

Backtrack Dairies

Week ending 10TH January 2018

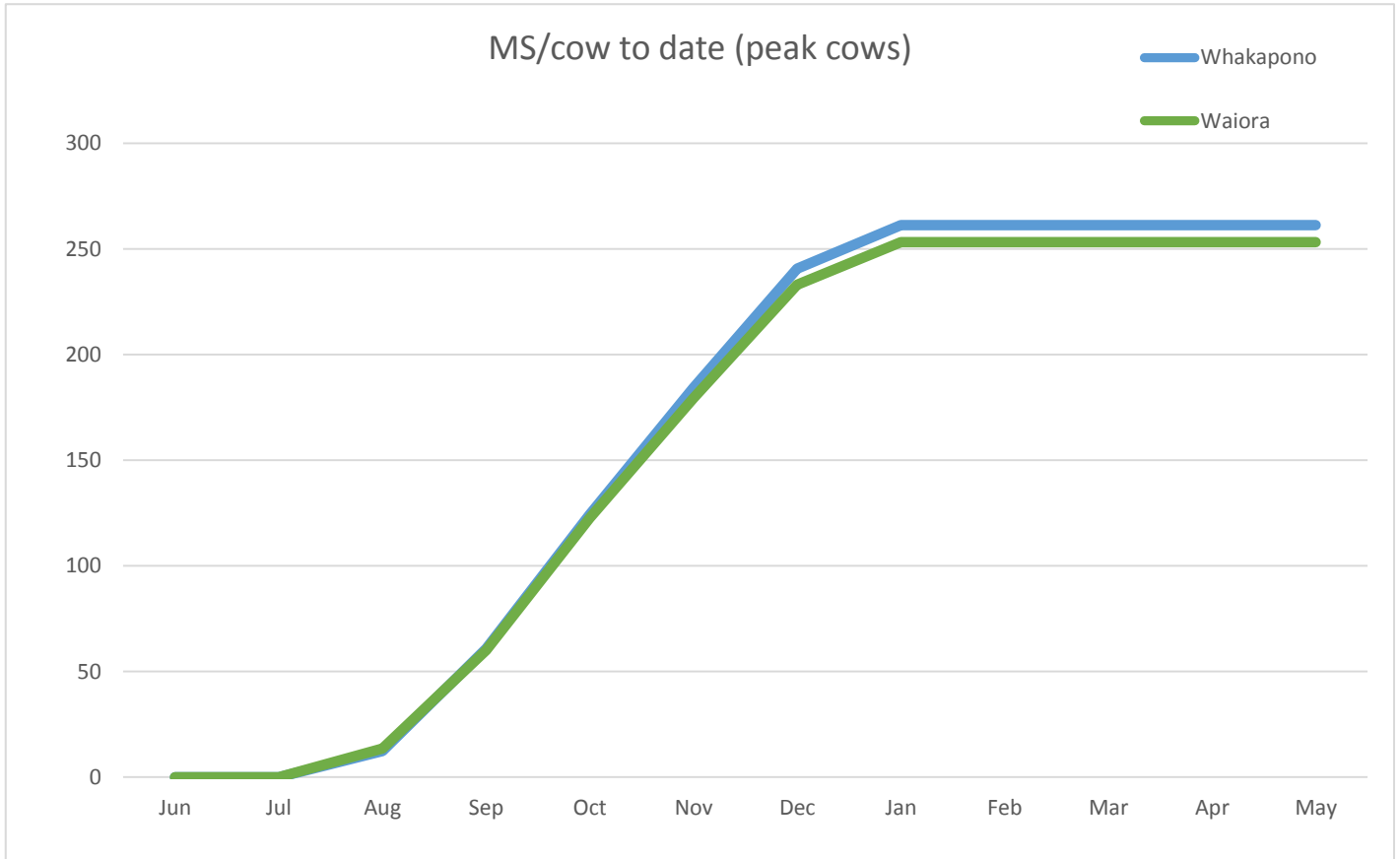
