



## Spot Form Net Blotch - Yield Impact

Trial ID: DK1705 SFNB

Location: Tullooona

Trial Year: 2017

| Pest Scientific Name                              |            |              |             | <i>Pyrenophora teres maculata</i> |                    |                    |                    |         |
|---|------------|--------------|-------------|-----------------------------------|--------------------|--------------------|--------------------|---------|
| Pest Name   |            |              |             | Spot Form Net Blotch              |                    |                    |                    |         |
| Crop Name   |            |              |             | Barley                            |                    |                    |                    |         |
| Part Assessed                                     |            |              |             | 18/05/2017                        |                    |                    |                    |         |
| Assessment Date                                   |            |              |             | EMERGENCE                         |                    |                    |                    |         |
| Assessment Type                                   |            |              |             | Flag                              |                    |                    |                    |         |
| Assessment Unit                                   |            |              |             | /m <sup>2</sup>                   |                    |                    |                    |         |
| Crop Stage Majority                               |            |              |             | 12                                |                    |                    |                    |         |
| Treatment-Evaluation Interval                     |            |              |             | 14 DAP                            |                    |                    |                    |         |
| ARM Action Codes                                  |            |              |             | T1                                |                    |                    |                    |         |
| Trt No.   | Treatment  | Product Rate | Appln. Code | Flag                              | Flag-1             | Flag-2             | Flag-3             |         |
|   |            |              |             | 17/08/2017                        | 17/08/2017         | 17/08/2017         | 17/08/2017         |         |
|   |            |              |             | LEAF AREA DISEASED                | LEAF AREA DISEASED | LEAF AREA DISEASED | LEAF AREA DISEASED |         |
|   |            |              |             | %                                 | %                  | %                  | %                  |         |
|   |            |              |             | 73                                | 73                 | 73                 | 73                 |         |
|   |            |              |             | 20 DAC                            | 20 DAC             | 20 DAC             | 20 DAC             |         |
|   |            |              |             | AL                                | AL                 | AL                 | AL                 |         |
| <b>TABLE OF A MEANS (Variety)</b>                 |            |              |             |                                   |                    |                    |                    |         |
| 1   | Fathom     |              |             | 51d                               | 0.2c               | 2.4tc              | 2.6td              | 3.1td   |
| 2   | Scope      |              |             | 50d                               | 1.3bc              | 4.8tb              | 9.4tbc             | 13.6tbc |
| 3   | Compass    |              |             | 60ab                              | 3.2bc              | 5.4tb              | 7.0tc              | 10.7tc  |
| 4   | LaTrobe    |              |             | 52cd                              | 7.0a               | 10.0ta             | 13.6tab            | 21.4ta  |
| 5   | GrangeR    |              |             | 64a                               | 0.2c               | 2.5tc              | 9.7tbc             | 14.1tbc |
| 6   | SY Rattler |              |             | 51d                               | 0.9c               | 5.4tb              | 15.1ta             | 18.9tab |
| 7   | Dash       |              |             | 54bcd                             | 0.3c               | 0.3td              | 2.4td              | 10.1tc  |
| 8   | Hindmarsh  |              |             | 59abc                             | 4.4ab              | 9.9ta              | 13.1tab            | 18.8tab |
| <b>TABLE OF B MEANS (Fungicide)</b>               |            |              |             |                                   |                    |                    |                    |         |
| 1   | Untreated  | -            |             | 56-                               | 2.7-               | 4.1t-              | 9.4ta              | 15.3ta  |
| 2   | Systiva    | 150ml/100 kg | A           | 54-                               | 1.6-               | 4.1t-              | 6.5tb              | 10.0tb  |
