



Effective Nutritional

Management of Livestock this

Spring & Summer



Livestock nutrition is just resource management

The process of planning, scheduling and allocating resources to specific production units to optimise their effectiveness to achieve greater organisational goals

Matching pastures with requirements

Matching production goals with requirements & availability

Lush green pasture

- High protein
- High energy
- High digestibility
- Some mineral deficiencies

Brassica

- High protein
- High energy
- High digestibility
- Some mineral & trace element deficiencies & antagonisms
- Anti-nutritional factors

Lucerne

- High protein
- High digestibility
- Lower energy
- Some mineral deficiencies
- Low roughage
- Bloat in cattle
 - Red gut

Mid - flowering pasture

- Mid protein
- Mid digestibility
 - Low energy
 - Depreciated mineral content
 - Limited production

Dry pasture

- Low protein
- Low digestibility
- Low energy
- Low minerals
- Low vitamins
- Maintenance at best

Stubbles

- Low protein
- Low digestibility
- Low energy
- Low minerals
- Low vitamins
- Controlled weight loss

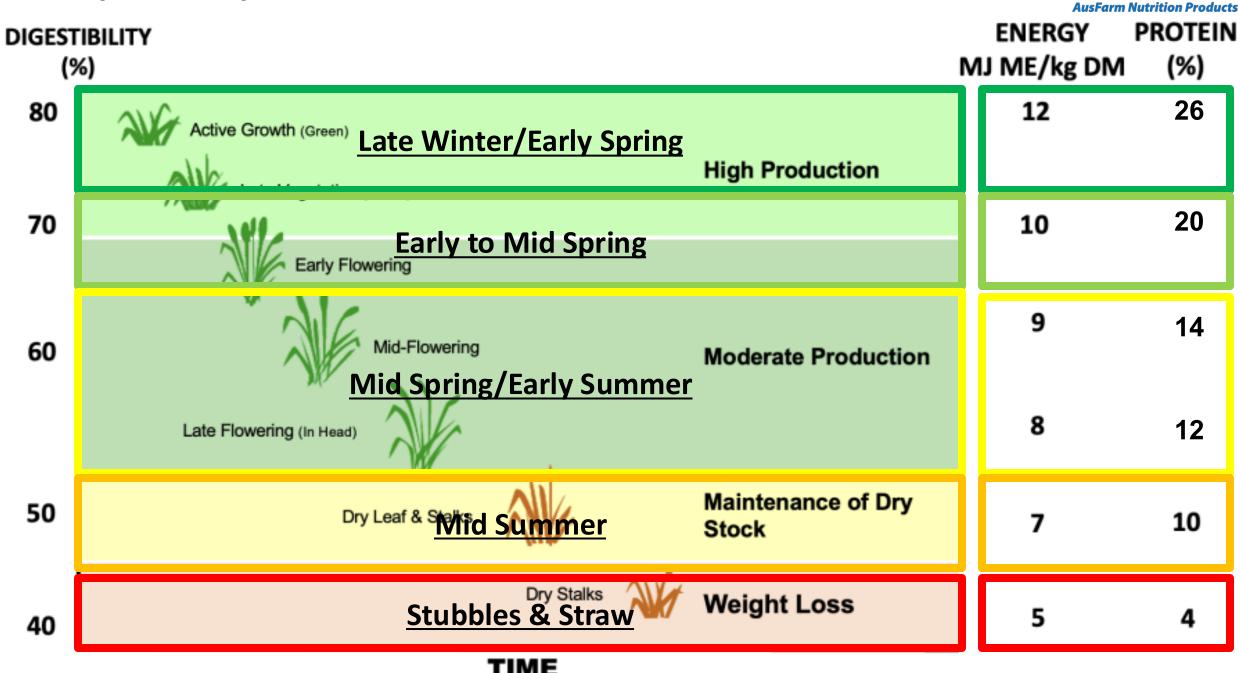








Temperate pasture curve



Class of animal and production goal





Pre-joining Ewe 60kg Merino (maintenance)

> Energy 10MJME/day

> > Protein 8%



Early Pregnant Ewe (day 60, maintenance)

Energy 10MJME/day

Protein 8%



Recently Weaned 50kg Ewe (100g/hd/day)

> Energy 11MJME/day

Protein 10%



Pregnant Single Ewe (day 140, maintenance)