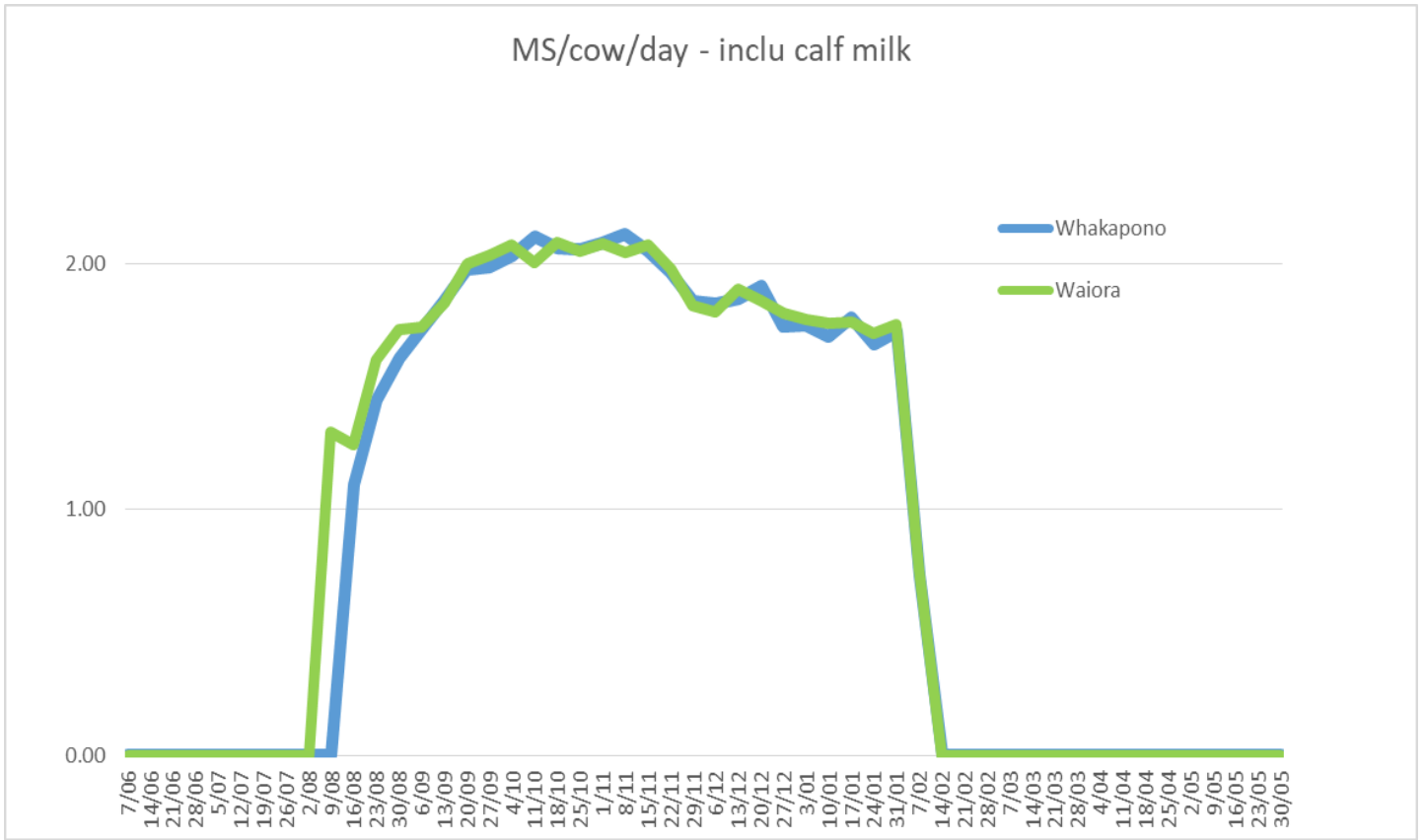
Backtrack Dairies