|   | Prosaro    | 300ml/ha     | B, C, D     |                                   |                    |                    |                    |         |
| <b>TABLE OF A x B MEANS (Variety x Fungicide)</b> |            |              |             |                                   |                    |                    |                    |         |
| 1   | Fathom     |              |             | 52-                               | 0.2-               | 2.5t-              | 2.6t-              | 3.6t-   |
| 1a  | Fathom     |              |             | 49-                               | 0.1-               | 2.3t-              | 2.7t-              | 2.7t-   |
|   | Systiva    | 150ml/100 kg | A           |                                   |                    |                    |                    |         |
|   | Prosaro    | 300ml/ha     | B, C, D     |                                   |                    |                    |                    |         |
| 2   | Scope      |              |             | 49-                               | 0.5-               | 4.7t-              | 14.2t-             | 19.8t-  |
| 2a  | Scope      |              |             | 51-                               | 2.0-               | 4.9t-              | 6.1t-              | 9.2t-   |
|   | Systiva    | 150ml/100 kg | A           |                                   |                    |                    |                    |         |
|   | Prosaro    | 300ml/ha     | B, C, D     |                                   |                    |                    |                    |         |
| 3   | Compass    |              |             | 62-                               | 3.4-               | 5.7t-              | 7.6t-              | 11.7t-  |
| 3a  | Compass    |              |             | 58-                               | 3.1-               | 5.1t-              | 6.4t-              | 9.8t-   |
|   | Systiva    | 150ml/100 kg | A           |                                   |                    |                    |                    |         |
|   | Prosaro    | 300ml/ha     | B, C, D     |                                   |                    |                    |                    |         |
| 4   | LaTrobe    |              |             | 53-                               | 9.3-               | 11.9t-             | 18.7t-             | 29.9t-  |
| 4a  | LaTrobe    |              |             | 52-                               | 4.7-               | 8.5t-              | 9.8t-              | 15.2t-  |
|   | Systiva    | 150ml/100 kg | A           |                                   |                    |                    |                    |         |
|   | Prosaro    | 300ml/ha     | B, C, D     |                                   |                    |                    |                    |         |
| 5   | GrangeR    |              |             | 69-                               | 0.3-               | 2.9t-              | 12.6t-             | 20.2t-  |
| 5a  | GrangeR    |              |             | 58-                               | 0.1-               | 2.2t-              | 7.4t-              | 9.7t-   |
|   | Systiva    | 150ml/100 kg | A           |                                   |                    |                    |                    |         |
|   | Prosaro    | 300ml/ha     | B, C, D     |                                   |                    |                    |                    |         |
| 6   | SY Rattler |              |             | 54-                               | 1.4-               | 3.7t-              | 17.0t-             | 22.9t-  |
| 6a  | SY Rattler |              |             | 48-                               | 0.4-               | 7.8t-              | 13.3t-             | 15.5t-  |
|   | Systiva    | 150ml/100 kg | A           |                                   |                    |                    |                    |         |
|   | Prosaro    | 300ml/ha     | B, C, D     |                                   |                    |                    |                    |         |
| 7   | Dash       |              |             | 54-                               | 0.0-               | 0.2t-              | 2.6t-              | 12.0t-  |
| 7a  | Dash       |              |             | 55-                               | 0.5-               | 0.5t-              | 2.2t-              | 8.6t-   |
|   | Systiva    | 150ml/100 kg | A           |                                   |                    |                    |                    |         |
|   | Prosaro    | 300ml/ha     | B, C, D     |                                   |                    |                    |                    |         |
| 8   | Hindmarsh  |              |             | 57-                               | 6.8-               | 10.3t-             | 15.6t-             | 19.5t-  |
| 8a  | Hindmarsh  |              |             | 61-                               | 2.0-               | 9.5t-              | 10.9t-             | 18.1t-  |
|   | Systiva    | 150ml/100 kg | A           |                                   |                    |                    |                    |         |
|   | Prosaro    | 300ml/ha     | B, C, D     |                                   |                    |                    |                    |         |

