



2019/20

Site Luckhoff
Project Leader Andre Prins

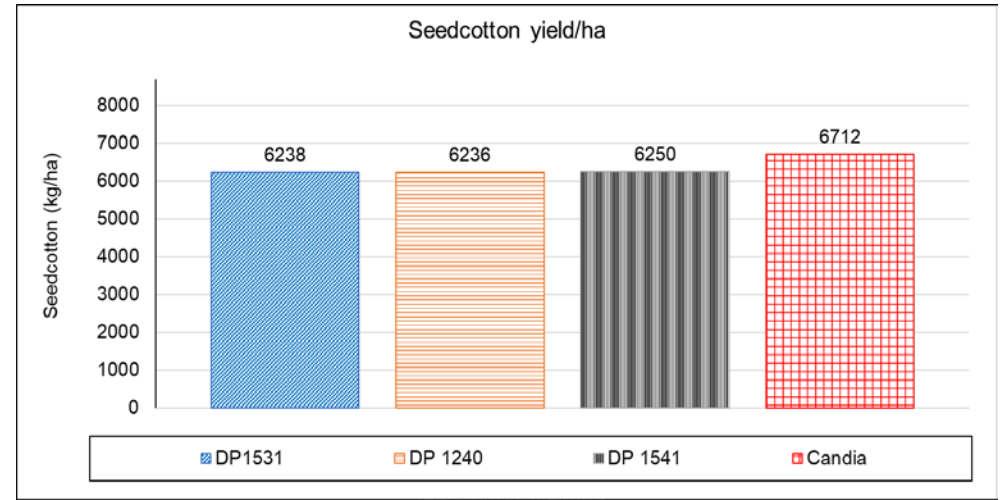
Te Vrede

Variety Trial

Trial Design Strip Trial
12 rows of approximately 0.35 ha/cultivar (see table below)

CROP SUMMARY

| | | | |
|-----------------------------|---------------|----------------------------|-------------------------------------|
| Producer | Albie Grobler | Pix applied (l/ha) | * |
| Picked | * | Insect sprays | Agrimec (thrips) on other cultivars |
| Planting date | 10/10/2019 | | (Candia looks better) |
| Previous crop | * | Days to defoliation | * |
| Plant stand/ha | * | | |
| In-crop irrigations | Pivots | | |
| Rainfall (total), | * | | |
| Fertilizer | | | |
| Nitrogen (Kg/ha N) | * | | |
| Phosphorus (Kg/ha P) | * | | |
| Potassium (Kg/ha K) | * | | |



| Cultivars | | | | |
|-----------|---------|---------|---------|--|
| DP1240 | DP 1541 | DP1531 | Candia | |
| BG2RF | BG2RF | BG2RF | BGRF | |
| 0.36 ha | 0.34 ha | 0.32 ha | 0.33 ha | |

| Variety | GOT % (Handpicked) | Micronaire (3.5-4.9) | Strength (gms/tex) | Length (inches) pulled by hand |
|---------|--------------------|----------------------|--------------------|--------------------------------|
| DP1531 | 46.32% | 4.3 | 28.73 | 1"7/32 |
| DP1240 | 44.61% | 4.8 | 29.84 | 1"3/16 |
| DP1541 | 46.37% | 4.5 | 29.56 | 1"3/16 |
| Candia | 47.50% | 4.1 | 28.33 | 1"1/4 |

Extension summary - GWK: Andre Prins & Hannes Hattingh

- *All yields were above 6 tonnes
- * Highest GOT% was achieved with Candia
- * micronaires all within range, DP 1240 slightly high
- *Strengths all above 28gms/tex
- *Lengths all within range.
- * Candia gave the highest yield



