



Decisions for drought-affected producers

A joint initiative of:











Topics



- 1. Current situation, the year ahead
- 2. Options
- 3. Feed supplies, costing nutrients
- 4. Producers' reflections on drought

Produced by the South Region
Beef Extension team

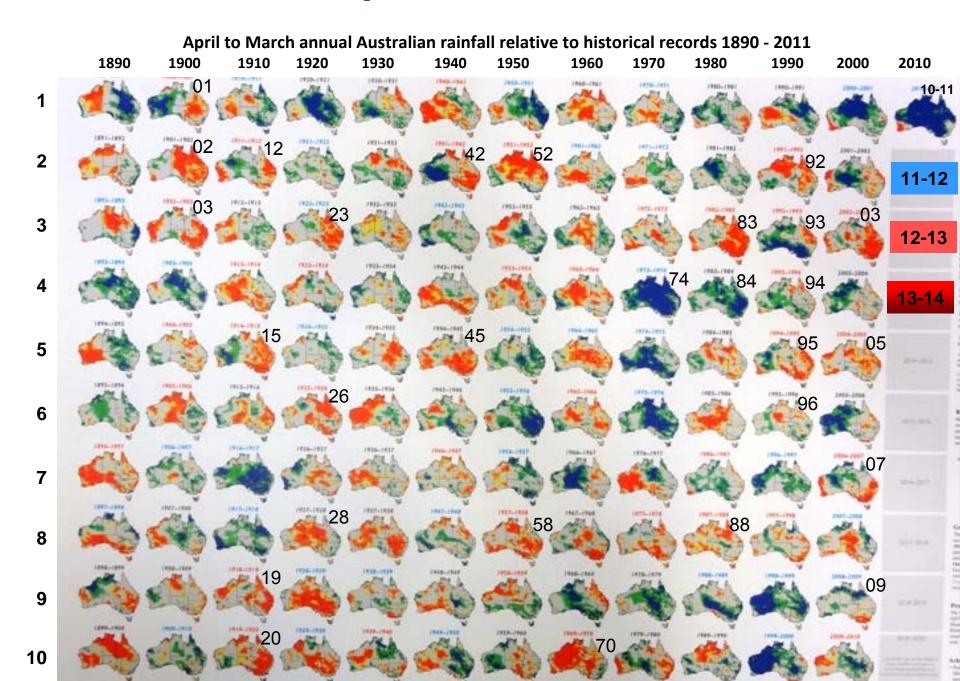


Roger Sneath

Kiri Broad

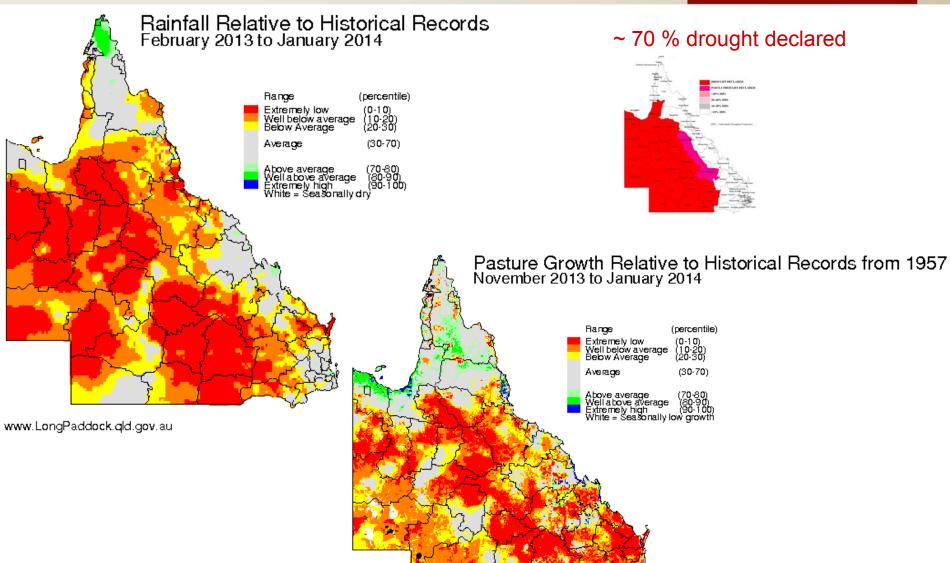
Tim Emery

Australia – floods, fires, droughts - one of the world's most variable climates



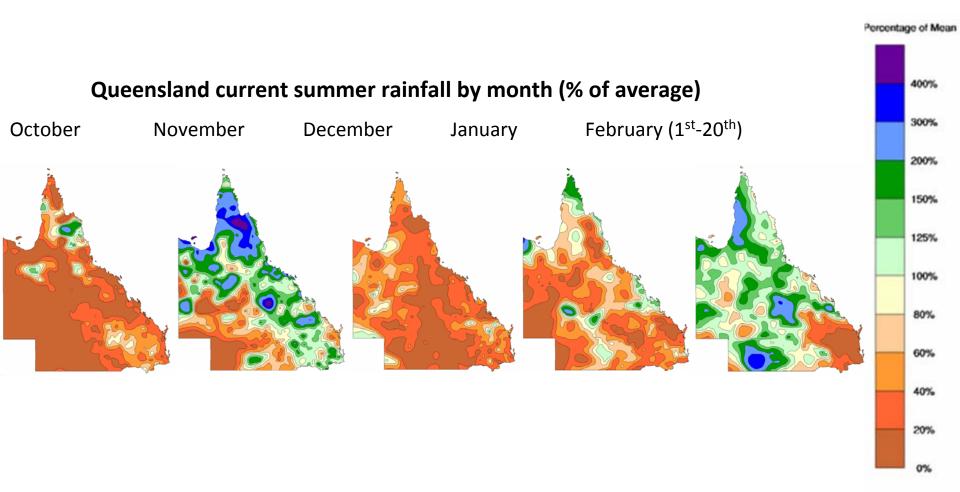
Current situation





Patchy rain Nov 13 & Feb 2014



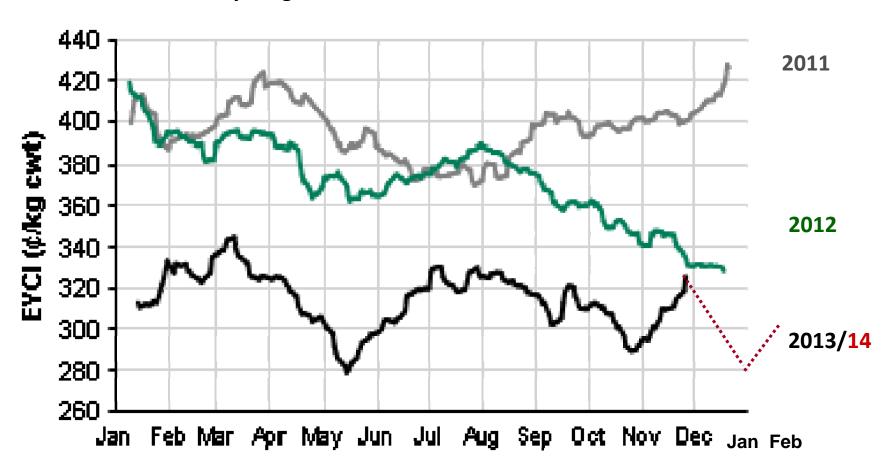


www.longpaddock.qld.gov.au rainfall and pasture growth maps

