

Weekly Farm Summary 21st April 2022



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

		Std Kale Pink	LI Kale Blue	Std FB Green	LI FB Yellow
Farmlet area including win	tering	75.0	72.1	75.0	69.2
Peak cow numbers		195	162	194	162
Milking Area		63.4	60.5	63.4	60.5
Current Herd size (cows)		164	133	160	134
Pasture Stocking rate		2.6	2.2	2.5	2.2
W	inter Feed	Kale		Fodder beet	
Milking st	upplement	In-Shed feed		Fodder be	et/Baleage
Average Cover		2236	2101	2265	2125
Average Growth		39	33	30	30
Target rotation length		44	42	44	42
Last week act rotation (d)		44	42	44	41
Last week supp (kg DM/co	w)	6.9	8.2	7.8	8.7
Average BCS		4.66	4.50	4.49	4.49
% of herd on priority feedi	ng	14%	20%	8%	5%
Milk yield (L/cow)		12.4	10.8	11.6	11.3
Milk yield (kgMS/cow)		1.37	1.22	1.30	1.29
Nitrogen Cap kgN/ha/yr		193	50	193	50
% Nitrogen used (kgN/ha) YTD		84% (162kg)	106% (53kg)	79% (152kg)	108% (54kg)
Effluent N YTD		12	11	18	19
Profit/ha comp to Control		\$0	-\$210	-\$173	-\$166
YTD supp (kg DM/cow)		862	689	736	689
YTD MS/cow		396	393	370	372
YTD MS/ha		1,217	1,052	1,133	996
Business Area	Current St	atus			
Feed	Average pasture cover has lifted in all farmlets, with growth rates at or above target since the autumn feed budget was created. 33% reduction in supplements for all herds this week as grass returns, rotation length remains, and cows being dried off. Production continues to be significantly driven by pasture quality, although milk				
Milk Production	solid percentage increased whilst litres decreased, after period of rough weather throughout the week.				
People	Covid implications are no longer affecting the team. With 1 team member moving on at the end of the season, interviews are underway to fill the position.				
Animals	BCS was completed this week, showing a large spread across the farmlets. However, the LI Kale herd having both the highest number of fat cows but also the highest number of skinny cows. Lameness incidents are increasing, largely due to wet lanes.				
Environment	Effluent applications continue however these will cease around the 15 th of May in line with decreased soil temp and plants likely to lose rather that use the nutrients.				
Wintering	Winter grazing paddock plans to be completed on A3 sheets. These will include the number of cows per mob, grazing direction, how many bales they need a day etc. Face length measured and flags erected to mark where fences will go.				
Research	Ag Research have been on farm this week finishing the last of the visual soil assessments looking at soil structure. This will aid in the process of re-randomising paddocks for the new farm systems trial.				

Feed

Pri

rinciples of Pasture Management th	nis week				
Feed Quality	common at this	Dry matter % in the pasture is now at 17.5% which has dropped from mid 20's, however that is common at this time of the year. Residual management crucial as many of these paddocks are on their last grazing of the round. Dry cows will follow milkers in paddocks that need the residual taken lower, to ensure that clumps don't remain and quality comes back well over the winter.			
Growth Rate Management	target line for Supplement u	Growth rates have lifted across the farm with the Std Kale farmlet growing more than the autumn target line for the first time in over 1 month. Increase the pasture proportion of the diet to 11kgDM. Supplement use will be monitored closely alongside residuals to ensure substitution is not occuring. Depending on growth levels, supplements are able to all be removed apart from the fodderbeet, to ensure that the wedge shape remains			
Nitrogen Strategy	Effluent applications continue however this will cease in two weeks time.				
	Standard Kale Pink	Low Impact Kale Blue	Standard Fodder beet Green	Low Impact Fodder beet Yellow	

