

Feeding lambs this summer? Does it pay?

Tim Huggins





- Requirements and nutrition basics
- Assumptions and prices
- Ration balancing program
- Feeding options 8 to start you off
- Induction
- APS product range
- Summary





#### Short answer...

Yes, but you may have to do something different to previous years

 Before we go on, have a think about how much margin you 'normally' make per lamb after all of the feed costs have been covered.

 Remember, the pricing for the last year or two has been extreme so think back to the 5-10 years prior to that. Think about the year-in, year-out number...

# Requirements and nutritional targets



- Intake is determined by neutral detergent fibre (NDF) as a % liveweight
- Minimum 30% NDF
- Maximum 30% starch (minimum 15% for best results)
- Once they are full (on NDF) both energy and protein can limit growth
- Lambs taken from 38 kg to 60 kg liveweight
- 350-400 g daily liveweight gain expected
- Lambs are kept full at all times







- Induction completed correctly (more about that later)
- Store lamb price \$1.80/kg liveweight (was \$2.80 Nov23)
- Fat lamb price \$2.69/kg liveweight (was \$3.75 Nov23)
- Barley \$350/t
- Faba beans \$450/t vs lupins \$480/t
- Cereal hay \$250/t
- Silage \$80/t as fed (65% DM) = \$120/t dry matter (making cost)
- Straw \$150/t as fed
- Lamb pellets \$587/t including Rumicell at 2.5 g/lamb/day in 1.5 kg
- Allow for wastage of up to 20%, particularly if trailfeeding





#### General tips and questions

- If buying store lambs, spend a bit more and buy lambs weighing up to 38 kg rather than down around 30 kg. The heavier lambs will finish in 60 days instead of 75
- What do you do with un-finished homebred lambs if you don't feed them over the summer? If you feed for maintenance, how much will that cost and when will the lamb prices rebound? Also, remember there will be more lambs in 2024 to feed as well
- There is an opportunity cost associated with homegrown feed. Ie. If you don't feed it, someone else might buy it at the current market rate





- Lambs should be vaccinated and drenched prior to supplementary feeding
- Clean water and shelter should be available
- Trail feed for 10-14 days prior to entry into feedlot, starting at 100 g/head/day and increasing by 50 g until reaching target intake
- Fill them up on hay prior to entry
- Need good access to feeders and forage for each lamb
- If unsure get silage/hay and water tested prior to starting feeding





### Ration balancing program

Customer:	FAT L	AMB									
Weight of sheep kg		38.00									
Target live weight kg		60.00									
Initial Dry Matter intake (kg/day)		1.85	I	dicted DMI must							
Protein requirement %		13.00%	<b>.</b> .	e actual DMI to							
Fibre requirement %NDF		40.00%	<b>1</b> .	an accurate Live gain prediction.							
			/ Weight §	gain prediction.							
Current Diet											
	Feed intake kg						Protein				\$ DAY FEED
Ingredients	(As Fed)	DM Intake kg	Dry Matter %	Mj ME/kg DM	Total MJ	Protein	Grams	%NDF	Starch	\$ / Tonne As Fed	COST
SUMMER CROP	0	0	20%	12.0	0.0	22%	0	25%	2.0%	35.00	\$0.00
BARLEY	0	0	89%	12.5	0.0	13%	0	18%	55.0%	330.00	\$0.00
PEA POLLARD	0	0	91%	11.0	0.0	16%	0	41%	21.6%	300.00	\$0.00
FABA BEANS	0	0	90%	12.0	0.0	25%	0	24%	44.0%	400.00	\$0.00
LUPINS	0	0	90%	12.5	0.0	33%	0	24%	0.0%	465.00	\$0.00
CEREAL HAY	0	0 /	90%	10.0	0.0	14%	0	50%	0.0%	220.00	\$0.00
LAMB PELLETS INC RUMICELL \$22/t	1.6	1.44	90%	12.0	17.3	19%	274	23%	30.0%	587.00	\$0.94
BARLEY STRAW	0.45	0.3915	87%	7.0	2.7	5%	20	70%	2.0%	150.00	\$0.07
DRY LICK	0	0 /	99%	0.0	0.0	0%	0	0%	0.0%	2,500.00	\$0.00
SILAGE	0	0 1	30%	10.0	0.0	12%	0	55%	5.0%	40.00	\$0.00
Total	2.05	1.83	89.3%	10.9	20.0	16.01%	293	33.05%	24.0%	491.07	\$1.01
	4							-	-		