2019/20

Site
Project Leader

Luckhoff
Andre Prins

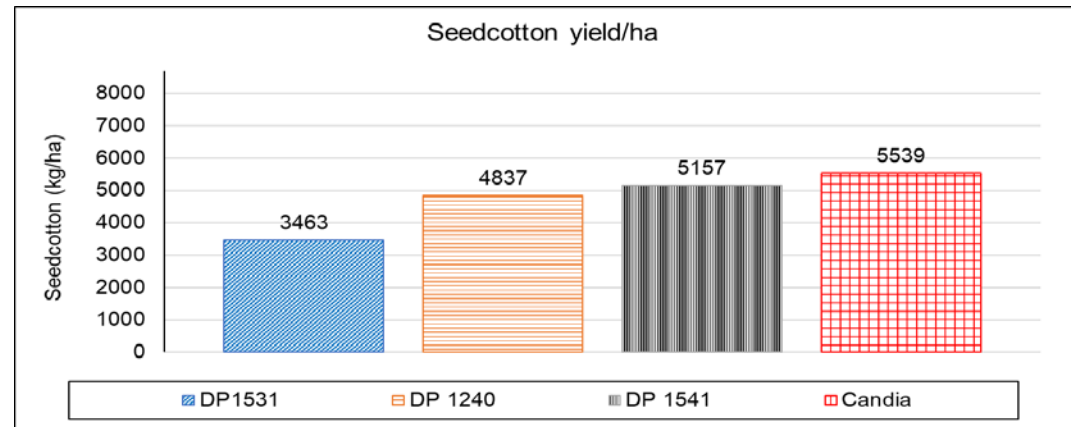
Ou Hans (B & B3)

Variety Trial

Trial Design
Strip Trial
12 rows

CROP SUMMARY

| | | | |
|----------------------|----------|--------------------|---|
| Producer | CP Bloem | | |
| Picked | * | Pix applied (l/ha) | * |
| Planting date | * | Insect sprays | * |
| Previous crop | | | * |
| | maize | Seed treatment | |
| Germination day | * | | |
| Plant stand/ha | * | | |
| In-crop irrigations | Pivots | Days of season: | * |
| Rainfall (total), | * | | |
| Fertilizer | | | |
| Nitrogen (Kg/ha N) | * | | |
| Phosphorus (Kg/ha P) | * | | |
| Potassium (Kg/ha K) | * | | |



| Cultivars | | | | |
|-----------|---------|---------|---------|--|
| DP1240 | DP 1541 | DP1531 | Candia | |
| BG2RF | BG2RF | BG2RF | BGRF | |
| 0.07ha | 0.07ha | 0.071ha | 0.066ha | |

| Varieties | GOT (Block B) (Handpicked) | GOT (Block B3) (Handpicked) | Micronaire (Block B) | Micronaire (Block B3) | Strength (Block B) | Strength (Block B3) | Length (inches pulled by hand) (Block B) | Length (inches pulled by hand) (Block B3) |
|-----------|-------------------------------|--------------------------------|-------------------------|--------------------------|-----------------------|------------------------|--|---|
| DP1531 | 44.14% | 45.12% | 3.89 | 3.82 | 30.08 | 29.07 | 1"3/16 | 1"3/16 |
| DP1240 | 44.39% | 42.89% | 4.60 | 4.14 | 29.15 | 31.94 | 1"3/16 | 1"3/16 |
| DP1541 | 44.18% | 44.38% | 3.78 | 4.03 | 29.14 | 27.89 | 1"5/32 | 1"5/32 |
| Candia | 45.70% | 46.13% | 3.74 | 3.84 | 30.47 | 27.66 | 1"5/32 | 1"5/32 |

* Samples taken over two areas (varies slightly)

Extension summary - GWK: Andre Prins & Hannes Hattingh

- * All yields were above 6 tonnes
- * Micronaires all within the acceptable range - good micronaires
- * Strengths all good, except Block B3, for Candia and DP1541. (look at soil here/pivot?)
- * All lengths within acceptable range
- * Highest GOT% with Candia, DP1531 also gave high GOT and good micronaire, strength and length



