

Weekly Farm Summary 26th May 2022



Farm-system impacts of: Kale vs Fodder beet for winter AND Reducing N loss to water by 30%.

		Std Kalo Dink		Std ER Groop						
Earmlet area including wint	toring	75 0	72 1	75 0	69 2					
Peak cow numbers	lenng	105	162	10/	162					
Milking Area		63.4	60.5	63.4	60.5					
Current Herd size (cows)		125	97	135	115					
Pasture Stocking rate		2.0	1.6	2.00	19					
Win	nter Food	Ka		Fodd	er heet					
Milking su	oplement	In-She	d feed	Fodder be	eet/Baleage					
Average Cover		2038	1877	2057	2022					
Average Growth		21	22	18	17					
Target rotation length										
Last week act rotation (d)		26	22	23	32					
Last week supp (kg DM/cov	N)	1.6	1.2	1.5	1.4					
Average BCS		4.7	4.5	4.5	4.5					
% of herd on priority feedir	וg	14%	20%	8%	5%					
Milk yield (L/cow)		9.9	8.9	9.4	9.7					
Milk yield (kgMS/cow)		1.18	1.07	1.11	1.12					
Nitrogen Cap k	gN/ha/yr	190	50	190	50					
% Nitrogen used		84% (162kg)	106% (53kg)	70% (152kg)	108% (54kg)					
Effluent N YTD		16	10070 (55Kg)	19	19					
Profit/ha comp to Control		\$0	-\$731	-\$1 423	-\$1.238					
YTD supp (kg DM/cow)		905	723	800	757					
YTD MS/cow		418	412	392	393					
YTD MS/ha		1,286	1,103	1,198	1,053					
Business Area	Current	Status	·							
Feed	All cows a either FB, higher the couple of	FB, swedes, kale, or baleage/grass. APC at dry off was around 100kgDM/ha than target. Ground conditions this week were too wet to graze the last of paddocks at the top of each wedge.								
Milk Production	The cold, FB herds	wet snap of weath were dried off on N	er played havoc wi ⁄londay and Kale co	th our last week of ows dried off Tuesd	milk production. lay.					
People	Big shout Final wint	out out to the SDH farm team who have handled a complex season very well. winter prep being done by the team this week.								
Animals	10 culls so drenched very simil just after	sent this week, with 39 remaining on farm. R2's measured, vaccinated, ed, collared, bloods taken this week. Average weight of 385 kg and height is nilar to our current R3's so they are well grown. 1 down cow in the kale herd er dry-off. P supplementation of FB cows and other minerals via docatron								
Environment	Soil moist pond leve temps sta	ture levels lifted thi els lifted to 48%. Ef ay high and soil mo	is week with 58mm ffluent applications isture reduces agai	rainfall in the last paused however n n.	7 days. Effluent nay resume if soil					
Wintering	MA cows week ont	now all on crop or o FB, kale, and swe	grass & baleage. T des.	ransitioning occurr	ing over the next					
Research	Nicole an crops. R2	Vicole and Tash have been busy taking end of season measurements of animals and crops. R2 measured (length, height & girth), bloods taken, crop yields completed.								

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Feed

Principles of Pasture Management this week

Feed Quality	Pasture quality samples have halted for the winter. There have been a few paddocks left with untdy residuals this week which may impact on pasture quality at the start of next season but overall we are happy with where the season has ended.							
Growth Rate Management	APC for all farmlets apart from the LI Kales finished higher than the target at dry off as seen below. If low growth through the winter doesn't rectify this, the level of supplements will be altered in the first round to reset residual for the remainder of the season.							
Nitrogen Strategy	Effluent applications may resume over the coming days if soil moisture levels reduce to a comfortable level. If not, N applications won't start again until soil temperatures are above 7 deg C and rising in spring - likely late August/early September							

	Standard Kale Pink	Low Impact Kale Blue	Standard Fodder beet Green	Low Impact Fodder beet Yellow			
Quantity	APC excluding springer paddocks: 2075	APC excluding springer paddocks: 1890	APC excluding springer paddocks: 2084	APC excluding springer paddocks: 2043			
Quality	DM % decreasing	DM % decreasing	DM % decreasing	DM % decreasing			
Surplus Management		Too wet for o paddock					
Feed Allocation	0.9 kg inshed	0.3 kg inshed	0.8 kg inshed 1.2 kg FB	0.7 kg inshed 1.2kg FB			
Rotation Length	NA	NA	NA	NA			

Milk Production

Principles of Milk production management this week

Milk Production	Milk production finished 3% down on last season, however considering the season this is better than expected. Although this has come at significant cost to the business.The Std Kale herd have produced 85kgMS/ha higher than any previous year, whilst the other 3 herds have succumbed to the wet spring and dry autumn.
Key influences on milk production	With the range of wet and cold weather over the past week, the milk supply fluctuated signifcantly as a result.
Cow Management	Cow management in the last week has focused on preparing animals for drying off and transitioning onto their winter diets. The 10 cull cows selected to go were the highest SCC animals. Remaining culls have been dried off and are being offered predominantly baleage with a small amount of pasture.

