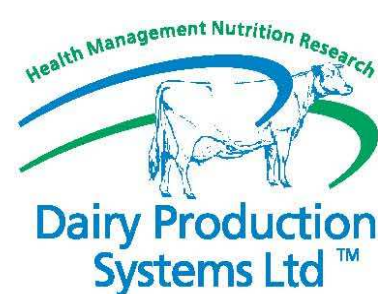


Tuesday, 1 August, 2017



Nick Tomsett
Otautau

Peter Cook
Oil Seed Products

Dear Nick, Jordon & Peter

Points:

1. Pasture Cover 2200 kg DM/ha and Soil temperature 6.0 degrees
2. The cows are looking excellent
 - a. BCS 5.45 generally very good but 7% were 4.5 and below the rest
 - b. Rumen fill 5/5
 - c. Faecal score 3/5 some variation as the cows are adjusting to the meal feeders.
 - d. Some are showing evidence of low a protein diet from the poor silage quality
3. Live weight for the herd on genetic maturity is 530 kg LWT.
4. SOA 150 kg/ha on paddocks under 2000 and then following the cows until September 15th then
5. DAP 150 kg/ha Sulphurgain Pure
6. Cows are moving towards the ration above.

Supplements on hand

Grass Silage	Stack	94t DM	
July 9th	Stack	40t DM	
	30 x 240 kg		
Oct 10th	Stack	8t DM	
	22 x 240 kg		
2017			
May 9th		100 tDM	(May 20th)
Aug 1st		60t DM	

Wraps

May 9th	40 x 240 kg	8t DM
Aug 1st	30 x 240 kg	7.3t DM

Hay

40 x 10s	10t
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2017-18

Wheat	\$402/t DOF	263t
DDG	\$407/t DOF	226t
PKE	\$216/t DOF	103t

Production History

2015	152,086 kg MS	551 kg MS/cow	1950 kg MS/ha
2016	166,824 kg MS	607 kg MS/cow	2158 kg MS/ha
2017	175,000 kg MS target		

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Stock Inventory

Total cows	296
Calved	17
Springers	143
Dires off	136
R2	83
R1	62
Beefies	5

Ration

Effective area	77 ha
Grazing area	77 ha
Rotation	38 days
Pasture demand	36
PGR	35+ kg DM/ha/day

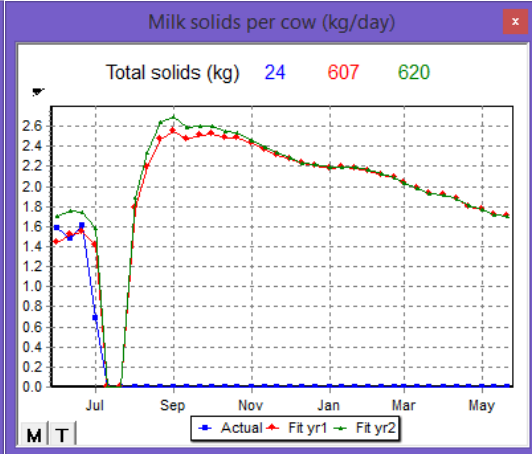
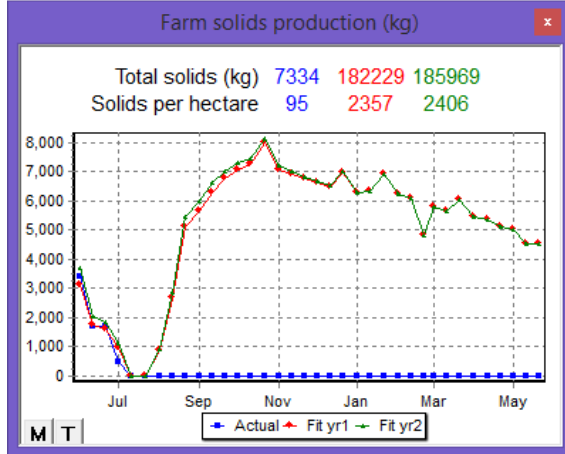
Herd	Springers	Colostrums	Milkers
Number	143	17	
Area per day			
Area per cow sqm	25sqm	120sqm	120sqm
Pre graze mass	2700	2700	2700
Post graze mass	1500	1800	1600
Harvest	1200	1100	1100
Pasture intake kg DM/d	10.5	12.0	14.0
Wheat (DM 90%)	1.5	3.0	3.0
DMI	1.35	2.7	2.7
DDG (DM 90%)	1.0	2.0	2.0
DMI	0.9	1.8	1.8
SBM (DM 90%)	0.5	1.0	1.0
DMI	0.45	0.9	0.9
Grass Silage			
DMI	7.0	1.0	1.0
Wraps			
DMI			(1.0)
Hay			
DMI	1.0		(0.5)
Total DMI	12.0	21.0	24.0
Salt	20g	40g	40g
MgO	20g	40g	40g
CaS	50g	100g	100g
Lime Flour			(150g)
In line			
DairyMin 5		5mls	
Prodairy		10mls	
MgC		35g	

