



Biological production at Hans Merensky Holdings started in the early 1940's, when the founder, Dr Hans Merensky, laid down broad biological guidelines.



Dr Hans Merensky in one of the Westfalia avocado orchards in the early 1940's

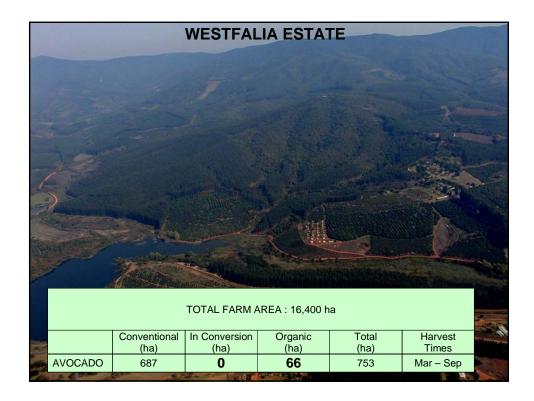


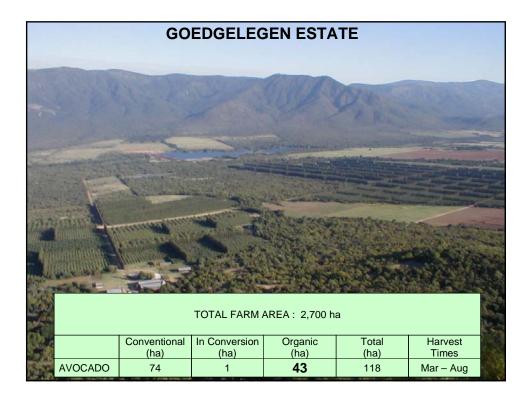
- In the early 1990's, the principles of integrated production were laid down by Merensky Technological Services
- The first fully certified organic avocados from HM farms were produced in 1998
- Successful organic cultivation of avocados: site selection, use of superior rootstocks, well adapted scions and professional shipping and marketing





(vestfr	FARMS							
	 Westfalia, Limpopo Province Goedgelegen, Limpopo Province Everdon, KwaZulu-Natal Total area under avocado orchards (2002/2003): 							
	Convention (ha)		In Conversion (ha)	Organic (ha)	TOTAL (ha)			
	AVOCADO 761		65	309	1135			
	AVOCADO CULTIVAR SPREAD							
	FUERTE		HASS	0	OTHERS			
	37%		48%		15%			

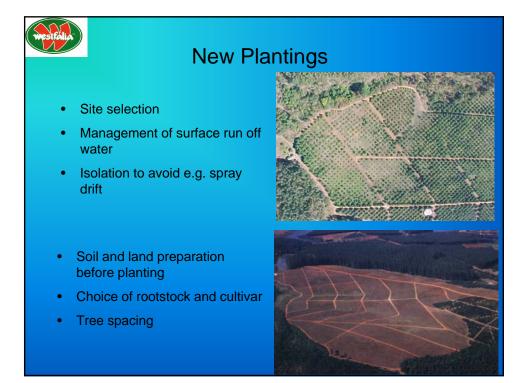




TOTAL FARM AREA : 800 ha					
	Conventional (ha)	In Conversion (ha)	Organic (ha)	Total (ha)	Harvest Times
AVOCADO	0	64	200	264	Early Jun – Nov
		A.S.		All C	

	CERTIFICATION				
•	 Monitoring and affirmation of the fruit quality and production sta executed by several independent institutes 				
	EEC Reg 2092-91	Monitoring of organically produced products			
	Eurepgap Nature's Choice	- Monitoring of conventionally produced products			
	НАССР	Monitoring of Processing Plant			
	ISO 9002	Monitoring of Pack Houses			

ORGANIC AVOCADO PRODUCTION
New plantings
Organic soil amendments
 Fertilisation
Irrigation
Disease and pest control
Weed control
Pruning
Picking, Packing & Q.A.



Organic soil amendments

Mulching

- suppression of Phytophthora cinnamomi
- conservation of soil moisture
- regulating soil temperature
- stimulating earthworm and micro-organism activity
- mulching grass (specifically used at Everdon Estate)
- pine bark applied twice a year combined with chicken manure









Disease and Pest Control

Diseases

- ➢ Rootstock: Hass on Dusa[™] performing best
- Mounding, mulching and application of biological control agents (e.g. *Trichoderma harzianum*)
- Low copper applications against fungal fruit disease

Pests

- Monitoring insect populations (scouting and trapping). Spraying when necessary with permissible products
- Use of flowering cover crop to distract certain insect pests from young fruit







Pruning

- Alternate sides pruned in alternate years (mechanically and manually)
- Twice a year:

Heavy pruning after harvest

Lighter, follow-up pruning in early summer.

- Improved light penetration
- Reduced fruit disease pressure