Means followed by same letter do not significantly differ (P=.05, LSD)

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|                                      |                                   |            |
|--------------------------------------|-----------------------------------|------------|
| <b>Pest Scientific Name</b>          | <i>Pyrenophora teres maculata</i> |            |
| <b>Pest Name</b>                     | Spot Form Net Blotch              |            |
| <b>Crop Name</b>                     |                                   | Barley     |
| <b>Description</b>                   | <b>Largest Lesion Length</b>      |            |
| <b>Assessment Date</b>               | 17/08/2017                        | 25/10/2017 |
| <b>Assessment Type</b>               | ESTIMATE                          | YIELD      |
| <b>Assessment Unit</b>               | mm                                | t/ha       |
| <b>Crop Stage Majority</b>           | 73                                | 99         |
| <b>Treatment-Evaluation Interval</b> | 20 DAC                            |            |
| <b>ARM Action Codes</b>              |                                   | TY3        |

| Trt No. | Treatment | Product Rate | Appln. Code |  |  |
|---------|-----------|--------------|-------------|--|--|
|---------|-----------|--------------|-------------|--|--|

**TABLE OF A MEANS (Variety)**

| Trt No. | Treatment  | Product Rate | Appln. Code |       |       |
|---------|------------|--------------|-------------|-------|-------|
| 1       | Fathom     |              |             | 0.0d  | 1.34a |
| 2       | Scope      |              |             | 3.3c  | 0.92b |
| 3       | Compass    |              |             | 1.0d  | 1.38a |
| 4       | LaTrobe    |              |             | 7.5b  | 1.31a |
| 5       | GrangeR    |              |             | 6.8b  | 0.96b |
| 6       | SY Rattler |              |             | 4.5c  | 0.67c |
| 7       | Dash       |              |             | 9.8a  | 0.65c |
| 8       | Hindmarsh  |              |             | 10.8a | 1.37a |

**TABLE OF B MEANS (Fungicide)**

| Trt No. | Treatment | Product Rate | Appln. Code |      |       |
|---------|-----------|--------------|-------------|------|-------|
| 1       | Untreated | -            |             | 6.7a | 1.09- |
| 2       | Systiva   | 150ml/100 kg | A           | 4.2b | 1.07- |
|         | Prosaro   | 300ml/ha     | B, C, D     |      |       |

**TABLE OF A x B MEANS (Variety x Fungicide)**

| Trt No. | Treatment  | Product Rate | Appln. Code |       |       |
|---------|------------|--------------|-------------|-------|-------|
| 1       | Fathom     |              |             | 0.0-  | 1.36- |
| 1a      | Fathom     |              |             | 0.0-  | 1.32- |
|         | Systiva    | 150ml/100 kg | A           |       |       |
|         | Prosaro    | 300ml/ha     | B, C, D     |       |       |
| 2       | Scope      |              |             | 5.0-  | 0.94- |
| 2a      | Scope      |              |             | 1.5-  | 0.90- |
|         | Systiva    | 150ml/100 kg | A           |       |       |
|         | Prosaro    | 300ml/ha     | B, C, D     |       |       |
| 3       | Compass    |              |             | 2.0-  | 1.33- |
| 3a      | Compass    |              |             | 0.0-  | 1.43- |
|         | Systiva    | 150ml/100 kg | A           |       |       |
|         | Prosaro    | 300ml/ha     | B, C, D     |       |       |
| 4       | LaTrobe    |              |             | 10.0- | 1.27- |
| 4a      | LaTrobe    |              |             | 5.0-  | 1.36- |
|         | Systiva    | 150ml/100 kg | A           |       |       |
|         | Prosaro    | 300ml/ha     | B, C, D     |       |       |
| 5       | GrangeR    |              |             | 8.0-  | 1.02- |
| 5a      | GrangeR    |              |             | 5.5-  | 0.90- |
|         | Systiva    | 150ml/100 kg | A           |       |       |
|         | Prosaro    | 300ml/ha     | B, C, D     |       |       |
| 6       | SY Rattler |              |             | 5.5-  | 0.65- |
| 6a      | SY Rattler |              |             | 3.5-  | 0.69- |
|         | Systiva    | 150ml/100 kg | A           |       |       |
|         | Prosaro    | 300ml/ha     | B, C, D     |       |       |
| 7       | Dash       |              |             | 12.0- | 0.64- |
| 7a      | Dash       |              |             | 7.5-  | 0.65- |
|         | Systiva    | 150ml/100 kg | A           |       |       |
|         | Prosaro    | 300ml/ha     | B, C, D     |       |       |
| 8       | Hindmarsh  |              |             | 11.0- | 1.47- |
| 8a      | Hindmarsh  |              |             | 10.5- | 1.27- |
|         | Systiva    | 150ml/100 kg | A           |       |       |
|         | Prosaro    | 300ml/ha     | B, C, D     |       |       |

