







Turning Pasture into Product

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Typical Mallee pastures?





- Growth rate?
- Quality?

- Lot of dead pasture
- Plenty of weeds
- Bare ground



Making More From Sheep

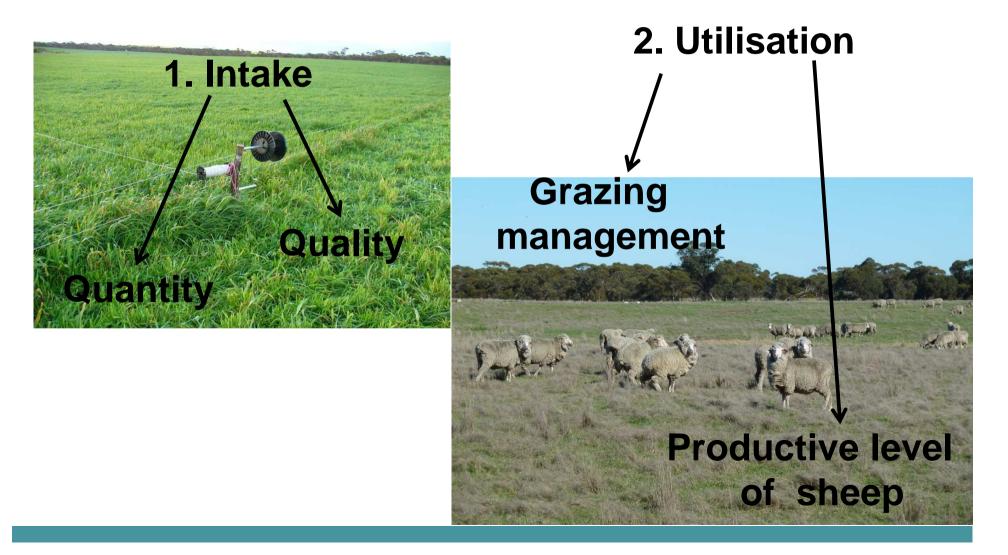
A potential Mallee pasture...



- Better growth (perhaps 3 times more)
- Better quality
- Fewer weeds
- Higher costs



Increasing feed utilisation



Quantity of Feed on Offer

Making More From Sheep





If pasture is too short:

Can't eat enough

Inf

- Spend more time harvesting
- Lowered growth rate

Quantity of Feed on Offer

Making More From Sheep



If pasture is too long **Feed under utilised Quality declines Easily reach maximum gut fill** So, start selective grazing

