

TwinN – Nitrogen fixing microbes



Reduce N fertiliser needs

Increase sugar yields

Increase profits

- TwinN is a freeze dried product that provides a specific selection of high performing microbes for your crop and soil.
- TwinN microbes fix N₂ from the air into your crop.
- TwinN microbes drive growth of better root systems so your expensive fertiliser is captured by the crop more efficiently.

Ingham Trial, Brian Tabone, Harvest Oct 2014					
cv.	N program	TCH	CCS	TSH	Inc. TSH
Q183	TwinN + 75% N	86.78	15.2	13.19	+11.6% (1.37T) Not Sig. at p=0.05
	Standard N	80.66	14.65	11.82	
Q200	TwinN + 75% N	109.99	15.22	16.74	+15.0% (2.19T) Highly Sig. at p=0.05
	Standard N	94.81	15.35	14.55	

Trial details. Independent replicated trial. Standard fertiliser versus TwinN + 75% N. TwinN applied by coulter blade and liquid inject nozzle (see pic) to plant cane (20 cm) late Sept 2013. Q183 2 reps/treat. , 6 rows/rep, 0.6 ha/rep. Q200 3reps/treat. , 6 rows/rep, 1.8 ha/rep

Key Results

- TwinN increased sugar yields (TSH) in Q183 by 11.6%, worth approx. \$300/ha
- TwinN increased sugar yields (TSH) in Q200 by 15%, worth approx. \$450/ha
- TwinN reduced N fertiliser use – and cost – by 25%

Gordonvale Trial, S&Ni Marsh Fertilisers, Harvest Oct 2014					
cv.	N program	TCH	CCS	TSH	Inc. TSH
Q230	TwinN + Standard	82.9 Sig. at p=0.06	14.55	12.1	+10% (1.1T)
	Standard N	72.3	15.25	11.0	

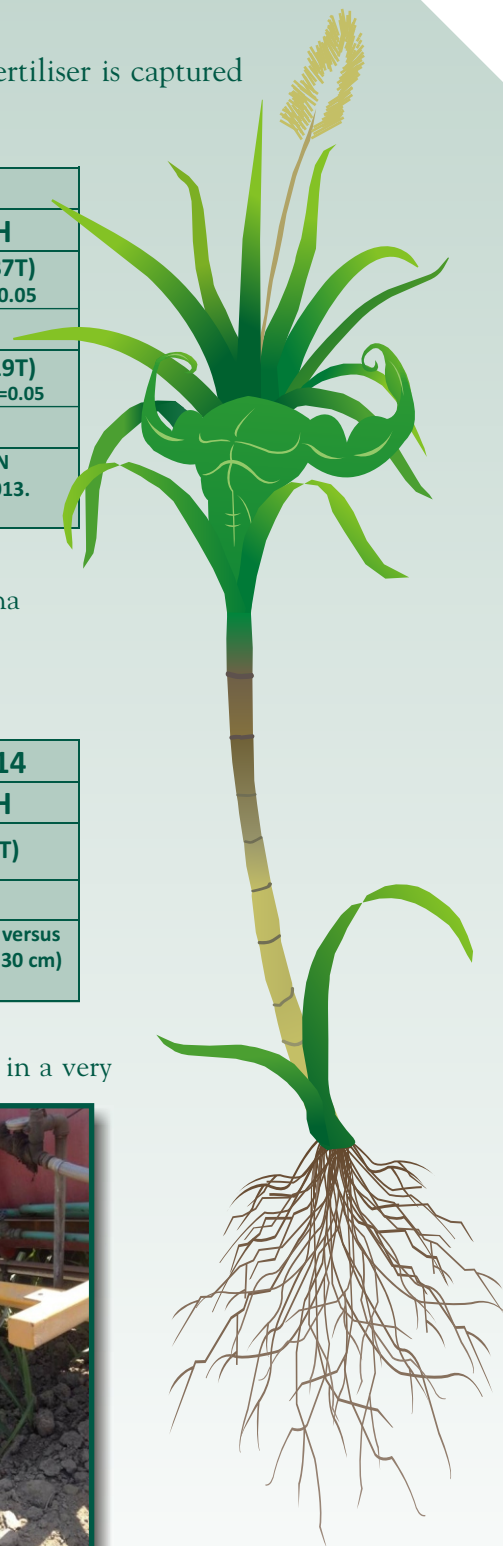
Trial details. Independent replicated trial by S.&Ni Marsh Ag Suppliers Standard fertiliser versus TwinN + Standard fertiliser. TwinN applied by boom spray to moist soil to plant cane (20 – 30 cm) mid Oct 2013. 2 reps/treat. , 6 rows/rep, 0.51 ha/rep. Crop water logged.