Production Budget for OSP DEMO FARM

Blue Actuals to date Red Projections for 2017-18

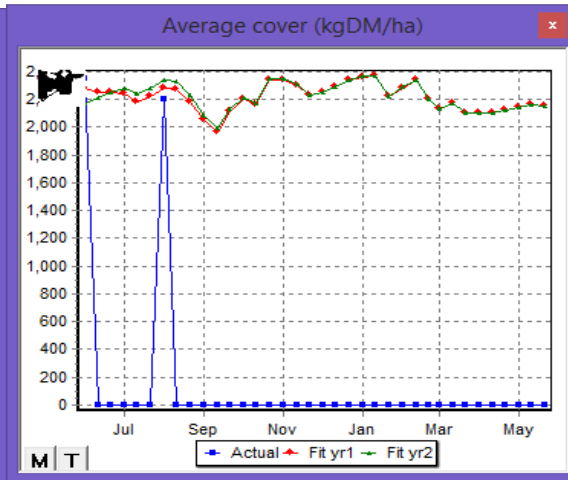
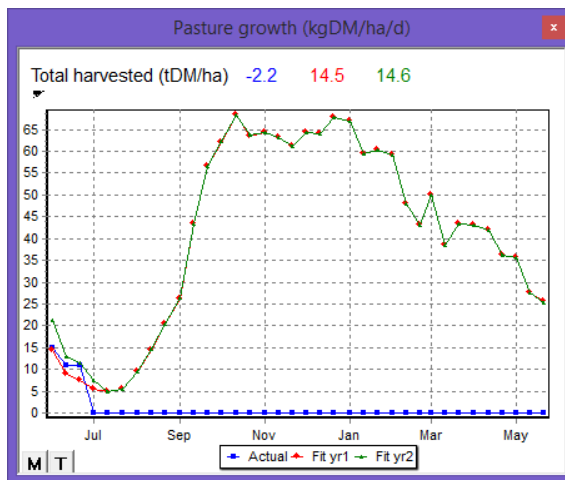
Milk Solids

Per Cow



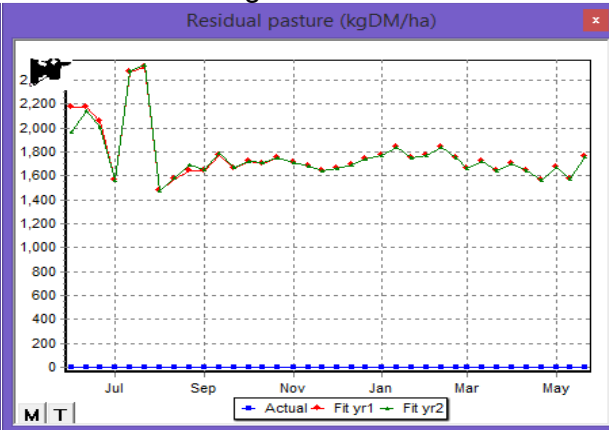
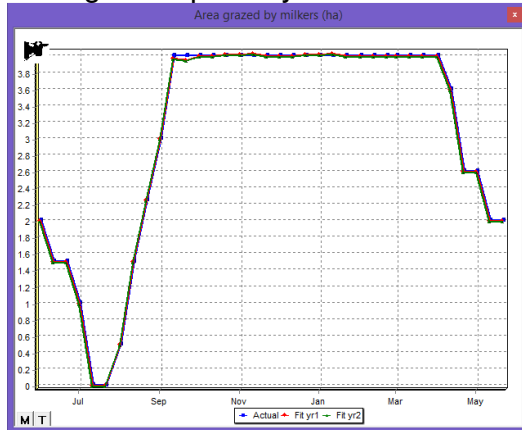
Pasture Harvested

