



## Supplement Use in a Variable Climate Project – NARF (Dargaville)

This project compares three farms with different supplement use on production, profit and environmental impact. The three farm systems are:

- 1. Pasture Only Farm No imported supplement 2.7 cows/ha
- 2. PKE Only Farm PKE used to fill feed gaps within milk FEI limits 3.1 cows/ha

3. PKE Plus Farm - PKE used until milk FEI limit and then other supplements added – 3.1 cows/ha

This project is funded by DairyNZ, MPI (Sustainable Farming Fund) and Hine Rangi Trust.

14 <sup>th</sup> August 2020	Pasture Only Farm	PKE Only Farm	PKE Plus Farm
Farm Area (ha)	28	28	28
Average Pasture Cover (kg DM/ha)	2199	2330	2166
Pasture Growth (kg DM/ha/day)	43		
Rotation Length (days)	45	49	44
Cows in milk/total cows	65/78	69/89	74/89
Production/cow/day (kg MS)	1.61	1.84	1.82
Production/ha/day (kg MS)	3.22	3.79	4.39
Production/ha STD – (kg MS)	64	68	91
Supplement Fed (kg DM/cow/day)	2.0 silage	2.6 PKE	2.7 PKE
Supplement Fed 20/21 STD (kg DM/cow)	102 Silage	113 PKE	126 PKE
Average Body Condition Score	Milkers 3.9	Milkers 4.2	Milkers 4.0
Proportion cows under BCS 4.0	36%	16%	21%
Worry Score (1 = Low, 10 = High)	6	5	5
Nitrogen – Season to Date (kg N/ha)	54	49	44
Milk FEI	A	A	A
Rainfall (mm last 2 weeks)		22 mm	

## **CURRENT MANAGEMENT**

- New grass paddocks coming into round now with dry soil conditions allowing first grazings on all
- All farms are on top of grass and both PKE farms will hold their rounds at 80m<sup>2</sup>/c and increase PKE to 5-6kg/c/day. If FEI becomes challenging then the PKE Plus farm will swap in some DDG.
- The Pasture Only herd has lost significant condition and we estimate feeding levels at around 15kgDM/c/d including 2kgDM silage. There are only 20 bales silage left so we are reluctant to increase the silage feeding above half a bale yet in case it gets wet in Sept. Instead we will increase pasture allocation to 100m<sup>2</sup>/c which will increase intakes to around 17kgDM/c and decrease rotation to 40 days. In addition the whole herd will go on OAD milking to limit weight loss until the spring pasture flush arrives.
- The plate meter is overestimating pregrazing covers with strong Italian presence. This happens every year so we monitor residuals, condition loss and milk flow to estimate intakes and make decisions.
- Sustain at 90kg/ha and Progibb continue to be used to maximise pasture growth during this crunch period. Soil conditions are outstanding for this time of year and this is really helping all farms.

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