### Spot Form Net Blotch - Yield Impact

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| Crop Name   |            |              |             | Barley                    |                                   |                             |                             |
|---|------------|--------------|-------------|---------------------------|-----------------------------------|-----------------------------|-----------------------------|
|   |            |              |             | 1/11/2017<br>PROTEIN<br>% | 1/11/2017<br>TEST WEIGHT<br>kg/hL | 1/11/2017<br>SCREENING<br>% | 1/11/2017<br>RETENTION<br>% |
| Assessment Date                                   |            |              |             | 99                        | 99                                | 99                          | 99                          |
| Assessment Type                                   |            |              |             |                           |                                   |                             |                             |
| Assessment Unit                                   |            |              |             |                           |                                   |                             |                             |
| Crop Stage Majority                               |            |              |             |                           |                                   |                             |                             |
| ARM Action Codes                                  |            |              |             | ET1                       |                                   |                             | AA                          |
| Trt No.   | Treatment  | Product Rate | Appln. Code |                           |                                   |                             |                             |
| <b>TABLE OF A MEANS (Variety)</b>                 |            |              |             |                           |                                   |                             |                             |
| 1   | Fathom     |              |             | 12.9d                     | 58.8f                             | 2.7de                       | 82.4tb                      |
| 2   | Scope      |              |             | 13.5b                     | 61.2e                             | 4.8c                        | 61.9td                      |
| 3   | Compass    |              |             | 12.9d                     | 62.3d                             | 2.3e                        | 87.9ta                      |
| 4   | LaTrobe    |              |             | 13.9a                     | 62.4d                             | 6.8b                        | 42.0tf                      |
| 5   | GrangeR    |              |             | 13.2bcd                   | 64.1b                             | 6.5b                        | 54.6te                      |
| 6   | SY Rattler |              |             | 13.4bc                    | 63.5bc                            | 3.2d                        | 71.6tc                      |
| 7   | Dash       |              |             | 14.0a                     | 65.1a                             | 8.5a                        | 39.9tf                      |
| 8   | Hindmarsh  |              |             | 13.0cd                    | 62.9cd                            | 4.3c                        | 79.4tb                      |
| <b>TABLE OF B MEANS (Fungicide)</b>               |            |              |             |                           |                                   |                             |                             |
| 1   | Untreated  | -            |             | 13.3-                     | 62.5-                             | 5.0-                        | 64.7t-                      |
| 2   | Systiva    | 150ml/100 kg | A           | 13.4-                     | 62.5-                             | 4.7-                        | 67.3t-                      |
|   | Prosaro    | 300ml/ha     | B, C, D     |                           |                                   |                             |                             |
| <b>TABLE OF A x B MEANS (Variety x Fungicide)</b> |            |              |             |                           |                                   |                             |                             |
| 1   | Fathom     |              |             | 12.5-                     | 58.7-                             | 1.9h                        | 83.3t-                      |
| 1a  | Fathom     |              |             | 13.4-                     | 58.9-                             | 3.5g                        | 81.5t-                      |
|   | Systiva    | 150ml/100 kg | A           |                           |                                   |                             |                             |
|   | Prosaro    | 300ml/ha     | B, C, D     |                           |                                   |                             |                             |
| 2   | Scope      |              |             | 13.4-                     | 60.7-                             | 4.7def                      | 61.0t-                      |
| 2a  | Scope      |              |             | 13.5-                     | 61.6-                             | 4.8def                      | 62.7t-                      |
|   | Systiva    | 150ml/100 kg | A           |                           |                                   |                             |                             |
|   | Prosaro    | 300ml/ha     | B, C, D     |                           |                                   |                             |                             |
| 3   | Compass    |              |             | 13.2-                     | 62.3-                             | 2.3h                        | 87.6t-                      |
| 3a  | Compass    |              |             | 12.7-                     | 62.3-                             | 2.2h                        | 88.2t-                      |
|   | Systiva    | 150ml/100 kg | A           |                           |                                   |                             |                             |
|   | Prosaro    | 300ml/ha     | B, C, D     |                           |                                   |                             |                             |
| 4   | LaTrobe    |              |             | 13.5-                     | 62.5-                             | 6.6bc                       | 40.7t-                      |
| 4a  | LaTrobe    |              |             | 14.3-                     | 62.3-                             | 7.1b                        | 43.3t-                      |
|   | Systiva    | 150ml/100 kg | A           |                           |                                   |                             |                             |
|   | Prosaro    | 300ml/ha     | B, C, D     |                           |                                   |                             |                             |
| 5   | GrangeR    |              |             | 13.5-                     | 64.1-                             | 7.2b                        | 51.8t-                      |
| 5a  | GrangeR    |              |             | 12.9-                     | 64.1-                             | 5.8cd                       | 57.3t-                      |
|   | Systiva    | 150ml/100 kg | A           |                           |                                   |                             |                             |
|   | Prosaro    | 300ml/ha     | B, C, D     |                           |                                   |                             |                             |
| 6   | SY Rattler |              |             | 13.6-                     | 64.1-                             | 3.7fg                       | 68.4t-                      |
| 6a  | SY Rattler |              |             | 13.2-                     | 62.9-                             | 2.7gh                       | 74.7t-                      |
|   | Systiva    | 150ml/100 kg | A           |                           |                                   |                             |                             |
|   | Prosaro    | 300ml/ha     | B, C, D     |                           |                                   |                             |                             |
| 7   | Dash       |              |             | 13.8-                     | 65.1-                             | 10.0a                       | 36.5t-                      |
| 7a  | Dash       |              |             | 14.2-                     | 65.2-                             | 6.9b                        | 43.4t-                      |
|   | Systiva    | 150ml/100 kg | A           |                           |                                   |                             |                             |
|   | Prosaro    | 300ml/ha     | B, C, D     |                           |                                   |                             |                             |
| 8   | Hindmarsh  |              |             | 13.0-                     | 62.8-                             | 3.8efg                      | 79.7t-                      |
| 8a  | Hindmarsh  |              |             | 13.0-                     | 62.9-                             | 4.9de                       | 79.2t-                      |
|   | Systiva    | 150ml/100 kg | A           |                           |                                   |                             |                             |
|   | Prosaro    | 300ml/ha     | B, C, D     |                           |                                   |                             |                             |

