

**Planting Date: 9/07/2013**

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.**

***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.***

| Application Timing | Date       | Crop stage |
|--------------------|------------|------------|
| T1                 | 9/07/2013  | Planting   |
| T2                 | 10/09/2013 | GS30       |
| T3                 | 24/09/2013 | GS39       |
| T4                 | 4/10/2013  | GS57       |
| T5                 | 17/10/2013 | GS61       |
| T6                 | 31/10/2013 | GS85       |

| Trt No. | Variety     | Product     | Units of N applied | Method of Application | Timing of Application | 30/07/2013                             | 15/11/13 (129DAP) |                |
|---------|-------------|-------------|--------------------|-----------------------|-----------------------|----------------------------------------|-------------------|----------------|
|         |             |             |                    |                       |                       | Establishment<br>Plants/m <sup>2</sup> | Yield             |                |
|         |             |             |                    |                       |                       |                                        | kg/ha             | % of Untreated |
| 1       | EGA Gregory | Untreated   | -                  | -                     | -                     | 83.2                                   | 3175              | -              |
| 2       | EGA Gregory | Urea        | 40                 | IBS                   | T1                    | 87.8                                   | 3024              | 95             |
| 3       | EGA Gregory | Urea        | 20 + 20            | IBS & Spread          | T1 & T2               | 87.3                                   | 3018              | 95             |
| 4       | EGA Gregory | Urea        | 40                 | Spread                | T2                    | 81.3                                   | 3139              | 99             |
| 5       | EGA Gregory | Urea        | 40                 | Spread                | T3                    | 85.4                                   | 3369              | 106            |
| 6       | EGA Gregory | Liquid Urea | 40                 | StreamJet             | T3                    | 89.2                                   | 3444              | 108            |
| 7       | EGA Gregory | Liquid Urea | 40                 | Foliar                | T3                    | 85.6                                   | 3392              | 107            |
| 8       | EGA Gregory | Urea        | 40                 | Spread                | T4                    | 87.5                                   | 3048              | 96             |
| 9       | EGA Gregory | Liquid Urea | 40                 | StreamJet             | T4                    | 88.7                                   | 3212              | 101            |
| 10      | EGA Gregory | Liquid Urea | 40                 | Foliar                | T4                    | 84.2                                   | 3134              | 99             |
| 11      | EGA Gregory | Urea        | 40                 | Spread                | T5                    | 81.1                                   | 3409              | 107            |
| 12      | EGA Gregory | Liquid Urea | 40                 | StreamJet             | T5                    | 92.5                                   | 3056              | 96             |
| 13      | EGA Gregory | Liquid Urea | 40                 | Foliar                | T5                    | 86.8                                   | 3118              | 98             |
| 14      | EGA Gregory | Urea        | 40                 | Spread                | T6                    | 97.2                                   | 3195              | 101            |
| 15      | EGA Gregory | Liquid Urea | 40                 | StreamJet             | T6                    | 78.5                                   | 3364              | 106            |
| 16      | EGA Gregory | Liquid Urea | 40                 | Foliar                | T6                    | 84.9                                   | 2985              | 94             |
| 17      | Suntop      | Untreated   | -                  | -                     | -                     | 83.9                                   | 3397              | -              |
| 18      | Sunvale     | Untreated   | -                  | -                     | -                     | 83.7                                   | 3128              | -              |
| 19      | Spitfire    | Untreated   | -                  | -                     | -                     | 86.1                                   | 3203              | -              |
| 20      | Merlin      | Untreated   | -                  | -                     | -                     | 90.6                                   | 3548              | -              |
| P =     |             |             |                    |                       |                       | 0.28                                   | 0.99              |                |
| LSD =   |             |             |                    |                       |                       | nsd                                    | nsd               |                |
| CV =    |             |             |                    |                       |                       |                                        | 16.8%             |                |

