

# Overview of the Rooibos Sector



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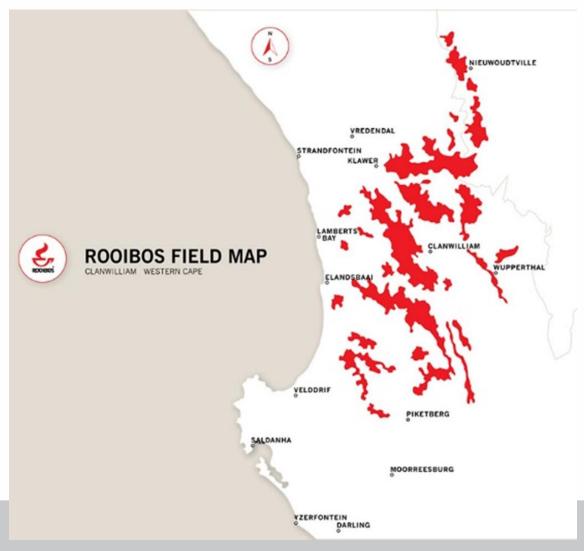


# Rooibos production



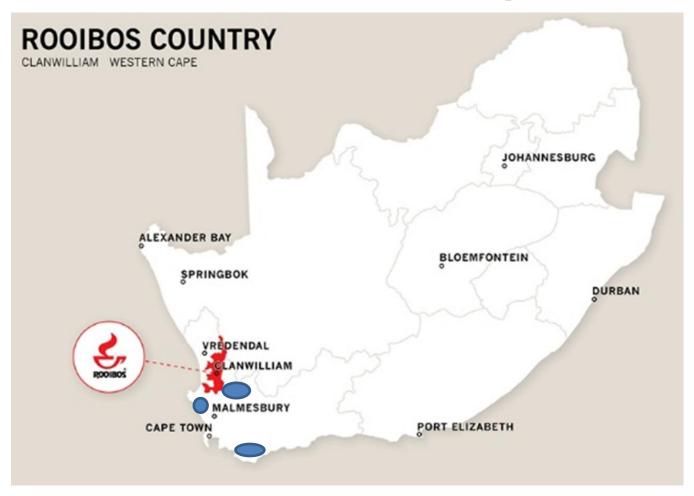
### **Rooibos Traditional Production Area**

- Winter rainfall area
- 200 600 mm
- Fynbos biome
- Well drained sandy soils
- pH 4.5 5.5
- 90 000 ha





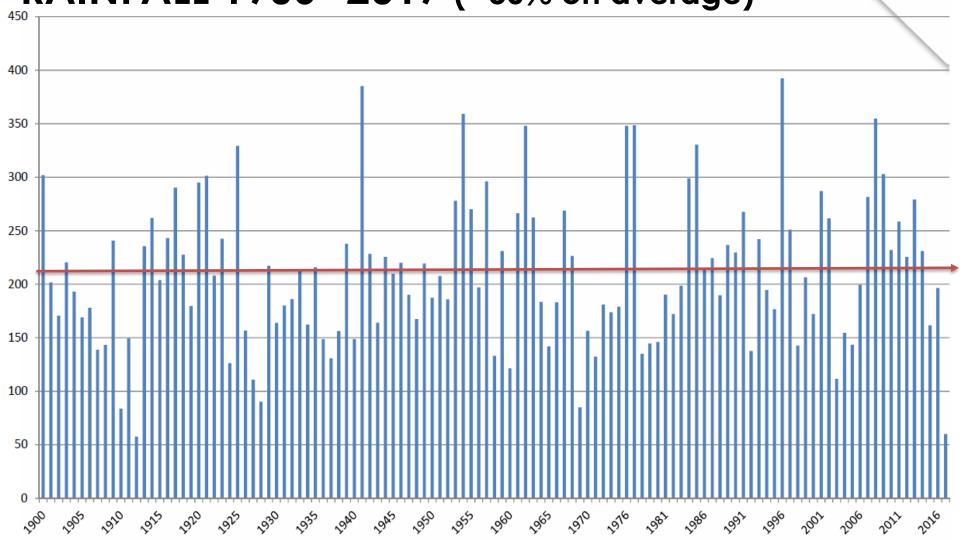
### **Rooibos Field Map**



- 120 000 ha
- 270 commercial producers
- 12 PDI
- 400 small farmers
- 5 500 people employed in the industry