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| FACTORIAL/POOLED ERROR AOV          |    |                |             |        |          |           |
|-------------------------------------|----|----------------|-------------|--------|----------|-----------|
| Barley                              |    |                |             |        |          |           |
| 18/05/2017                          |    |                |             |        |          |           |
| EMERGENCE /m <sup>2</sup> 12 DAP T1 |    |                |             |        |          |           |
| Source                              | DF | Sum of Squares | Mean Square | F      | Prob.(F) | LSD (.05) |
| Total                               | 95 | 12441.380819   |             |        |          |           |
| R                                   | 5  | 5284.169515    | 1056.833903 | 17.892 | 0.0001   |           |
| A                                   | 7  | 2108.739217    | 301.248460  | 5.100  | 0.0001   | 6         |
| B                                   | 1  | 143.051147     | 143.051147  | 2.422  | 0.1239   | 3         |
| AB                                  | 7  | 475.438436     | 67.919777   | 1.150  | 0.3418   | 9         |
| ERROR                               | 75 | 4429.982503    | 59.066433   |        |          |           |

| FACTORIAL/POOLED ERROR AOV                               |    |                |             |       |          |           |
|--|----|----------------|-------------|-------|----------|-----------|
| <i>Pyrenophora teres maculata</i> - Spot Form Net Blotch |    |                |             |       |          |           |
| Disease Severity Flag                                    |    |                |             |       |          |           |
| 17/08/2017   |    |                |             |       |          |           |
| LEAF AREA % 20 DAC                                       |    |                |             |       |          |           |
| Source   | DF | Sum of Squares | Mean Square | F     | Prob.(F) | LSD (.05) |
| Total  | 93 | 2174.974333    |             |       |          |           |
| R  | 5  | 396.523333     | 79.304667   | 5.197 | 0.0004   |           |
| A  | 7  | 523.161533     | 74.737362   | 4.898 | 0.0001   | 3.2       |
| B  | 1  | 30.555267      | 30.555267   | 2.002 | 0.1613   | 1.6       |
| AB   | 7  | 110.798867     | 15.828410   | 1.037 | 0.4129   | 4.5       |
| ERROR  | 73 | 1113.935333    | 15.259388   |       |          |           |