## Ration balancing program cont...APS

ME conc of ration M/D (Mj/kg DM)		10.9
Dry Matter intake DMI		1.8
Total ME Mj/Day supplied by Ration		20.0
Grams of Protein in ration	6.5	293.2
Equivalent protein to ME (inc 15% error ma	rgin)*	22.6
Relative available ME*		20.0
Maintenance		6.9
Live Weight Gain per day (kg/day)		0.387
Days to reach target weight excluding indu	ction	56.84
Cost of feed per head per day		\$1.01
Cost of total feed to achieve target		\$57.22
Feed Conversion Ratio (kg's of feed per 1 kg	g body weight gain)	4.73
Cost/kg/live weight gained		\$2.60
Cost/kg carcass weight		\$4.91
Purchase price / KILO LIVE WEIGHT		\$ 1.80
Purchase price		\$ 68.40
Sell Price per KG live weight		\$ 2.69
Sell Price AS A FAT LAMB		\$ 161.40
Total margin over feed costs		\$ 35.78



#### Pasture

Sell Price per KG live weight

Total margin over feed costs

Sell Price AS A FAT LAMB

	Feed intake kg		/				Protein				
Ingredients	(As Fed)	DM Intake kg	Dry Matter %	Mj ME/kg DM	Total MJ	Protein	Grams	%NDF	Starch	\$ / Tonne As Fed	\$ DAY FEED COST
PADDOCK FEED	4.5	1.35	30%	10.0	13.5	16%	216	45%	5.0%	0.00	\$0.00
BARLEY	0	0	89%	12.5	0.0	13%	0	18%	55.0%	326.00	\$0.00
PEA POLLARD	0	0	91%	11.0	0.0	16%	0	41%	21.6%	334.00	\$0.00
FABA BEANS	0	0	90%	12.0	0.0	27%	0	24%	44.0%	425.00	\$0.00
LUPINS	0	0	90%	12.5	0.0	33%	0	24%	0.0%	465.00	\$0.00
OATEN HAY	0	0 /	90%	8.3	0.0	6%	0	60%	2.0%	280.00	\$0.00
HGS LAMB PELLETS	0	0 /	90%	12.0	0.0	16%	0	23%	30.0%	572.00	\$0.00
BARLEY STRAW	0	0 /	87%	7.0	0.0	5%	0	70%	2.0%	150.00	\$0.00
APS DRY LICK	0.02	0.0198	99%	0.0	0.0	0%	0	0%	0.0%	2,500.00	\$0.05
SILAGE	0	0 ↓	69%	9.0	0.0	14%	0	55%	5.0%	150.00	\$0.00
Total	4.52	1.37	30.3%	9.9	13.5	15.77%	216	44.35%	4.9%	11.06	\$0.05
	1							7	1		
ME conc of ration M/D (Mj/kg DM)				9.9		NDF should be	over 20% to				
Dry Matter intake DMI				1.4		prevent acidosi			For	best results starch	
Total ME Mj/Day supplied by Ration				13.5		under 30% weig			of	total diet should be	
Grams of Protein in ration				216.0		certin.	Sitt Bailt is iess		bet	tween 15% and	
Equivalent protein to ME (inc 15% erro	or margin)*			16.6		CCT CITT			309	%.	
Relative available ME*				13.5							
Maintenance				6.9							
Live Weight Gain per day (kg/day)				0.195							
Days to reach target weight excluding	induction			112.65							
Cost of feed per head per day				\$0.05							
Cost of total feed to achieve target				\$5.63							
Feed Conversion Ratio (kg's of feed pe	er 1 kg body weight	gain)		7.01							
Cost/kg/live weight gained				\$0.26							
Cost/kg carcass weight				\$0.48							
Purchase price / KILO LIVE WEIGHT				\$ 1.80							
Purchase price				\$ 68.40							

