

TESTING DIFFERENT FUMIGATION PRODUCTS ON PINEAPPLE

THE USE OF THE CORRECT FUMIGANT COULD DOUBLE YOUR PINEAPPLE PRODUCTION



Soil fumigants provide benefits to growers in managing a wide range of pests and diseases, including nematodes, fungi, bacteria, insects, and weeds.



The cost of fumigation per hectare is expensive and identifying the benefits is critical in determining the economic viability.



Five fumigants were tested at different rates (low and high) and compared with the industry standard fumigant - Metham sodium and a control on a farm in SEQ and another in NQ.

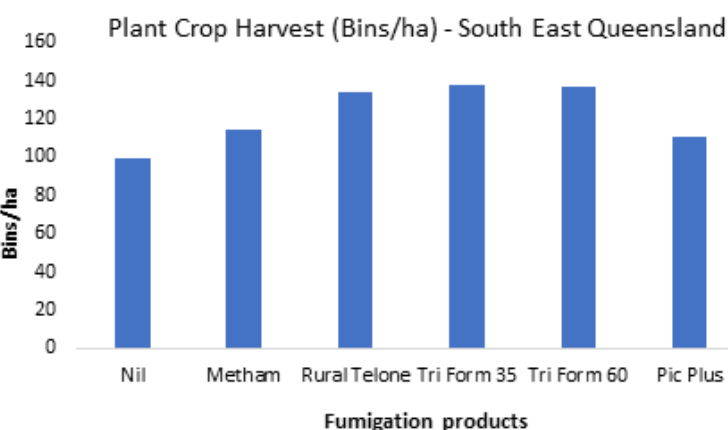
Fumigant treatments, target pest species and rates applied to the soil

Product	Target pest species	Rate
Control		
Metham sodium	Controls certain weeds, symphylids and fungal diseases.	600 L/ha
Rural Telone	Controls nematodes	160 Kg/ha
Rural Telone	Controls nematodes	240 Kg/ha
Tri-Form 35	Controls nematodes, symphylids and some diseases including phytophthora.	270 Kg/ha
Tri-Form 35	Controls nematodes, symphylids and some diseases including phytophthora.	350 Kg/ha
Tri-Form 60	Controls nematodes, symphylids and some diseases including phytophthora.	300 Kg/ha
Tri-Form 60	Controls nematodes, symphylids and some diseases including phytophthora.	400 Kg/ha
Pic Plus	Controls nematodes and phytophthora.	270 Kg/ha
Pic Plus	Controls nematodes and phytophthora.	340 Kg/ha

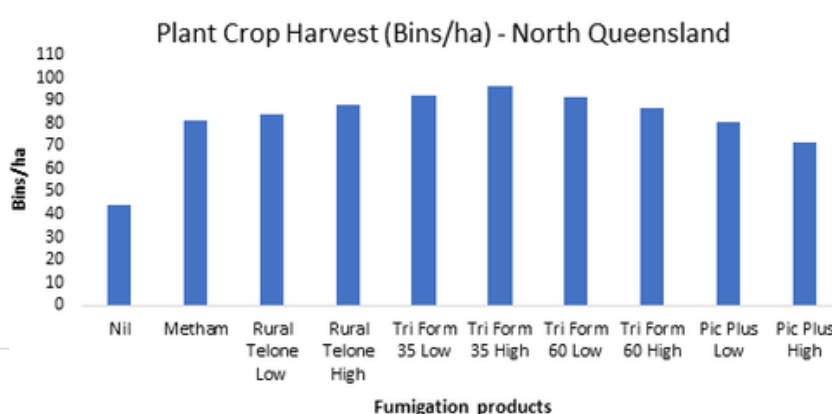


Fumigation rig used to apply treatments
Duck foot tine with dual outlets

Fumigation resulted in higher yields, plant mass and root length compared to no fumigation



Bins of pineapple per hectare from the 73-50 plant crop harvest in the SEQ



Bins of pineapple per hectare from the MD2 plant crop harvest in NQ

Take home messages

SEQ - Rural Telone (low rate) resulted in a benefit of \$5,877/ha over the control

NQ - Tri-Form 35 at a low rate resulted in a benefit of \$7,604/ha over the control

- Each farm has different pests and diseases and the 'one fumigant fits all' concept cannot be applied to pineapples
- Different fumigants are more effective against specific pests and diseases
- Small farm trials are recommended before farm-wide commercial applications

FOR MORE INFORMATION OR FREE ADVICE:

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PINEAPPLES



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PINEAPPLE FUND



Queensland Government