	Standard Kale Pink	Low Impact Kale Blue	Standard Fodder beet Green	Low Impact Fodder beet Yellow		
kg Milksolids per cow this week / (last week)	1.18/(1.18)	1.07/(1.14)	1.11/(1.14)	1.12/(1.14)		
kg Milksolids per ha this year / (this time last year)	1286/(1316)	1198/(1269)	1053/(1047)			
Season to date compared to last year	Up 0.2% total milk	Down 2.3% total milk	Down 5.1% total milk	Down 3.6% total milk.		
Culls so far	29 cows	25 cows	33 cows	22 cows		
Animal health peculiarities	None	None	None	None		

Wintering

د the cows are moving onto their winter diest, to avoid any risk of acidosis or nutritional upsets from the brassica's we are following industry guidelines to transition the cows onto crop
Cows on Brassicas - Starting on 3kgs DM/cow/day and increasing 1kg a day up to target crop intake.
Cows of Fodder Beet - If cows have not been milking off FB, start with 2kg DM/cow/day and increase by 0.5kg DM/day (or 1kg DMevery second day). To achieve the required protein and mineral intakes it is suggested that FB makes up no nore than 70% of the diet, unless being offered with a higher protein supplement. Once fully transitioned our cows will be offered a diet with approximately 70% fodder beet.
It is very important to note that the remainder of the diet through the transition period needs to add up to their argetted DM intake. E.g. if targetting 12kgDM/cow/day and FB offered initially is only 2kg then 10kgs must be provided in supplementary feed to maintain BCS while transitioning.
This year we have set our crop paddocks up with pasture breakout areas for use during adverse weather event. The trigger points for determining when these areas will be utilized are currently being refined. The factors that will be considered when developing the decision rules include:
- Amount of surface water pooling
- Predicted weather conditions
- Structure of the soil & pugging depth
- How much of the breakout area should be allocated
- Logistics of allowing access so that cows can still access crops.
By creating decision rules, it will ensure that we do not use all allocated breakout areas at the start of winter and having no options further down the track AND that everyone on the team knows the triggers
rop yielding will be completed every 2 weeks for the paddocks being grazed at the time and also prior to cows entering new crop paddocks. With the growth seen over the last few weeks, re-yielding as we go will allow fine tuning of allocation levels to achieve intake targets and BCS gain.

Wintering

In addition to our paddock plans we utilise a summary table for the team to ensure the correct break allocations and baleage requirements on a daily basis for each of the 11 wintering mobs.