2.69

161.40



Purchase price

Sell Price per KG live weight

Total margin over feed costs

Sell Price AS A FAT LAMB



	Feed intake kg						Protein				
Ingredients	(As Fed)	DM Intake kg	Dry Matter %	Mj ME/kg DM	Total MJ	Protein	Grams	%NDF	Starch	\$ / Tonne As Fed	\$ DAY FEED COST
PADDOCK FEED	3.7	1.11	30%	10.0	11.1	16%	178	45%	5.0%	0.00	\$0.00
BARLEY	0.7	0.623	89%	12.5	7.8	13%	81	18%	55.0%	350.00	\$0.25
PEA POLLARD	0	0	91%	11.0	0.0	16%	0	41%	21.6%	334.00	\$0.00
FABA BEANS	0	0	90%	12.0	0.0	27%	0	24%	44.0%	425.00	\$0.00
LUPINS	0	0	90%	12.5	0.0	33%	0	24%	0.0%	465.00	\$0.00
OATEN HAY	0	0	90%	8.3	0.0	6%	0	60%	2.0%	280.00	\$0.00
HGS LAMB PELLETS	0	0	90%	12.0	0.0	16%	0	23%	30.0%	572.00	\$0.00
BARLEY STRAW	0	0	87%	7.0	0.0	5%	0	70%	2.0%	150.00	\$0.00
APS DRY LICK	0.02	0.0198	99%	0.0	0.0	0%	0	0%	0.0%	2,500.00	\$0.05
SILAGE	0	0	69%	9.0	0.0	14%	0	55%	5.0%	150.00	\$0.00
Total	4.42	1.75	39.7%	10.8	18.9	14.75%	259	34.90%	22.7%	66.74	\$0.30
	1							7	*		
ME conc of ration M/D (Mj/kg DM)				10.8		NDF should be	200/ to				
Dry Matter intake DMI				1.8		prevent acidosi			For	best results starch	
Total ME Mj/Day supplied by Ration				18.9		under 30% weig			of t	otal diet should be	
Grams of Protein in ration				258.6		certin.	Site Built is less		bet	ween 15% and	
Equivalent protein to ME (inc 15% err	or margin)*			19.9					30%	6.	
Relative available ME*				18.9	_						
Maintenance				6.9							
Live Weight Gain per day (kg/day)				0.354							
Days to reach target weight excluding	induction			62.19							
Cost of feed per head per day				\$0.30							
Cost of total feed to achieve target				\$18.35							
Feed Conversion Ratio (kg's of feed pe	er 1 kg body weigh	t gain)		4.95							
Cost/kg/live weight gained				\$0.83							
Cost/kg carcass weight				\$1.57							
Purchase price / KILO LIVE WEIGHT				\$ 1.80							