Two farming systems. One Kinsey-Albrecht (Whakapono) and one conventional (Waiora). Both farms have a stocking rate of 3.3 cows/ha at peak.

| Week Ending | 3/01/17 | | 10/01/18 | |
|---|------------------|---------------|------------------|---------------|
| Backtrack Dairies | Whakapono | Waiora | Whakapono | Waiora |
| Farm grazing ha | 155 | 210 | 155 | 210 |
| Peak Cows | 523 | 697 | 523 | 697 |
| Stocking Rate (cows in milk/ha) | 3.3 | 3.2 | 3.3 | 3.1 |
| Cows in Milk | 521 | 682 | 518 | 659 |
| % of cows in Sick Herd | 0.2 | 0.5 | 0.2 | 1.4 |
| Cows in Vat | 520 | 678 | 517 | 649 |
| Ave. Pasture Cover | 2363 | 2428 | 2371 | 2429 |
| Ave. Pasture Growth | 44 | 37 | 40 | 44 |
| Area Grazed | 8.65 | 8.11 | 9.75 | 9.75 |
| Grazing Interval | 18 | 26 | 18 | 22 |
| Pasture Intake (est kgDM/cow) | 20 | 15 | 20 | 20 |
| Grass Silage Fed (kgDM/cow) | 0.0 | 0.0 | 0.0 | 0.0 |
| Grain/PKE Fed (kgDM/cow) | 1.0 | 1.0 | 1.0 | 1.0 |
| Total Fed KgDM/cow | 21 | 16 | 21 | 21 |
| Milk Solids (Kg/cow/day)(inclu calf milk) | 1.75 | 1.72 | 1.70 | 1.76 |
| MS/ha/day | 5.85 | 5.56 | 5.66 | 5.49 |
| Nitrogen applied (kg N/ha) | 0 | 0 | 0 | 0 |
| Rainfall (mm for week) | 8 | 8 | 60 | 60 |
| Irrigation applied (mm for week) | 18 | 20 | 8 | 9 |
| Soil Temperature at 9am | 17 | 17 | 18 | 18 |
| Soil Moisture (between 65-76%) | 100 | 77 | 106 | 81 |
| Cell count (000's) | 105 | 143 | 106 | 131 |
| Mastitis Cases (%) | 0.0 | 0.3 | 0.0 | 0.3 |
| Lameness Cases (%) | 0.0 | 0.4 | 0.0 | 0.4 |
| Body Condition Score | 4.4 | 4.4 | 4.4 | 4.4 |
| Totals To Date | | | | |
| Milk Solids to factory | 120757 | 156509 | 126922 | 164615 |
| Milk Solids inclu calf milk | 128623 | 166022 | 134788 | 174128 |
| MS/ha | 776 | 742 | 816 | 780 |
| MS/cow (peak cows)(inclu calf milk) | 246 | 238 | 258 | 250 |
| Nitrogen applied (kg N/ha) | 71 | 88 | 71 | 111 |
| Supplements Fed (kg/cow) | 345 | 350 | 351 | 354 |
| Deaths % | 2.5 | 2.7 | 2.7 | 2.7 |
| Culls % | 1.1 | 1.3 | 1.7 | 2.2 |
| Mastitis % | 11 | 9 | 11.3 | 9.3 |
| Lameness % | 4 | 4 | 4.2 | 5.2 |

*No farm walk done this week so pasture cover and growth average between the last week and the next week.

Production Graph



Mating

| Timeframe of Mating | Dates |
|------------------------------------|---------------------------|
| Planned Start of Mating | 29 th October |
| Metri-checking & PG 1 | 22 nd November |
| PG 2 | 1 st December |
| Change to short gestation hereford | 7 th December |
| AI Finished | 16 th December |
| Bulls entered herd | 16 th December |
| Bulls removed from herd | 8 th January |
| Pregnancy Scanning 1 | 1 st February |
| Pregnancy Scanning 2 | 1 st March |

The plan is to use kiwi cross for most cows and friesland straws over obvious jersey cows. The above dates are when everything is planned to happen. These dates will get updated as we get to them.

