

Trial: RH1214

Location: "Kildare", ~10 km south of Tullooona, NSW

Planting date: 23/5/2012

Plot size: 12 x 2 m on 65 cm row spacings

Trial design: Randomised complete block with four replicates (one of a series of six trials)

Variety: PBA HatTrick[®]

Soil nitrate level: 62 kg N/ha from 0-60 cm at 3/5/2012 (excluding mineralisation credit)

Basal fertiliser: Granulock Supreme Z 90 kg/ha to all plots

Treatments:

Treatment	Additional Nitrogen applied kg/ha	Nitrogen timing	Rhizobia inoculation
1	0	Planting	Nil
2	23	" "	Nil
3	46	" "	Nil
4	0	" "	Plus
5	23	" "	Plus
6	46	" "	Plus
7	23	In-crop	Nil
8	46	" "	Nil
9	23	" "	Plus
10	46	" "	Plus

All 'Additional Nitrogen' was surface applied as Urea.

Urea at planting: Spread on the 23/5/2012, incorporated by sowing (IBS) with narrow point tynes. First significant rainfall, ~30 mm between 25-26/5/2012

In-crop Urea: Applied on the 20/8/2012, plants early flowering. First significant rainfall, ~9 mm on 18-19/9/2012

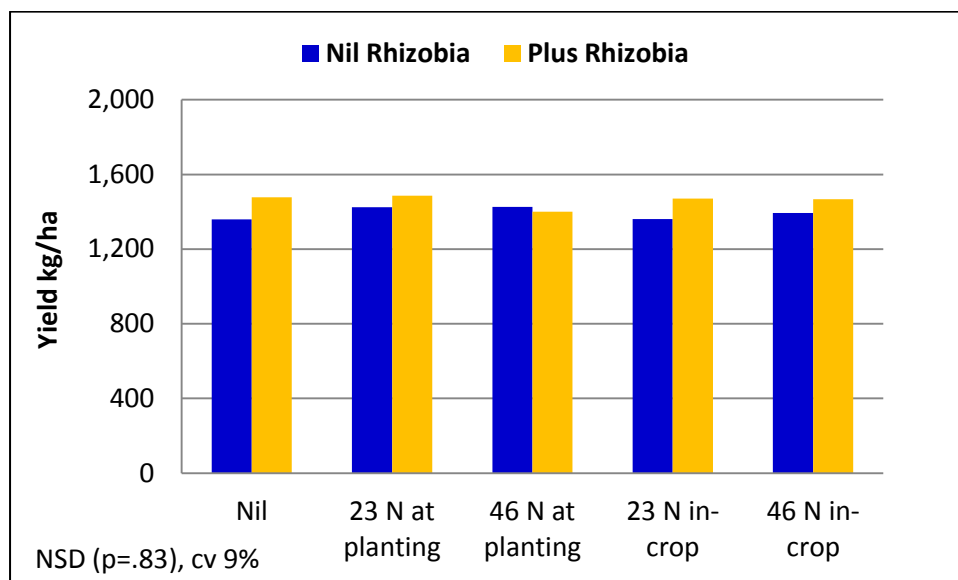
Rhizobia: Nodulator at 6.6 kg/ha applied with the seed into the planting furrow

The trial was well managed for weeds, *Helicoverpa* and *Ascochyta*

Emergence:

There was no significant impact on emergence from any treatment with a mean plant stand of 21/m² on the 16/6/2012 (24 days after planting).

Yield:



Key messages:

- No significant impact on yield from additional nitrogen at either rate or time of application
- No significant impact on yield from addition of *Rhizobia*

Conclusion:

There was no indication of any chickpea yield response to additional nitrogen at this site. With no yield benefit obtained, soil testing for residual nitrogen was not warranted.

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