Key Result

- TwinN increased sugar yields (TSH) in Q230 by 10%, worth approx. \$250/ha in a very waterlogged season.

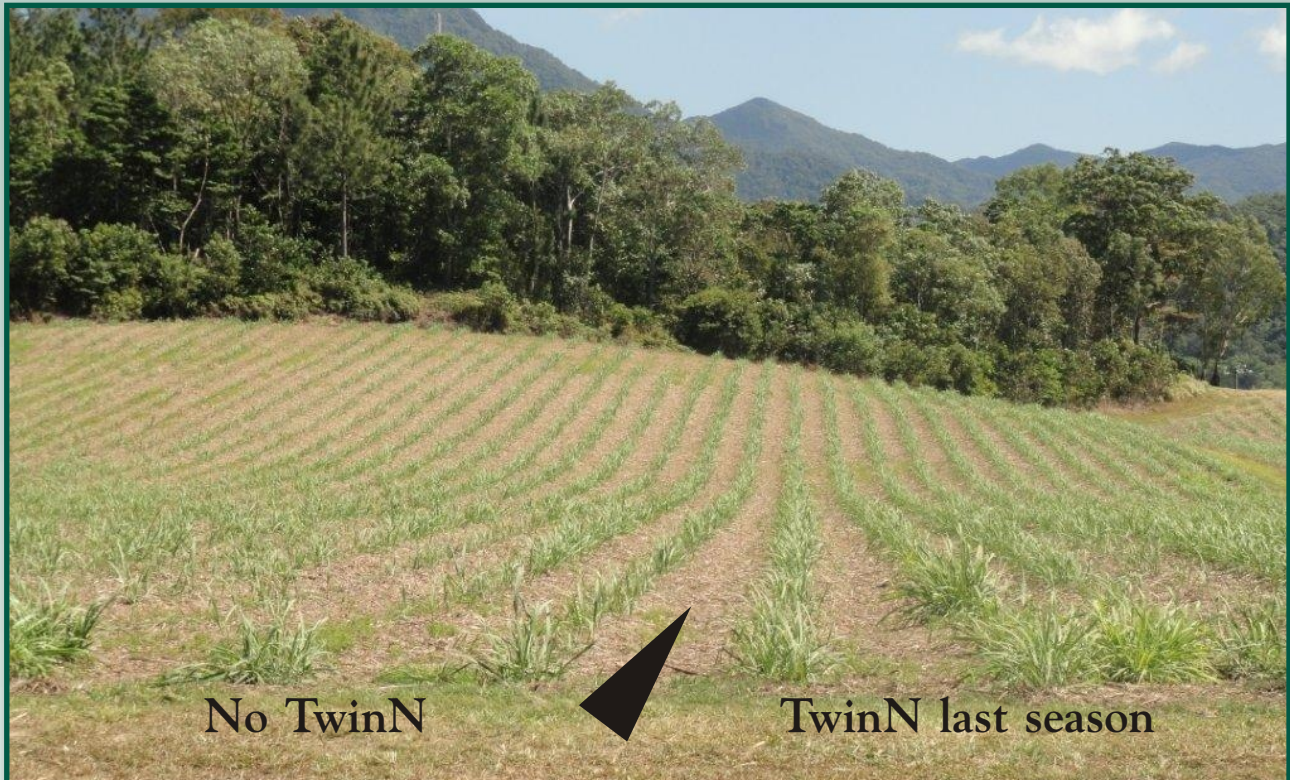


TwinN coulter and liquid inject applicator



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TwinN improves ratoon growth the following season. Above is ratoon growth in 2012 (3rd ratoon) after an application of TwinN combined with a 25% reduction in Island Coast Ratoon fertiliser in 2011 on Verri's farm, Mossman, Qld.

RECOMMENDATIONS

- TwinN enables farmers to adapt their N costs to current fertiliser and sugar prices.
- If N prices are high and sugar prices are low you need to grow the crop with low cost. Reduce N by 25% and apply TwinN once. This will provide a cost saving.
- If sugar prices are high you want to maximise yield. Reduce N application by 10-15% or apply TwinN over the top of your usual N rate.
- Apply at 10 - 50cm for plant cane or any time after new growth starts for ratoon cane.

Apply via:

- Centre pivot irrigation
- A Confidor rig or coulter and liquid inject, to deliver microbes into the moist root zone. Do not tank mix with fertilisers, insecticides or herbicides
- A boom spray onto moist soil using a streaming jet to penetrate trash.

CONTACT

Your local distributor:

Michael Evans for general sales advice in NQ: 0408 617 479 (email evansmichaelj@bigpond.com),
Rob Bower for technical advice on TwinN: 0458 989 282 (or email robbower@mabiotec.com),
www.mabiotec.com for general information, trial results from TwinN, and local distributors.

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