68.40

2.67

160.20



Cost/kg carcass weight

Purchase price

Purchase price / KILO LIVE WEIGHT

Sell Price per KG live weight

Total margin over feed costs

**Sell Price AS A FAT LAMB** 



	Feed intake kg						Protein				
Ingredients	(As Fed)	DM Intake kg	Dry Matter %	Mj ME/kg DM	Total MJ	Protein	Grams	%NDF	Starch	\$ / Tonne As Fed	\$ DAY FEED COST
PADDOCK FEED	0	0	30%	9.5	0.0	12%	0	50%	5.0%	0.00	\$0.00
BARLEY	0.4	0.356	89%	12.5	4.5	13%	46	18%	55.0%	350.00	\$0.14
PEA POLLARD	0	0	91%	11.0	0.0	16%	0	41%	21.6%	334.00	\$0.00
FABA BEANS	0.4	0.36	90%	12.0	4.3	27%	97	24%	44.0%	450.00	\$0.18
LUPINS	0	0	90%	12.5	0.0	33%	0	24%	0.0%	500.00	\$0.00
OATEN HAY	0.87	0.783	90%	9.5	7.4	9%	70	58%	2.0%	250.00	\$0.22
HGS LAMB PELLETS	0	0	90%	12.0	0.0	16%	0	23%	30.0%	572.00	\$0.00
BARLEY STRAW	0	0	87%	7.0	0.0	5%	0	70%	2.0%	150.00	\$0.00
APS DRY LICK	0.02	0.0198	99%	0.0	0.0	0%	0	0%	0.0%	2,500.00	\$0.05
SILAGE	0	0	69%	9.0	0.0	14%	0	55%	5.0%	150.00	\$0.00
Total	1.69	1.52	89.9%	10.7	16.2	14.09%	214	39.81%	24.4%	347.63	\$0.59
	1							7	1		
ME conc of ration M/D (Mj/kg DM)				10.7		NDF should be	200/ to				
Dry Matter intake DMI				1.5		prevent acidosi			For	best results starch	
Total ME Mj/Day supplied by Ration				16.2		under 30% wei			of t	otal diet should be	
Grams of Protein in ration				214.0		certin.	Bitt Built is icss		bet	ween 15% and	
Equivalent protein to ME (inc 15% erro	or margin)*			16.5		00101111			309	%.	
Relative available ME*				16.2							
Maintenance				6.9							
Live Weight Gain per day (kg/day)				0.275							
Days to reach target weight excluding	induction			80.01							
ost of feed per head per day			\$0.59								
Cost of total feed to achieve target				\$47.01							
Feed Conversion Ratio (kg's of feed pe	er 1 kg body weight	t gain)		5.52							
Cost/kg/live weight gained				\$2.14							

\$4.03

1.80

68.40

2.69

161.40



#### Pea pollard and straw

Purchase price

Sell Price per KG live weight
Sell Price AS A FAT LAMB

Total margin over feed costs

-	Feed intake kg						Protein				
Ingredients	(As Fed)	DM Intake kg	Dry Matter %	Mj ME/kg DM	Total MJ	Protein	Grams	%NDF	Starch	\$ / Tonne As Fed	\$ DAY FEED COST
PADDOCK FEED	0	0	30%	9.5	0.0	12%	0	50%	5.0%	0.00	\$0.00
BARLEY	0	0	89%	12.5	0.0	13%	0	18%	55.0%	326.00	\$0.00
PEA POLLARD	1.5	1.3575	91%	11.0	14.9	16%	223	41%	21.6%	315.00	\$0.47
FABA BEANS	0	0	90%	12.0	0.0	27%	0	24%	44.0%	425.00	\$0.00
LUPINS	0	0	90%	12.5	0.0	33%	0	24%	0.0%	465.00	\$0.00
OATEN HAY	0	0	90%	8.3	0.0	6%	0	60%	2.0%	280.00	\$0.00
HGS LAMB PELLETS	0	0	90%	12.0	0.0	16%	0	23%	30.0%	572.00	\$0.00
BARLEY STRAW	0.1	0.087	87%	7.0	0.6	5%	4	70%	2.0%	150.00	\$0.02
APS DRY LICK	0.02	0.0198	99%	0.0	0.0	0%	0	0%	0.0%	2,500.00	\$0.05
SILAGE	0	0	69%	9.0	0.0	14%	0	55%	5.0%	150.00	\$0.00
Total	1.62	1.46	90.4%	10.6	15.5	15.50%	227	41.98%	20.1%	331.79	\$0.54
	1							7	<b>^</b>		
ME conc of ration M/D (Mj/kg DM)				10.6		NDF should be	200/ to				
Dry Matter intake DMI				1.5					For	best results starch	
Total ME Mj/Day supplied by Ration				15.5		prevent acidosis. If NDF is under 30% weight gain is less				otal diet should be	
Grams of Protein in ration				227.0		certin.			bet	ween 15% and	
Equivalent protein to ME (inc 15% erro	or margin)*			17.5		certin.			30%	ó.	
Relative available ME*				15.5							
Maintenance				6.9							
Live Weight Gain per day (kg/day)				0.255							
Days to reach target weight excluding	induction			86.16							
Cost of feed per head per day				\$0.54							
Cost of total feed to achieve target				\$46.31							
Feed Conversion Ratio (kg's of feed pe	r 1 kg body weight	gain)		5.73							
Cost/kg/live weight gained				\$2.11							
Cost/kg carcass weight				\$3.97							
Purchase price / KILO LIVE WEIGHT				\$ 1.80							