| FACTORIAL/POOLED ERROR AOV                               |    |                |             |        |          |           |
|--|----|----------------|-------------|--------|----------|-----------|
| <i>Pyrenophora teres maculata</i> - Spot Form Net Blotch |    |                |             |        |          |           |
| Disease Severity Flag-1                                  |    |                |             |        |          |           |
| 17/08/2017   |    |                |             |        |          |           |
| LEAF AREA % 20 DAC AL                                    |    |                |             |        |          |           |
| Source   | DF | Sum of Squares | Mean Square | F      | Prob.(F) | LSD (.05) |
| Total  | 93 | 15.257916      |             |        |          |           |
| R  | 5  | 4.219154       | 0.843831    | 20.418 | 0.0001   |           |
| A  | 7  | 7.697085       | 1.099584    | 26.606 | 0.0001   | 0.2       |
| B  | 1  | 0.001124       | 0.001124    | 0.027  | 0.8695   | 0.1       |
| AB   | 7  | 0.323558       | 0.046223    | 1.118  | 0.3610   | 0.2       |
| ERROR  | 73 | 3.016995       | 0.041329    |        |          |           |

| FACTORIAL/POOLED ERROR AOV                               |    |                |             |        |          |           |
|--|----|----------------|-------------|--------|----------|-----------|
| <i>Pyrenophora teres maculata</i> - Spot Form Net Blotch |    |                |             |        |          |           |
| Disease Severity Flag-2                                  |    |                |             |        |          |           |
| 17/08/2017   |    |                |             |        |          |           |
| LEAF AREA % 20 DAC AL                                    |    |                |             |        |          |           |
| Source   | DF | Sum of Squares | Mean Square | F      | Prob.(F) | LSD (.05) |
| Total  | 93 | 15.455537      |             |        |          |           |
| R  | 5  | 5.979264       | 1.195853    | 30.679 | 0.0001   |           |
| A  | 7  | 5.857867       | 0.836838    | 21.469 | 0.0001   | 0.2       |
| B  | 1  | 0.490255       | 0.490255    | 12.577 | 0.0007   | 0.1       |
| AB   | 7  | 0.282679       | 0.040383    | 1.036  | 0.4138   | 0.2       |
| ERROR  | 73 | 2.845473       | 0.038979    |        |          |           |

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| <b>FACTORIAL/POOLED ERROR AOV</b><br><i>Pyrenophora teres maculata</i> - Spot Form Net Blotch<br>Disease Severity Flag-3<br>17/08/2017<br>LEAF AREA % 20 DAC AL |    |                |             |        |          |           |
|---|----|----------------|-------------|--------|----------|-----------|
| Source  | DF | Sum of Squares | Mean Square | F      | Prob.(F) | LSD (.05) |
| Total   | 93 | 17.087898      |             |        |          |           |
| R   | 5  | 9.391610       | 1.878322    | 64.900 | 0.0001   |           |
| A   | 7  | 4.622940       | 0.660420    | 22.819 | 0.0001   | 0.1       |
| B   | 1  | 0.711827       | 0.711827    | 24.595 | 0.0001   | 0.1       |
| AB  | 7  | 0.248757       | 0.035537    | 1.228  | 0.2988   | 0.2       |
| ERROR   | 73 | 2.112764       | 0.028942    |        |          |           |

| <b>FACTORIAL/POOLED ERROR AOV</b><br><i>Pyrenophora teres maculata</i> - Spot Form Net Blotch<br>Largest Lesion Length<br>17/08/2017<br>ESTIMATE mm 20 DAC |    |                |             |        |          |           |
|--|----|----------------|-------------|--------|----------|-----------|
| Source   | DF | Sum of Squares | Mean Square | F      | Prob.(F) | LSD (.05) |
| Total  | 30 | 551.875000     |             |        |          |           |
| R  | 1  | 4.500000       | 4.500000    | 1.416  | 0.2539   |           |
| A  | 7  | 430.875000     | 61.553571   | 19.365 | 0.0001   | 1.6       |
| B  | 1  | 50.000000      | 50.000000   | 15.730 | 0.0014   | 0.8       |
| AB   | 7  | 22.000000      | 3.142857    | 0.989  | 0.4773   | 2.2       |
| ERROR  | 14 | 44.500000      | 3.178571    |        |          |           |