	Standard Kale Pink	Low Impact Kale Blue	Standard Fodder beet Green	Low Impact Fodder beet Yellow
Quantity	Growth above demand	Growth above demand	Growth above demand	Growth above demand
Quality	DM% is now at 17.5%	DM% is now at 17.5%	DM% is now at 17.5%	DM% is now at 17.5%
Surplus Management	None	None	None	None
Deficit Management	3.2 kg inshed 3.1 kg DM baleage	3.0 kg inshed 3.1 kg DM baleage	0.8 kg inshed 2 kg FB 3.2 kg DM baleage	1 kg inshed 2 kg FB 3.2 kg DM baleage
Rotation Length	44 days	42 days	44 days	41 days

Milk Production

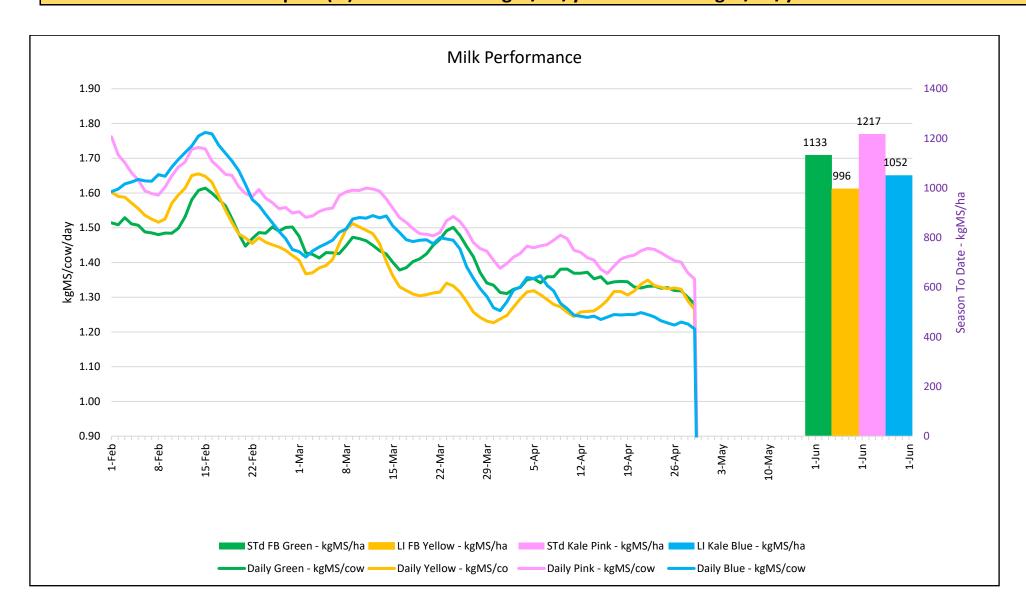
Principles of Milk production management this week