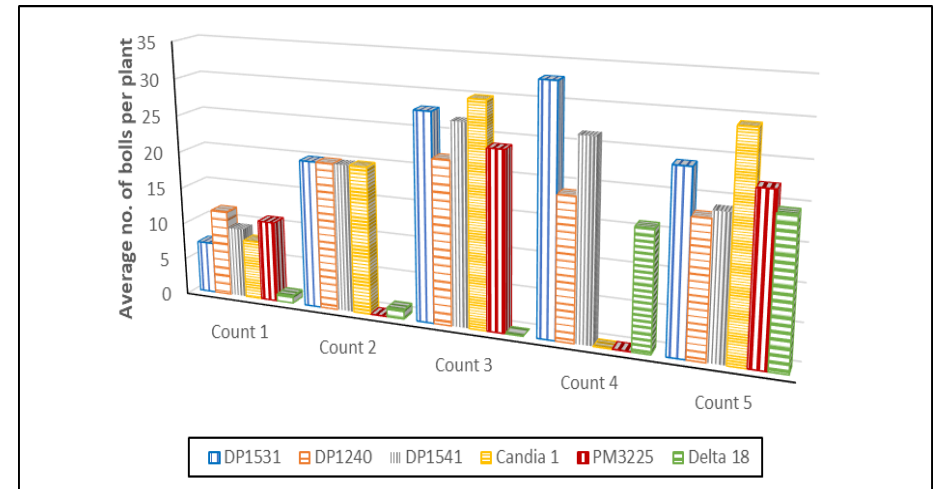
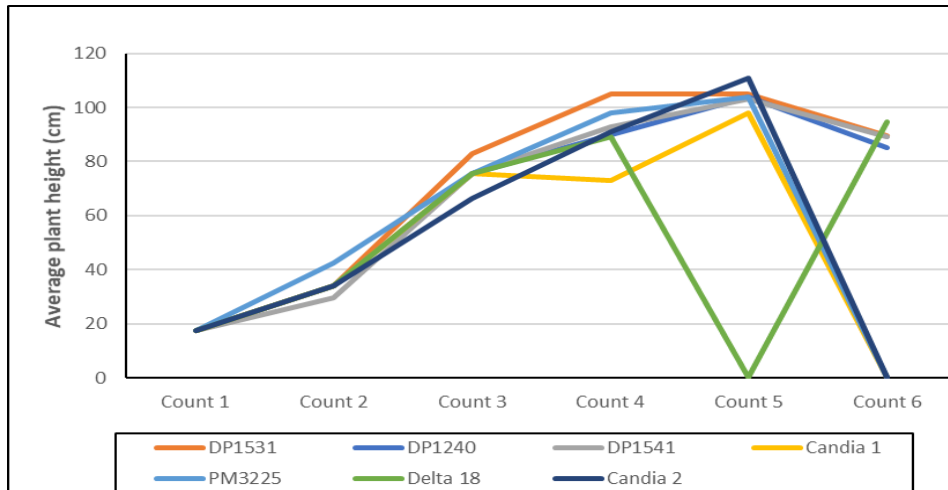
CROP SUMMARY

| | | | |
|--|--|---|---|
| Picked | | Pix applied (mm/ha/cultivar) | 1015 ml/ha (except for Candia around 700ml) |
| Planting date | 16/10/2019 | Insect sprays | |
| Previous crop | Potatoes | Cruiser | 510ml(990ml water on 100kg seed) |
| | | Cypermethrin | 100ml/ha |
| Germination day | | Dumi-Alpha (esfenvalerate) | 40ml/ha |
| Plant stand/ha | 28/10/2019 aim 66 000/ha | Glyphosate: | 5 liter/ha total |
| | | Solubor (28/11/19) (5/6 weeks post planting) | 0.5kg/ha |
| Rainfall (total), Fertilizer @ planting | * | Defoliator sprayed: | 40ml/ha |
| Fertilizer | 200kg/ha MAP 330kg 2:3:4 (30) at planting | | |

| Cultivars | | | | |
|--------------------|---------|--------|------------|------------|
| DP1240 | DP 1541 | DP1531 | Candia (1) | Delta 18RF |
| BG2RF | BG2RF | BG2RF | BGRF | Refugia |
| Plant stand: 77969 | 77969 | 66 000 | | 77969 |

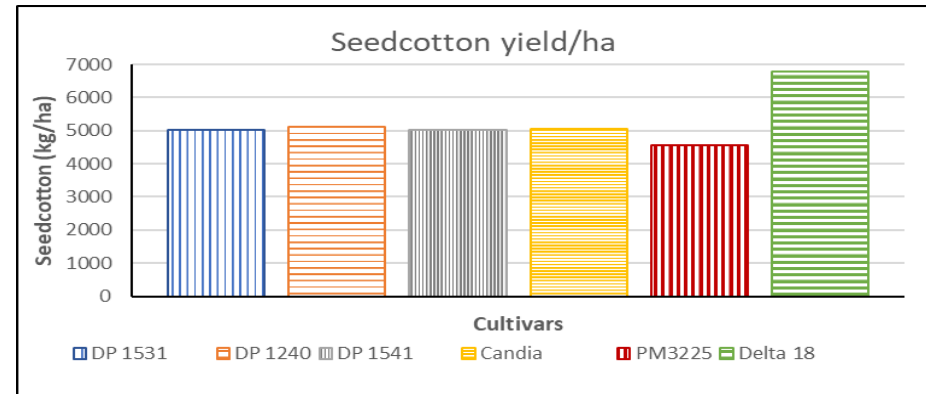
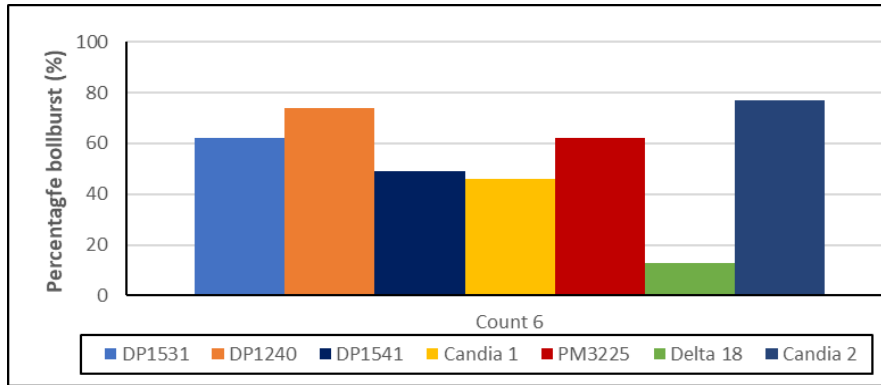
Candia (2) - additional measurements on other cotton