Animal Health

| | Whakapono | Waioira |
|-----------------------|------------------|----------------|
| No of Mastitis Cows | 0 | 2 |
| No of Lameness Cows | 0 | 3 |
| % of Mastitis to date | 11 | 9 |
| % of Lameness to date | 4 | 5 |

Pastures

Pasture Quality for this week

| | Whakapono | Waiora |
|----------------|-----------|--------|
| DM% | 17 | 18 |
| Ryegrass (%DM) | 73 | 78 |
| Clover (%DM) | 26 | 22 |
| Weeds (%DM) | 1 | 0 |
| Herbs (%DM) | 0 | 0 |

Feed Wedges – No Feed Wedge this week

Fertiliser Applied

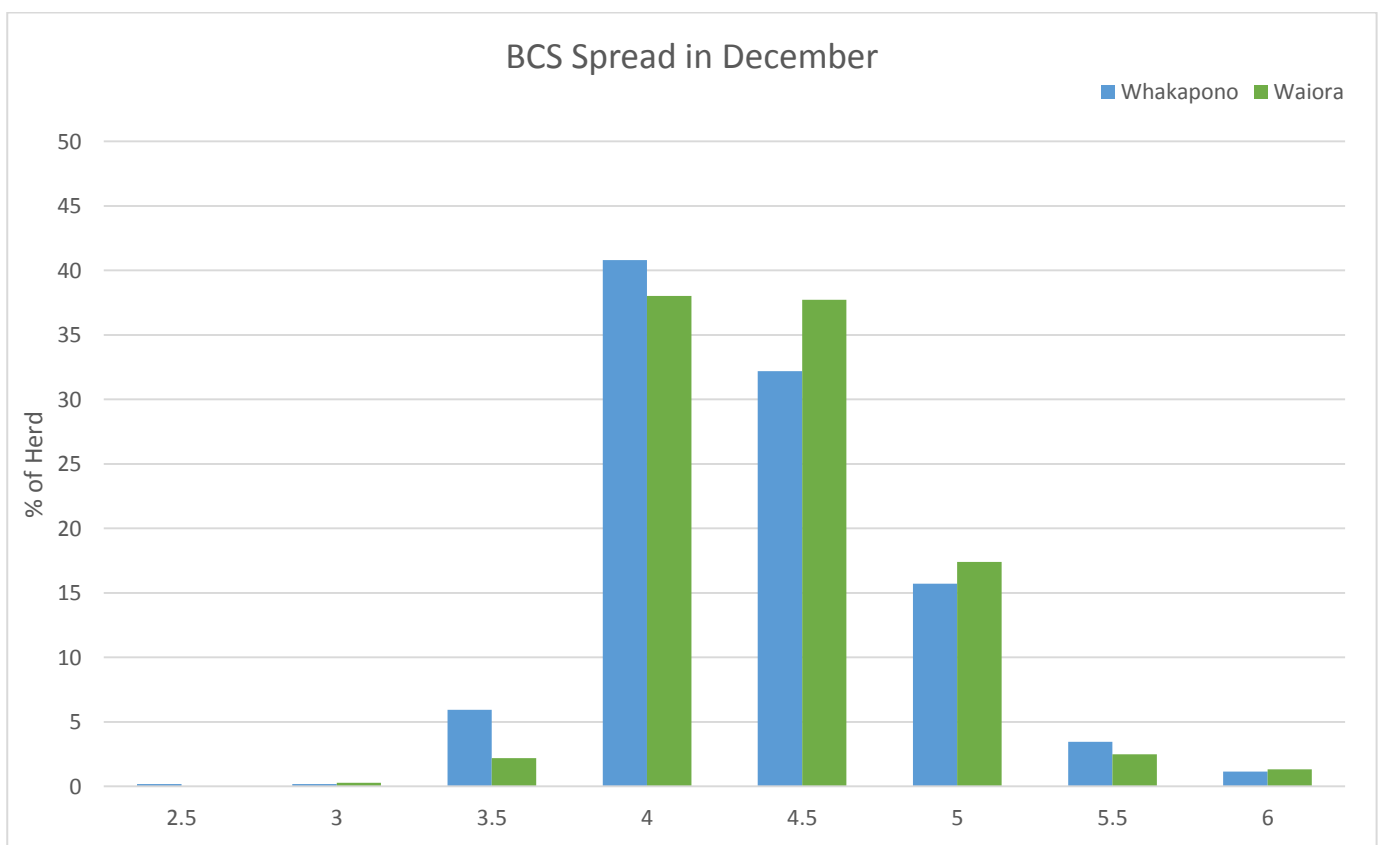
Whakapono – Healthy Soils

| Month | N | P | K | S | Mg | Ca |
|------------------------------|----|----|----|-----|----|-----|
| August | 9 | 0 | 0 | 11 | 0 | 0 |
| September | 18 | 0 | 0 | 20 | 0 | 0 |
| October | 13 | 19 | 28 | 52 | 0 | 115 |
| November | 22 | 14 | 37 | 56 | 0 | 87 |
| December | 9 | 0 | 10 | 13 | 0 | 0 |
| Total to Date Applied | 71 | 33 | 75 | 152 | 0 | 202 |

Waiora - Ballance

| Month | N | P | K | S | Mg | Ca |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| August | 27 | 0 | 0 | 14 | 0 | 2 |
| September | 13 | 0 | 0 | 7 | 0 | 1 |
| October | 18 | 9 | 9 | 12 | 7 | 22 |
| November | 21 | 11 | 11 | 14 | 8 | 27 |
| December | 9 | 0 | 0 | 0 | 0 | 0 |
| Total to Date Applied | 88 | 21 | 20 | 47 | 15 | 52 |

Cow Condition



Cows were assessed at the start of December. Average condition is has slightly improved on Whakapono to 4.4 and remained the same on Waiora at 4.4. 6% of the herd on Whakapono was below CS 4.0 and there was 2% below CS 4.0 on Waiora. So for both farms an improvement in the bottom end. Both farms tracking along well.

Herd Test Results

| Farm | No. of herds | Herd Size | Milk (L) | Milkfat (%) | Milkfat (kg) | Protein (%) | Protein (kg) | Milk Solids (kg) |
|------------|--------------|-----------|----------|-------------|--------------|-------------|--------------|------------------|