| <b>FACTORIAL/POOLED ERROR AOV</b><br>Barley<br>Moisture Corrected<br>25/10/2017<br>YIELD t/ha TY3 |    |                |             |        |          |           |
|---|----|----------------|-------------|--------|----------|-----------|
| Source  | DF | Sum of Squares | Mean Square | F      | Prob.(F) | LSD (.05) |
| Total   | 92 | 11.807884      |             |        |          |           |
| R   | 5  | 0.909787       | 0.181957    | 5.545  | 0.0002   |           |
| A   | 7  | 8.313754       | 1.187679    | 36.193 | 0.0001   | 0.15      |
| B   | 1  | 0.009581       | 0.009581    | 0.292  | 0.5906   | 0.07      |
| AB  | 7  | 0.212077       | 0.030297    | 0.923  | 0.4939   | 0.21      |
| ERROR   | 72 | 2.362685       | 0.032815    |        |          |           |

### Spot Form Net Blotch - Yield Impact

Trial ID: DK1705 SFNB

Location: Tulloona

Trial Year: 2017

| FACTORIAL/POOLED ERROR AOV |    |                |             |       |          |           |
|----------------------------|----|----------------|-------------|-------|----------|-----------|
| Barley                     |    |                |             |       |          |           |
| 1/11/2017                  |    |                |             |       |          |           |
| PROTEIN %                  |    |                |             |       |          |           |
| Source                     | DF | Sum of Squares | Mean Square | F     | Prob.(F) | LSD (.05) |
| Total                      | 46 | 18.659792      |             |       |          |           |
| R                          | 2  | 1.230417       | 0.615208    | 2.649 | 0.0878   |           |
| A                          | 7  | 7.234792       | 1.033542    | 4.449 | 0.0018   | 0.4       |
| B                          | 1  | 0.151875       | 0.151875    | 0.654 | 0.4253   | 0.2       |
| AB                         | 7  | 3.306458       | 0.472351    | 2.034 | 0.0846   | 0.6       |
| ERROR                      | 29 | 6.736250       | 0.232284    |       |          |           |

| FACTORIAL/POOLED ERROR AOV |    |                |             |        |          |           |
|----------------------------|----|----------------|-------------|--------|----------|-----------|
| Barley                     |    |                |             |        |          |           |
| 1/11/2017                  |    |                |             |        |          |           |
| TEST WEIGHT kg/hL ET1      |    |                |             |        |          |           |
| Source                     | DF | Sum of Squares | Mean Square | F      | Prob.(F) | LSD (.05) |
| Total                      | 46 | 203.264531     |             |        |          |           |
| R                          | 2  | 1.305937       | 0.652969    | 0.468  | 0.6312   |           |
| A                          | 7  | 158.189115     | 22.598445   | 16.182 | 0.0001   | 1.0       |
| B                          | 1  | 0.000469       | 0.000469    | 0.000  | 0.9855   | 0.5       |
| AB                         | 7  | 3.269948       | 0.467135    | 0.334  | 0.9315   | 1.4       |
| ERROR                      | 29 | 40.499062      | 1.396519    |        |          |           |

| FACTORIAL/POOLED ERROR AOV |    |                |             |        |          |           |
|----------------------------|----|----------------|-------------|--------|----------|-----------|
| Barley                     |    |                |             |        |          |           |
| 1/11/2017                  |    |                |             |        |          |           |
| SCREENING %                |    |                |             |        |          |           |
| Source                     | DF | Sum of Squares | Mean Square | F      | Prob.(F) | LSD (.05) |
| Total                      | 46 | 254.804792     |             |        |          |           |
| R                          | 2  | 0.482917       | 0.241458    | 0.271  | 0.7646   |           |
| A                          | 7  | 203.953125     | 29.136161   | 32.695 | 0.0001   | 0.8       |
| B                          | 1  | 1.171875       | 1.171875    | 1.315  | 0.2609   | 0.4       |
| AB                         | 7  | 23.353125      | 3.336161    | 3.744  | 0.0052   | 1.1       |
| ERROR                      | 29 | 25.843750      | 0.891164    |        |          |           |