Grow more feed



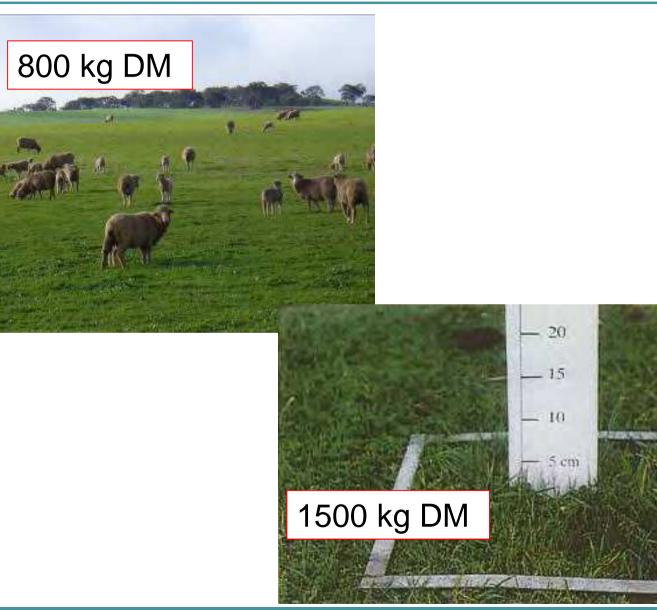


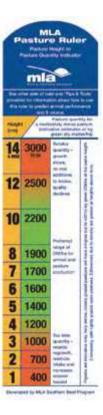
Soil fertility

- Ground cover
- Plant density
- Plant species
- Pest & disease

Measure & Monitor







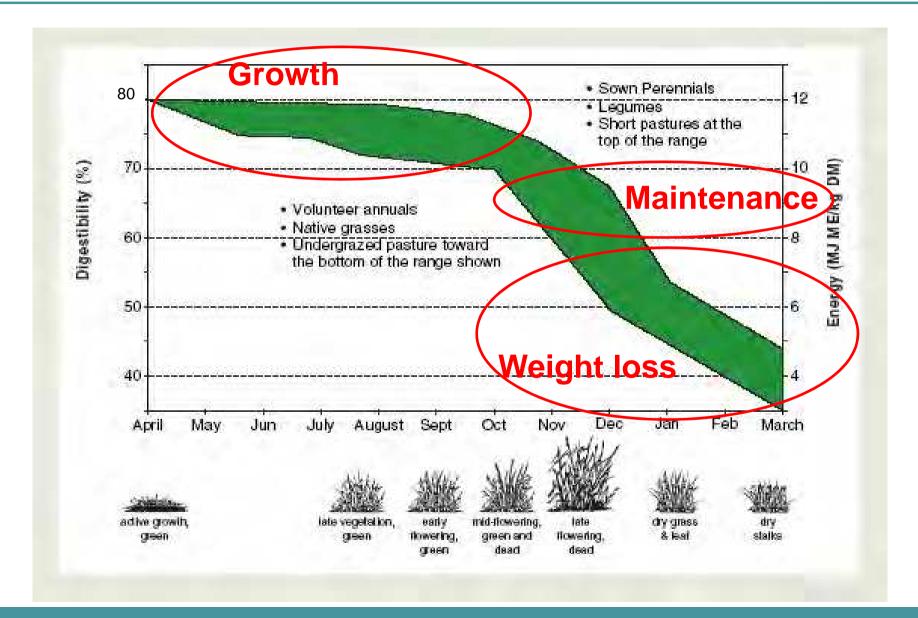




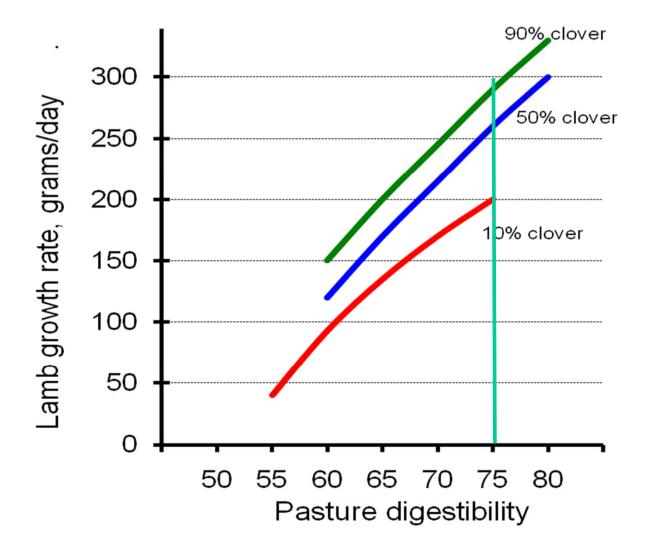
- Feed quality is measured as metabolisable energy or digestibility.
- More energy/kg reduces time feed spends in the rumen.
- So, with higher quality pasture, intake can increase.
- Energy level is affected by:
 - pasture species
 - stage of growth
 - legume content.

Quality falls as plants mature









Herbage benchmarks (kg of green dry matter/ha)



Stock	High feed	Moderate	Poor feed
	quality	feed quality	quality
Dry ewe	400	600	1200

Herbage benchmarks (kg of green dry matter/ha)