Current situation



Eastern young cattle indicator

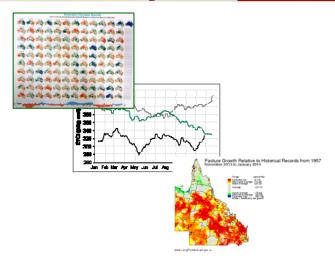


http://www.mla.com.au/Prices-and-markets

Current situation - summary



- Failed summer/s
- Low water supplies
- Low cattle prices
- Tight feed supplies
- Late patchy rain



The question on many people's minds

Even if good rain:

- will there be enough pasture bulk and water to last till next summer?

Decisions for producers



Everybody's situation is different Everyone is trying to do their best

Wise in hindsight ...!

If we knew the future...!

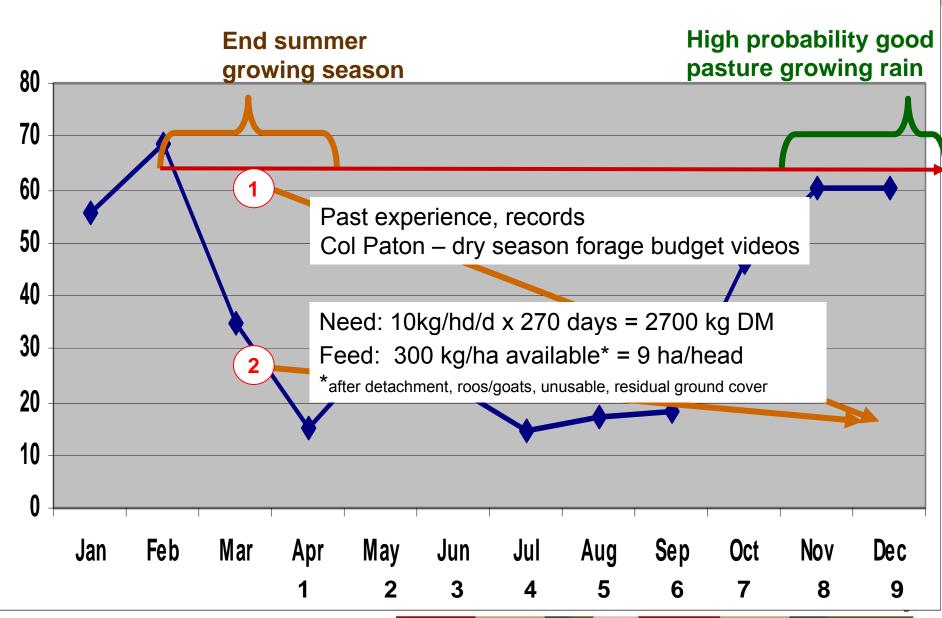
Historic rainfall & pasture growth patterns