25-May-22																							_			
			Std Ka	le Swede	s/Earlies		Std Ka	ale Kale/	rape/Late	s	LI Kale	LI Kale Cows			Heife	Heifers - Swedes			Calves	Calves Swedes			Trial he	ifers		
			Pdk 24				Pdk 1	6			Pdk 15			Pdk 1	dk 101		Pdk R7				Pdk 16					
		Yield	12	t DM/ha			15	t DM/ha	a		Baleag	Baleage			14.5 t DM/ha		a			t DM/ha			15 t DM/ha			
		Face	130	m			160	m			150	150 m			127 m				90 m				98 m			
		Animals	85				89				106				88				107				35			
														Ī												
			Crop			Baleage	Crop			Baleage	Crop	Sq		Baleage	Crop	Sq		Past	Crop			Past	Crop			Past
			DM	Sq m/d	break w	regd	DM	Sq m/d	break w	regd	DM	m/d	break w	regd	DM	m/d	break w	Baleage	DM	Sq m/d	break w	Baleage	DM	Sq m/d	break w	Baleage
Day 1	Thu	26/05/2022	3	213	1.6	3.5	0	0	0.0	0.0		594	4.0	6.0	3	184	1.4	3.6	1.5	94	0.7	2.4	3	70	0.5	1.4
Day 2	Fri	27/05/2022	4	283	2.2	3.1	3	178	1.1	3.6		594	4.0	6.0	4	246	1.9	3.2	1.5	94	0.7	2.4	4	93	0.7	1.3
Day 3	Sat	27/05/2022	5	354	2.7	2.7	4	237	1.5	3.2		594	4.0	6.0	5	307	2.4	2.8	2	126	0.9	2.2	5	117	0.9	1.1
Day 4	Sun	28/05/2022	6	425	3.3	2.3	5	297	1.9	2.8		594	4.0	6.0	6	368	2.9	2.4	2	126	0.9	2.2	6	140	1.0	1.0
Day 5	Mon	28/05/2022	7	496	3.8	1.9	6	356	2.2	2.4		594	4.0	6.0	7	430	3.4	2.0	2.5	157	1.1	1.9	7	163	1.2	0.8
Day 6	Tue	29/05/2022	8	567	4.4	1.7	7	415	2.6	2.1		594	4.0	6.0	7.5	460	3.6	1.8	2.5	157	1.1	1.9	8	187	1.4	0.7
Day 7	Wed	29/05/2022	9	638	4.9	1.6	8	475	3.0	2.1		594	4.0	6.0	7.5	460	3.6	2.0	3	189	1.3	1.7	8.7	203	1.5	0.5
Day 8	Thu	30/05/2022	10	708	5.4	1.7	9	534	3.3	2.1		594	4.0	6.0	7.5	460	3.6	2.0	3	189	1.3	1.7	8.7	203	1.5	0.5
25-May-22	2		Std FB Heavies/Lates			Std FB Lights/Earlies			LI FB Cows			Heifers - Baleage			Calves	Baleage										
			Pdk 26	i i			Pdk 3	9			Pdk 41		Pdk 2		R8											
		Yield	25	t DM/ha			24	t DM/ha	a		23 t DM/ha			Baleage			Baleag	e								
		Face	135	m			120	m			120	m			112 m	face			?? m fa	ce						
		Animals	88				85				106				108				100							
						Baleage				Baleage				Baleage				Past	Crop			Past				
			Crop E	Sq m/d	Break w	reqd	Crop	Sq m/d	Break w	reqd	Crop D	Sq m/o	d Break w	reqd	Crop	Sq m/o	l Break w	Baleage	DM	Sq m/d	break w	Baleage				
Day 1	Thu	26/05/2021	2	70	0.5	4.0	2	71	0.6	3.9	2	88	0.7	4.8	0	496	4.4	5.0	0	344	#DIV/0!	2.5				
Day 2	Fri	27/05/2021	2.5	88	0.7	3.8	2.5	89	0.7	3.7	2.5	110	0.8	4.6	0	496	4.4	5.0	0	344	#DIV/0!	2.5				
Day 3	Sat	28/05/2021	3	106	0.8	3.6	3	106	0.9	3.5	3	133	1.0	4.3	0	496	4.4	5.0	0	344	#DIV/0!	2.5				
Day 4	Sun	29/05/2021	3.5	123	0.9	3.4	3.5	124	1.0	3.3	3.5	155	1.1	4.1	0	496	4.4	5.0	0	344	#DIV/0!	2.5				
Day 5	Mon	30/05/2021	4	141	1.0	3.2	4	142	1.2	3.1	4	177	1.3	3.9	0	496	4.4	5.0	0	344	#DIV/0!	2.5				
Day 6	Tue	31/05/2021	4.5	158	1.2	3.0	4.5	159	1.3	2.9	4.5	199	1.5	3.6	0	496	4.4	5.0	0	344	#DIV/0!	2.5				
Day 7	Wed	1/06/2021	5.5	194	1.4	2.8	5	177	1.5	2.9	5	221	1.6	3.6	0	496	4.4	5.0	0	344	#DIV/0!	2.5				
Day 8	Thu	2/06/2021	6	211	1.6	2.8	5.5	195	1.6	2.9	5.5	243	1.8	3.6	0	496	4.4	5.0	0	344	#DIV/0!	2.5				

Figure 1: Transition Plan for cows in their wintering mobs for the next week.

Farm system impacts: of Kale vs Fodder beet for winter AND Reducing N loss to water by 30%. Kale, Winters on kale - in-shed feed available. Fodder beet, winters on Beet, Beet as lactation supp. Low impact (LI) limited Max 50kg N/ha/year vs Std 193kg N/ha/year



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Growth2

40 3

Standard Kale





Low Impact Kale



43 0 0

0 20 2 6

0

18 9 9 20 14 42 0 10 0 14



Standard Fodder Beet

Farm-system impacts of: Kale vs Fodder beet for winter AND Reducing N loss to water by 30%.



1700

16-Feb

2.14.24

16 Mar

30 Mar

13.401

11-10-14

27.40

25-8-84

-Actual

28.001

12.84.84

26 12 194

1700

17.500

17-10-05

3.88.25

31-Mar

14.401



Figure 2: Girth measurements on the R2's this week.

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Figure 3: Preparing the R2's for joining their herds.