



2019/20

Site
Project Leaders

Makhathini
Jurie Steyn

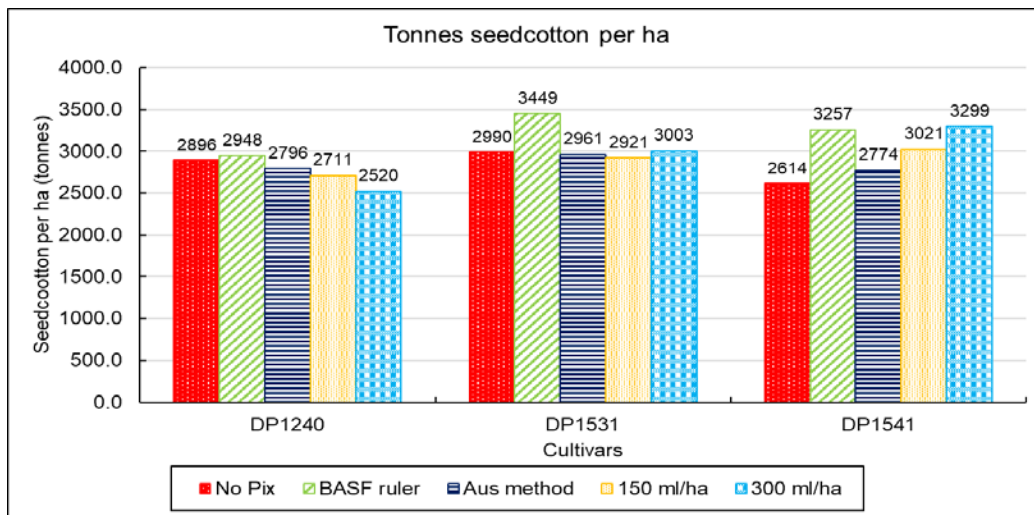
PIX TRIAL

Variety Trial

Trial Design
Randomized block design

CROP SUMMARY		Pix applied (mm/ha/cultivar)	See Table below	Insecticides	Harvesting dates
Producer	Rental land	Spraybor	500g/ha x 4	Chess	1. 06/04/2020
Handpicked		Maxiboost	2 xd 2l/ha	Mospilan	2. 01--06 /05/2020
Planting date	17-18 Dec 2019	Glyphosate:	2 x 3l/ha	Cormorant	3. 25/05 /2020
Previous crop	Drybeans			Selecron	4. 23/06/2020
				Sipermetrine	5. 20/07/2020
				Karate	
Plant stand/ha	60 000 plants/ha				
In-crop irrigations	260 mm				
Rainfall (total),	296mm				
Fertilizer @ planting	399kg/ha 4-3-4(33) = 36N, 27P, 35 K/ha				
Fertilizer	1) 200kg/ha NH4SO4; 2: 200kg/ha NH4SO4 + 125 kg/ha KNO3; 3: 100kg/ha KAN(28)Total: N - 156kg/ha; P = 27kg/ha; K = 98.5 kg/ha				

Pix applications	Treatments				
	Control (No Pix)	BASF Ruler	Aus method (2 sprays: 250ml + 700 ml/ha)	150 ml/ha @ 7.1mm growth/day	300 ml/ha @ 7.1mm growth/day
Cultivars					
DP1240	0	650ml/ha	950ml/ha	780 ml/ha	1210ml/ha
DP1531	0	650ml/ha	950 ml/ha	720ml/ha	1470 ml/ha
DP1541	0	650 ml/ha	950 ml/ha	840ml/ha	1420ml/ha



Results

* No statistical differences between treatments for yield between treatments (ANOVA LSD = 400.529; CV 16.6%),

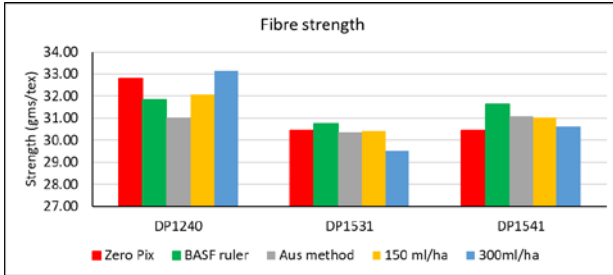
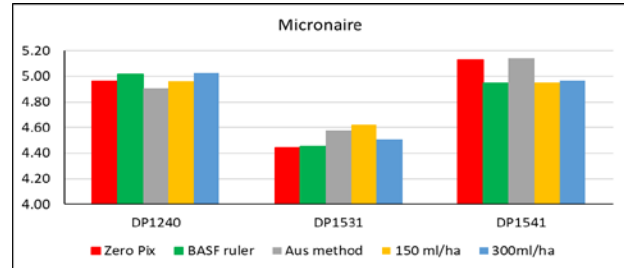
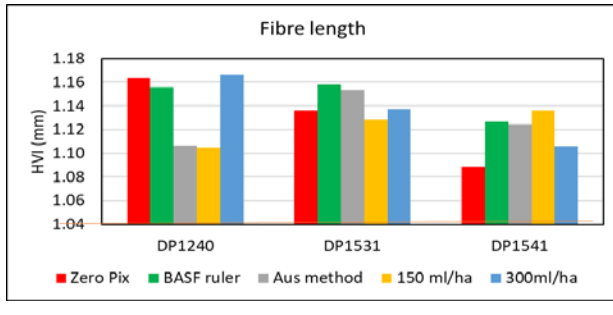
or cultivars((LSD = 307.917, CV = 16.517%) (p < 0.05)

* BASF ruler provided highest yield with DP1240, DP1531 and second highest with DP1541

* DP1541: The 300ml/ha based treatment gave the highest yield

* DP1531: Highest recovery rate after drought

*Zero Pix treatment: Rained late - cotton kept on growing



	Length	SFI
Treatment	(inches)	SFI
1240 0Pix	1.16	5.09
1240 GR150	1.10	5.91
1240 GR300	1.17	5.13
1240 Ruler	1.16	4.94
1240 Austr	1.11	5.51
1531 0Pix	1.14	5.57
1531 GR150	1.13	5.30
1531 GR300	1.14	5.49
1531 Ruler	1.16	4.85
1531 Austr	1.15	5.23
1541 0Pix	1.09	6.03
1541 GR150	1.14	5.24
1541 GR300	1.11	5.29
1541 Ruler	1.13	5.19
1541 Austr	1.12	5.82

Extension summary:

- * Overall yield: DP1531 - RULER (Seedcotton & lint)
- * Australian method gave best results in yield
- * Fibre quality similar between treatments
- * Bollcounts of Australian method corresponds with yield

Performance from individual cultivars:

Cultivar	Method	Strength	Micronaire
DP1240	Australian method	Highest strength	High micronaires
DP1531	all methods	good lengths, strengths, high micronaires	
DP1541	all methods	good lengths, strengths, high micronaires	