14 | 20/5/14 | 22/7/14 |
| Application Start Time: | | | 1.30pm |
| Application Method: | SPREAD | SPREAD | SPREAD |
| Application Timing: | PREPLA | PSPE | GS30 |
| Applied By: | MC | MC | RN |
| Dew Presence (Y/N): | | | N no |
| Soil Moisture: | | | VERY DRY |
| % Cloud Cover: | | | 60 |

| Application Equipment | | | |
|---|---|---|---|
| | A | B | C |
| Application Equipment: | Hand spread | | |
| Equipment Type: | MANUAL SPREAD | | |