

Milk Protein percentage

Primarily energy balance -

- 1 the intake of NSC, increases milk and milk protein yield and N efficiency in lactating cows
- ↑ energy, ↓ protein catabolism as an energy source = more N for MP
 - Because AA's used as gut energy source

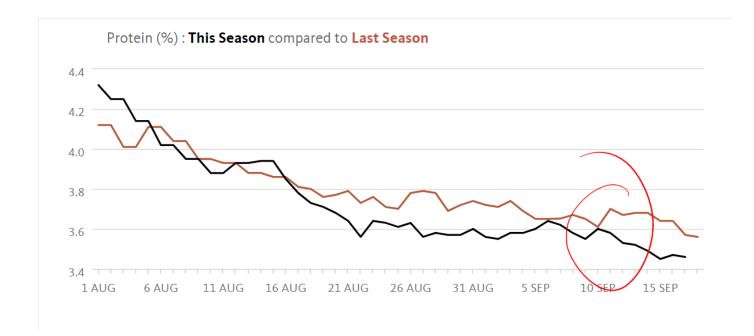
- Protein deficiency
- Mastitis, other diseases
- Poor rumen function flow on to reduced bug popn, reduced energy supply, reduced microbial protein

Milk Fat Percentage

- Fibre Acetate
- Non structural carbohydrates
- Mobilisation of body fat
- Ketosis
- Feeds and supplementary fats
- Heat stress

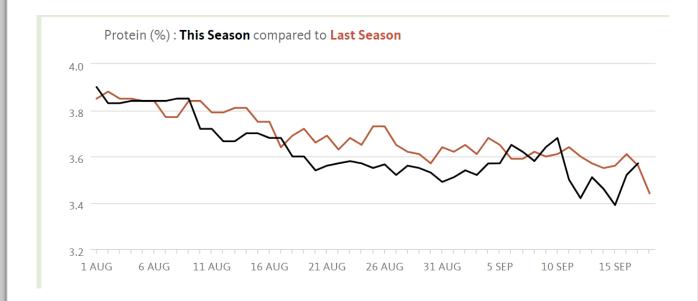
Recent rain in the BOP (9th/10th/11th sept)

- Low lying farm
- Previous August wet feeding out silage. Farmers comment – not the best silage. Energy density of the diet likely reduced.
- Second lot of rain (110mm) further feed deficit



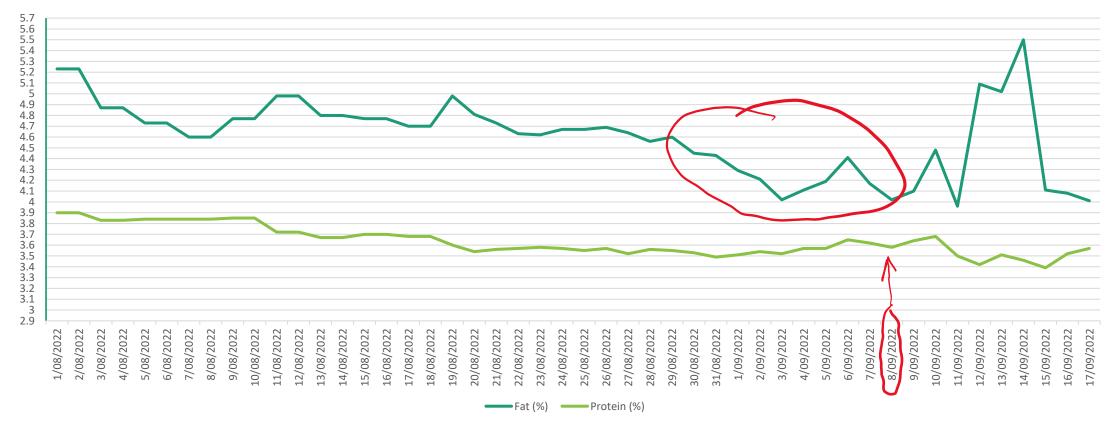
BOP farm – low lying

- Struggling with pasture quantity
- Feed pad -10.5kgDM/cow/day
- Introduced bypass fats early sept
- Rains 9th-10th-11th sept OAD for three days and cows diet predominantly grass baleage and concentrates on feed pad.