| Pix applications | 18/11/2020 (8mm) (3-4 weeks) | 29/11/2020 (1.5mm/dag) (5-6 weeks) | 27/12/2020 (8 weeks) | 10 weeks | Total Pix sprayed (ml/ha) |
|------------------|------------------------------|------------------------------------|----------------------|----------|---------------------------|
| DP1531 | 0 | 140 | 375 | 500 | 1015 |
| DP1240 | 0 | 140 | 375 | 500 | 1015 |
| DP1541 | 0 | 140 | 375 | 500 | 1015 |
| Candia | 0 | 90 | 300 | 300 | 690 |
| Delta 18 | 0 | 140 | 300 | 500 | 940 |
| PM3225 | 0 | 140 | 375 | 500 | 1015 |
| Candia 2 | 0 | 90 | 350 | 300 | 740 |



Additional data:

| Time after planting | 21 days after emergence | | | 10.5 weeks | | |
|---------------------|-------------------------|------------|------------|------------|------------|------------|
| Plant heights | 18/11/2020 | 29/11/2020 | 27/12/2020 | 16/01/2020 | 02/02/2020 | 14/02/2020 |
| DP1531 | 17.3 | 33.86 | 83 | 105 | 105 | 89.5 |
| DP1240 | 17.3 | 33.86 | 75.6 | 90 | 104 | 85.2 |
| DP1541 | 17.3 | 29.75 | 75.6 | 93 | 103 | 89.2 |
| Candia 1 | 17.3 | 33.86 | 75.6 | 73 | 98 | ? |
| Delta 18 | 17.3 | 33.86 | 75.6 | 89 | ? | 94.5 |
| PM3225 | 17.3 | 42.5 | 75.6 | 98 | 104 | ? |
| Candia 2 | 17.3 | 33.86 | 66.5 | 91 | 111 | ? |



| Variety | Micronaire (3.5-4.9) | Strength (gms/tex) | Length (inches) pulled by hand |
|----------|----------------------|--------------------|--------------------------------|
| DP1531 | 3.9 | 28.7 | 1"3/16 |
| DP1240 | 4.5 | 31.8 | 1"3/16 |
| DP1541 | 4.4 | 30.5 | 1"5/32 |
| Candia | 3.3 | 28.7 | 1"3/16 |
| PM3225 | 4.1 | 30.0 | 1"5/32 |
| Candia 2 | 3.0 | 29.2 | 1"5/32 |

Extension summary - Jurie Steyn

- * Trail was planted on same locality as previous season.
- * Highest yield with Delta 18;
- * All cultivars gave good yield
- * Micronaire acceptable, except for Candia
- * Highest percentage bollburst at count 5 near end of season, does not necessarily give highest yield - weight of bolls?

Conclusion % bollburst does not necessarily correlate with yield
 Plantheight shortest at Candia and Delta 18? Jurie, how did heights decrease?
 Total Pix sprayed over season is over 1 liter per ha, except for Candia and Delta 18 it was under 1l per ha