Rainfall data

- Google: Rainman streamflow
 Free download, soon to be web interactive
- BOM rainfall data

Roma median rainfall



Dry season forage budgeting





http://futurebeef.com.au/resources/multimedia/#GL



Google – Futurebeef photo standards



From Grazing Land Management (GLM)



Two important 'grazing principles' for good land condition:

- 1. Dry season forage budget
- 2. Wet season spell some paddocks each year

Underlying 'grazing business principles' to help guide decisions...

- Pastures generate the wealth potential (& cheapest feed)
- Cattle just one way to convert pastures into \$
- Land in A condition is twice as productive as land in C condition
- Large scale, long term feeding is extremely costly
 (as opposed to strategic supplementation or short term feeding)

Summary



- Nearing the end of the summer growing season
- Reassess pasture & water supplies adjust numbers to match
- Critical time for decisions and action

More info

• DAFF 13 25 23

• Rainfall & pasture maps www.longpaddock.qld.gov.au

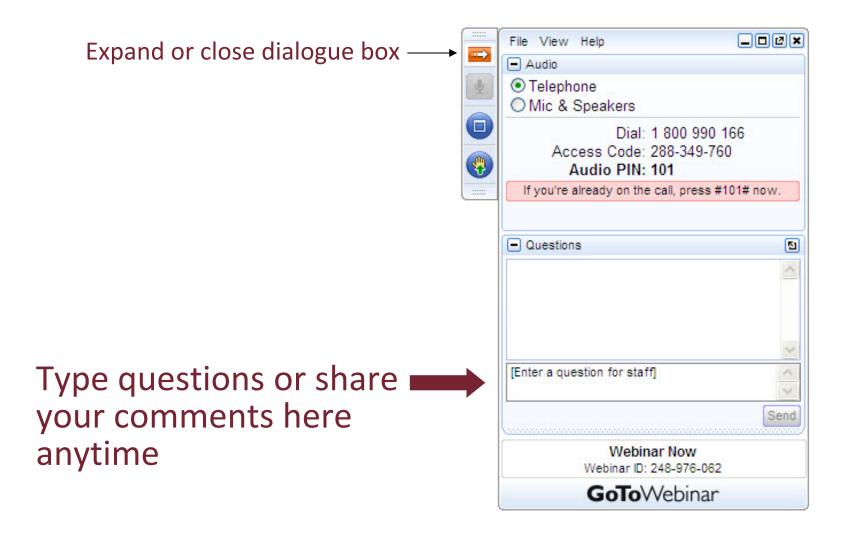
• Rainfall data Google: Rainman streamflow, BOM rainfall data

• Cattle prices http://www.mla.com.au/Prices-and-markets

• Forage budgets http://futurebeef.com.au/resources/multimedia/#GL

Questions, comments?





Topics



- 1. Current situation, the year ahead
- 2. Options: sell, feed, feedlot, agist... other management
- 3. Feed supplies, costing nutrients
- 4. Producers' reflections on drought