Energy 15MJME/day

Protein 10%



Lactating Single Ewe (maintenance)

Energy 23MJME/day

Protein 14%



Growing 40kg Weaner (200g/hd/day)

Energy 15MJME/day

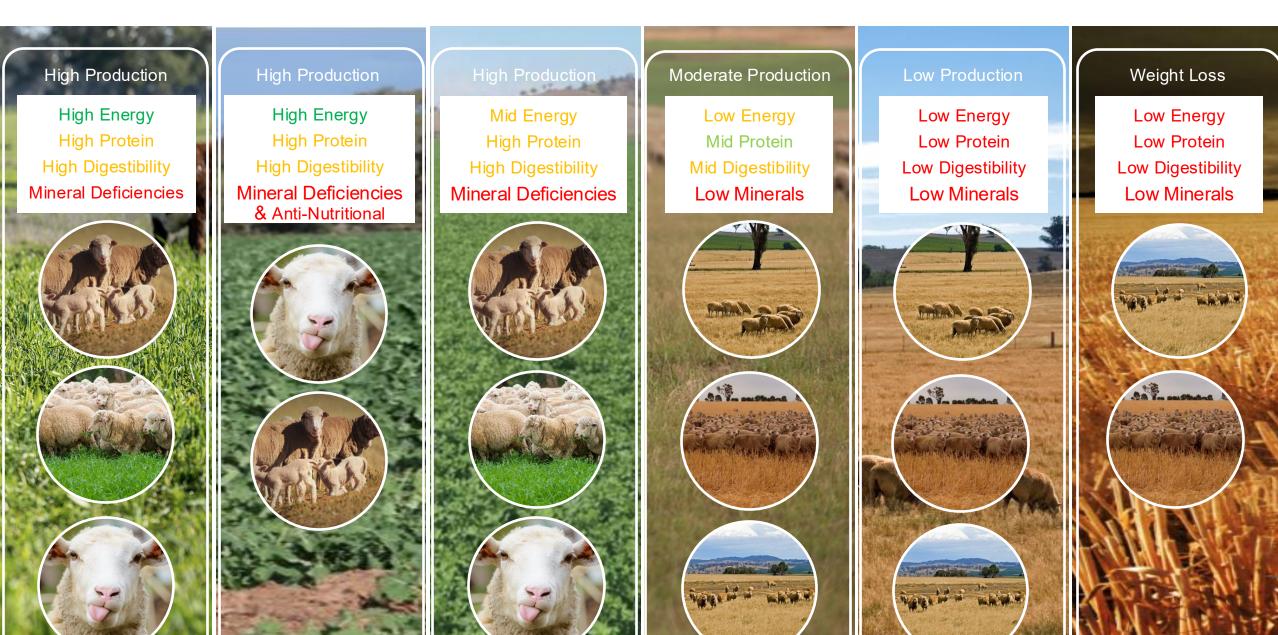
Protein 14%

What determines livestock performance on pasture?



- Dry Matter Intake
 - The amount of feed consumed minus its water content (pasture = 20% DM)
 - Higher quality = higher digestibility = more consumed
 - · Dry matter intake is king
 - DMI is also the hardest variable in the diet to predict
- Quality
 - Active growing or late vegetative pastures are the best
 - When pasture enters its flowering stage digestibility will decrease
- Quantity Available
 - Pasture ruler & pasture square
- Quantity Consumed
 - Animals can eat much more lush green feed than dry feed
 - Lush Green Feed ~4% of BWT as DM
 - Mature Green Feed ~3% of BWT as DM
 - Dry Feed ~2% of BWT as DM

Allocate the best feed to your high producing animals



Maintaining growth rates on declining pasture



- If QUANTITY is limiting DMI
 - Backfill the diet with another high-quality source of feed
 - Usually grain or pellets
- If QUALITY is limiting DMI
 - Increase nutrient density of the diet by supplement feeding
 - Supplement feed with grain, legumes or pellets
 - Quantity of grain/pellets fed is determined by pasture quality
 - ↑ grain = ↑ COP, but also PERFORMANCE
- Considerations when feeding concentrates on pasture
 - How are you going to feed?
 - How much are you going to feed?
 - How often should you feed?
 - Risk of ACIDOSIS Ensure risk free grain feeding
- Feed Additives
 - Supplements with feed additives can drive rapid liveweight gain
 - Trace minerals, vitamins, buffers, ionophores & pro, post and pre-biotics