2019/20

Site
Project Leader

Koedoeskop
Tilla van der Westhuizen/Nico Swart

Tiaan Rickerts

Variety Trial

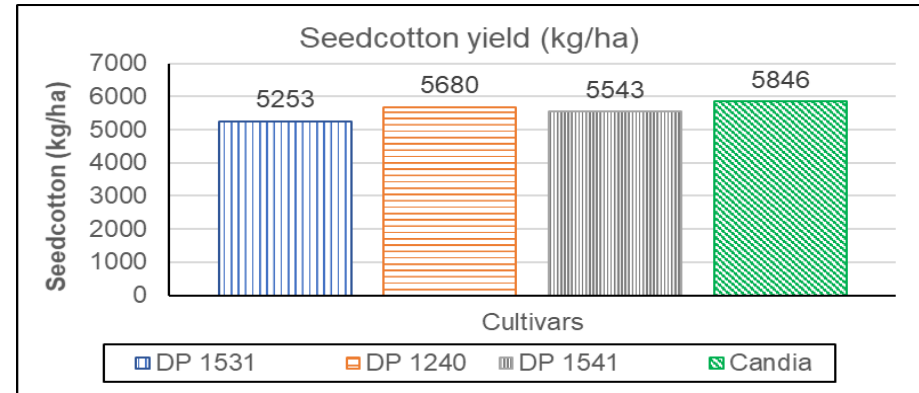
Trial Design

Strip Trial
1.8-2ha /cultivar



CROP SUMMARY

| | | | |
|------------------------------|------------------|-------------------------------------|-----------------------|
| Producer | Tiaan Rickerts | | |
| Picked | 20/05/2020 | Pix applied (mm/ha/cultivar) | geen |
| Planting date | 2/11/2019 | Insect sprays | Bulldock/Agrimec Gold |
| Previous crop | Koring | | |
| Germination day | 9/11/2019 | | |
| Plant stand/ha | 92 000 plants/ha | Glyphosate: | |
| In-crop irrigations | | Solubor | |
| Rainfall (total), | | | |
| Fertilizer @ planting | | Defoliator sprayed: | Ginstop - 250ml |
| Fertilizer | | | |



| Cultivars | | | | |
|-----------|--------|---------|--------|--------|
| DP1531 | DP1240 | DP 1541 | Candia | PM3225 |
| BG2RF | BG2RF | BG2RF | BG2RF | BG2RF |

| Variety | GOT % (handpicked) | Micronaire (3.5-4.9) | Strength (gms/tex) | Length (inches) pulled by hand |
|---------|--------------------|----------------------|--------------------|--------------------------------|
| DP1531 | 44.1 | 4.4 | 26.9 | 1"3/16 |
| DP1240 | 42.8 | 4.8 | 27.5 | 1"3/32 |
| DP1541 | 46.0 | 4.6 | 26.0 | 1"3/32 |
| Candia | 46.4 | 4.3 | 26.4 | 1"3/32 |

| Cultivars | Strength | Micronaire |
|-----------|----------|------------|
| DP 1531 | 26.52 | 4.02 |
| DP 1240 | 29.98 | 4.35 |
| DP 1541 | 28.52 | 4.48 |
| Candia | 27.19 | 3.83 |

| Bol tellings (A. Bennett) | 20-Feb | Notes | |
|---------------------------|--------|--------------------|------------------------------------|
| DP1531 | 14 | Approx 5.15 ton/ha | Flower to the top |
| DP1541 | 18 | Approx 6ton/ha | 2m high plants - 200ml Pix sprayed |
| DP1240 | 24 | (approx 8.8 t/ha) | |
| Candia | 22 | approx 9.096 t/ha) | |

Extension summary: Co-workers: Tilla van der Westhuizen/Nico Swart

- * Lengths acceptable
- *Micronaires all acceptable, but DP1240 tending to be high
- *DO1240 gave highest fibre strength
- *strengths are all too low!
- * The weak fibres may be due to low Potassium in the 30 cm - 1.2 m soil depth.