Predicted Pasture Cover

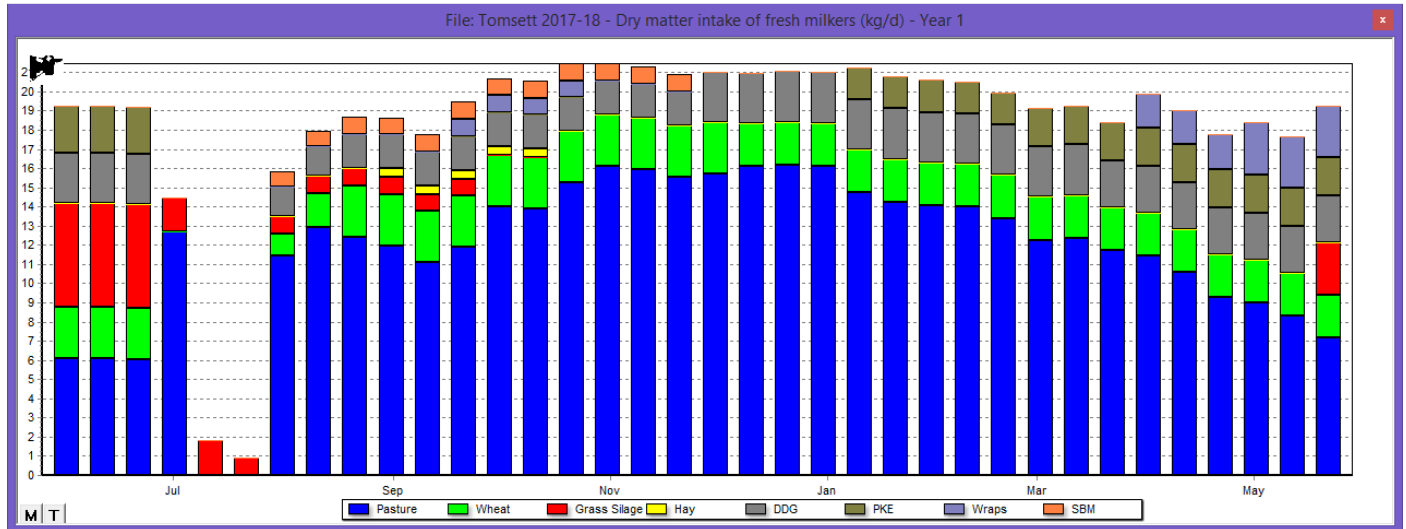


Area grazed per day

Grazing residuals



DMI 2017-18



Summary

 **total** Tomsett 2017-18-1

Farm area (ha)	77.3
No of cows	300
Solids (kg)	182229
Dry matter cut (t)	30.6
Nitrogen used	19
\$/kg Solids	6.72
Milk Income	1224035
Feed costs	387798
Inc less feed	836237
Variable costs	509313
Gross margin	714721
Wheat (t)	232
Grass Silage (t)	92
Whole Crop Silage	0
Hay (t)	12
DDG (t)	224
CDS (t)	0
PKE (t)	95
Kale (t)	0
Wraps (t)	53
SBM (t)	30
Feed 11 (t)	0
Feed 12 (t)	0