### RAINFALL 1906 -2017 (- 30% on average)







### **ROOIBOS LIMITED**





### **ROOIBOS LIMITED**







# Year 1 (Planting Year)

- 12,000 ha planted in 2017
- 30 000 haestimated for2018
- 8,000 ha needed





### Year 2 – 6 (Harvest Years)

- 52,000 ha harvested in 2018
- **■** 12,500 tons



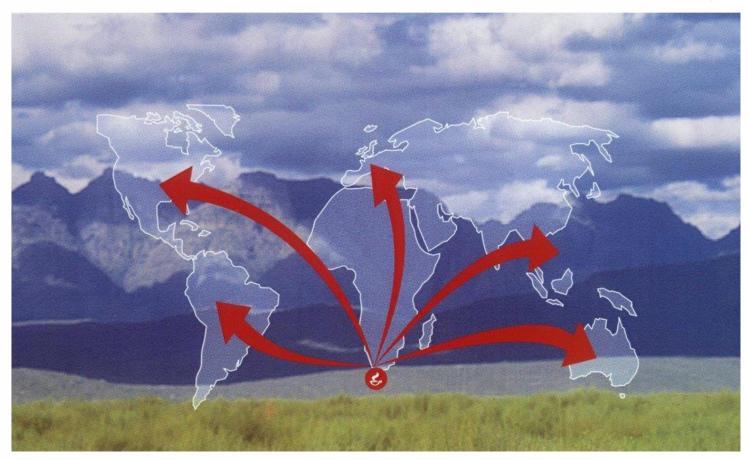


# Markets



### **Rooibos Markets**

- Global demand16,000 tons
- **40% local**
- ► 60% export





# Empowerment and Development

### **ROOIBOS LIMITED**





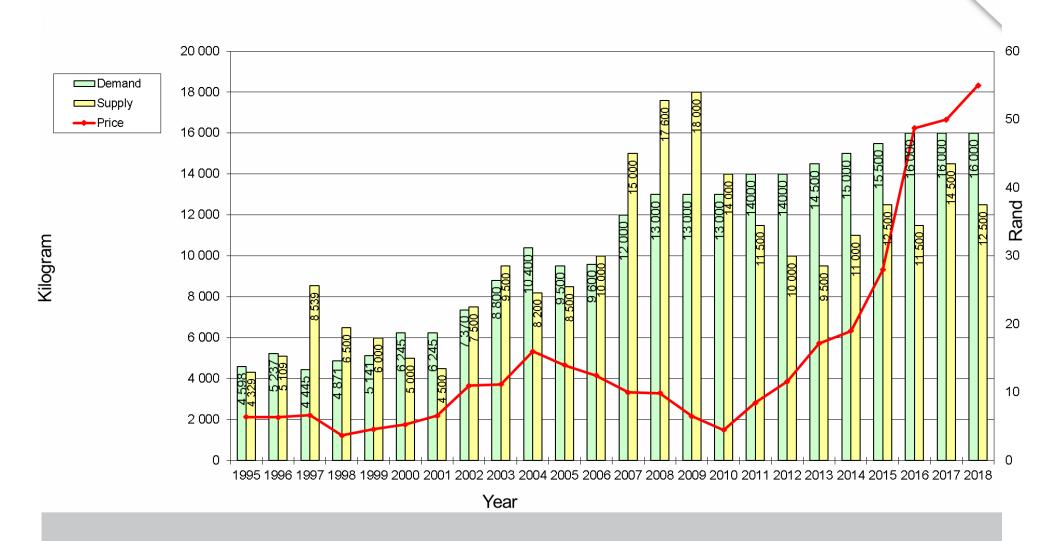






# Demand, supply and producer price







# Pests and diseases

### **Insects on Rooibos**















Longhorn beetle

# Sucking Insects



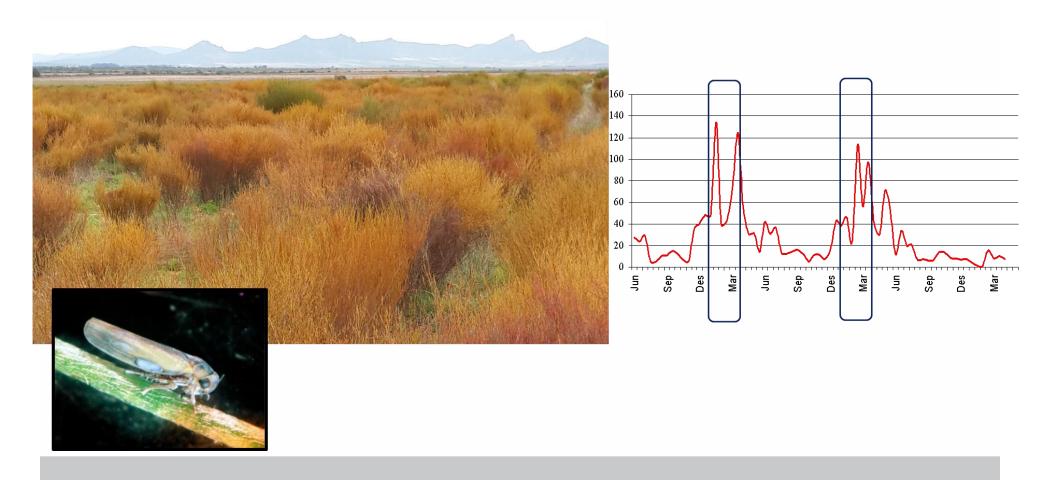




Bragada beetle



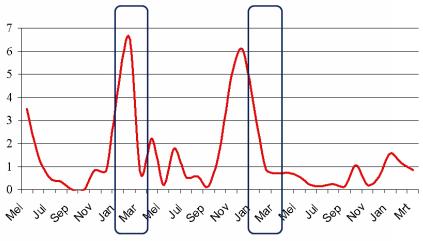
### **Leafhopper Damage**





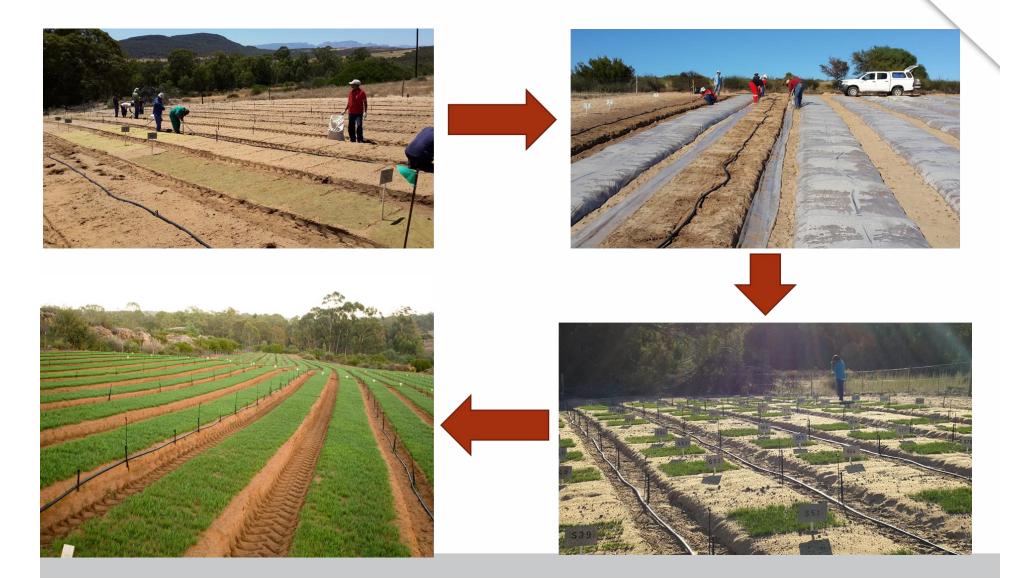
### **Looper Damage**





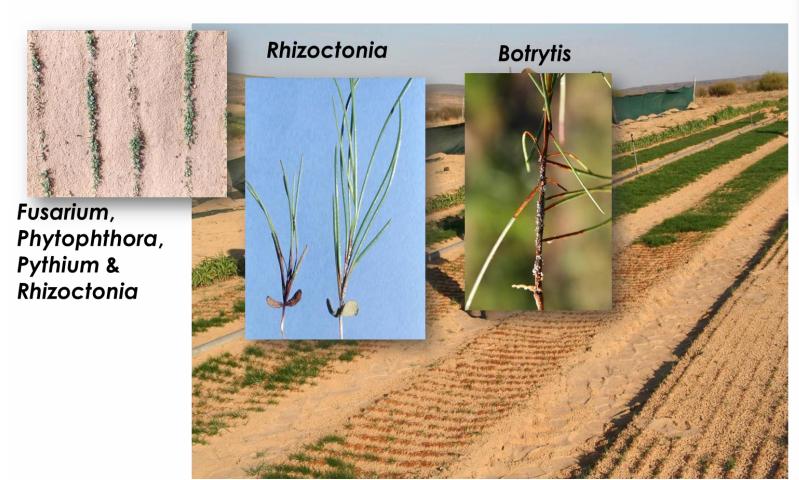
### **ROOIBOS LIMITED**







### Soilborne and Foliage Diseases







### Five major weeds species

- Steenboksuring (Rumex acetosella)
- Rooisaadgras (Ehrharta calycina)
- Bitterbos (Senecio angustifolia)
- Ramnas (Raphanus raphanistrum)
- Perdekweek (Paspalum paspaloides)

















