

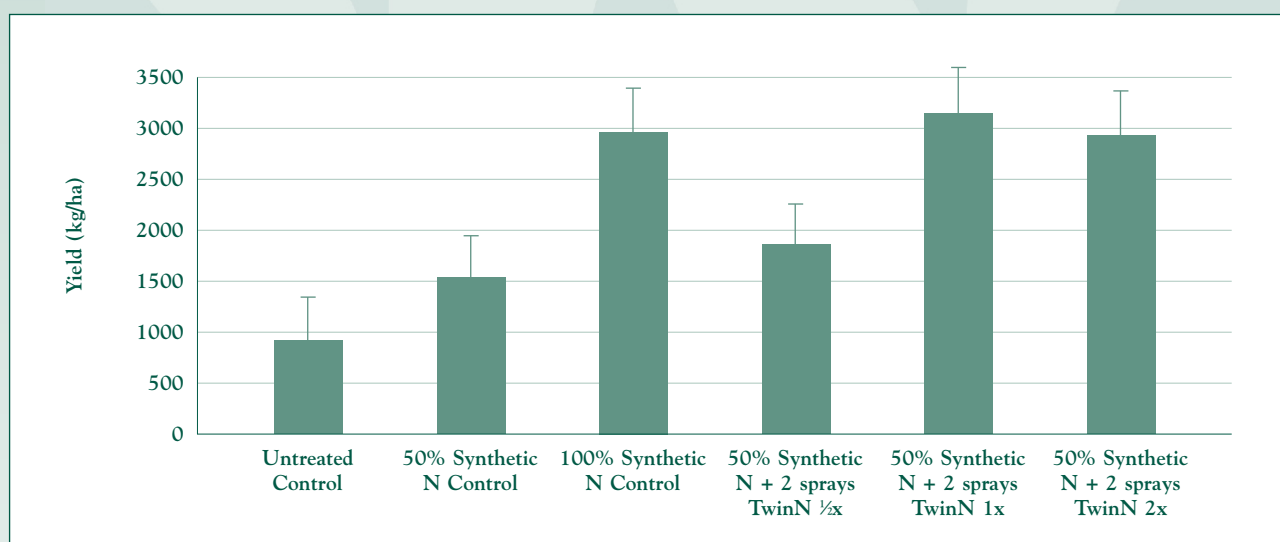
Dryland Wheat *West Cape, Sth Africa 2010*



This trial was conducted independently for registration purposes and tested TwinN at half rate, standard rate and double rate, combined with 50% of the standard nitrogen (N) fertiliser application rate, versus the standard N application program.

KEY RESULTS

- ♦ Reduction of N by 50%, plus 2 TwinN applications at standard rate, produced the highest yield in the trial and this was statistically equal to the yield from the 100% N program.
- ♦ Reduction of N by 50%, plus 2 TwinN applications at half rate, produced significantly lower yields than the 100% control, showing that applications of TwinN at reduced rates is not effective.
- ♦ Reduction of N by 50%, plus 2 TwinN applications at double rate, produced equivalent yields to the 100% control and the standard rate TwinN treatment, showing that doubling the application rate did not increase the efficacy of TwinN.



| Description | Basal Fertiliser | Topdress/TwinN Wk 4 | Topdress/TwinN Wk 10 | Synthetic N kg/ha |
|---|------------------|------------------------|------------------------|-------------------|
| 1. 0% fertiliser control | - | - | - | 0 |
| 2. 50% fertiliser control | 200 kg/Ha LAN | - | - | 56 |
| 3. 100% std fertiliser ctrl | 200 kg/Ha LAN | 100 kg/ha LAN | 100 kg/ha LAN | 112 |
| 4. 50% synthetic fertiliser + TwinN half rate | 200 kg/Ha LAN | TwinN half rate (1/2x) | TwinN half rate (1/2x) | 56 |
| 5. 50% synthetic fertiliser + TwinN standard rate | 200 kg/Ha LAN | TwinN std rate (1x) | TwinN std rate (1x) | 56 |
| 6. 50% synthetic fertiliser + TwinN double rate | 200 kg/Ha LAN | TwinN double rate (2x) | TwinN double rate (2x) | 56 |