Calving Cows

- 1) Cows onto springer ration from 21 days out from calving
- 2) Calves picked up twice a day at least and more if very cold or in the mud.
 - a) Tincture iodine spray both in paddock and again at the barn, up against the skin
 - b) Calf trailer keep the straw clean and use Vikon to disinfect
 - c) 3-4mls Betamox LA any calves with dirty navels (1ml/10 kg LWT)
 - d) Calves to get 3 litres of **warm first milk colostrum** ASAP and again 12 hours later
 - e) Dull dopey calves pick me up mix
 - i) Prolajecet B12 2000 1ml
 - ii) Ketofen/Caprieve 1ml
 - iii) Hideject ADE 1ml
- 3) Calves that are very cold warm up, Warm water in a wheel barrow works
- 4) Calved cows are drafted off **twice a day** and milked within 12 hours of calving
 - a) Quarters checked and milked out ASAP after calving
 - b) Teat spray before and after milking
 - i) Preferably a Chlorhexidine spray full strength and glycerine
 - c) B12 plain injection 10-20 mls
 - d) Heifers Oxytocin 4mls at first milking to ensure let down and a feeling of euphoria at their first milking calms them down. Allow 1-2 minutes to work before you touch her.
 - i) If in pain use Metacam as an -inflammatory
 - (1) Difficult calving
 - (2) Swollen udders
 - (3) Mastitis
 - e) Calving drench or bag any at risk cows with bag CBG 37% or Calcium bolus
 - i) Twins
 - ii) Older better conditioned higher producing cows
 - iii) Stressed cows
 - f) Freshly calved cows must get a good feed of milkers ration the day they calve the calcium intake on day 1 is critical.
- 5) Into the colostrum herd
- 6) Colostrums
 - a) Avoid effluent paddocks less palatable pasture
 - b) Milked OAD for 5-8 days
 - c) Check all quarters every daily
 - d) Teat spray before and after milking
 - e) To get PKE/Ration in a trailer (Lime Flour) in the paddock next to the water trough
 - f) Twins to stay there until calving is over
- 7) Fence away from the gate way but do not restrict intakes
 - a) Block Graze
 - b) Wrap silage ad lib in paddock works well
 - c) Graze to 1800-1900 residuals then move on
 - d) They can graze the same **non-effluent area** over and again or use the springers to graze behind.
- 8) MF/downer cows
 - a) Glucalpos i/v add Catosal 10-20ml into the bag
 - b) Calpro37.5% in vein or half in the vein rest under the skin
 - c) Calpor37.5% under skin if not already
 - d) Dextrose i/v 250-500mls if a milking cow and or groggy
 - e) Calving drench of Calcium bolus if able to swallow
 - f) Do not milk out for 24-48 hr then once a day for 4-5 day
 - g) Anti-inflammatory drugs if down for a time these big cows are hard to get up
- 9) Ketosis Cows downer
 - a) Glucalpos/max i/v add Catosal 10-12 ml
 - b) Calpor37.5% under skin if not already
 - c) Dextrose 40% ½ to 1 bag in the vein

- d) Ketol 500 mls daily for 3 days
 - e) B12 20mls
 - f) Do not milk for 1-2 days
- 10) Inflammation over calving.
- a) All cows go through an inflammatory period over calving it should last only 48-72 hours. Those cows that are in trouble it lasts 2-3 weeks and this affects the cows for the whole season with a higher risk of problems later (empty, death, culling, disease)
 - b) So any cows with
 - i) Acute Mastitis swollen
 - ii) A difficult calving more than just a simple pull and live calf.
 - iii) Swollen udders in heifers
 - iv) Acute Metritis
 - c) To get Metacam/Capreive as well as dealing with the issue at hand

