

Integrated Avocado Canopy Management

Three different stages can be identified in the development of canopy management:

1. Individual Limb management

2. Individual tree management

3. Hedge row of Avocados

1. Individual Limb management

- → Individual limbs are ringbarked or cinctured to increase yield
- Removal of the highest or widest growing limbs
- Concepts like cutting windows and rejuvenation forms part of this culture
- Water shoots are cut back or removed to prevent excess growth
- → Some growers that use the limb manipulation systems are very successful and produce good yields
- Cultivars like Ettinger, Shepard, Edranol and Reed are treated very successfully

2. Individual tree management

Cut the trees down and start again



Staghorn the trees



Tree removal

Limb pruning



	HIGH DENSITY PLANTING. WITH TREE REMOVAL.																	
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Three different stages can be identified in the development of canopy management:

- 1. Individual Limb management
- 2. Individual tree management
- 3. Hedge row of Avocados
 - Young trees
 - Mature trees

The principles to hedge row of young trees:

- Cut side branches out that are more than a third of the diameter of the central leader
- Remove all growth with an acute angle
- ♥ Tip all shoots after 20-cm growth
- Space horizontal shoots evenly in a spiral on the central leader to avoid overshading by growing directly above one another

Hedging of mature orchards

The important factors are:

Phytophthora Control

Irrigation Management

Nutrition Management

Reserve Management

Fruit-set Management

Hedging Management

Hedgerow Management:

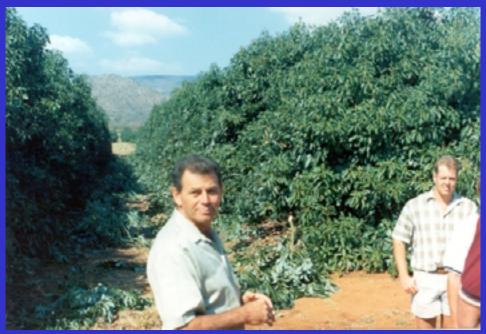
- Shaping of the hedge row
- Control of reaction growth
- Maintenance by Summer Pruning



Principles of Summer Pruning:

- Manage tree size & shape without damaging production potential
- Understand that the role of spring flush is purely vegetative extension growth
- Summer growth is critical growth to develop flowers on mature tree growth for next crop
- Timing is very important, must remove mature spring flush just outside fruiting line
- At each cut, regrowth will become more complex
- Timing is also critical to enable normal flower induction for spring flowering for next crop

Maintenance by Summer Pruning







Maintenance by Summer Pruning



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 - Mature trees:
 - □ Important Factors
 - ⇒ Hedge row management:
 - Shaping
 - Control of reaction growth
 - Summer Pruning
 - Steps to implement integrated hedging

Steps to implement integrated hedging:

- Manage your Phytophthora control, irrigation, nutrition and reserves
- Shape the trees into a hedge after harvesting in winter
- Increase fruit-set with a PGR during springtime.
- ♦ Remove wild growing water shoots in November
- Cut the spring flush back to just outside the fruiting line
- Mature the summer flush reaction growth with a PGR in time for autumn flower induction

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 - Summer Pruning
 - Steps to implement integrated hedging
 - Advantages of integrated hedging

Advantages of integrated hedging:



- Increased yield
- Increased fruit size
- Increased fruit quality
- The trees produce fruit more regularly
- Spraying is much more efficient
- Cultivation is much easier and cheaper
- Production process can be fully mechanised
- Total bearing surface exposed to sunlight, free of GST

Advantages of integrated hedging



Advantages of integrated hedging