| FACTORIAL/POOLED ERROR AOV |    |                |             |        |          |           |
|----------------------------|----|----------------|-------------|--------|----------|-----------|
| Barley                     |    |                |             |        |          |           |
| 1/11/2017                  |    |                |             |        |          |           |
| RETENTION % AA             |    |                |             |        |          |           |
| Source                     | DF | Sum of Squares | Mean Square | F      | Prob.(F) | LSD (.05) |
| Total                      | 46 | 5935.046900    |             |        |          |           |
| R                          | 2  | 31.245314      | 15.622657   | 1.333  | 0.2794   |           |
| A                          | 7  | 5492.443628    | 784.634804  | 66.951 | 0.0001   | 2.9       |
| B                          | 1  | 29.769360      | 29.769360   | 2.540  | 0.1218   | 1.4       |
| AB                         | 7  | 41.722814      | 5.960402    | 0.509  | 0.8204   | 4.0       |
| ERROR                      | 29 | 339.865784     | 11.719510   |        |          |           |

## Spot Form Net Blotch - Yield Impact

Trial ID: DK1705 SFNB

Location: Tulloona

Trial Year: 2017

Part Assessed

Flag = Flag leaf

Flag-1 = Flag leaf minus 1

Flag-2 = Flag leaf minus 2

Flag-3 = Flag leaf minus 3

Crop Stage Majority

12 = 2 leaves unfolded

73 = Early milk

99 = Harvested product

ARM Action Codes

AL = Automatic log transformation of X+1

ET1 = Excluded treatment 1

AA = Automatic arcsine square root % transformation

T1 =  $((C1)/4)*(100/32)$ TY3 =  $0.5*[C26]*(100-@MVAVGREP([C29]))/87.5$ 

DAP = Days after Planting

DAC = Days after Application C

| Application Description |                   |           |            |            |
|-------------------------|-------------------|-----------|------------|------------|
|                         | A                 | B         | C          | D          |
| Application Date:       |                   | 4/07/2017 | 28/07/2017 | 17/08/2017 |
| Application Start Time: |                   | 1:00 PM   | 11:30 AM   | 11:45 AM   |
| Application Stop Time:  |                   | 1:35 PM   | 12:40 PM   | 12:10 PM   |
| Application Method:     | SEED<br>TREATMENT | SPRAY     |            |            |
| Application Timing:     |                   | GS32      | GS39       | GS61       |
| Application Placement:  | SEED              | FOLIAR    |            |            |
| Air Temperature, Unit:  |                   | 21 C      | 22 C       | 23 C       |
| % Relative Humidity:    |                   | 58.5      | 32.7       | 30         |
| Wind Velocity, Unit:    |                   | 1.1 m/s   | 3.6 m/s    | 1.3 m/s    |
| Wind Direction:         |                   | NW        | NNW        | WNW        |
| Dew Presence (Y/N):     |                   | No        |            |            |
| % Cloud Cover:          |                   | 0         |            |            |

| Application Equipment     |   |          |   |   |
|---------------------------|---|----------|---|---|
|                           | A | B        | C | D |
| Operation Pressure, Unit: |   | 300 kPa  |   |   |
| Nozzle Type:              |   | AIXR     |   |   |
| Nozzle Size:              |   | 110015   |   |   |
| Nozzle Spacing, Unit:     |   | 50 cm    |   |   |
| Nozzles/Row:              |   | 8        |   |   |
| Boom Length, Unit:        |   | 3 m      |   |   |
| Boom Height, Unit:        |   | 50 cm    |   |   |
| Ground Speed, Unit:       |   | 7.2 km/h |   |   |
| Carrier:                  |   | WATER    |   |   |
| Spray Volume, Unit:       |   | 70 L/ha  |   |   |