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Cotton production in South Africa and possible potential for investing in the production of cotton by-products

By

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The views expressed are those of the author and do not necessarily reflect the views of UNCTAD.



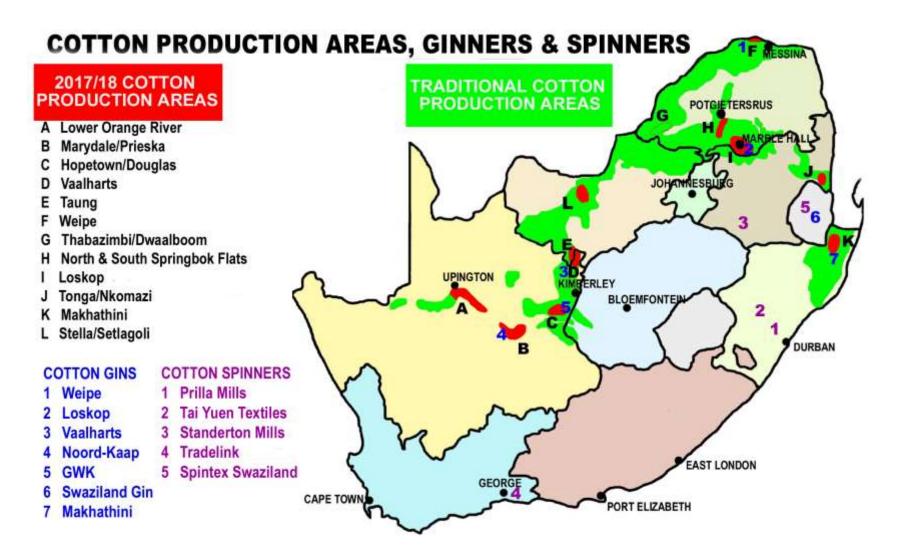




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COTTON LINT BALES (200kg bales)

	PRODUCTION SEASON	REALISTIC	OPTIMISTIC	PESSIMISTIC
	2019/20	250 000	300 000	200 000
	2020/21	275 000	400 000	175 000
	2021/22	300 000	500 000	150 000
	2022/23	33 0 0 00	600 000	125 000
te	2023/24	350 000	620 000	100 000

3rd estimate

Cotton production

2018/19 year: 4th estimate:

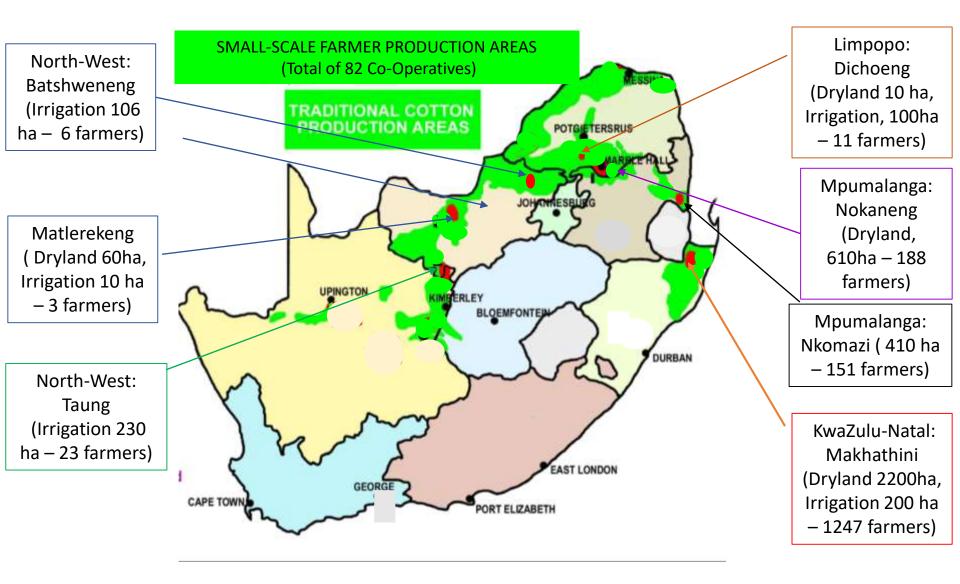
RSA:

□ Irrigation: 23 324 ha Yield Seed cotton/ha: 4694 kg

Dryland: 19 0 64 ha Yield: 989 kg/ha

- Handpicked: 1% KwaZulu Natal & Mpumalanga
- Mostly machine picked

Expected no. of hectarages to increase to 100 000 ha over time



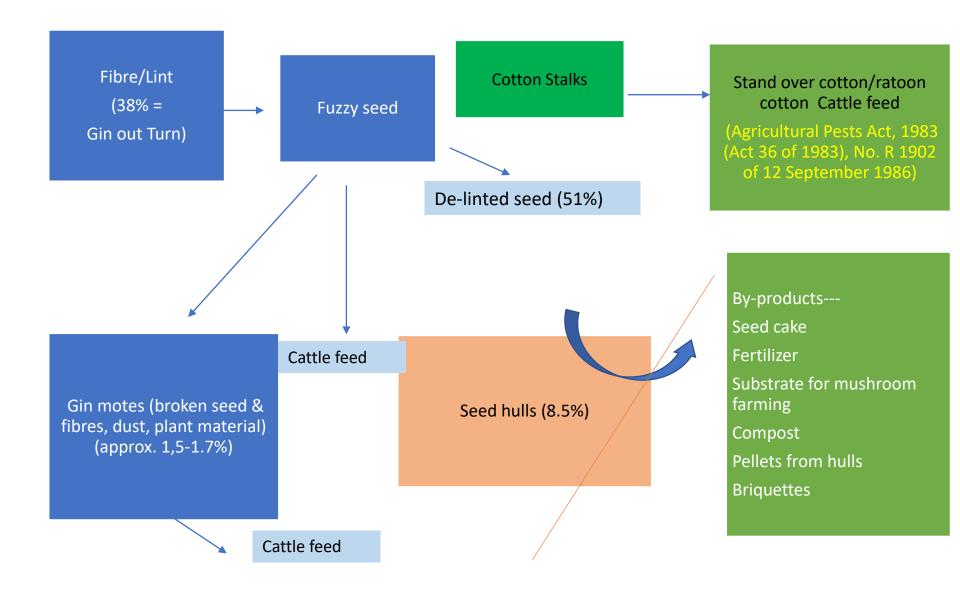
Small-Scale farmer production

(T. Schoeman, Cotton SA)

Smallholder Cotton Production in Limpopo, North West, Mpumalanga and KZN 2018-2019						
Province / Co-op	Smallholder Cotton Farmers	Hectares Dryland-	Hectares Dryland-	Hectares Irrigation-	Hectares Irrigation-	Estimated Lint bales- 200 Kg

Province / Co-op	Cotton Farmers	Dryland-	Dryland-	Irrigation-	Irrigation-	bales- 200 Kg
		Current	Potential	Current	Potential	Dales- 200 kg
Mpumalanga - Nkomazi (22 Co-op)	151	410 + 1000 (not part of Project)	10 000	0	1250	710
Mpumalanga - Matlerekeng (1 Co-op)	3	60	2000	10	200	140
Mpumalanga - Nokaneng (17 Co-op)	188	610	3000	0	100	690
Limpopo - Dichoeng (2 Co-op)	11	10	600	100	600	1120
North West - Taung (1 Co-op)	23	0	400	230	500	2185
North West - Batshweneng (1 JV)	6	0	900	106	146	1007
KZN - Makhathini (38 Co-op)	1247	2200	4000	200	2000	3450
TOTAL	1629	2880	20 900	646	4796	9302





Potential projects... The way forward.

Cotton Oil

Commercial production

*Previously Neden Oils / (Afgri Operations, 2005) (Polokwane –

Mokopane/Potgietersrus– 1990's) – at present sunflower and soya oils

Cost of production? Determine niche market.

Cotton motes/fuzzy seed/hulls: Cattle feed (Sold to local buyers-Bester Feed & Grain

- (Northern Cape), possibly Meadow Feeds, Astral includes cotton material?

□ Medical uses of cotton (short staple/high micronaire):

(all cotton in SA – Bt-Cotton – GMO cotton)

*SA has BCI cotton – Better Cotton Initiative - Possibility of looking into using BCI cotton? Find retailers/local markets interested in BCI.

Potential projects... The way forward.

Cotton seed oil cake (AFMA)

Full fat cotton cake: 2018/2019 PROJECTED LOCAL PRODUCTION: 60 000 T

- Investigated at present

Raw material usage by Animal Feed Manufacturing Association members:

- Cotton Seed oil cake: 0.07% (4 307 T)
- Full fat cotton seed: 0.15% (9 921 T)

The way forward

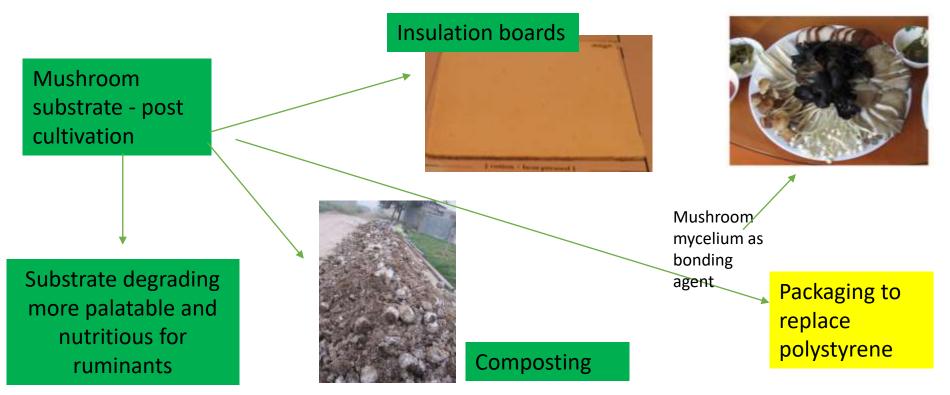
: Cotton Stalks

- Briquettes: Funding to do a feasibility study
- Small-scale farmers- Ratoon cotton & Current legislation feasible? Hectarages low, to include commercial plantings
- Determine interests from farmers/ginneries/farmer associations e.g.
 Nkomazi area near Komatipoort
- Mill/shredder on farm for stalks, for briquettes and other uses
- Determine biomass (no. of plants/ha needed in relation to biomass produced per variety, e.g DP1541 vigorous growing variety
- Composting
- Mushroom farming connect to local markets South African Mushroom Growers Association – connect to producers/gins

Potential projects – cotton stalks and hulls

Mushroom production for human consumption: Interested party: Agricultural Research Council (Plant Protection Research Institute – Dr. Susan Koch)

Possibilities for manufacturing of industrial structural products: Packaging, Insulation boards,





Thank you