2019/20

Site
Project LeaderMakoppa
Tilla van der Westhuizen/Nico Swart

Albertus Nel

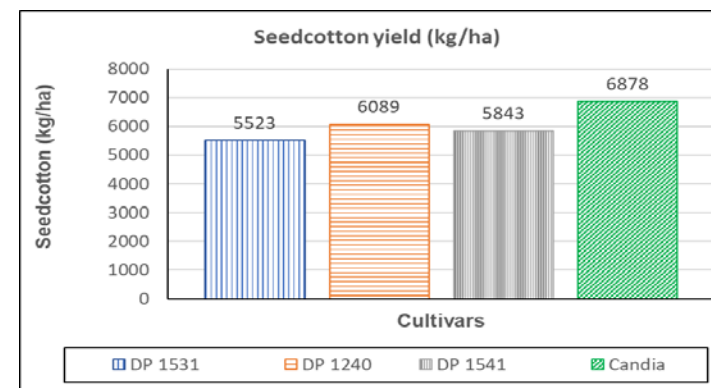
Variety Trial

Trial Design Strip Trial

1.8-2ha/cultivar



| CROP SUMMARY | | | |
|-----------------------|--------------|------------------------------|---------------|
| Producer | Albertus Nel | | |
| Picked | | Pix applied (mm/ha/cultivar) | 1,25Lt |
| Planting date | 1/11/2019 | Insect sprays | not available |
| Previous crop | Mielies | | |
| Germination day | 10/11/2019 | | |
| Plant stand/ha | 92106 | Glyphosate: | * |
| In-crop irrigations | * | Solubor | * |
| Rainfall (total), | * | | |
| Fertilizer @ planting | * | Defoliator sprayed: | Ginstop |
| Fertilizer | * | | |



| Cultivars | | | | |
|-----------|--------|---------|--------|--------|
| DP1531 | DP1240 | DP 1541 | Candia | PM3225 |
| BG2RF | BG2RF | BG2RF | BG2RF | BG2RF |

| Cultivars | Strength | Mic |
|-----------|----------|------|
| DP1531 | 26.16 | 4.20 |
| DP1240 | 29.48 | 4.39 |
| DP1541 | 28.68 | 4.50 |
| Candia | 26.72 | 3.92 |

| Variety | GOT % | Micronaire (3.5-4.9) | Strength (gms/tex) | Length (inches) pulled by hand |
|---------|-------|----------------------|--------------------|--------------------------------|
| DP1531 | 44.1 | 4.4 | 26.9 | 1"3/16 |
| DP1240 | 42.8 | 4.8 | 27.5 | 1"3/32 |
| DP1541 | 46.0 | 4.6 | 26.0 | 1"3/32 |
| Candia | 46.4 | 4.3 | 26.4 | 1"3/32 |

| Boll Counts (A. Bennett) | 20-Feb | Notes | |
|--------------------------|--------|--------------------|------------------------------------|
| DP1531 | 14 | Approx 5.15 ton/ha | Flower to the top |
| DP1541 | 18 | Approx 6ton/ha | 2m high plants - 200ml Pix sprayed |
| DP1240 | 24 | (approx 8.8 t/ha) | |
| Candia | 22 | approx 9.096 t/ha) | |

Extension summary: Co-workers: Tilla van der Westhuizen/Nico Swart

*DO1240 gave highest fibre strength

*strengths are all too low!

The weak fibres may be due to low Potassium in the 30 cm - 1.2 m soil depth.

*Micronaires all acceptable, but DP1240 tending to be high

* Lengths acceptable

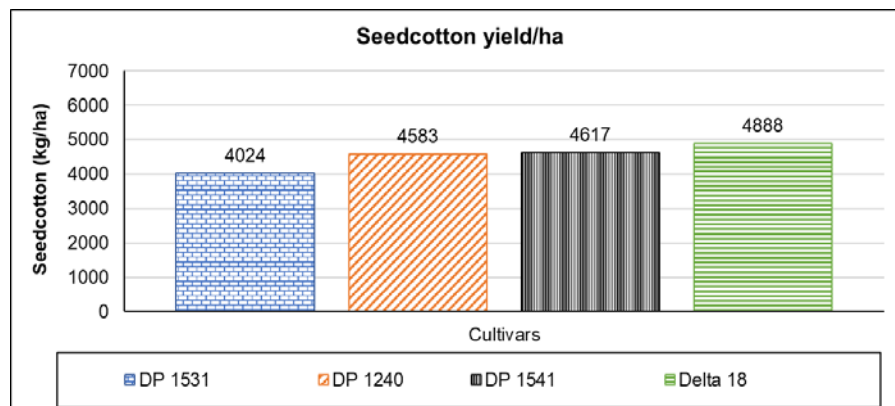


2019/20

Site Mkuze
Project Leader Jurie Steyn

Variety Trial Trial Design Strip Trial 1.8-2ha /cultivar

| CROP SUMMARY | | |
|-----------------------|------------------------------|--|
| Producer | Charl Senekal/Danie | |
| Picked | | Pix applied (mm/ha/cultivar) 300-350ml |
| Planting date | 24/10/2019 | Insect sprays |
| Previous crop | sugar cane (rests present) | 27/12/19 Aphids |
| Germination day | 04/11/2019 | 11/1/20 Acetamidrid 75g |
| Plant stand/ha | 47 800 | 11/1/20 Mecti 300ml |
| In-crop irrigations | | Glyphosate: 1. 22/11/19 |
| Rainfall (total), | | Solubor (16/1/20) 0.5kg/ha |
| Fertilizer @ planting | 150kg/ha MOP (75kg K) | Defoliator sprayed: 40ml/ha |
| Fertilizer | 330kg 2:3:4 (30) at planting | |