Options when more cattle than pasture

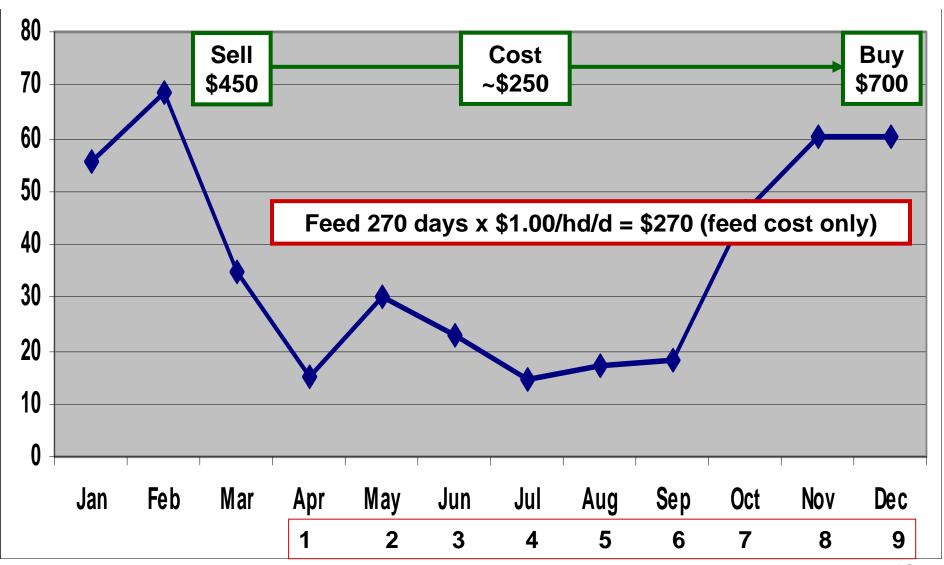


- Sell
- Feed maintenance
- Feed production
- Feedlot
- Agist
- Drove
- Lease
- Buy land
- Other income

People usually use a mix of options

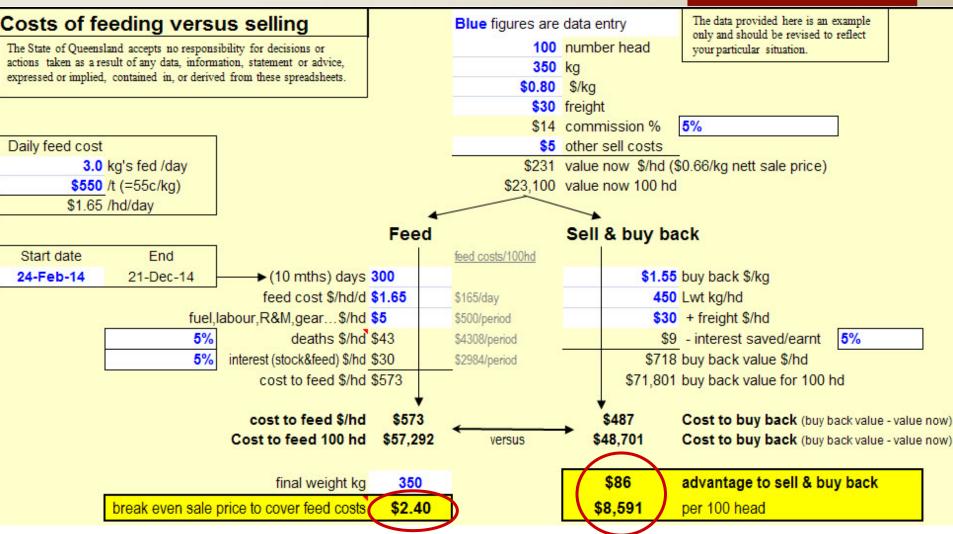
Sell (& buy back) vs feeding





Economics - sell v feed





http://futurebeef.com.au/topics/business-management/beef-business-tools/

Selling



Pros

- Often seen as one of the better options in hindsight
- May rain right decision at time
- In control act early, continued adjustment
- Acting early weight, price, more pasture for others
- Controls downside risk
- Less stress more time / opportunity
- "Cattle = \$ and \$ don't feel the dry"
- Most productive animals remain

Cons

- Loss up front missed future profit?
- Low sale price high buy back?
- Buy back quality?

Feeding



Pros

- If not too long & expensive
- If well planned & prepared

Cons

- How long will it go for?
- Rising feed costs.
- Could be high cost, less time & opportunity
- Stress
- Stock may become un-saleable
- Pasture damage
- Stock losses

Selling down



- Normal sale stock
- Higher risk & least profitable stock
 - Preg test empty
 - Out season or late calving
 - Poor temperament, conformation, parasite susceptible
 - Old
 - Cull heifers
 - Poor doers
 - Inferior bulls
- Keep most productive, lowest risk, best genetics

Production feeding / Feedlot



Do sums – extra value > extra costs?

Production feeding

Economics better if...

- close to premium, short period
- cheap feed, high gains

Cull & weaned cows

check grid - price jump (HSCW, P8)

Custom Feedlot

- Likely hood of profit?
- Quotes 'as fed' or 'DM' (feed intakes & prices, conversions)
- Understand charges, risks
- Where & how sold
- Uniform mob beware poor doers & temperament
- Pen load less stress
- Check prior vaccines eg respiratory disease?