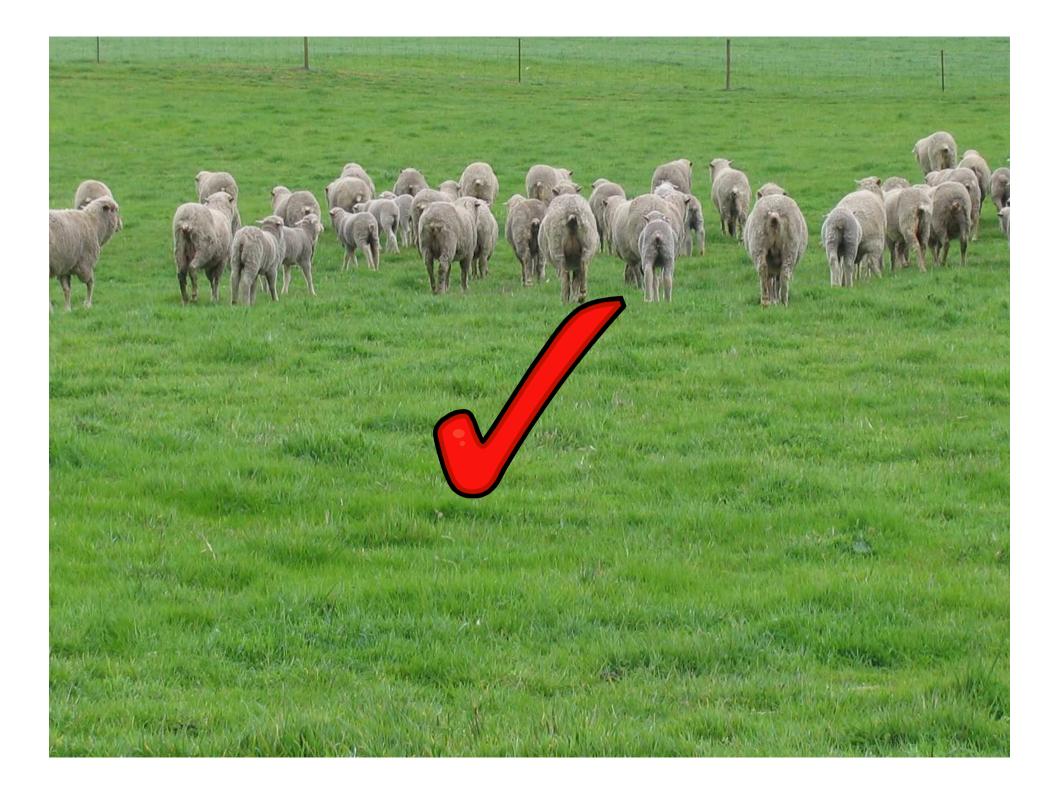


Stock	High feed quality	Moderate feed quality	Poor feed quality
Dry ewe	400	600	1200
Lactating ewes - singles	1000		
Lactating ewes - twins	1500		

Herbage benchmarks (kg of green dry matter/ha)



Stock	High feed quality	Moderate feed quality	Poor feed quality
Dry ewe	400	600	1200
Lactating ewes - singles	1000	1700	Can't eat enough
Lactating ewes - twins	1500	2000	Can't eat enough





Grazing management

Set stocking or rotational grazing?

The evidence now quite clearly points to rotational grazing as the best option.



Basic Rotational Grazing System

- Mob grazes at least 4 paddocks.
- Move every 5-15 days.
- Pasture kept between 800 kg & 1800 kg DM/ha.
- ... but set stock from lambing to weaning.

Benefits = faster pasture growth & more even grazing







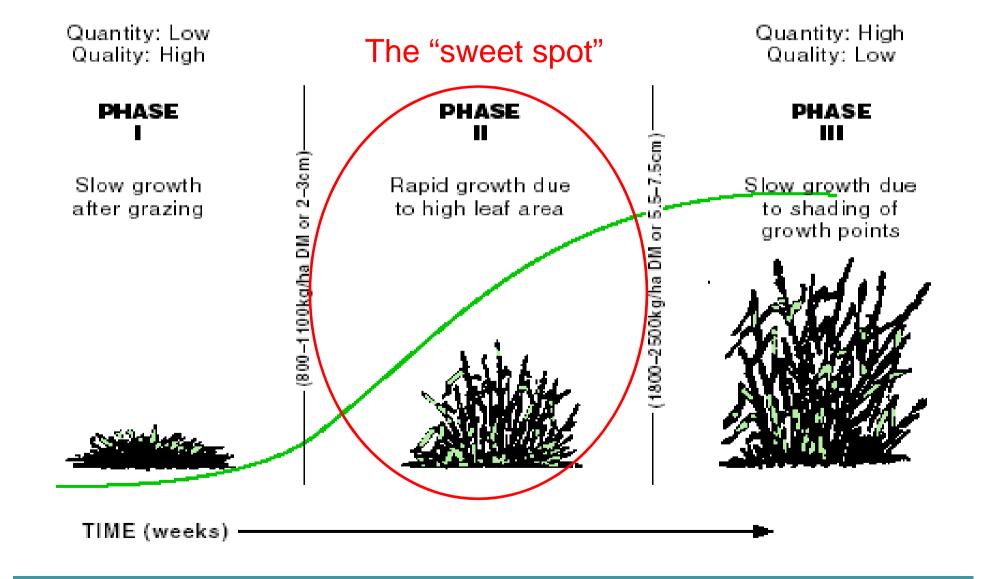


Stocking rate v stocking pressure

- Rotational grazing does NOT mean more sheep on the property.
- It just means more animals in a paddock at a given time.