You can grow animals on any type of feed, but must dietary correct deficiencies



High Energy
High Protein
High Digestibility
Mineral Deficiencies

Dilute protein

Slow passage rate

Effective supplementation

Signs of maturity



High Energy
High Protein
High Digestibility
Mineral Deficiencies
& Anti-Nutritional

Dilute protein
Slow passage rate
Effective supplementation
Photosensitisation/
Mortality



Mid Energy
High Protein
High Digestibility
Mineral Deficiencies

Increase Energy
Dilute protein
Slow passage rate
Effective supplementation
Quantity/ Red Gut



Low Energy
Mid Protein
Mid Digestibility
Lower Minerals

Increase Energy
Correct protein if req.
Improve digestibility
Effective supplementation
Signs of maturity



Low Energy
Low Protein
Low Digestibility
Low Minerals

Increase Energy
Correct protein
Improve digestibility
Effective supplementation
CONFINEMENT

FEEDING



Low Energy

Low Protein

Low Digestibility

Low Minerals

Increase Energy
Correct protein
Improve digestibility
Effective supplementation

CONFINEMENT FEEDING

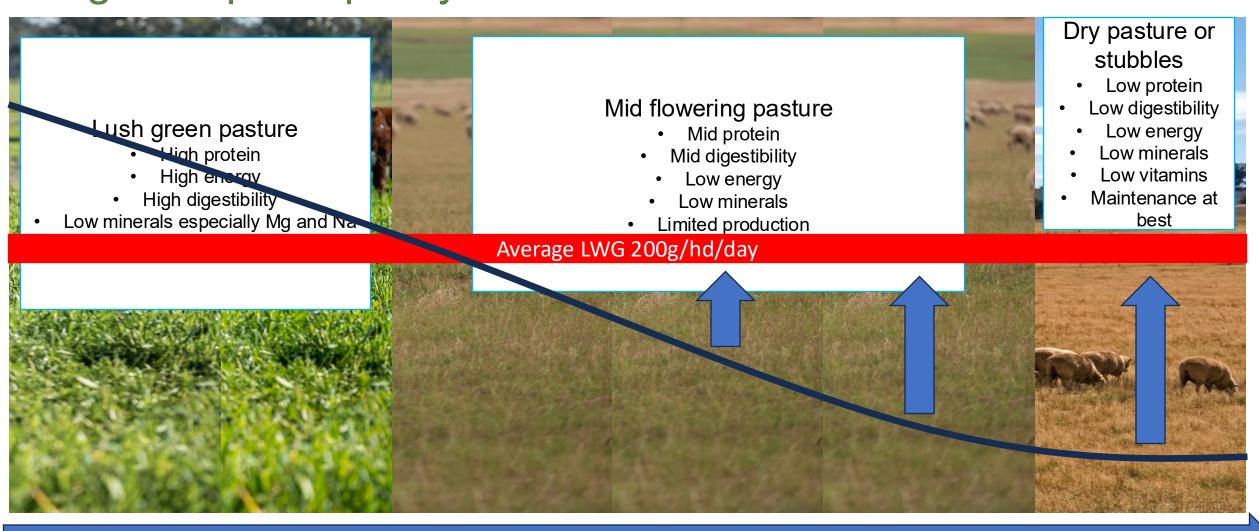
Planning utilisation of maturing feed will be the difference between winning and losing this season





Make the best use of feed early to reduce chasing weight on poor quality feed later