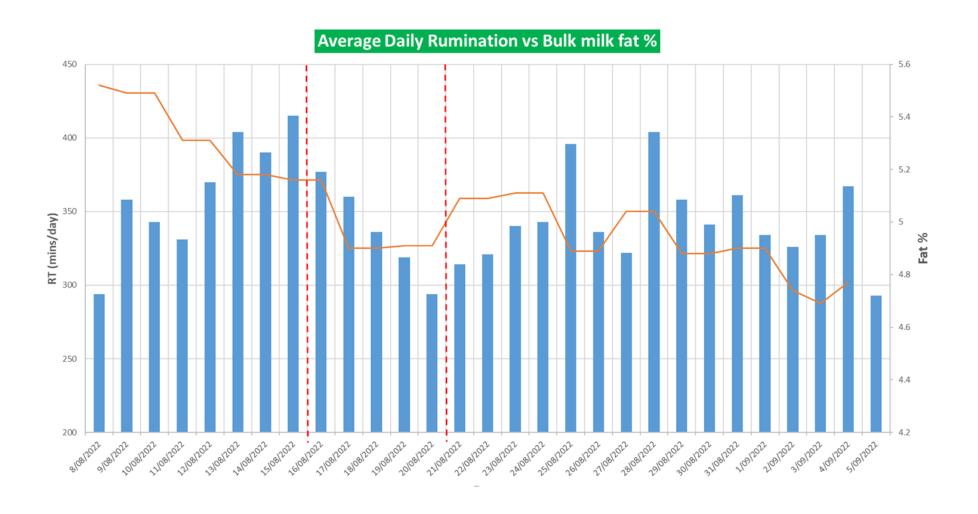


BOP farm – low lying cont...

Milk Protein and Fat Percentage



Milk Fat percentage



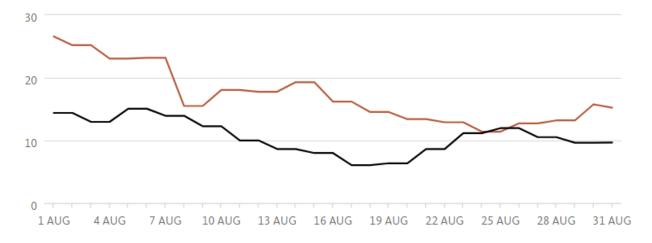


- Relevancy?
- Lower crude protein pasture/N caps
- Rumen efficiency vs protein deficit?
- Are the numbers thrown around relevant?
- SARA?

Milk urea

- Pasture samples taken
- Analysis of the diet with DietCheck software
- Use as an indicator to look closer
- How low is too low?





North Canterbury Farm

17th June 2022

Sample Name: Lab Number: Sample Type:		Silage	1.11	3.3	2.4	M9	2.6
			3015539.2 Mixed Pasture	3015539.3 Mixed Pasture	3015539.4 Mixed Pasture	3015539.5 Mixed Pasture	3015539.6 Mixed Pasture
Acid Detergent Fibre (seq)*	%DM	26.3	19.2	18.1	20.5	19.3	20.0
Neutral Detergent Fibre*	%DM	43.4	35.7	35.4	35.3	34.3	35.2
Lignin*	%DM	5.1	6.7	8.0	7.1	7.3	7.4
Ash*	%DM	10.5	10.2	11.8	10.5	10.3	11.0
Organic Matter*	%DM	89.5	89.8	88.2	89.5	89.7	89.0
Soluble Sugars*	%DM	6.2	13.6	13.9	13.0	24.6 #1	19.4 #1
Starch*	%DM	0.6	< 0.5	1.7	< 0.5	< 0.5	0.9
Crude Fat*	%DM	3.8	4.1	4.6	3.9	4.3	4.4
Digestibility of Organic Matter Dry Matter (DOMD)*	rin %	70.9	79.2	80.7	76.4	81.4	80.8
Metabolisable Energy* N	J/kgDM	11.3	12.7	12.9	12.2	13.0	12.9