SAD cow recovery Program

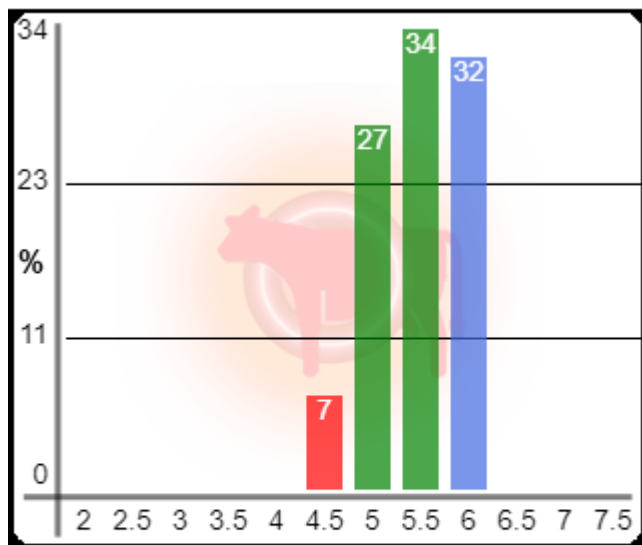
Observe cows very closely over the initial post calving period (3 weeks) any cows looking off colour or Sick And Depressed (SAD) should go onto the recovery program. This means dull, sunken or puffy eyes, hollow gut, droopy ears, rough dry coat, and rapid weight loss. If acute can be grumpy or nervous in disposition. If very acute sudden death results.

Any cow with her gut narrower than her udder goes onto once a day milking to reduce energy demands on the cow. If severe then do not milk her at all simply check for mastitis. Once the gut is back to being wider than the udder i.e. she is eating well then she can be milked twice a day again. Cows can be like this for up to 2 weeks if she is very severe, they will perform better over the season if given a chance to recover properly.

1. Treat concurrent conditions check for the 3 Ms; Mastitis Milk Fever Metritis
2. MPG to be given 500 mls daily for 3 days until eating well
3. B12 plain 20mls can be given safely every week
4. Place back in the colostrum mob if not already there
5. Milk once a day until eating well

Current Position

Cow Condition	Average	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
2015									
Aug 1 st	5.0								
Oct 21 st	4.6		1%	19%	43%	32%	5%		
2016									
Mar 3 rd	4.7								
July 9 th	5.28				7%	39%	44%	9%	
Oct 10 th	4.76		1%	14%	29%	44%	10%	1%	
2017									
May 9 th	5.18			1%	17%	38%	35%	6%	3%
Aug 1 st	5.45				7%	27%	34%	32%	



Tonsett_Nick_DPS - Springers

Tally	41	Avg Score	5.45
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Rumen Fill	Average	1.0	2.0	3.0	4.0	5.0
Oct 21 st	4.6			2%	36%	62%
2016						
July 9 th	5.0					
Oct 10 th	4.6					
2017						
May 9 th	5.0					
Aug 1 st	5.0					

Pasture Cover

Jun 1 st 2015	1710 kg DM/ha	Soil temp 8 degrees
July 10 th	1900 kg DM/ha	Soil temp 6 degrees
Aug 1 st	1900 kg DM/ha	Soil temp 6.5 degrees
Oct 21 st	2275 kg DM/ha	Soil temp 11 degrees
Dec 9 th	2300 kg DM/ha	Soil temp
Mar 1 st 2016	2250 kg DM/ha	Soil temp 16 degrees
July 9 th	2250 kg DM/ha	Soil temp 4 degrees
Oct 10 th	2600 kg DM/ha	Soil temp 12 degrees
May 9 th 2017	2200 kg DM/ha	Soil temp 10 degrees
Aug 1 st	2200 kg DM/ha	Soil temp 6 degrees