68.40 2.69



**Purchase price** 

Sell Price per KG live weight

Total margin over feed costs

Sell Price AS A FAT LAMB



	Feed intake kg						Protein				\$ DAY FEED
Ingredients	(As Fed)	DM Intake kg	Dry Matter %	Mj ME/kg DM	Total MJ	Protein	Grams	%NDF	Starch	\$ / Tonne As Fed	COST
PADDOCK FEED	0	0	30%	9.5	0.0	12%	0	50%	5.0%	0.00	\$0.00
BARLEY	0.6	0.534	89%	12.5	6.7	13%	69	18%	55.0%	350.00	\$0.21
PEA POLLARD	0.8	0.724	91%	11.0	8.0	16%	119	41%	21.6%	315.00	\$0.25
FABA BEANS	0	0	90%	12.0	0.0	27%	0	24%	44.0%	425.00	\$0.00
LUPINS	0	0	90%	12.5	0.0	33%	0	24%	0.0%	465.00	\$0.00
OATEN HAY	0	0	90%	8.3	0.0	6%	0	60%	2.0%	280.00	\$0.00
HGS LAMB PELLETS	0	0	90%	12.0	0.0	16%	0	23%	30.0%	572.00	\$0.00
BARLEY STRAW	0.35	0.3045	87%	7.0	2.1	5%	15	70%	2.0%	150.00	\$0.05
APS DRY LICK	0.02	0.0198	99%	0.0	0.0	0%	0	0%	0.0%	2,500.00	\$0.05
SILAGE	0	0	69%	9.0	0.0	14%	0	55%	5.0%	150.00	\$0.00
Total	1.77	1.58	89.4%	10.6	16.8	12.85%	203	38.21%	28.8%	318.93	\$0.56
	1							7	7		
ME conc of ration M/D (Mj/kg DM)				10.6		NDF should be	over 200/ to				
Dry Matter intake DMI				1.6		prevent acidosi			For	best results starch	
Total ME Mj/Day supplied by Ration			16.8			under 30% weig			of t	otal diet should be	
Grams of Protein in ration				203.4		certin.	Site Bailt is iess		bet	ween 15% and	
Equivalent protein to ME (inc 15% err	ror margin)*			15.6					309	6.	
Relative available ME*				15.6							
Maintenance				6.9							
Live Weight Gain per day (kg/day)				0.258							
Days to reach target weight excluding	g induction			85.15							
Cost of feed per head per day				\$0.56							
Cost of total feed to achieve target				\$48.07							
Feed Conversion Ratio (kg's of feed po	er 1 kg body weight	gain)		6.12							
Cost/kg/live weight gained				\$2.18							
Cost/kg carcass weight				\$4.12							
Purchase price / KILO LIVE WEIGHT				\$ 1.80							