| Dates | Cultivars | | | |
|--------|---------------------|---------|--------|------------|
| | DP1240 | DP 1541 | DP1531 | Delta 18RF |
| | BG2RF | BG2RF | BG2RF | Refugia |
| 07-Nov | Plant stand 39 560 | 42 490 | 46 886 | |
| 22-Nov | Plant stand: 49 800 | 49 800 | 49 800 | 41 025 |

| Variety | GOT % (Handpicked) | Micronaire (3.5-4.9) | Strength (gms/tex) | Length (inches) pulled by hand |
|----------|--------------------|----------------------|--------------------|--------------------------------|
| DP1531 | 43 | 4.7 | 29.7 | 1"1/8 |
| DP1240 | 45 | 5.2 | 30.1 | 1"1/8 |
| DP1541 | 43 | 4.5 | 33.2 | 1"3/16 |
| Delta 18 | 40 | 4.2 | 30.0 | 1"1/8 |

| Cultivars | Bollcounts | % Bollburst | % Bollrot |
|-----------|------------|-------------|-----------|
| DP1531 | 33 | 4 | 0 |
| DP1240 | 19 | 3 | 5 |
| DP1541 | 26.6 | 2 | 0 |
| Delta 18 | 16 | 0 | 0 |

Extension summary - J. Steyn

- * Trail was planted on same locality as previous season.
- * Highest yield was Delta 18, followed by DP1541 and then DP1240.
- * All cultivars gave good yield over 4 tonnes/ha
- * Highest percentage bollburst at count 5 near end of season, does not necessarily give highest yield

Additional data:

| Pix applications | 2 Jan 2020 (8.5 weeks) | 11 Jan (9.5 weeks - Quat) |
|------------------|------------------------|---------------------------|
| DP1531 | 350 | 350 |
| DP1240 | 350 | 350 |
| DP1541 | 350 | 350 |
| Delta 18 | 350 | 350 |



2019/20

Site
Project Leader

Sweizer-Reneke
Tilla van der Westhuizen

Jozeph du Plessis

Variety Trial

Trial Design

Strip Trial
1.8-2ha /cultivar



CROP SUMMARY

Producer Jozef du Plessis

Picked

Planting date

Pix applied (mm/ha/cultivar)

Insect sprays

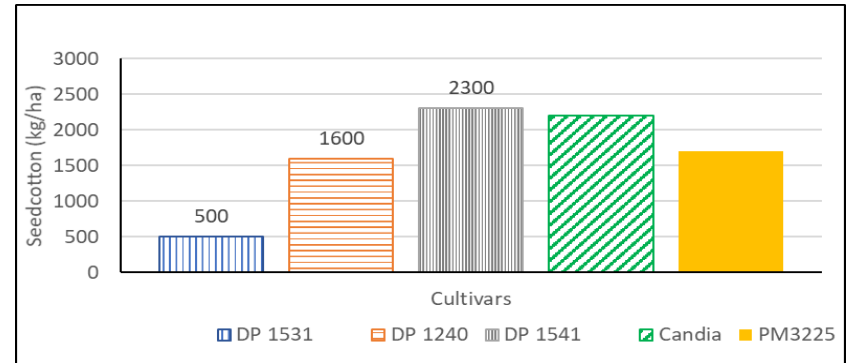
Glyphosate: 1. 22/11/19

Solubor (16/1/20)

Cultivars

| | | | | |
|--------|--------|---------|-------------|--------|
| DP1531 | DP1240 | DP 1541 | Candia | PM3225 |
| BG2RF | BG2RF | BG2RF | BG2RF (sic) | BG2RF |

| Variety | GOT % | Micronaire (3.5-4.9) | Strength (gms/tex) | Length (inches) pulled by hand |
|---------|-------|----------------------|--------------------|--------------------------------|
| DP1531 | 43.4 | 4.0 | 27.9 | 1"3/16 |
| DP1240 | 41.4 | 4.6 | 29.2 | 1"3/16 |
| DP1541 | 44.4 | 4.5 | 28.3 | 1"3/16 |
| Candia | 43.7 | 3.5 | 28.1 | 1"3/16 |
| PM3225 | 43.1 | 4.1 | 30.4 | 1"3/16 |



Extension summary - T. van der Westhuizen

- * All strenghts were good, except DP1531, was below 28gms/tex
- *Micronaires good, with Candia borderline
- * Paymaster delivered the highest fibre strenght of 30.4 gms/tex
- *Highest GOT% was achieved with DP1541.