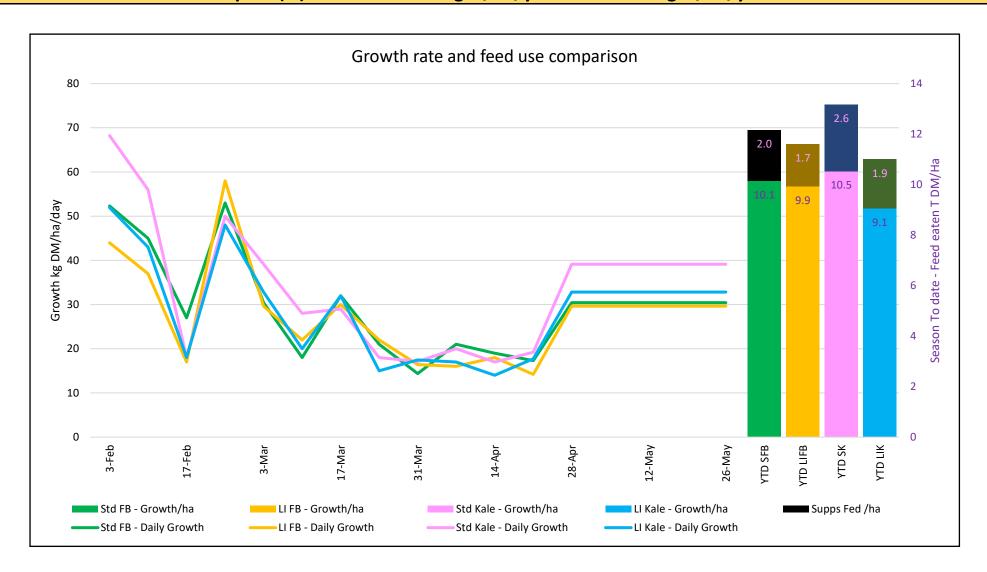
Milk Production	For the first time since January, the herd as a whole has matched last seasons production for the sa week, however that has come at a cost in the form of imported supplements. (Please comment) SCC in both herds has spiked this week, with a number of mastitis cases being picked up in this week herd test.			
Key influences on milk production	However '	with good regrowth coming back this et weather saw a reduction in yeild o	cally when herds move through padde week, these effects should subside c ver the past week, however milk solic he same time.	over the coming weeks.
Cow Management		en from the hred test and are things : more than	Il be dried off next week. Decision fac such as high SCC, low produciton, any 0.35BCS before winter. booked in for dry-off on the 20th of l	thing now needing to gain
	Standard Kale	Low Impact Kale	Standard Fodder beet	Low Impact Fodder beet

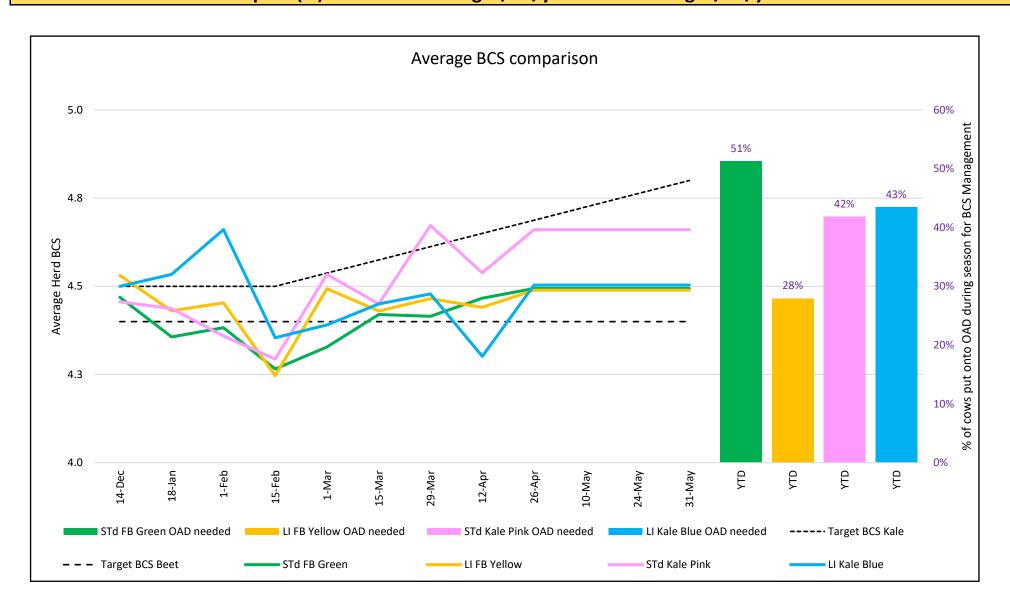
	Standard Kale Pink	Low Impact Kale Blue	Standard Fodder beet Green	Low Impact Fodder beet Yellow
kg Milksolids per cow this week / (last week)	1.37/(1.43)	1.22/(1.25)	1.30/(1.32)	1.29/(1.33)
kg Milksolids per ha this year / (this time last year)	1217/(1259)	1052/(1031)	1133/(1206)	996/(991)
Season to date compared to last year	Down 3.5% total milk	Up 2% total milk	Down 6% total milk	0% fluctation to last year
Cows needing priority feeding	41 cows (25% of herd)	29 cows (22%)	13 cows (8%)	21 cows (16%)
Animal health peculiarities	None	None	None	Mastitis spike

