

Project: N for protein - Product comparison

Trial: AM1309

District: Narrabri

Variety: Suntop

Planting date: 30/05/2013

Application date: 25/09/2013 Mid flowering

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.

| Trt No | Product | Units of N applied (kg/ha) | Method | 21/06/2013 Establishment Plants/m ² | 8/11/2013 Yield | |
|--------|--------------------|----------------------------|--------|--|-----------------|----------------|
| | | | | | kg/ha | % of Untreated |
| 1 | Untreated | - | - | 76 | 3275 | - |
| 2 | Urea | 20 | Spread | 81 | 3563 | 109 |
| 3 | Urea | 40 | Spread | 77 | 3381 | 103 |
| 4 | Ranger | 20 | Foliar | 77 | 3281 | 100 |
| 5 | Ranger | 40 | Foliar | 84 | 3256 | 99 |
| 6 | N42 | 20 | Foliar | 71 | 3444 | 105 |
| 7 | N42 | 40 | Foliar | 71 | 3263 | 100 |
| 8 | Ranger with Ni & S | 20 | Foliar | 90 | 3399 | 104 |
| 9 | Ranger with Ni & S | 40 | Foliar | 78 | 3256 | 99 |
| P = | | | | 0.40 | 0.80 | |
| LSD = | | | | nsd | nsd | |
| CV = | | | | | 8.5 | |

| Trt No | Product | Units of N applied (kg/ha) | Method | Grain Quality | | | | |
|--------|--------------------|----------------------------|--------|---------------|------------|-------------------|--------------|--------------------|
| | | | | Protein % | Moisture % | Test Weight kg/hL | Screenings % | N Recovery kg N/ha |
| 1 | Untreated | - | - | 13.6 | 8.9 | 73 | 17 | 78 |
| 2 | Urea | 20 | Spread | 13.5 | 8.8 | 74 | 17 | 84 |
| 3 | Urea | 40 | Spread | 13.5 | 9.0 | 72 | 16 | 80 |
| 4 | Ranger | 20 | Foliar | 13.5 | 8.9 | 73 | 15 | 77 |
| 5 | Ranger | 40 | Foliar | 13.6 | 8.8 | 73 | 14 | 78 |
| 6 | N42 | 20 | Foliar | 13.4 | 8.8 | 73 | 14 | 81 |
| 7 | N42 | 40 | Foliar | 13.8 | 8.9 | 73 | 17 | 79 |
| 8 | Ranger with Ni & S | 20 | Foliar | 13.7 | 8.9 | 71 | 14 | 82 |
| 9 | Ranger with Ni & S | 40 | Foliar | 13.9 | 8.9 | 70 | 18 | 79 |
| P = | | | | 0.50 | 0.89 | 0.90 | 0.74 | 0.88 |
| LSD = | | | | nsd | nsd | nsd | nsd | nsd |

| Factorial Analysis (Treatments 2 - 9) | | 8/11/2013 | | Grain Quality | | | | |
|---------------------------------------|-----------------|-----------|----------------|---------------|---------------|----------------------|-----------------|-----------------------|
| | | Yield | | Protein % | Moisture % | Test Weight kg/hL | Screenings % | N Recovery kg N/ha |
| | | kg/ha | % of Untreated | | | | | |
| Rate (kg N/Ha) | 20 | 3422 | 104 | 13.5 | 8.8 | 73 | 15 | 81 |
| | 40 | 3289 | 100 | 13.7 | 8.9 | 72 | 16 | 79 |
| | P = | 0.18 | | 0.13 | 0.58 | 0.46 | 0.30 | 0.38 |
| | LSD = | nsd | | nsd | nsd | nsd | nsd | nsd |
| Product | Urea | 3472 | 106 | 13.5 | 8.9 | 73 | 17 | 82 |
| | Ranger | 3269 | 100 | 13.6 | 8.8 | 73 | 15 | 77 |
| | N42 | 3353 | 102 | 13.6 | 8.8 | 73 | 15 | 80 |
| | Ranger + Ni + S | 3328 | 102 | 13.8 | 8.9 | 70 | 16 | 80 |
| | P = | 0.37 | | 0.15 | 0.86 | 0.56 | 0.62 | 0.62 |
| | LSD = | nsd | | nsd | nsd | nsd | nsd | nsd |
| Rate x Product | | | | | | | | |
| | P = | 0.87 | | 0.65 | 0.58 | 0.89 | 0.37 | 0.92 |
| | LSD = | nsd | | nsd | nsd | nsd | nsd | nsd |