| Whakapono | | 438 | 27.6 | 4.25 | 1.17 | 3.92 | 1.08 | 2.25 |
| Waiora | | 570 | 27.1 | 4.39 | 1.19 | 3.86 | 1.05 | 2.24 |
| Canterbury | 157 | 659 | 26.4 | 4.41 | 1.16 | 3.72 | .98 | 2.15 |

Results are from the 9th and 10th of October.

Management Summary

- Rotation length at present is at 18-20 days.
- Irrigation continues to keep up with dry period.
- Irrigation for k-lines and pivots as per moisture meter.
- 60mm of rain this week. Steady constant rain for 2 days.
- Maintenance fertiliser being put on. Pasturemag 5K on Waiora at a rate of 401kg/ha. This includes 1kg/ha of selenium. Whakapono has put on annual fertiliser with nitrogen.
- The plan for fertiliser plan for this season is to have both farms put on no more than 100kg/ha of N for the season.
- Waiora is now going to exceed this as the first round of fertiliser has been put on with a different product than what was initially planned. Interestingly it did not lift the cover to above expected levels.
- We have been pre-mowing paddocks to keep on top of pasture quality. All of Waiora has been mown and nearly all of Whakapono apart from 2 paddock has been mown. Ironically the silage paddocks need to be done again.
- We have oversown all the paddocks that we calved on – with winter active ryegrass and plantain.
- Sprayed out Californian thistles on N22 and N24 – didn't want to use round up so used grandstar instead, which means you need to leave it for 2 weeks if you want to plant with herbs. Has been a bit of a failure in hindsight as the thistles haven't died off completely and they are underperforming now.
- Calves have all left farm now. Calves go to the 2 graziers on a random basis as they come up to weight, but come back to their home farms at calving.
- Herd test done in late October – see results table above. Another one due to be done next week.