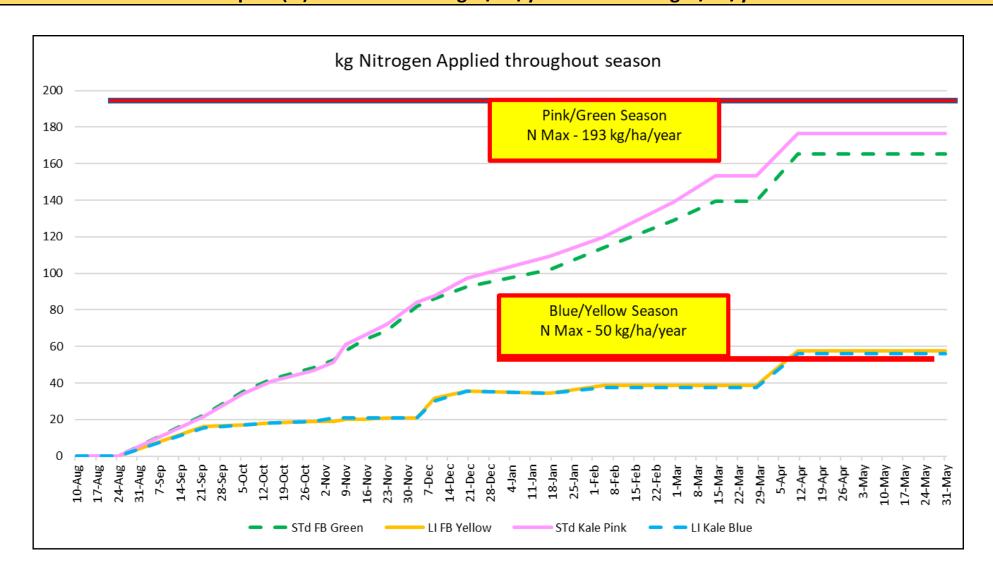
Environment

Coming out of an unspeakably difficult summer and autumn, it's wonderful to now have pasture growth happening along with some forgiving temperatures still present. It's a pivotal time of year to know and understand the environmental outcomes for our on-farm decision making. Future farming will offer us high accountability for low-efficiency of nutrient management in the **Key Summary** shoulders of the season. We had some excellent discussion with Dale and Keiran from Ravensdown yesterday and got us thinking about sharing our decision rules. We use a decision rule geared around Soil temperatures to govern our autumn Nitrogen Applications. Our rule is Nitrogen applications cease by 10th April, leaving a 6 week window where actively growing plants **Nitrogen** have enough supportive soil temperature and moisture to use that Nitrogen for growth. Anything the plant cannot use by the 20th of May wil likely be flushed out of the pasture root window by rainfall. For the lower rates of N present we have a longer window for effluent applications, but we are now **Effluent** approaching the points that the plants won't be able to uptake the Nitrogen from effluent, so our applications will cease until soil warms up to over 6.5deg C in Spetember. There is benefit to be had from use of Gibberellic acids and key times of the season, but for us now is not one of those options. The total increase in growth, only occurs if the growth is eaten within 30 days. Applications starting now are unlikely to be eaten in the milking round, and we have a solid plan to grown Gibberalic acids enough grass before calving starts in August. Soil temps are warm enough that we don't forsee plants being unable to produce their own gibberellins, meaning the response from applied gibberellic acid will be lower than at other times of the year.









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4 10 18 26 0 48 4 16 12 0 0

NB: Hatched bars are 2021 new grass paddocks being managed on a faster rotation

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Figure 1: Kale crop and swede crop being yielded this week.



Figure 2: Calves at the runoff in great condition heading into winter. Diet consisting of grass, baleage and PKE.