Spreadsheet - FutureBeef website

Cattle Feeding Margin Cal	* A SAN					
Step 1 - value stock at start (bought or bi	and the same	calculator	on right. —		3	3
Step 2 - enter your own data (blue figur	() () () ()					
NB - use all "as fed" or "DM" figures	Queenslan	d				
NB - conversion tables on right				Governmen		
Use at own risk.						
date in	24/2/14	24/2/14	24/2/14	24/2/14	24/2/14	24/2/14
Average weight in (kg)	200	400	320	320	320	320
Expected daily gain (kg)	0.6	1.5	8.0	0.0	0.2	0.4
Feeding period (days)	365	70	70	70	70	70
date out	24/2/15	5/5/14	5/5/14	5/5/14	5/5/14	5/5/14
Expected sale weight (kg)	419	505	376	320	334	348
D%	56%	56%	56%	56%	56%	56%
CW kg	235	283	211	179	187	195
LW gain kg	219	105	56	0	14	28
Average LW	310	453	348	320	327	334
Feed intake % LW	0.5	2.4	2.4	2.4	2.4	2.4
Feed intake kg/head/day	1.5	10.9	8.4	7.7	7.8	8.0
Feed required kg/head/feed period	565	760	585	538	549	561
Feed conversion (kg eaten / 1 kg gain)	2.6	7.2	10.4	0.0	39.2	20.0
01-11-01						
Stock loss %	1.0	1.0	1.0	1.0	2.0	2.0
Annual interest rate %	4.0	5.0	0.0	0.0	7.0	7.0
Commission rate %	4.0	0.0	3.0	3.0	4.0	4.0
Average cost of feed \$/T	450	300	416	416	416	416
Start Nett Price \$/kg LW	1.80	1.80	1.80	1.80	1.80	1.80
Sale Price \$/kg LW	1.80	1.80	1.80	1.80	1.80	1.80
PROFIT MARGIN	50	-63	-177	-256	-253	-234
COSTS (HEAD)				200	200	
Cost of stock losses	9.01	10.67	9.05	8.32	17.34	17.71
Feed	254.18	228.06	242.98	223.43	228.31	233.20
Commission	30.17	0.00	20.30	17.28	24.05	25.06
Interest - on stock value	14.40	6.90	0.00	0.00	7.73	7.73
Interest - on feed value	10.17	2.19	0.00	0.00	3.07	3.13
Transport (\$/hd)	30.00	10.00	10.00	10.00	10.00	10.00
Levy (\$/hd)	5.00	5.00	5.00	5.00	5.00	5.00
Other (yard dues etc) (\$/hd)	0.00	0.00	0.00	0.00	0.00	0.00
Induction (\$/hd)	0.00	0.00	0.00	0.00	0.00	0.00
Structures (\$/hd)	0.00	0.00	0.00	0.00	0.00	0.00
Mixing (\$/hd)	0.00	0.00	0.00	0.00	0.00	0.00
Labour (\$/hd)	0.00	0.00	0.00	0.00	0.00	0.00
Vet (\$/hd)	0.00	0.00	0.00	0.00	0.00	0.00
Other (\$/hd)	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL COST (per head)	\$343.91	\$252.15	\$278.28	\$255.71	\$278.16	\$284.12

Agistment



Pros

- Like selling avoids feeding
- Spell home pasture
- Steers easy, one way trip
- May be profitable do sums



Cons

- Finding it, expensive, distance
- Run out –return / find more
- People management / communication (written contract)
- Poor performance / losses travel fatigue, calf losses, bogging, diseases, parasites, poisoning
- Possibly uneconomic

More information

"Agistment guidelines" NSW DPI Primenote

Other considerations



- Stay healthy manage stress
- **Segregate** on feed requirements cost savings
- Early wean for cow condition & future fertility
- Vaccines (5in1, botulism), Parasite control lice / worms
- Water good access, fenced, troughs, clean & deepen dams
- Gradual changes in feeds, fill cattle on safe feed
- If full feeding small paddocks
- Beware the break weak cattle, exposure, green pick, weeds, spelling
- **Keep records** what did/when/why what worked well, not well, do different

Holding breeder condition → ME intake Energy: Supply v Demand 500kg cow 140 ME requirements P if deficient 120 **Forage budget Adjust numbers Preg test Energy** 100 **Good condition** at calving 80 60 40 Early wean for cow CS 20 **CP** if no green Wet season spell **NIRS** test Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Jan Apr May Jun

Questions - comments



People use a mix of strategies to try and preserve equity and minimise losses.