\$

68.40

2.69

161.40



Purchase price

Sell Price per KG live weight

Total margin over feed costs

**Sell Price AS A FAT LAMB** 



				1		1					
In any diamen	Feed intake kg	DNA lost also los	D N.4-44 0/	B4: B4E /L- DB4	T-4-1 841	D	Protein	0/NDF	Chamala	Ć / Tanna As Fad	¢ DAY FEED COCT
Ingredients	(As Fed)	DM Intake kg	Dry Matter %	Mj ME/kg DM	Total MJ	Protein	Grams	%NDF	Starch	\$ / Tonne As Fed	
PADDOCK FEED	0	0	30%	10.0	0.0	16%	0	45%	5.0%	0.00	\$0.00
BARLEY	0	0	89%	12.5	0.0	13%	0	18%	55.0%	326.00	\$0.00
PEA POLLARD	0	0	91%	11.0	0.0	16%	0	41%	21.6%	334.00	\$0.00
FABA BEANS	0	0	90%	12.0	0.0	27%	0	24%	44.0%	425.00	\$0.00
LUPINS	0	0	90%	12.5	0.0	33%	0	24%	0.0%	465.00	\$0.00
OATEN HAY	0	0	90%	8.3	0.0	6%	0	60%	2.0%	280.00	\$0.00
LAMB PELLETS INC RUMICELL \$20/t	1.6	1.44	90%	12.0	17.3	16%	230	23%	30.0%	587.00	\$0.94
BARLEY STRAW	0	0	87%	7.0	0.0	5%	0	70%	2.0%	150.00	\$0.00
DDG PELLETS	0	0	89%	10.9	0.0	25%	0	20%	26.0%	455.00	\$0.00
SILAGE	0.8	0.52	65%	9.5	4.9	14%	73	55%	5.0%	80.00	\$0.06
Total	2.4	1.96	81.7%	11.3	22.2	15.47%	303	31.49%	23.4%	418.00	\$1.00
	1							7	7		
ME conc of ration M/D (Mj/kg DM)				11.3		NDF should be	200/ t-				
Dry Matter intake DMI				2.0		prevent acidos			For	best results starch	
Total ME Mj/Day supplied by Ration				22.2		under 30% wei			of t	otal diet should be	
Grams of Protein in ration				303.2		certin.	giit gaiii is iess		bet	ween 15% and	
Equivalent protein to ME (inc 15% erro	r margin)*			23.3		certiii.			309	6.	
Relative available ME*				22.2							
Maintenance				6.9							
Live Weight Gain per day (kg/day)				0.452							
Days to reach target weight excluding i	induction			48.70							
Cost of feed per head per day				\$1.00							
Cost of total feed to achieve target				\$48.85							
Feed Conversion Ratio (kg's of feed per	r 1 kg body weight g	gain)		4.34							
Cost/kg/live weight gained				\$2.22							
Cost/kg carcass weight				\$4.19							
Purchase price / KILO LIVE WEIGHT				\$ 1.80							

68.40

2.69

161.40



Sell Price per KG live weight

Total margin over feed costs

Sell Price AS A FAT LAMB



	Feed intake kg (As						Protein				
Ingredients	Fed)	DM Intake kg	Dry Matter %	Mj ME/kg DM	Total MJ	Protein	Grams	%NDF	Starch	\$ / Tonne As Fed	\$ DAY FEED COST
SUMMER CROP	0	0	20%	12.0	0.0	22%	0	25%	2.0%	35.00	\$0.00
BARLEY	0	0	89%	12.5	0.0	13%	0	18%	55.0%	330.00	\$0.00
PEA POLLARD	0	0	91%	11.0	0.0	16%	0	41%	21.6%	300.00	\$0.00
FABA BEANS	0	0	90%	12.0	0.0	25%	0	24%	44.0%	400.00	\$0.00
LUPINS	0	0	90%	12.5	0.0	33%	0	24%	0.0%	465.00	\$0.00
CEREAL HAY	0	0	90%	10.0	0.0	14%	0	50%	0.0%	220.00	\$0.00
LAMB PELLETS INC RUMICELL \$22/t	1.6	1.44	90%	12.0	17.3	19%	274	23%	30.0%	587.00	\$0.94
BARLEY STRAW	0.45	0.3915	87%	7.0	2.7	5%	20	70%	2.0%	150.00	\$0.07
DRY LICK	0	0	99%	0.0	0.0	0%	0	0%	0.0%	2,500.00	\$0.00
SILAGE	0	0	30%	10.0	0.0	12%	0	55%	5.0%	40.00	\$0.00
Total	2.05	1.83	89.3%	10.9	20.0	16.01%	293	33.05%	24.0%	491.07	\$1.01
	1							7	7		
ME conc of ration M/D (Mj/kg DM)				10.9		NDE L LLL	200/ 1				
Dry Matter intake DMI				1.8		NDF should be			For	best results starch	
Total ME Mj/Day supplied by Ration				20.0		prevent acidosi under 30% weig				otal diet should be	
Grams of Protein in ration	6.5			293.2		certin.	giit gaiii is less		bet	ween 15% and	
Equivalent protein to ME (inc 15% erro	or margin)*			22.6		CCT CITT.			309	6.	
Relative available ME*				20.0							
Maintenance				6.9							
Live Weight Gain per day (kg/day)				0.387							
Days to reach target weight excluding	induction			56.84							
Cost of feed per head per day				\$1.01							
Cost of total feed to achieve target				\$57.22							
Feed Conversion Ratio (kg's of feed pe	r 1 kg body weight g	gain)		4.73							
Cost/kg/live weight gained				\$2.60							
Cost/kg carcass weight				\$4.91							
Purchase price / KILO LIVE WEIGHT				\$ 1.80							
Purchase price				\$ 68.40							

