



Anwendungsbericht/User Application Report

Produkt/Product:
penergetic p Bentonite

Fachberater/Consultant:
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Anwender/User:
Boland Organic Solutions
South Africa

Datum/Date:
2017

Application on potatoes in South Africa

Trial run in South Africa's western cape region on potatoes (var. Mondeals). We are using a spray programme for foliar fertilization containing penergetic p Bentonite. The control is the regular spray programme usually used on the farm. Our trial programme is done at a cost about 20% of that of the control spray programme.

Soil fertilizers were the same for both control and test.

Variety: Mondeals

Yield in t/ha: Test 67t, Control 58t, regional norm 55 – 60t

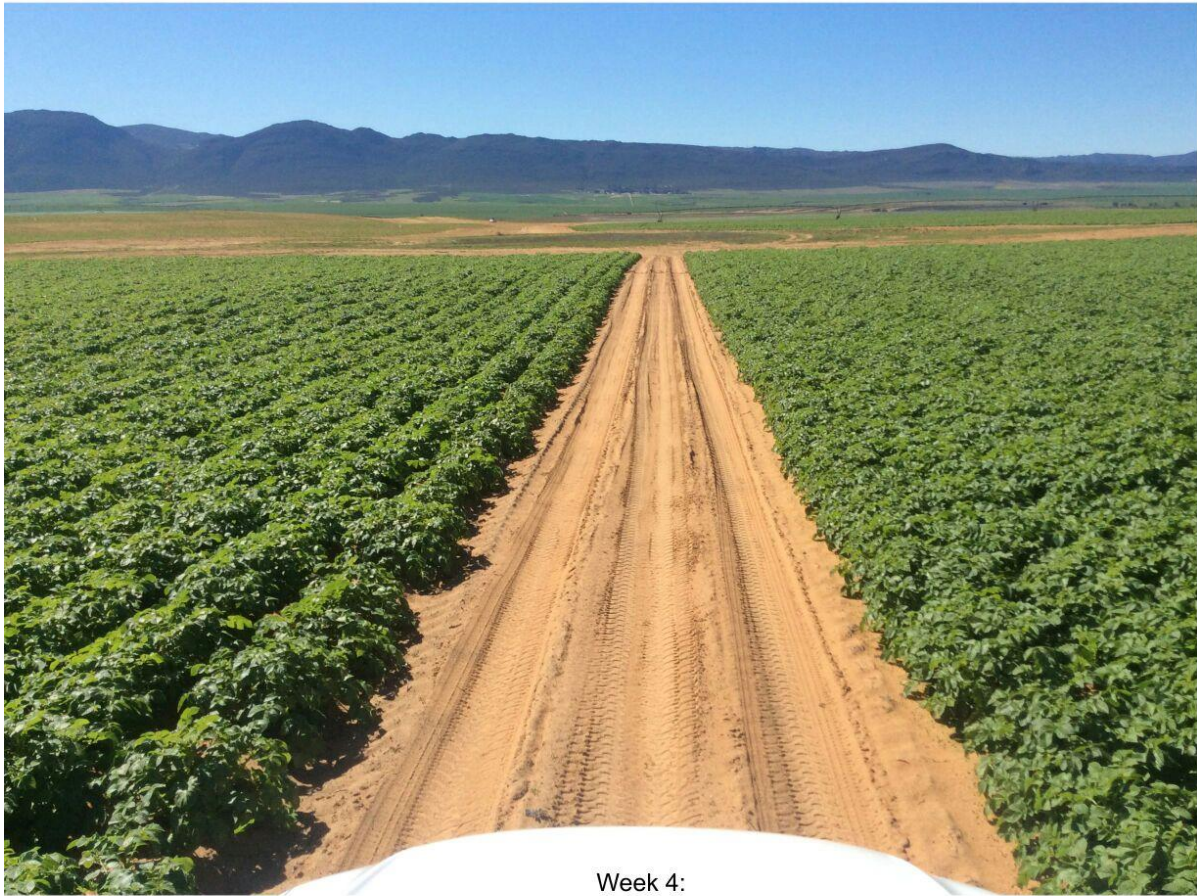
Results

- **+ 15% yield**
- **- 80% costs for spraying programme (foliar)**
- Bigger plants
- Thicker stalks
- More and bigger tubers

Pictures

The plants in the pictures are week 4 after emergence and there are vast differences already.

Uitvlug (Variety: Mondeals) Week 4



Control

Trial

Week 4:
Plants in trial higher, stronger.
Trial side vigorous growth - closed planting lanes.
Control side - planting lanes still visible.

Pivot circle divided in two:



Control -
sprayed with competitor's products



Trial - *Penergetic P Bentonite, G, C, H+*

Differences in Stem thickness



Control

Trial

Spray programme for the trial area

Plant stage	Application	Product	Dosage/ha
80% emergence	Blister pulverizer	Herbali	1 lt
		GroStim	1 lt
		penergetic p	200 g
Week 2	”	Herbali	500 ml
		GroStim	1 lt
		penergetic p	200 g
Week 4	”	GroStim	1 lt
Week 6	”	GroStim	1 lt
		Cal-Up	1 lt
Week 8	”	Cal-Up	1 lt
Week 10	”	Cal-Up	1 lt

Remarks/Conclusion

We ran a few trial runs before and found that our best results are obtained by using penergetic p during the early stages of crop growth. No more penergetic was given after week 4 (but GroStim contains some penergetic p molasses).

The use of herbicides and pesticides remained the same as that was not part of the criteria for the study. We were interested in getting a better result for cheaper. Penergetic was part of a cheaper program providing way better results than the more expensive program.