019/20

Site Vaalharts
Project Leader Jurg Bester (Vaalharts Cotton Gin)

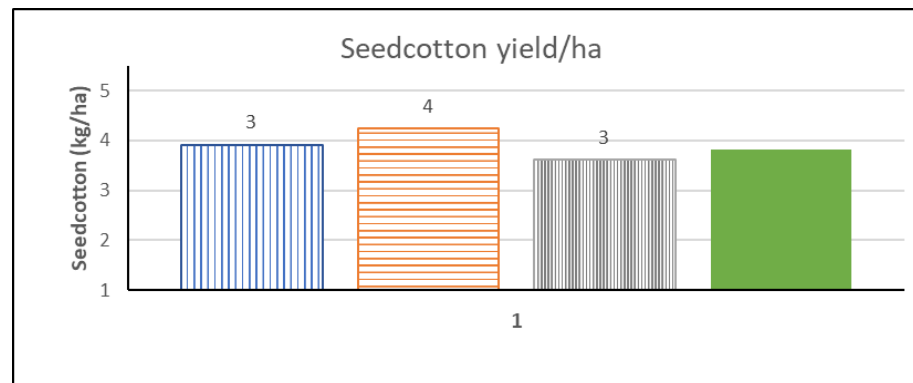
Variety Trial

Trial Design

Strip Trial
 1.8-2ha /cultivar

CROP SUMMARY

| | | |
|------------------------------|----------------------|---|
| Producer | Richard Godfree-Thom | |
| Picked | 05/06/2020 | Pix applied (mm/h): 1.200L Insect sprays |
| Planting date | 22/10/2019 | |
| Previous crop | koring, mielies | |
| Germination day | | Glyphosate: Solubor Defoliator sprayed: |
| Plant stand/ha | 85000 | |
| In-crop irrigations | spilpunt | |
| Rainfall (total), | 15/05/2019 | |
| Fertilizer @ planting | | |
| Fertilizer | | |



| Cultivars | | | | |
|-----------|--------|---------|--------|--------|
| DP1531 | DP1240 | DP 1541 | Candia | PM3225 |
| BG2RF | BG2RF | BG2RF | BG2RF | BG2RF |
| 5.648t | 5.608 | 5.948 | 5.428 | 4.012 |
| 1.65ha | 1.5ha | 1.91ha | 1.63ha | 1.22ha |

| 2019/20 season | | | | | |
|----------------|--------------------|----------------------|--------------------|--------------------------------|--------|
| Variety | GOT % (Handpicked) | Micronaire (3.5-4.9) | Strength (gms/tex) | Length (inches) pulled by hand | SCI |
| DP1531 | 44.6 | 4.6 | 29.6 | 1"3/16 | 137.5 |
| DP1240 | 43.0 | 5.1 | 30.3 | 1"3/16 | 125 |
| DP1541 | 46.1 | 5.3 | 29.1 | 1"3/16 | 122.75 |
| Candia | 45.7 | 4.8 | 28.9 | 1"3/16 | 130.5 |
| PM3225 | 45.3 | 4.5 | 30.1 | 1"3/16 | 133.5 |

| 2018/19 season | | | |
|----------------|--|--|---|
| Variety | Micronaire (3.5-4.9) (premium 3.8-4.2) | Vesel Lengte (duime/"inches") Benodig >1"1/8 | Vesel sterkte (> 28 G/TEX, verkieslik > 29 G/TEX) |
| DP1240 B2RF | 4.2 | 1" 7/32 | 30.3 |
| DP1531 B2RF | 3.9 | 1" 3/32 | 30.4 |
| DP1541 B2RF | 3.9 | 1" 3/16 | 28.3 |
| Candia BRF | 3.8 | 1" 7/32 | 29.2 |
| Sicot 74 BGRF | 3.8 | 1" 9/32 | 28.6 |

Extension summary - Vaalharts Cotton Gin - Jurg Bester

*DP1541 showed a high microanire of 5.3
 * DP 1240 had a high micronaire of 5.1
 *All strengths were good.

* All fibre lengths were good

Comment: Although the trials was damaged by 60% hail, cotton had good re-growth. High micronaires could be attributed to the hail stress/moisture. The previous season's micronaires were within normal ranges