Weekly Farm Summary 16th December 2022



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

SOUTHERN DAIRY HUB

		Std Brassica/		Std Fodder LI Fodder									
				beet	LI Fodder beet								
		Baleage	LI Baleage		Yellow								
Earmlat area including win	toring		Pink Blue Green 82.7 60.9 82.7										
Farmlet area including win Peak cow numbers	tering	222											
			137	221	135								
Milking Area		73.8	55.1	73.8	55.1								
Current Herd size (cows)		222	133 2.4	215	134								
Pasture Stocking rate (curr		3.0	2.4										
WI Milking su	nter Feed	Swede/Bale	Beet 60 days										
Average Cover	ppromente	2588	2469	2601 2546									
Average Growth		76	67	77	64								
Target rotation length		22	26	22	26								
Last week act rotation (d)		19	26	22	23								
Last week supp (kg DM/co	w/)	2.7	2.5	2.3	2.8								
Average BCS	•••	4.4	4.5	4.4	4.5								
% of herd on priority feedi	200	7%	6%	7%	4.5								
Milk yield (L/cow)	ing	22.2	23.6	22.2	278								
					_								
Milk yield (kgMS/cow)		1.96	2.06	2.00	1.98								
Nitrogen Cap k		180	50	180	50								
% Nitrogen used (kgN/ha)	YTD	42% (76kg)	52% (26kg)	43% (77kg)	44% (22kg)								
Effluent N YTD		8	8	8	5								
Profit/ha comp to Control		\$0	\$0	\$0	\$0								
YTD supp (kg DM/cow)		408	266	358	301								
YTD MS/cow		224	237	222	235								
YTD MS/milk ha (YTD MS/f	arm ha)	675 (603)	589 (533)	666 (594)	577 (522)								
Business Area	Current S	Current Status											
	Production continues to be relatively stable around 2 kg MS/cow/day. Pasture												
Milk Production	quality in the allocated paddocks this week for the Low Impact herds probably												
		river for their albeit											
		seed head present		-	-								
	of reproductive stage of the plant. Pasture yields remain mostly overestimated by												
Pasture & Feed	plate meter due to hardened stems in the base of the pasture and some seedhead. Visual assessment also used with feed allocation. Farm team considering the move												
r dotare et reed	to 36 hr grazings for the LI herds. Growth rates are continuing to be much higher												
	than demand, resulting in the removal of in-shed feed except for that required to												
	deliver essential minerals.												
	-	No significant animal health issues to report. Latest blood sampling results show											
Animals		magnesium levels are at a good level and iodine & copper are improving with the											
	increase in inline supplement levels. Mating continues to go well.												
Environment	Continuing with round 4 of nitrogen fertiliser for the Std farmlets. Round 3 for Ll												
	farmlets is continuing.												
Mintoria a		PGGW and Agricom technical field reps coming in this week to discuss new grass establishment procedures and devise a plan for some of our 2023 new grass											
Wintering		-	-		-								
	paddocks. Potential crop paddocks for winter 2024 identified for the new farmlets. New milking times implemented. Cups on @ 6:30 am & 2:30 pm and combining that												
People		e other potential tin		-	-								
		lease timers.	0		0								
		under way for a hea											
Research		tor respiration/pant											
	and Febru	uary with results cor	npared to monito	ring devices (Smax	Tec, Allfex collars)								

Milk Production

Principles of Milk Production management this week

Milk Production	Was a bit "wobbly" this week due to some inconsistent pasture quality and quantity but remains relatively stable at round 2 kg MS/cow/day. Continue to focus on quality to maintain production levels and minimize the decline.														
Key Influences on Milk Production	Production changes continue to be more likely driven by pasture quality at this point in the season. In-shed feeding only to provide minerals. Increase in BCS suggests energy is also being partitioned to BCS gain.														
Cow Management		Milking TAD, continuing to manage lighter BCS cows below 4 on OAD milking with priority in-shed feeding. Latest BCS is 4.4 for each Standard herd and 4.5 for each of the Lower Impact herds													
	Std brassica/baleage Pink	LI Baleage Blue	Std Fodder beet Green	LI Fodder beet Yellow											
kg Milksolids per cow this week / (last week)	1.96 (1.97)	2.06 (2.11)	2.00 (2.02)	1.98 (2.06)											
kg Milksolids per ha this year / (same time last year)	675 (603)	589 (533)	666 (594)	577 (522)											
% Var kg Milksolids per ha Season per ha to date vs last season to date	11.7	8.7	16.8	12.9											
No. of Cows needing preferential feeding (% herd)	15 (7)	8 (6)	15 (7)	3 (2)											
Animal Health peculiarities	None	None	None	None											