Phases of Pasture Growth





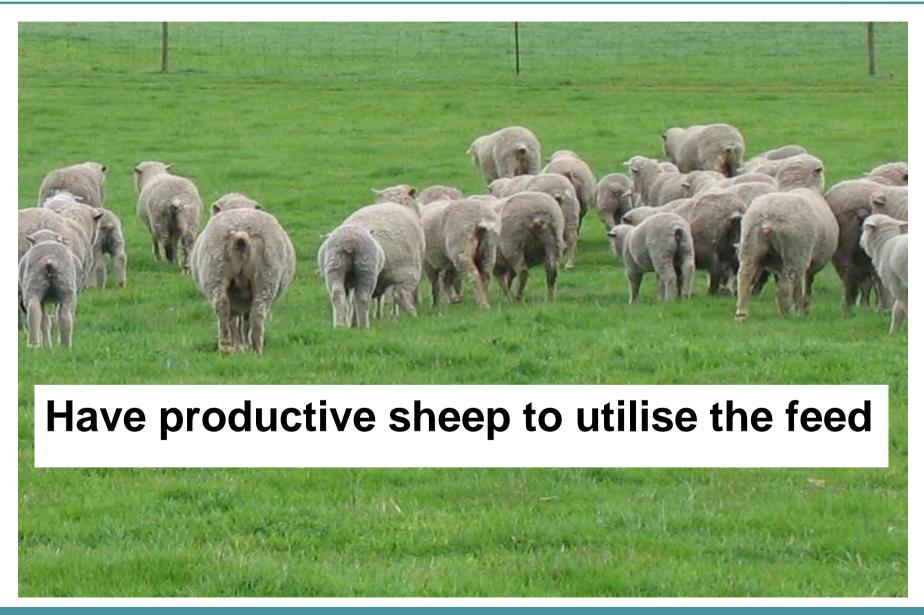
Strategic grazing





The last link in the chain is





Priorities for change



Priority	Cost	Example
1. Improve conversion	Low cost (perhaps \$10/ha)	Time of lambing Weaner management Genetics Flock structure
2. Existing pastures.	Moderate cost (\$50/ha)	Increase stocking rate Implement rotational grazing Increase fertiliser Fencing and water
3. Introducing more productive species	High cost & risk (\$250/ha)	Sowing new pasture varieties Renovating existing pastures

The next step – Feed Budgeting

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An example:

- Allow weaned lambs about 2 kg of dm/day
- Pastures in spring can grow at 80 kg dm/ha/day
- You can run 40 lambs/ha during spring.



Other factors to consider



- Risk & stress. Increasing production increases risk & stress.
- Luck. Hitting a bad season in the first year of change - \$ spent but little return.
- Skill. Higher production systems demand better management skill especially in tough seasons.
- Scale. Start with one or two paddocks and see the benefits/issues.

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lifetimewool more lambs, better wool, healthy ewes



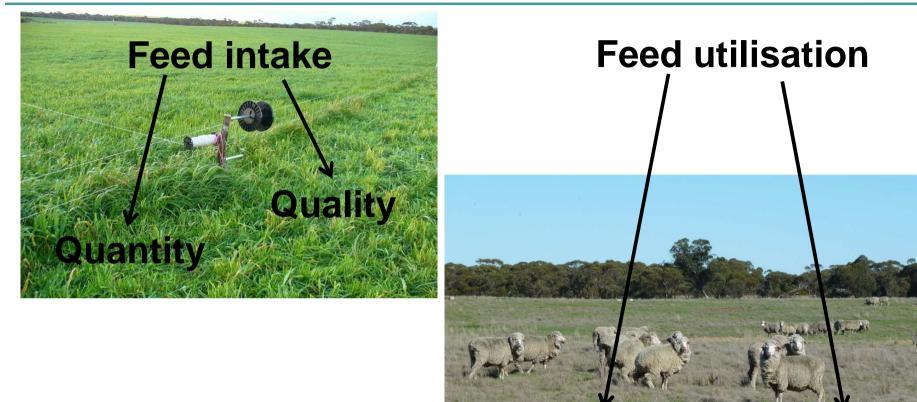
Making More from Sheep manual





Take home





Take control

Grazing Productive management sheep