Talborne Organics

Case Study

Production of Organic Pineapples in the Eastern Cape

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The trial indicated that it is

indeed feasible to produce

Organic pineapples in South

Africa when using Talborne fertilizers. The yields were 23% and 40% when compared to Inorganic standard and Chicken manure respectively. The average fruit mass was also larger. Therefore, a farmer using Talborne can expect increased earnings. Other benefits include improved resilience to drought and a

Summary:

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Between 2001 - 2008, the Eastern Cape Pineapples Growers Association and the Agricultural Research Council (ARC) conducted trials to establish the feasibility of growing pineapples organically. The study compared several Organic and synthetic approaches, with a view to developing "producer friendly" alternatives to the current industry standard.

The Study:

Talborne Organics was selected for comparison with chicken manure-based products and the inorganic industry standard. The trial plots consisted of well rested soils located in the vicinity of Bathurst, Eastern Cape. The study ran from 2003 to 2007 and the results included data from the plant crop and the first ratoon.

Block	Treatment Description (per ha)					
A1 -	Preplant: 2.0t Talborne Vita Veg 6:3:4 (14)					
Talborne	Post plant: 1.0t side dressing of Talborne Vita Nitro Boost 4:1:1 (10)					
	Ratoon: 2.0t Vita Green 5:1:5 (16)					
A2 -	Preplant: 30t Composted chicken manure, 2.5t dolomitic lime, 2.5t gypsum, 10kg					
Chicken	copper sulphate, 3.5kg boric acid, 250g sodium molybdate, 250g cobalt sulphate.					
Manure	Post plant: No applications					
	Ratoon: 2.0t Vita Green 5:1:5 (16)					
A3-6 -	Preplant: 1.5t dolomitic lime, 0.5t 1:2:5 (41), 0.1t potassium chloride, 25kg copper					
Inorganic	sulphate, 25kg manganese sulphate, 15kg Sodium borate, 4kg zinc sulphate.					
Standard	Post plant: 2 x 88kg N Ammonium sulphate, 5 x foliar sprays of UAN32, potassium					
	sulphate, zinc sulphate, magnesium sulphate, ferrous sulphate					
	Ratoon: 5 x foliar sprays of 250kg N, and 100kg K, 12 kg Mg.					

Results:

Treatment	Plant Crop			Ratoon crop		Total
	Ave. Fruit Mass (kg)	Yield (t/ha)	Plant condition post-harvest	Ave. Fruit Mass (kg)	Yield (t/ha)	Total yield (t/ha)
A1. Talborne	2.050	92.3	Vigorous	1.231	55.5	147.8
A2. Chicken Manure	1.766	79.5	Stressed	0.567	25.9	105.4
A3-A6. Inorganic Std.	1.623	73.0	Stressed	1.350	46.6	119.6

A subjective evaluation of the plant size & colour also showed the Talborne treatment gave the best results.



gradual build-up of soil fertility leading to reduced fertilizer usage over time, and healthy

usage over time, and healthy soils. For more information, please refer to the journal article: DEVELOPMENT OF AN ORGANIC PINEAPPLE

CULTIVATION STRATEGY FOR THE EASTERN CAPE REGION OF SOUTH AFRICA

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