Milk Production

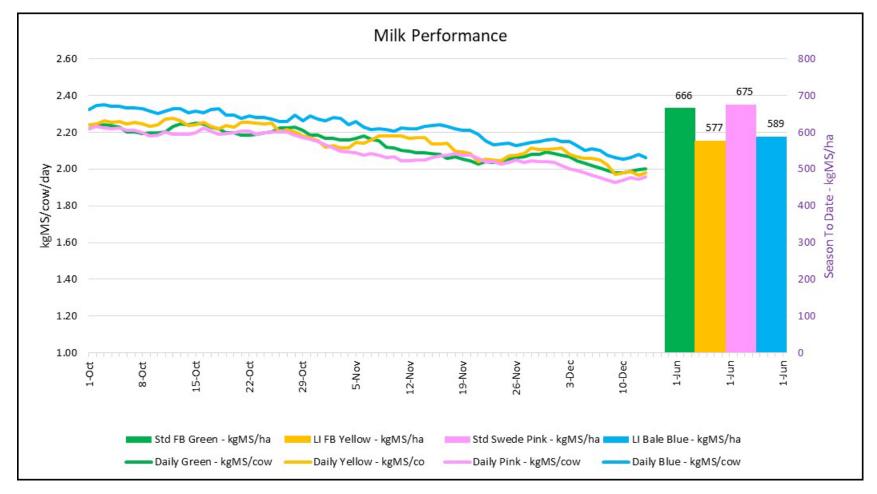


Figure 1: Milk solids production (/cow/day) plus cumulative season production (kg/ha)

Body condition score

As at 13th December 2022 – updated fortnightly

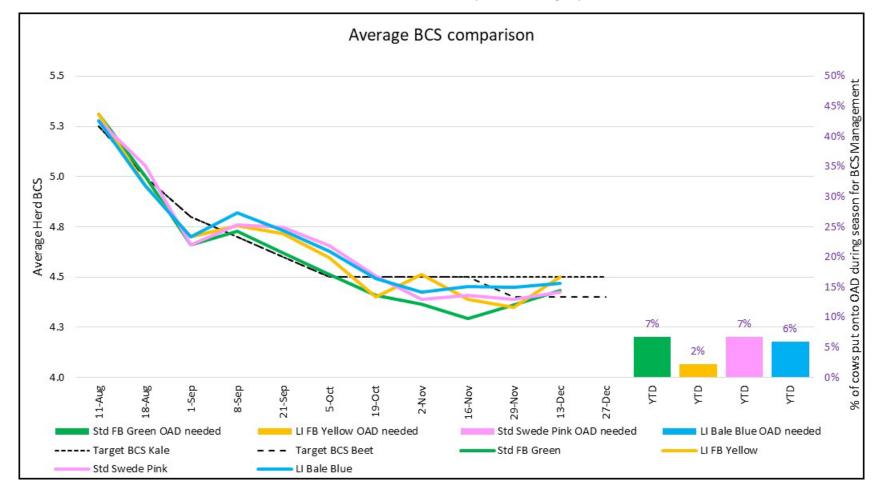


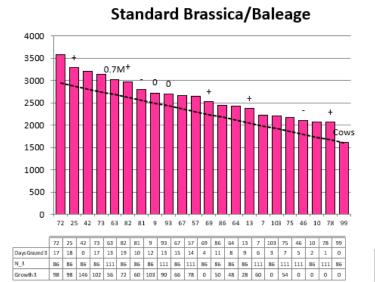
Figure 2: Fortnightly BCS trends and percentage of the herd requiring OAD milking season to date