2.69

161.40

35.78

\$





- 25 hectares (approx. 60 acres) x 8 weeks x 2 t dry matter/hectare
- Feed 1000 lambs 1 kg DM/hd/day for 50 days days
- Cost \$7500 (\$300/hectare) for the Soilkee + \$1125 (\$45/hectare) for Mr PlantMac = \$8625
- Cost per tonne = \$8625 / 50 tonnes dry matter= \$172.50/t dry matter





### Summer crop and hay

Sell Price per KG live weight

Total margin over feed costs

**Sell Price AS A FAT LAMB** 

	Feed intake kg						Protein				
Ingredients	(As Fed)	DM Intake kg	Dry Matter %	Mj ME/kg DM	Total MJ	Protein	Grams	%NDF	Starch	\$ / Tonne As Fed	\$ DAY FEED COST
SUMMER CROP	5	1	20%	12.0	12.0	17%	170	35%	2.0%	35.00	\$0.18
BARLEY	0	0	89%	12.5	0.0	13%	0	18%	55.0%	350.00	\$0.00
PEA POLLARD	0	0	91%	11.0	0.0	16%	0	41%	21.6%	334.00	\$0.00
FABA BEANS	0	0	90%	12.0	0.0	27%	0	24%	44.0%	425.00	\$0.00
LUPINS	0	0	90%	12.5	0.0	33%	0	24%	0.0%	465.00	\$0.00
CEREAL HAY	0.5	0.45	90%	9.0	4.1	9%	41	58%	2.0%	250.00	\$0.13
HGS LAMB PELLETS	0	0	90%	12.0	0.0	16%	0	23%	30.0%	587.00	\$0.00
BARLEY STRAW	0	0	87%	7.0	0.0	5%	0	70%	2.0%	150.00	\$0.00
APS DRY LICK	0.02	0.0198	99%	0.0	0.0	0%	0	0%	0.0%	2,500.00	\$0.05
SILAGE	0	0	69%	9.0	0.0	14%	0	55%	5.0%	150.00	\$0.00
Total	5.52	1.47	26.6%	10.9	16.1	14.32%	211	41.57%	2.0%	63.41	\$0.35
	1							7			
ME conc of ration M/D (Mj/kg DM)				10.9		NDF should be	over 20% to				
Dry Matter intake DMI				1.5		prevent acidos			For	best results starch	
Total ME Mj/Day supplied by Ration				16.1		under 30% wei			oft	otal diet should be	
Grams of Protein in ration				210.5		certin.	Bitt Built is less		bet	ween 15% and	
Equivalent protein to ME (inc 15% err	or margin)*			16.2					30%	6.	
Relative available ME*				16.1							_
Maintenance				6.9							
Live Weight Gain per day (kg/day)				0.270							
Days to reach target weight excluding	induction			81.39							
Cost of feed per head per day				\$0.35							
Cost of total feed to achieve target				\$28.49							
Feed Conversion Ratio (kg's of feed po	Feed Conversion Ratio (kg's of feed per 1 kg body weight gain)			5.44							
Cost/kg/live weight gained				\$1.29							
Cost/kg carcass weight				\$2.44							
Purchase price / KILO LIVE WEIGHT				\$ 1.80							
Purchase price				\$ 68.40							