22nd August 2022

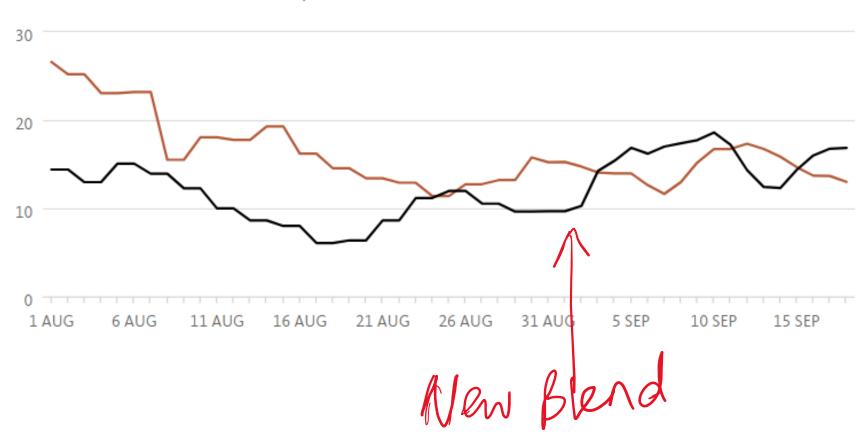
Plant Analysis Results				
Sample N	2.2	3.2		
Lab Nu	3057409.1	3057409.2		
Sample	Mixed Pasture	Mixed Pasture		
Sample Type Code:		P1	P1	
Crude Protein*	%DM	19.8	16.3	
Acid Detergent Fibre (seq)*	%DM	20.3	19.4	
Neutral Detergent Fibre*	%DM	37.2	34.2	
Lignin*	%DM	5.2	3.9	
Ash*	%DM	9.4	8.9	
Organic Matter*	%DM	90.6	91.1	
Soluble Sugars*	%DM	21.2 #1	20.4	
Starch*	%DM	< 0.5	< 0.5	
Crude Fat*	%DM	3.7	3.5	
Digestibility of Organic Matter Dry Matter (DOMD)*	in %	77.0	79.2	
Metabolisable Energy* MJ	/kgDM	12.3	12.7	
_				
Non Structural Carbohydrate*	%DM	29.8	37.1	

Diet name:	Milkers 25.8.22	Milkers 25.8.22 OG BLEND	
Feeding plan (kg DM/head/d)			
Maize silage larundel Nth Eyre Rd may	1.500	1.500	
Maize Silage Larundel West Stack may	1.200	1.200	
2.2	11.000	11.000	
FodderSugar Beet bulbs (NZ)	1.000	1.000	
Barley	0.516	0.516	
Molasses (Cane)	0.375	0.375	
Soyabean Hulls	0.270	0.630	
Tapioca GrainCorp		0.270	
Dist. Grains Maize	0.623	0.445	
Soya 48	0.900	0.450	
D 0 D 00/40	0.050	0.050	