### **Pesticides**

Proposed Withholding Period	Pest	Active Ingredient	Banned Products	"Watchlist"	Registered	IRAC - Class
3 months	Leafhopper	Demethon –S-methyl	X		<b>√</b>	1B
3 months	Bragada Beetle False wireworm	Chlorpyrifos		X	<b>√</b>	1B
3 months	Leafhopper	Profenofos			X	1B
3 months	Leafhopper / Looper	Cypermethrin			$\checkmark$	3A
3 months	Leafhopper / Looper	Beta-cyfluthrin	X		$\checkmark$	3A
3 months	Leafhopper / Looper	Lamba-cyhalothrin		X	<b>✓</b>	3A
3 months	Bollworm / Looper	Alpha-cypermethrin			<b>√</b>	3A
3 months	Clear Wing Moth	Esfemvalerate			$\checkmark$	3A
4 months	Leafhopper	Acetamiprid		X	$\checkmark$	4A
4 months	Leafhopper	Flonicamid		·	X	29
1 month	Bollworm / Looper	Spinetoram			<b>√</b>	5
1 month	Looper	Bacilcus Thuringiensis Kurstaki			<b>√</b>	11A
3 months	Leafhopper	Diafenthiuron			X	12A
1 month	Bollworm	Nucleopolyhedrovirus			$\checkmark$	



# **Fungicides**

Proposed Withholding Period	Fungi	Active Ingredient	Banned Products	Watch list	Registered
Used for Seed treatment	Soilborne diseases	Thiram	X		✓
Used in nurseries – 1 year before pruning	Fusarium & Pythium	Captan			$\checkmark$
	Colletotrichum acutatum	Chlorothalonil	X		$\checkmark$
	Botrytis cinerea	Iprodione			$\checkmark$
	Rhizoctonia solani	Pyrimethanil			X



### **Herbicides**

Proposed Withholding Period	Weed	Active Ingredient	Registered
6 months	Pre-emergence weeds	Cyanazine	$\checkmark$
6 months	Post-emergence control of annual grasses	Propaquizafop	X
6 months	Broadleaf weeds	Rimsulfuron	X
6 months	Grasses	Clethodim	X
6 months	Pre-emergence weeds	S-metolachloor	X



# Certification



### Certification







- All producers wanting to export need to be SAGAP certified
- Some producers are choosing organic or other sustainable certifications to meet various market's demands













# Sector challenges and possible solutions



### **Sector Challenges**

- To maintain a continuous supply of quality Rooibos
- Lack of registered chemicals
- Chemical resistance
- Food safety issues (MRL)
- Export markets no longer accepting Rooibos



### Solutions?

- Production research to increase yield
- Work with DAFF and Chemical companies to register chemicals specifically for Rooibos
- Field trials to test chemicals (MRL, Terminal Residues)
- Investment needed (more testing facilities) in stringent MRL testing according to EU food safety standards
- Communication with producers in terms of allowable chemicals
- Work with DAFF & PPECB to ensure sustainability of the export market