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PRODUCTIVITY & PROFITABILITY

Assessing and Managing Business Risk

Presenter: John Francis

Too busy to fix the problem?





Source: Mark Rober (<u>https://www.youtube.com/watch?v=hFZFjoX2cGg</u>)

To suggest future topics scan here:



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Change - strong financial performance Scale 15,000 DSE at 80% equity





\$730,000 less cash now relative to 2021



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Change in a livestock business with moderate financial performance Scale 15,000 DSE at 80% equity





Operating profit

\$105,000

2021

\$555,000

Profit after interest

Annual interest





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0 response submitted

Do you keep an annual record of your cost of production?

Yes			
No			
Son Treemap	Bar	< 3 of 4 >	



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5

https://forms.office.com/r/i8u1RDLB5W



2 measures one means





Cost of production



Production



Optimise feed utilisation



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Targets for >500mm rainfall - majority improved pasture base









Engineering a low-cost beef production system

- Production (kg lwt/ha/100mm)
- Rainfall (mm)
- Production (kg lwt/ha)
- Production (kg lwt/DSE)
- Stocking rate (DSE/ha)
- Cost of production (\$/kg lwt) Operating cost (\$/DSE) Overhead cost (% operating cost) Overhead costs (\$/DSE) Enterprise costs (\$/DSE)
 - 8 PI

- 13.5 Output of target production
- \$1.50 \(\Conv Target)
- \$31.50

\$25.20

\$6.30

80% <-> Production system



MEAT & LIVESTOC

Engineering a low-cost lamb production system

1

630

6.3

- Ewes joined/ha/100mm
- Rainfall (mm)
- Ewes joined/ha
- DSE/ewe joined
- Stocking rate (DSE/ha)
- Production (kg cwt/DSE)
- Production (kg cwt/ha)
- Production (kg cwt/ha/100mm)
- Cost of production (\$/kg lwt)
- Operating cost per DSE
- Sheep trading loss (\$/DSE)

- Production target
 - = 6.3 x 100mm increments $6 \wedge GRISTA$
- 15.75 Output of target production
- 173
- 27.5 Approx half beef target
- \$51.03 97% income lamb 3% wool
- \$10.00 Rams & ewe depreciation
- \$41.03



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Getting it half right doesn't pay



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How do I calculate production?



- Livestock inventory
- Livestock sales & purchases
- Livestock trading schedule

u are here: Home I	My Data / Cost of Prod	uction		
	Trading Details	Expenses Labour & Overhead	s Cost of Production	
11 71	Cattle			
		Opening ⑦	Closing 💿	Change
	# stock	0	0	0
Cows ③	kg/head lwt	0	0	0kg
	\$/head	0	0	\$0
	# stock	0	0	0
Calves ②	kg/head lwt	0	0	0kg
	\$/head	0	0	\$0
	# stock	0	0	0
Weaners ②	kg/head lwt	0	0	0kg
	\$/head	0	0	\$0
	# stock	0	0	0
Heifers 💿	kg/head lwt	0	0	Okg
	S/head	0	0	\$0

https://tools.mla.com.au/



System design considerations to drive a low cost of production



Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec



What are the tools? https://etools.mla.com.au/hub/



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Under maintenance

Feed demand calculator

This calculator allows producers to gain an appreciation of the pattern of feed supply and demand over a twelve-month period, the location of "feed gaps" and the ways in which modifying the livestock enterprise might help to close these gaps.

Pasture	Summer	Summer		Autumn		Winter			Total tonnes DM / year / ha	Total tonnes DM / year
Pasture	Tonnes DM/year/ha	Tonnes DM/year	Tonnes DM/year/ha	Tonnes DM/year	Tonnes DM/year/ha	Tonnes DM/year	Tonnes DM/year/ha	Tonnes DM/year	iotal tonnes DW / year / ha	Total tohines DW / year
Totals	0.7	705	1.5	1529	1.2	1210	3.5	3518	7	6962
Feed sup	ply available	over a 12 mo	onth period (St	art date: 1 Jan)						
Plot results as			Chart type						C	REFRESH CHART
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0.0010									~	
0.0014 —										
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Beef system design to deliver >50% feed utilisation **MEAT & LIVESTOCK AUSTRALI** Daily pasture growth rate (kg DM/ha/day) 15 months 450kg Feb Oct Nov Mar Sèp Jan Apr May Jun Jul Aug Deć Sales Calve **PRODUCTIVITY& PROFITABILITY**

*** (5)** iii (\$)

Prime lamb system design to deliver >50% feed utilisation









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Lamb system – feed demand curve

Beef system – feed demand curve



Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec





Outputs of high feed utilisation



High feed utilisation Low feed utilisation



Greater stocking intensity





More production/unit area





Better labour efficiency





Lower cost of production









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But Can you afford production discretion? Cows plus followers 469 Equity 75% +15% price Asset value \$15,736,301 from a low c100 200 $\overline{\mathbf{y}}$ pricing \$155,128 Profit after interest -\$110,317 base Production (kg lwt/ha) 187 Cost of production (\$/kg lwt) \$2.21





Steps to get back on track



- Engineer the production & cost targets
- Design a system that delivers
- Conduct a partial budget (existing vs potential)
- Assess capital requirements/perceived risk/skills required
- Calculate production & cost of production annually











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