_ D 2 × File View Help Audio Sell Telephone Mic & Speakers Feed - maintenance Dial: 1 800 990 166 Access Code: 288-349-760 Audio PIN: 101 Feed - production If you're already on the call, press #101# now. Feedlot Questions Agist Drove Lease [Enter a question for staff] Type your questions **Buy land** or share your comments Other income Webinar Now here anytime Webinar ID: 248-976-062 **GoTo**Webinar

Topics



- 1. Current situation, the year ahead
- 2. Options
- 3. Feed supplies, costing nutrients
- 4. Producers' reflections on drought

Feed supplies



- Plan ahead buy when cheaper contracts
- Shop around
- Beware wet feeds check sums

Leading sheep
Newsletter
'Around the Camp', 21 Feb 2014
http://www.leadingsheep.com.au/2014/02
/around-the-camp-water-infrastructurefeed-suppliers-mental-health-agrihivedrought-stories/

suppliers, yellow pages, newspapers and web search for or		
Whole Cotton Seed	Town	Phone
Louis Dreyfus (was Dunavents)	Dalby, Emerald, Moree	32535999
Old Cotton Corp Ltd	NSW & Southern to central Old	32503300
Carpill Oil Seeds (+hulls, meals -canola, surflower, soy, csm) North Bourke Growers Ginning	Namabri Bourke, NSW	03 92687200 02 68722833
North Bourke Growers Grining Namoi Cotton Co-Operative Ltd	NSW, Mungindi, MoIntere	02 08722833 40310100
Steve Marrin Transport	Wyreema	46 962 263, 0428 713 322
Grain	nyreena	40 Mil 200, 0426 / 10 022
Philip Brodie Grains	Toowoomba	46006400
Pring Brook Grans Norro Rural (and meals)	Toowoomba	463733300
A & B Cirains (and cotton seed)	Cakey	46911211
Feed rations / pellets (+ meals, dry licks, other)	Caley	40911211
Ridley-Supastock/Agriproducts	1)Dalby Mill, 2)Supplements	1) 46723777, 2) 4759 0700, 1300 666 657
	1)Warwick, 2)Oakey, 3)Kingarov,	
Riverina	Murgon, Loganiea, Mackay	1) 48802888, 2) 48914500, 3) 41821899
Nutramix Performance stock feeds and supplements	Warwick	46670000
Kewpie Stockfeeds	1) Kingarov. 2) Monto	1) 41649000 2) 41661182
Woods Stockfeeds	Goondwindi	46700400
Better Blends	Oskey	46914691
Protein Meals		
BEC feed solutions (premix, fertilisers eg urea, DCP, granam)	Brisbane	1300 884 503
Stance Global	Brisbane Brisbane	1800 782623 87 3806 2268
Energreen Australia	Brisbane	07 3800 2208
Ory ticks – see Feed rations / pellets section above too.		
Stocklick Trading (rations, meals, mol mixes)	1)Roma, 2)Charters Towers, 3)Mt Garnet	1) 46204700, 2) 47877007, 3) 40970081
Top Country	Roma	46228330
Nutri-Lick (Rations, meals, Norprim® water medication supplies)	Mitchell	46231141
PBA Feeds (dry licks, meals)	Toowoomba	46335555
Causeway Produce Agency	Townsville	47290666
Coleman Stock Feeds	Charters Towers	47873833
Molasses & mixes		
Kalari (was Moohins) (molasses & M8U)	Mackay	49646271
Performance Feeds (e.g. Anipro, Molasses from Wilmar) Molasses Australia (Tom MoAuliffe – Boss)	Kingsthorpe	1 800 300 593, (47825995 Brandon) Tom 33641617
Wide Bay Molasses	Maryborough	41233470
Zarb Road Transport	Mackay	49520100
Tully Sugar Ltd	Tully	4068 4777
Bowman Molasses	Bowenville	40037100
Champion Liquid Feeds (e.g. Molafos)	Inala	1600 333 010
Bundaberg molasses (e.g. Prolix, Pasture Plus)	Cakey	1600 777 097
Performance Feeds (e.g. Anipro, Molasses from Wilmar)	Kingsthorpe	1 800 300 593, (47825095 Brandon)
Cattle King Agricultural Services (e.g. Quicklick, Protein extract)	Sarina	49 431 177
Riverina (e.g. free flow molasses & supplements)	Warwick	40002000
Feed Central (Hav & other)	Topwoomba	1300 660429
Farm Fodder (Hay, grain, silage, agistment)	www.farmfodder.com.au	03 55650355

Feed supplies



Feed price guide Feb 2014 (ex GST) (guide only and subject to change)

Jan 2014		Price	Supply
Grain		\$330-340	reasonable
Chickpea		\$400-480	reasonable
Hay		\$380-500	
WCS old		\$500+	very tight
WCS new		\$385+	April ex Moree
Feedlot rations/p	ellets	\$380-500+	
Molasses		June/July (unless contract)