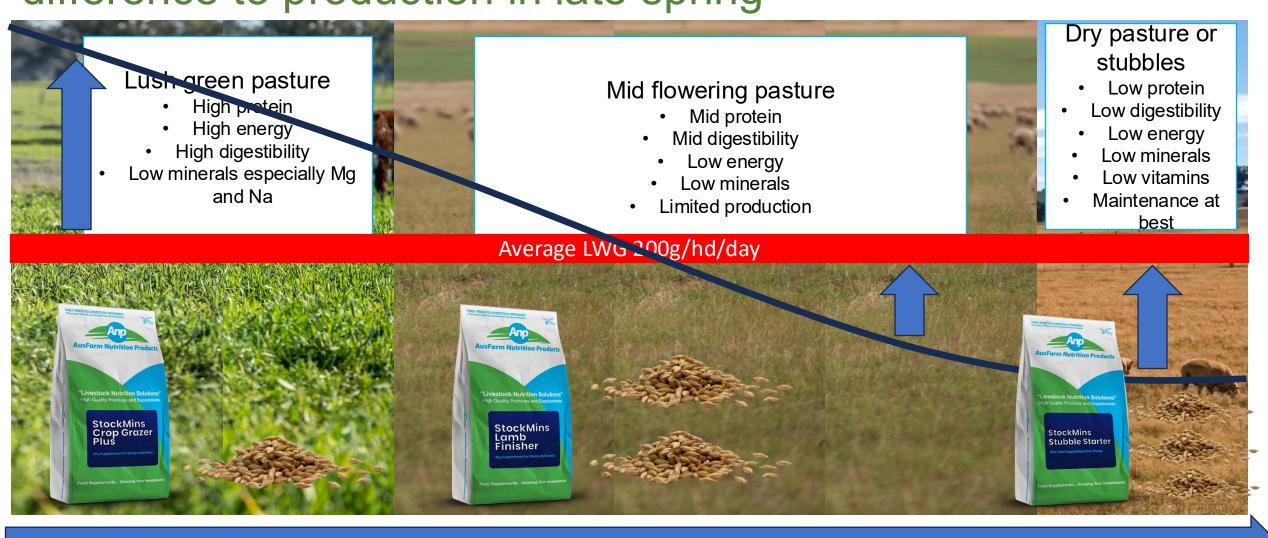




Sept Oct Nov Dec Jan Feb

Mineral and grain supplementation can make a huge difference to production in late spring

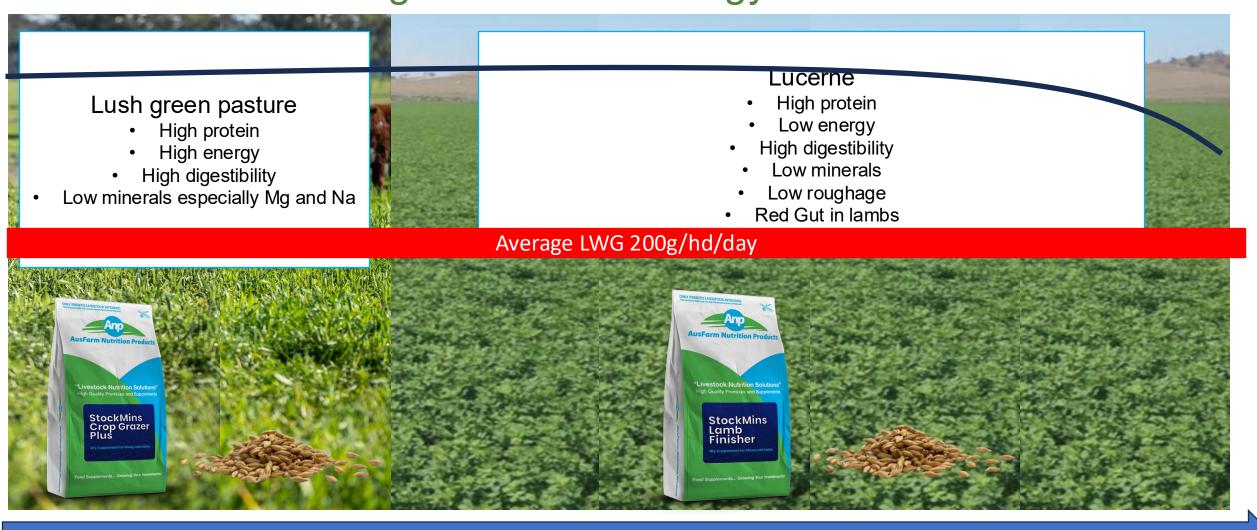




Sept Oct Nov Dec Jan Feb

Rapid liveweight gain can be continued by grazing lucerne in summer. Don't forget to correct energy & minerals





Sept

Oct

Nov

Dec

Jan

Feb

Likewise, liveweight gain can be continued by grazing brassicas. Lookout for anti-nutritional factors





Summary

 Identifying and acting on where the best feed is and how it is best utilised is a huge on-farm value add to your enterprise.

- Understand what is required of your different stock classes, prioritise and plan accordingly
- Beat the dry with growers by supplementing feed and minerals as the quality of the feed turns off.
- Macro, micro minerals and vitamins are all required for optimal animal health and productivity, ANP supplements are formulated to meet your animals requirements

