



2019/20

Site

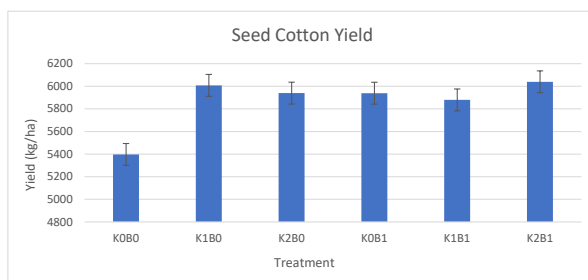
Jan Kempdorp

Trial

Potassium and Boron Fertilization trial

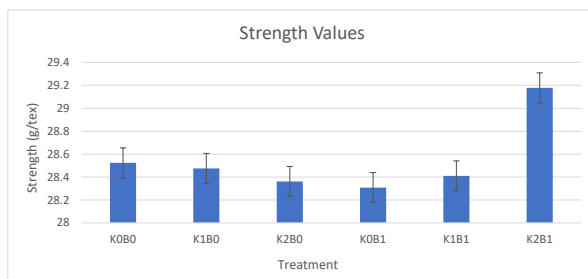
**CROP SUMMARY**

Producer	Johan Van Schalkwyk		
Picked	19/08/2020	Pix applied (l/ha)	None
Planting date	25/10/2019	Insect sprays	None
Previous crop	n/a	Cruiser	None
Germination day	12/11/2019	Dumi-Alpha (esfenvalerate)	None
Plant stand/ha	aim 100 000		
In-crop irrigations	yes		
Rainfall (total),	n/a	Days to defoliation	n/a hand picked
Fertilizer			
Nitrogen (Kg/ha N)	See Treatments		
Phosphorus (Kg/ha P)	See Treatments		
Potassium (Kg/ha K)	See Treatments		



**Amount of Fertiliser used in each Treatment**

Treatment	Nitrogen	Phosphorus	Potassium	Boron
	(N Kg/ha)	(P Kg/ha)	(K Kg/ha)	(B Kg/ha)
K0B0	187.2	37	0	0
K1B0	187.2	37	75	0
K2B0	187.2	37	150	0
K0B1	187.2	37	0	0.824
K1B1	187.2	37	75	0.824
K2B1	187.2	37	150	0.824



**Plant height, boll count and abscised squares**

Treatments	Plant height	Boll count	Abscised Squares
	P0B0	138.4	22.3
P75B0	140.4	23.2	24.7
P150B0	136.6	20.9	21.2
P0B1	138.8	19.3	21.8
P75B1	137.8	21.6	19.9
P150B1	139.6	17.8	19.9

**Notes**

Although there were no significant differences between strength results of the treatments, the K2B1 treatment is still quite high. The difference in yields between treatments and control is important to note, as 600 kg/ha can be quite a lot of extra money for a farmer.

**Fibre testing results**

Treatment	GOT (%)	Yield (kg/ha)	UHML	Strength	Mic	SCI
K0B0	42%	5396.8	1.26	28.5	4.0	153
K1B0	42%	6008.0	1.26	28.5	4.1	150
K2B0	41%	5939.4	1.26	28.4	4.1	149
K0B1	42%	5938.8	1.26	28.3	4.1	150
K1B1	42%	5879.4	1.25	28.4	4.1	148
K2B1	41%	6039.6	1.26	29.2	4.0	153



19/20

Site

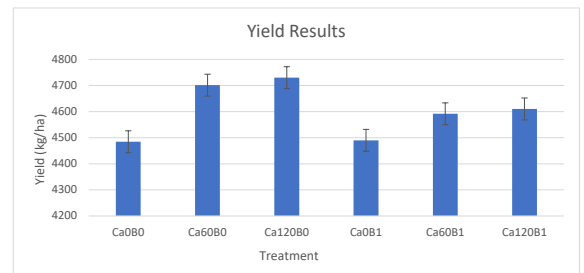
Loskop

Trial

Calcium and Boron Fertilization trial

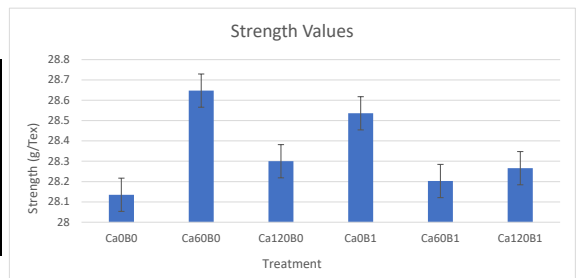
**CROP SUMMARY**

Producer	Coleen Fourie		
Picked	08/06/2020	Pix applied (l/ha)	None
Planting date	31/10/2019	Insect sprays	None
Previous crop	n/a	Cruiser	None
Germination day	16/11/2019	Dumi-Alpha (esfenvalerate)	None
Plant stand/ha	aim 100 000		
In-crop irrigations	yes		
Rainfall (total),	n/a	Days to defoliation	n/a hand picked
Fertilizer			
Nitrogen (Kg/ha N)	See Treatments		
Phosphorus (Kg/ha P)	See Treatments		
Potassium (Kg/ha K)	See Treatments		



**Amount of Fertiliser used in each Treatment**

Treatment	Nitrogen (N Kg/ha)	Phosphorus (P Kg/ha)	Potassium (K Kg/ha)	Boron (B Kg/ha)	Calcium (Ca Kg/ha)
Ca0B0	210.1	37	0	0	0
Ca60B0	210.1	37	0	0	60
Ca120B0	210.1	37	0	0	120
Ca0B1	210.1	37	0	0.824	0
Ca60B1	210.1	37	0	0.824	60
Ca120B1	210.1	37	0	0.824	120



**Notes**

The yield increases were marginal and boron had a confounding effect with the calcium treatments, this inflect could be investigated futher. Strength values noted no marked increase and are with in 0,6 g/tex.

**Fibre testing results**

Treatment	GOT (%)	Yield (g)	Yield (kg/ha)	UHML	Strength	Mic	SCI
Ca0B0	45.0%	8072.2	4484.54	1.14	28.1	4.7	131
Ca60B0	45.4%	8462.2	4701.24	1.13	28.6	4.9	130
Ca120B0	44.9%	8514.2	4730.10	1.14	28.3	4.7	132
Ca0B1	45.3%	8081.6	4489.79	1.14	28.5	4.7	130
Ca60B1	44.8%	8264.8	4591.54	1.13	28.2	4.8	128
Ca120B1	45.3%	8298.4	4610.20	1.14	28.3	4.8	131