24 Feb 2014 Protein meals	\$/t bulk ex GST	Supply Ex		CP% DM	MJ/kg DM
Palm kernel meal	350	Reasonable	Bris	15	12
Soybean meal	765	Limited	Bris	46	12
Canola meal	500	Very tight - May on	Newcastle	36	10
Cotton seed meal	550	Very tight - May on	Narrabri	44	12
Cottonseed meal pellets	450	None till April	Hillston	28	10
Sunflower meal	410	None till April	Newcastle	28-30	10
C-Alm pellets	450	None	Downs ex Hillston	17	9.9
Dried Distillers Grain		End April		30+/-	12.5

Costing nutrients



Need to know:

- **1.** \$/t
 - **2.** DM%
- 3. Nutrient level 'DM' or 'As fed' basis

Spreadsheet on FutureBeef website

Feed	\$/t	(c/kg)	DM %	ME (MJ/kg)	ME (MJ/kg)	cents/MJ ME	CP%	CP%	\$/kg CP
	(as fed)	(as fed)		(DM)	(as fed)	(as fed)	(DM)	(as fed)	
		A÷10			C÷ 100 x D			C ÷ 100 x F	
						В÷Е			В÷G
	Α	В	С	D	E		F	G	
Cotton seed meal	500	50	90%	12	10.8	4.6	43	39	1.29

Other considerations

- Risk
- Experience
- Handling storage, equipment, mixing, delivery, troughs
- Labour or full service
- Water content
- Response

Costing energy



 $\frac{$/t}{$}$ $\frac{c/kg}{MJ/kg}$ as fed $\frac{c/MJ}{$}$ Grain $\frac{$300}{30}$ $\frac{30}{10}$ = $\frac{3}{30}$ Silage $\frac{$100}{10}$ $\frac{10}{3}$ = $\frac{3.3}{30}$

high water content – do sums!!!

Costing protein



	<u>\$/t</u>	kg CP	\$/kg CP
WCS	\$200 / 200	=	\$1.00
WCS	\$550 / 200	=	\$2.75
CSM	\$550 / 400	=	\$1.38
Copra	\$550 / 200	=	\$2.75
Dry lick	\$800 / 540	=	\$1.48

Cost: response

Costing nutrients	Price					Energy			Crude Protei n (CP)		
Feed	\$/t	Freig ht (\$/t)	\$/t landed	(c/kg)	DM %	ME MJ/k g	ME (MJ/kg)	Cent s /MJ ME	CP%	CP%	\$/kg CP
Check & update with current figures	(as fed)		(as fed)	as fed		(DM)	(as fed)		(DM)	(as fed)	
Enter your feeds & data at BLUE figures only				A÷10		E ÷ C x 100	C ÷ 100 x D	B ÷ E	G÷ C x100	C ÷ 100 x F	B÷G
			A	В	С	D	Е		F	G	
Example - Silage	110	100	210	21	32%	8.5	2.7	7.7	8	3	8.20
Example - Grape Marc	200	200	400	40	48%	10.8	5.2	7.7	14	7	5.95
Example - Lucerne	500	100	600	60	88%	9	7.9	7.6	15	13	4.55
Example - Soybean meal	765	50	815	81.5	90%	12	10.8	7.5	46	41	1.97
Example - Canola meal	500	100	600	60	90%	10	9.0	6.7	35	32	1.90
Example - Hay	250	200	450	45	88%	8	7.0	6.4	8	7	6.39
Example - Cotton seed meal	600	50	650	65	90%	12	10.8	6.0	44	40	1.64
Example - Chickpea	450	50	500	50	90%	10	9.0	5.6	20	18	2.78
Example – Commercial feedlot ration	400	50	450	45	90%	11	9.9	4.5	12	11	4.17
Example - WCS (whole cottonseed)	440	50	490	49	90%	13	11.7	4.2	24	22	2.27
Example - Molasses	285	50	335	33.5	75%	12	9.0	3.7	1	1	44.67
Example - Palm kernel meal (PKE)	350	50	400	40	90%	12	10.8	3.7	16.5	15	2.69
Example - Grain	335	50	385	38.5	90%	12	10.8	3.6	11	10	3.89
					115						32

Working out average intakes



Dry lick - 15% urea, 52% CP, \$800/t (80c/kg)

```
Kg put out / no of cattle / how long last
210 kg / 100 hd / 7 days
= 2.1 kg / 1 hd / 7 days
= 300 grams / hd / 1 day
```