Historical Dairy

2015

June 1st 140 cows on crop
July 25th Culled 2 cows Abortions
July 31st 45 cows home
Aug 1st 14 hfrs home
Aug 10th 100 cows home
Aug 10th Culled 3 cows Abortions
Aug 15th SOA 12t applied
Aug 20th 71 cows off (away until 27th)
Aug 27th 50 lates off (away until Sep 7th)
Sep 15th Urea 6t
Oct 3rd R3 338 kg LWT
Oct 10th Culled 2 cows
Oct 21st Tail painted herd
Oct 22nd PSM 280 cows BCS 4.6
Oct 25th Urea to follow the cows 80 kg/ha
Nov 1st Silage harvested 7 ha Stack brought in 60t DM @ 30c/kg DM covered
Nov 4th Super10 400 kg/ha whole farm 23t
Nov 9th Culled 4 cows
Dec 4th Grazed new grass
Dec 5th Urea following the cows 55 @ kg/ha 72 ha
Dec 7th Bulls into the herd
Dec 20th Culled 3 cows
Dec 20th Wraps taken 50 x 12s off 8 ha
Dec 30th Scanned herd

2016

Jan 10th Bulls out
Jan 15th Urea following the cows 80 @ kg/ha 72 ha
Jan 10th PKE 11t
Jan 31st PKE ended
Feb 1st DO 2 cows
Feb 10th Liners changed
Feb 20th DAP 145 kg/ha whole farm (12t)
Feb 23rd Scanned rechecks 16% MT
Feb 20th Herd 493 kg LWT
Mar 1st Herd 483 kg LWT (R3 403 kg LWT)
Mar 10th Lime 400 kg/ha whole farm
May 10th Herd 510 kg LWT
Apr 9th Urea 90 kg/ha following cows
Apr 15th Wraps made 600/ha 20 bales from 8 ha
May 12th Urea ended 10t applied
May 12th Culled 45 cows
May 27th Culled 13 cows
May 31st Culled 8 cows
May 31st Returned 11 lease cows
June 1st Milking 196 Dries 0 Hfrs 39
June 1st Hfrs 39 grazing off farm next door
June 5th Scanned herd 6 MTs
June 8th DO 80 cows DCT/TS (Dryclox DC)
June 9th Dries onto the crop with wraps
June 24th DO herd DCT/TS 28 did not dry off well
June 24th Brought 50 R3 June 1st cows to come home Aug 1st
June 24th Grazed off 50 cows LC
Aug 1st R3s to come home (40)

Aug 15th SOA 150 kg/ha following cows 12t
 Aug 15th LC home (35)
 Aug 24th LC home (15)
 Sep 17th First round ended
 Sep 20th Calf milk 100 litres
 Sep 20th DAP 150 kg/ha Sulphurgain30 20 kg/ha 13.1t
 Sep 22nd Pre-graze mowing started
 Oct 9th Baleage cut 7 ha 50
 Oct 10th LWT average 470 kg
 Oct 25th Culled 5 cows
 Oct 27th Sustain 6t 70 kg/ha
 Nov 10th New cup/liner Milkrite air admission in of the shoulder of the liner
 Nov 11th Milking 273
 Nov 15th Silage bought 29c/kg DM 100t DM
 Nov 15th Silage added to stack
 Nov 17th Sustain 5.1t
 Dec 1st 485 kg LWT Hfrs 445 kg
 Dec 16th Sustain 6t
2017
 Jan 9th DAP 11.2t
 Jan 15th Silage 5 ha wraps 50
 Feb 5th Lime 1t/ha whole farm
 Feb 17th Sustain 6.1t
 Mar 9th Sustain 6t
 Mar 15th Silage 5 ha wraps 45
 Mar 20th Pre-graze mowing ended
 Apr 3rd Sustain 5.25t Mo
 May 5th Urea 4t
 May 9th LWT 530 kg Hfrs 500 kg
 May 25th Test the herd with CellSense to find HISCC for Cepravin DC
 June 10th DO 100 cows DCT/TS CloxAm500 Teat Seal HISCC Cepravin DC/TS
 June 12th Sent dry cows to Manapori
 June 28th TS heifers
 July 5th DO off 114 remaining cows DCT/TS
 July 25th Cows home 100 from Manapori
 July 24th 83 heifers home 20 have gone to neighbour's crop
 Aug 1st 17 cows calved

Next visit October 2017.

Regards

Bryan McKay
 Dairy Production Systems Ltd