| Trt No. | Variety     | Product     | Units of N applied | Method of application | Timing of application | Grain Quality |            |                   |              |                    |
|---------|-------------|-------------|--------------------|-----------------------|-----------------------|---------------|------------|-------------------|--------------|--------------------|
|         |             |             |                    |                       |                       | Protein %     | Moisture % | Test Weight kg/hL | Screenings % | N Recovery kg N/ha |
| 1       | EGA Gregory | Untreated   | -                  | -                     | -                     | 12.5 cd       | 12.6       | 75.8 cd           | 8.9 a        | 70                 |
| 2       | EGA Gregory | Urea        | 40                 | IBS                   | T1                    | 12.8 cd       | 12.6       | 76.3 cd           | 8.9 a        | 67                 |
| 3       | EGA Gregory | Urea        | 20 + 20            | IBS & Spread          | T1 & T2               | 12.6 cd       | 12.6       | 75.8 cd           | 8.7 a        | 67                 |
| 4       | EGA Gregory | Urea        | 40                 | Spread                | T2                    | 12.7 cd       | 12.8       | 75.8 cd           | 9.5 a        | 69                 |
| 5       | EGA Gregory | Urea        | 40                 | Spread                | T3                    | 12.2 d        | 12.8       | 76.7 cd           | 7.2 abc      | 72                 |
| 6       | EGA Gregory | Liquid Urea | 40                 | StreamJet             | T3                    | 12.4 d        | 12.8       | 76.0 cd           | 7.7 ab       | 75                 |
| 7       | EGA Gregory | Liquid Urea | 40                 | Foliar                | T3                    | 12.5 cd       | 12.7       | 76.4 cd           | 7.6 abc      | 74                 |
| 8       | EGA Gregory | Urea        | 40                 | Spread                | T4                    | 12.8 cd       | 12.8       | 76.2 cd           | 8.9 a        | 68                 |
| 9       | EGA Gregory | Liquid Urea | 40                 | StreamJet             | T4                    | 12.6 cd       | 12.8       | 76.3 cd           | 7.5 abc      | 71                 |
| 10      | EGA Gregory | Liquid Urea | 40                 | Foliar                | T4                    | 13.1 cd       | 12.7       | 76.2 cd           | 6.1 bcd      | 72                 |
| 11      | EGA Gregory | Urea        | 40                 | Spread                | T5                    | 12.3 d        | 12.8       | 77.3 bc           | 7.5 abc      | 73                 |
| 12      | EGA Gregory | Liquid Urea | 40                 | StreamJet             | T5                    | 12.8 cd       | 12.6       | 76.0 cd           | 8.7 a        | 69                 |
| 13      | EGA Gregory | Liquid Urea | 40                 | Foliar                | T5                    | 12.6 cd       | 12.6       | 76.2 cd           | 8.0 ab       | 69                 |
| 14      | EGA Gregory | Urea        | 40                 | Spread                | T6                    | 12.7 cd       | 12.6       | 76.6 cd           | 8.1 ab       | 71                 |
| 15      | EGA Gregory | Liquid Urea | 40                 | StreamJet             | T6                    | 12.4 d        | 12.7       | 76.4 cd           | 7.5 abc      | 73                 |
| 16      | EGA Gregory | Liquid Urea | 40                 | Foliar                | T6                    | 12.9 cd       | 12.8       | 75.5 d            | 9.1 a        | 67                 |
| 17      | Suntop      | Untreated   | -                  | -                     | -                     | 12.7 cd       | 12.7       | 79.8 a            | 4.4 d        | 75                 |
| 18      | Sunvale     | Untreated   | -                  | -                     | -                     | 13.5 bc       | 12.7       | 78.8 ab           | 6.1 bcd      | 74                 |
| 19      | Spitfire    | Untreated   | -                  | -                     | -                     | 14.7 a        | 12.7       | 79.4 a            | 5.2 cd       | 82                 |
| 20      | Merlin      | Untreated   | -                  | -                     | -                     | 14.2 ab       | 12.7       | 80.2 a            | 4.6 d        | 89                 |
| P =     |             |             |                    |                       |                       | 0.00          | 0.91       | 0.00              | 0.00         | 0.34               |
| LSD =   |             |             |                    |                       |                       | 1.0           | nsd        | 1.5               | 2.4          | nsd                |

| Factorial Analysis (Treatments 5 - 16) |           | 15/11/13 (129DAP) |                |
|----------------------------------------|-----------|-------------------|----------------|
|                                        |           | Yield             |                |
|                                        |           | kg/ha             | % of Untreated |
| Method of Application                  | Foliar    | 3157              | 99             |
|                                        | Spread    | 3255              | 103            |
|                                        | StreamJet | 3269              | 103            |
|                                        |           |                   |                |
| P =                                    |           | 0.79              |                |
| LSD =                                  |           | nsd               |                |
| Timing of Application                  | T3        | 3402              | 107            |
|                                        | T4        | 3131              | 99             |
|                                        | T5        | 3194              | 101            |
|                                        | T6        | 3181              | 100            |
|                                        |           |                   |                |
| P =                                    |           | 0.57              |                |
| LSD =                                  |           | nsd               |                |
| Method x Timing Interaction            |           |                   |                |
|                                        |           |                   |                |
| P =                                    |           | 0.91              |                |
| LSD =                                  |           | nsd               |                |

| Factorial Analysis (Treatments 5 - 16) |           | Grain Quality |            |                   |              |                    |
|----------------------------------------|-----------|---------------|------------|-------------------|--------------|--------------------|
|                                        |           | Protein %     | Moisture % | Test Weight kg/hL | Screenings % | N Recovery kg N/ha |
| Method of Application                  | Foliar    | 12.8          | 12.7       | 76.1              | 7.7          | 71                 |
|                                        | Spread    | 12.5          | 12.7       | 76.7              | 7.9          | 71                 |
|                                        | StreamJet | 12.5          | 12.7       | 76.2              | 7.8          | 72                 |
|                                        |           |               |            |                   |              |                    |
| P =                                    |           | 0.47          | 0.67       | 0.23              | 0.94         | 0.90               |
| LSD =                                  |           | nsd           | nsd        | nsd               | nsd          | nsd                |
| Timing of Application                  | T3        | 12.4          | 12.7       | 76.4              | 7.5          | 74                 |
|                                        | T4        | 12.8          | 12.7       | 76.2              | 7.5          | 70                 |
|                                        | T5        | 12.6          | 12.7       | 76.5              | 8.0          | 70                 |
|                                        | T6        | 12.6          | 12.7       | 76.2              | 8.2          | 70                 |
|                                        |           |               |            |                   |              |                    |
| P =                                    |           | 0.42          | 0.66       | 0.88              | 0.66         | 0.72               |
| LSD =                                  |           | nsd           | nsd        | nsd               | nsd          | nsd                |
| Method x Timing interaction            |           |               |            |                   |              |                    |
|                                        |           |               |            |                   |              |                    |
| P =                                    |           | 0.86          | 0.43       | 0.76              | 0.31         | 0.93               |
| LSD =                                  |           | nsd           | nsd        | nsd               | nsd          | nsd                |