

Increased pear yields with the application of biostimulants Mycorrcin, Foliacin and suspension fertiliser.

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Key words

Pear, increased yields, Mycorrcin, Foliacin, suspension fertiliser

Overview

- The trial was set up to determine the impact of Mycorrcin and the combination of Mycorrcin, suspension fertiliser and Foliacin of crop yield.
- A block was divided into groups of 3 rows (each row 120m long) and assigned a treatment. The treatments were
 1. Control – Standard fertiliser program
 2. Mycorrcin – 4lt/ha at bud burst, 2lt/ha at early growth, 2 x 2lt/ha with weedsprays
 3. Suspension fertiliser + Mycorrcin + Foliacin – 200kg/ha lime flower, 20kg/ha elemental sulphur, 1.5kg/ha Borate 48, 6lt/ha Mycorrcin applied early spring. 5 x 300ml/ha Foliacin was applied with foliar nutrient during the season
- Suspension fertiliser is standard fertiliser ground to less than 150 micron. The small particle size increases it's surface area and availability.
- Foliacin contains elicitors and is designed to stimulate plant immune systems.
- At harvest various yield parameters were measured and recorded by AgConsult



Trees treated with a combination of Mycorrcin, suspension fertiliser and Foliacin produced on average an extra 4.925kg of fruit

Results

Total yield

	No. fruit/tree	Kg/tree
Standard fertiliser	106.45	13.655
Mycorrcin	101.10	15.683
Suspension fert + Mycorrcin + Foliacin	112.45	18.580

Fruit parameters

	Avg length cm	Avg diameter cm	Avg weight gm	Avg total pips
Standard fertiliser	7.70	6.79	156.46	4
Mycorrcin	7.61	6.75	155.3	5
Suspension fert + Mycorrcin + Foliacin	7.90	6.92	165.24	5

Quality parameters

	Avg colour	Avg defects	Avg firmness	Avg brix
Standard fertiliser	1.35	1.55	5.5275	10.37
Mycorrcin	1.45	1.75	5.6213	11.00
Suspension fert + Mycorrcin + Foliacin	1.43	1.40	5.3413	10.77

Conclusion

- The Mycorrcin application increased kg/tree, colour, brix and pip numbers
- The combination of Suspension fertiliser, Mycorrcin and Foliacin increased length, weight, diameter, brix, colour pips and total yield and reduce total defects.