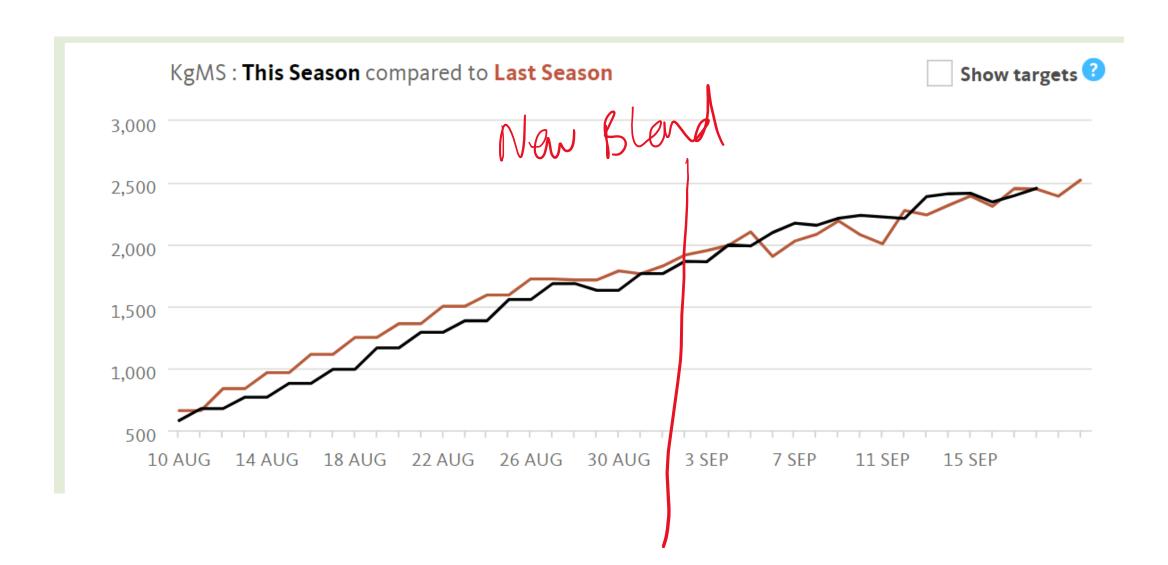
Diet name:	Milkers 25.8.22	Milkers 25.8.22 OG BLEND
NDF (%DM)	33.3	34.2
NDF from Forage (%DM)	29.4	29.4
Nutrients (units as stated)		
DM intake (kg/d)	17.7	17.7
ME (M/D)	12.1	12.1
ME (% req)	120	119
Milk from ME (kg)	25.0	24.9
Protein (%DM)	18.3	17.0
MP -N (g/d)	2240	2065
MP -E (g/d)	1988	1915
MP (limiting) (% req)	118	114
Milk from MP (kg)	24.5	23.4
Starch (%DM)	7.3	8.0
Sugar (%DM)	19.8	19.6
Starch plus Sugar (%DM)	27.1	27.7

Milk urea

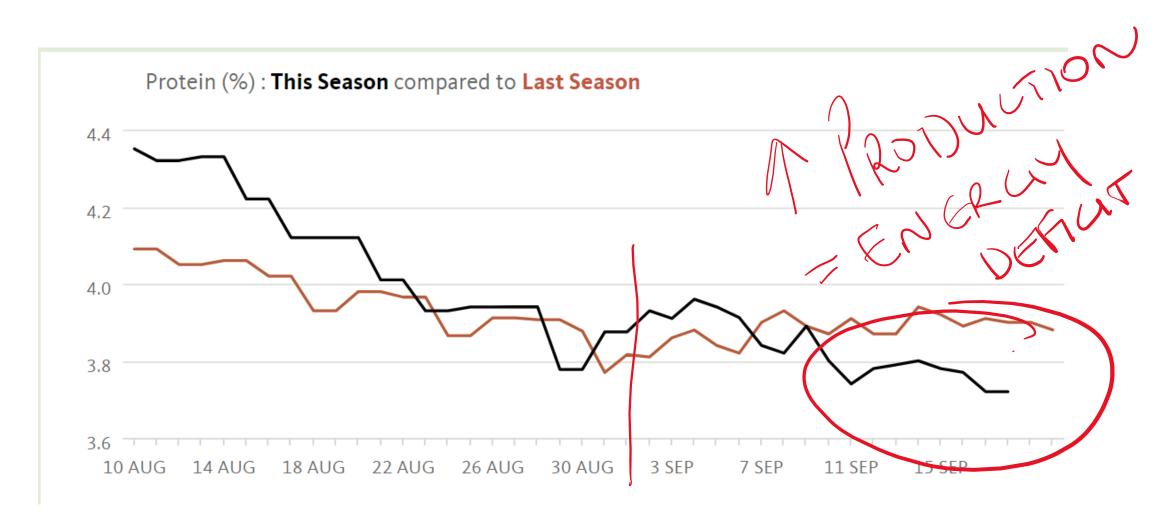
Milk Urea: This Season compared to Last Season



Milk production changes



Next challenge...





- What are your trigger points for looking further into the situation?
- What do you commonly see at this time of the year?
- Words of wisdom
- Questions to ask the farmer
- Things to look out for