LAN is limestone ammonium nitrate (28% N)

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Dryland Wheat *Temuka, Chile 2009-2010*

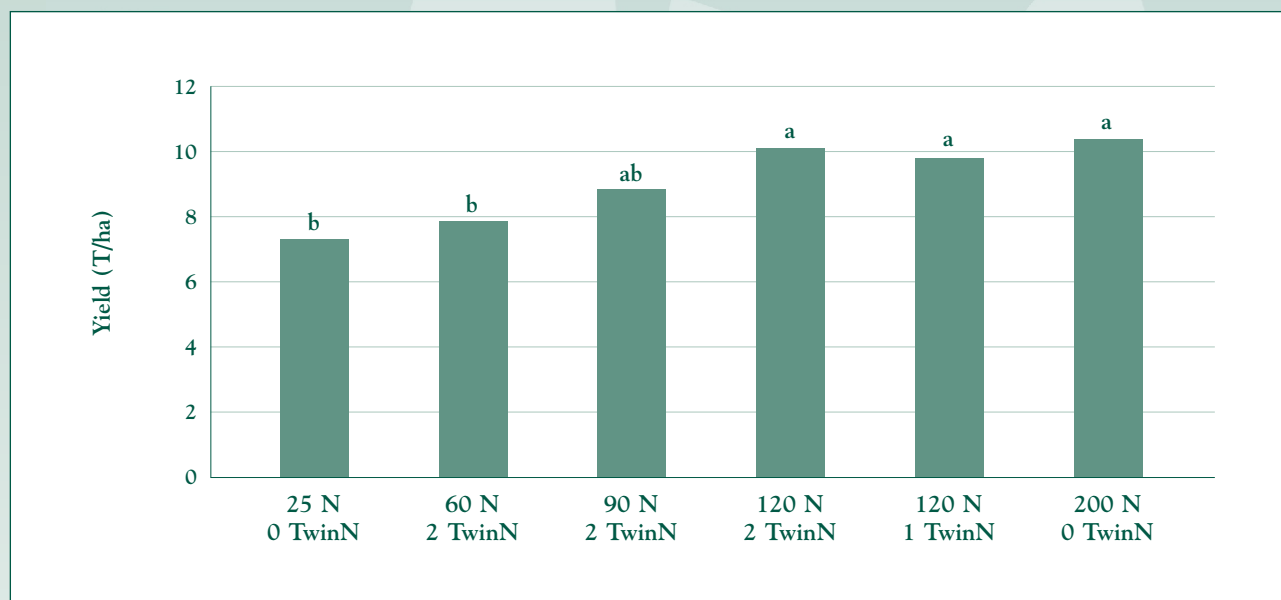


This trial was conducted by the University of La Frontera, Chile, to assess the capacity of TwinN to produce high yields with reduced nitrogen (N) fertiliser application rates in a wheat cropping system.

KEY RESULT

An independent trial in dryland wheat showed that two applications of TwinN combined with 60% of the standard N fertiliser application rate (120 kgN/ha) gave a yield equivalent to the 100% N application rate (200 kgN/ha).

Figure 1: Yield from different combinations of nitrogen fertiliser and TwinN



Note: Yields with the same letter above are statistically the same.

| Treatment | Kg N/ha: at planting | Kg N/ha: Z21 | Kg N/ha: Z30 | Total Kg N/ha |
|-----------|----------------------|---------------|---------------|---------------|
| 1 | 25 | 0 | 0 | 25 |
| 2 | 25 | 17.5 + Twin N | 17.5 + Twin N | 60 |
| 3 | 25 | 32.5 + Twin N | 32.5 + Twin N | 90 |
| 4 | 25 | 47.5 + Twin N | 47.5 + Twin N | 120 |
| 5 | 25 | 47.5 | 47.5+ Twin N | 120 |
| 6 | 25 | 75 | 100 | 200 |

Pre-plant fertiliser application consisted of 160 kg P₂O₅, 50 kg K₂O and 2 kg boron per ha.

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