2.69

161.40





- The 2 t dry matter per hectare crop probably requires a 2 inch thunderstorm
- If not, most of the seed will sit in the ground waiting for the Autumn break
- The Soilkee will have improved your soil structure
- No spraying out or ploughing means fast recovery when it does rain
- Spent \$8625 and it doesn't grow any food for the time you planned it. Alternative only buys 1 b double (40 t instead of 75 t DM crop) of hay at \$220/t







			Barley + faba beans + oat	Pea pollard +
Key figures of interest	Grass only	Grass + barley	hay	straw
Live Weight Gain per day (kg/hd/day)	0.195	0.354	0.275	0.255
Days to reach target weight excluding induction	112	62	80	86
Cost of total feed to achieve target (\$/hd)	\$ 5.63	\$ 18.35	\$ 47.00	\$ 46.31
Total margin over feed costs (\$/hd)	\$ 87.37	\$ 73.45	\$ 45.99	\$ 46.69

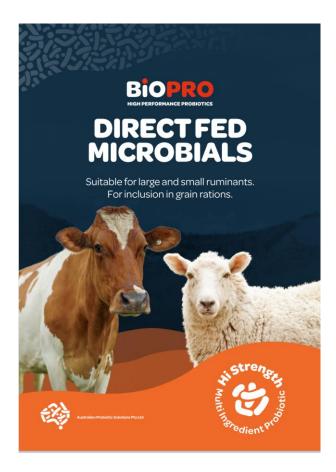
Key figures of interest	pollard + parley	Р	ellets and silage	P	ellets and straw	mmer crop and hay
Live Weight Gain per day (kg/hd/day)	0.258		0.452		0.387	0.270
Days to reach target weight excluding induction	85		49		57	81
Cost of total feed to achieve target (\$/hd)	\$ 48.07	\$	48.85	\$	57.22	\$ 28.49
Total margin over feed costs (\$/hd)	\$ 44.93	\$	44.15	\$	35.78	\$ 64.51

## A range of products to choose from



- Rumicell
- Grower (BP100HS)
- Dry Lick
- What to look for...
  - Healthier lambs = less deaths
  - Faster turn-out through increased FCE









Rumicell and Rumicell Protected		
Desired dose g per cow per day		2.5
Finished feed rate kg per cow per day		1.6
Product inclusion rate kg per tonne finished feed		1.6
APS product price \$ per tonne	\$1	1,000.00
Cost \$ per tonne finished feed	\$	17.19
Cost \$ per lamb per day	\$	0.03
Days on feed		57
Cost APS \$ per feeding period	\$	1.57
Total feed cost \$ per lamb per day for feeding period		\$0.98
Total feed cost including APS per lamb per day for feeding period	\$	1.01
Liveweight gain kg/head/day		0.351
Days on feed to cover cost of APS (finisher earlier)		1.6
Liveweight gain kg/head/day to cover cost of APS		0.361







	3
	1.6
	1.9
\$	8,700.00
\$	16.31
\$	0.03
	57
\$	1.49
	\$0.98
\$	1.01
	0.351
	1.5
1	0.360
	\$ \$







Dose rate 10-30 g/head

 Can be fed year-round to ewes as well as growing animals



#### **Ingredients Guaranteed Analysis**

Level per kg of Premix

INGREDIENT	LEVEL
Vitamin A	0.30miu
Vitamin D3	0.04miu
Vitamin E	0.50g
Vitamin B1	0.25g
Biotin	0.10g
Cobalt	0.20g
lodine	0.10g
Selenium	0.012g
Manganese	4.00g
Zinc	4.00g
Sulphur	5.00g
Molybdenum	0.04g
BioRumen 100	25.00g
Magnesium	8.10%
Calcium	14.50%
Phosphorus	5.40%
Salt	20.00%



#### Summary

- There are a variety of profitable options for this summer for feeding lambs
- APS can customise a solution for your situation depending on how much homegrown concentrate and forage that you have available
- APS has a product stages of life help stock adapt to changing diets, balance the rumen, improve feed conversion, boost immune function (amongst other things)
- Induction is very important
- Keep the lambs watered, full and sheltered







 Feel free to have a chat with us (Mark, Ash, or Tim) over lunch

#### Tim Huggins

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