

# DEMONSTRATION



*On Farm Demonstration in Dry-Land Barley: Kent, WA, Australia 2008*

## SUMMARY OF DEMONSTRATION

In winter 2008 a side-by-side farm demonstration compared a single foliar application of TwinN vs no additional treatment. The variety was Gardiner with the soil being a loam. The demonstration was measured over two replicates with each block being over 200 ha.

## KEY RESULTS

Both replicate blocks treated with TwinN outperformed the non-treated blocks. An average yield increase of 400 kg/ha represents an 18.5% gain with the application of TwinN.

At an average of 11.5%, protein levels in the TwinN treated blocks were 2.25 percentage points higher compared to the control blocks. There was a reduction in average screenings from 12.5% to 8.5% on the TwinN block. Hectolitre weights were higher in the TwinN treated blocks than the control blocks.

| Parameters             | No TwinN       |         |         | TwinN Treatment |         |         |
|------------------------|----------------|---------|---------|-----------------|---------|---------|
|                        | Block 1        | Block 2 | Average | Block 1         | Block 2 | Average |
| Fertiliser at Planting | DAP (70 kg/ha) |         |         | DAP (70 kg/ha)  |         |         |
| Yield (t/ha)           | 2.1            | 2.2     | 2.15    | 2.7             | 2.4     | 2.55    |
| Protein (%)            | 9.0            | 9.5     | 9.25    | 10.5            | 12.5    | 11.5    |
| Hectolitre Weight      |                |         | 64.5    |                 |         | 66.2    |
| Screenings (%)         |                |         | 12.5    |                 |         | 8.5     |

## METHODOLOGY

This barley crop was planted in late April with DAP at a rate of 70 kg/ha at the time of planting. This is the standard fertiliser application for the grower. Both the control and TwinN treated blocks received 225mm of rainfall. August was notably dry. The paddock was sown to barley in 2007.

The TwinN was applied via boomspray 10 weeks after seeding. TwinN was in 60 l/ha water and was applied early morning with showers and no wind. The blocks were harvested and measured separately.

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