Feed

Principles of Feed management this week

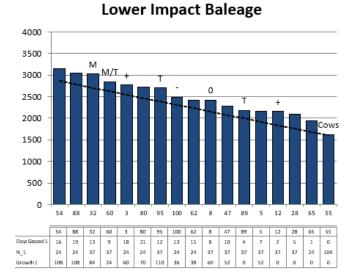
Feed Quality	The presence of seed head is still evident, but not to the same degree as previous weeks. Pasture management strategy has worked well with the farm looking continuing to look very tidy. Most paddocks have excellent colour and clover. Latest pasture quality results indicate low crude protein in some paddocks i.e. less than 15% crude protein. ME has increased but most still only in the mid to high 11 MJ/kg DM												
Growth Rate Management	Remaining on our pasture quality management strategy of stepping over any paddocks greater than pre-graze target for baleage and topping to meet residual. Reassessing paddocks towards the end of the 7 day walking interval and adjusting grazing order accordingly. Minimizing supplementary feeding to reduce the risk of substitution, knowing that cows reduce grazing time by 20 minutes per kg of supplement consumed.												
Nitrogen Strategy	Std herds on 4 th round of Nitrogen applications (25 kg N/ha), Third round applications (12.5 kg N/ha) are continuing.												
	Std brassica/baleage Pink	LI Baleage Blue	Std Fodder beet Green	LI Fodder beet Yellow									
Quantity	Surplus	Surplus	Surplus	Surplus									
Quality	Some stem elongation stalky base & Seed head also good colour and amounts of clover	Some stem elongation stalky base & Seed head also good colour and amounts of clover	Some stem elongation stalky base & Seed head also good colour and amounts of clover	Some stem elongation stalky base & Seed head also good colour and amounts of clover									
Surplus Management	X2 pdk to conserve	X2 pdk to conserve	X2 pdk to conserve	X 2 pdk to conserve									
Deficit Management - kgDM (diff from last week)	1.2 (-1.5)	1.2 (-1.3)	1.2 (-1.1)	1.2 (-1.6)									
Target Rotation Length (days)	22	26	22	26									

Feed



4000 3500 M + Μ 3000 0 2500 Т 2000 Cows 1500 1000 500 n 71 27 84 98 68 66 90 83 96 49 37 29 85 76 23 52 70 51 61 35 4 58 98 58 71 27 84 66 90 83 96 49 37 29 85 75 23 52 70 51 61 35 4 58

	-24	- 00	1.1	4.7	- 04	- 00	30	10.0	34	4.3	- 4.4	2.5		2.0	***	-24	10	44	<i>w</i> .	33	-4	34
Days Grazed 2	0	13	17	11	18	5	14	16	15	10	12	19	5	8	4	6	7	9	1	2	3	0
N_2	86	86	86	86	111	86	86	86	86	86	111	111	111	86	111	86	86	111	86	111	111	86
Growth 2	100	48	70	114	83	0	102	64	107	0	74	50	0	54	0	72	99	34	0	0	0	0



Lower Impact Fodder Beet

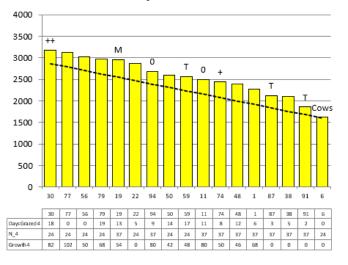


Figure 3: Feed Wedges as of 13th December 2022

Standard Fodder Beet

Feed

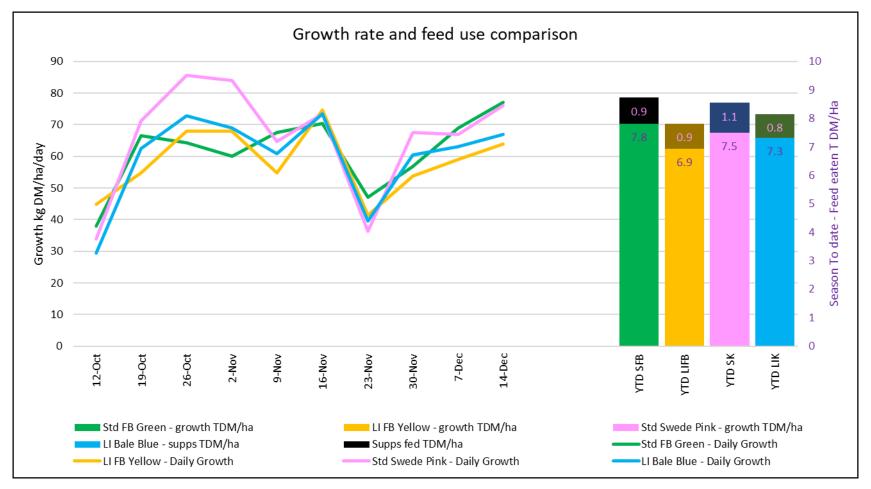


Figure 4: Weekly growth rate (kgDM/ha/d) & YTD feed use

Farm Walk Photos



Photo 1: Low Impact girls soaking up the sun



Photo 2: Cow "Beloved" doing an equipment check



Photo 3: New grass paddock drilling uneven. Consultation has been sort for next steps

Farm Walk Photos



Photo 4: Fodder beet is up with wet weather standoff area in foreground



Photo 6: Party cow "Violet" might have started to party a bit too hard a little early



Photo 5: Some pastures have responded well to residual management strategy implemented in early spring



Photo 7: DairyNZ Senior Research Technicians Nicole and Natasha completing another farm walk