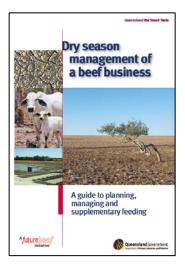
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300 grams / hd / day x 15% urea = 45 grams urea 300 grams / hd / day x 52% CP = 156 grams CP
```

$$0.3 \text{ kg x } 80 \text{ c/kg} = 24 \text{c/hd/day}$$

More information



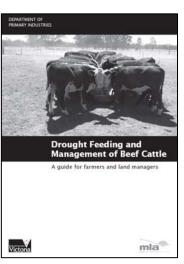
Qld DAFF web



NSW DPI web



VIC DEPI web



Goats: Nutrition and management of goats in drought by B. A. McGregor, Dec 2005,

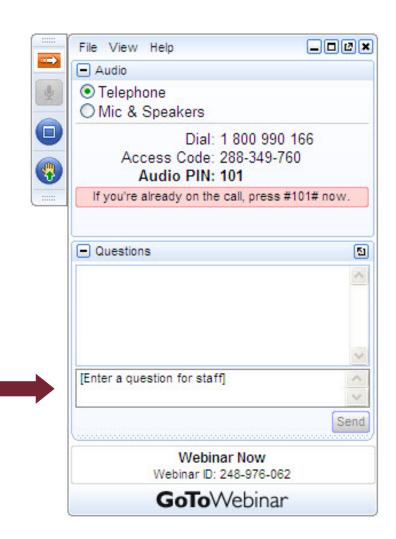
RIRDC Publication No 05/188, RIRDC Project No DAV 217A

Horses: Google - Drought feeding and management for horses David Nash

Sheep: sites listed on last page

Questions, comments?





Type questions or share you comments ■ here anytime

Topics

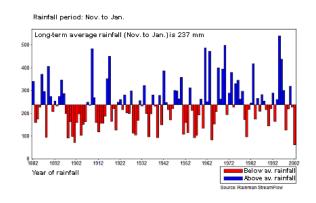


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Producer reflections



Producers of the North-West Slopes of NSW reviewed their drought preparation and business strategies for 2003.



David Llewelyn Senior Livestock Officer, Moree.

http://www.dpi.nsw.gov.au/agriculture/emergency/drought/lessons/north-west

Producers nominated...



• **best decision** - destocking to critical dates

• worst decision - not acting early enough



Key messages focused on forward planning...

'Know what you are going to do and when' was the key to staying in control.

Of crucial importance is to:



- have a plan
- set critical dates
- progress personal educational needs
- have a strategy for recovery.



- 1. Drought occurs when stocking rate exceeds carrying capacity (i.e. drought is not only rainfall-induced).
- 2. Humans control stocking rate.
- 3. Nature controls carrying capacity.



- 1. Drought occurs when stocking rate exceeds carrying capacity (i.e. drought is not only rainfall-induced).
- 2. Humans control stocking rate.
- 3. Nature controls carrying capacity.
- 4. Success in drought is achieved in the same way as at other times (e.g. using sound business management principles).
- 5. Start with goals, write & communicate the plan & recovery plan. (Plan now for next time, write plan down. Put plan in folder. Don't lose the folder.)
- 6. Finetune the plan regularly



- 7. Move early.
- 8. Remain positive keep in touch with positive people.
- 9. Set critical dates.
- 10. Beware the emotional load! Share the responsibility with family members. Don't be afraid to seek help.



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- 11. Watch out for unmanageable equity losses.
- 12. Look on mistakes as learning opportunities.
- 13. Preserve the resource base for financial recovery and future generations.

People



- Stay positive and in control.
- Be an opportunist.
- Maintain harmonious communications with business & family.
- Ensure networking and educational needs are met.

Questions, comments



DAFF Drought assistance 13 25 23 www.daff.qld.gov.au/environment/drought

Rural Financial Counselling Service (RFCS)
 http://www.daff.gov.au/agriculture-food/drought/rfcs/counsellors/qld

Drought updates, probabilities
 www.longpaddock.qld.gov.au

Rainman (rainfall data) google - rainman streamflow

BOM – rainfall data
 www.bom.gov.au/climate/data

BOM – POAMA poama.bom.gov.au/realtime_login.shtml

FutureBeef
 futurebeef.com.au

NSW DPI – beef & sheep
 www.dpi.nsw.gov.au/agriculture/livestock

Victoria State Government
 http://www.dpi.vic.gov.au

Sheep sites

Leading sheep www.leadingsheep.com.au

AWI (Australial Wool Innovation) http://www.wool.com/en/on-farm-research-and-development/sheep-

health-welfare-and-productivity/sheep-nutrition

Qld Gov Business & Industry portal www.business.qld.gov.au/industry/agriculture/animal-

management/sheep/health-welfare

Leading sheep

Newsletter - 'Around the Camp', 21 Feb 2014

http://www.leadingsheep.com.au/2014/02/around-the-camp-water-infrastructure-feed-suppliers-mental-health-agrihive-drought-stories/



Questions, comments?



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