Key Summary Points

1. Average pasture cover dropped this week to 2317kg DM/ha with a further drop in growth rate on the rainfed paddock (17kg/ha/day average). Irrigated paddocks continue to perform well, growing at 70kg DM/ha/day (average).

2. Cows and heifers were pregnancy tested this week to determine 6 week in calf rates. The six week in calf rate for cows was 72% and heifers 89%.

3. Focuses for the coming week are to ID low producing cows to be dried off over the coming weeks and spread urea on both rain fed and irrigated paddocks to maximise growth potential from recent rainfall.

**Pasture Information**

<table>
<thead>
<tr>
<th></th>
<th>Farm</th>
<th>Irrigated</th>
<th>Rain-fed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grazed milking area (ha)</td>
<td>110.5</td>
<td>41.0</td>
<td>69.5</td>
</tr>
<tr>
<td>Rotation Length (days)</td>
<td>39</td>
<td>22</td>
<td>77</td>
</tr>
<tr>
<td>Grazing allocation per day (ha)</td>
<td>2.8</td>
<td>1.9</td>
<td>1.9</td>
</tr>
<tr>
<td>Average time since last grazed (days)</td>
<td>35</td>
<td>32</td>
<td>37</td>
</tr>
<tr>
<td>Leaf appearance rate (days per leaf)</td>
<td>11</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Average Pasture Cover (kgDM/ha)</td>
<td>2392</td>
<td>2455</td>
<td>2355</td>
</tr>
<tr>
<td>Pasture Growth Rate (kgDM/ha/day)</td>
<td>47</td>
<td>86</td>
<td>25</td>
</tr>
<tr>
<td>Post Grazing Biomass (kgDM/ha)</td>
<td>1553</td>
<td>2151</td>
<td>2151</td>
</tr>
<tr>
<td>Nitrogen applied YTD (kgN/ha)</td>
<td>91</td>
<td>7</td>
<td>6</td>
</tr>
</tbody>
</table>

*Please note all pasture calculations detailed above are based on the current Grazed Milking Area

**Milk Production**

<table>
<thead>
<tr>
<th></th>
<th>Last Week</th>
<th>This Week</th>
<th>Variation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average No. cows in milk (vat)</td>
<td>329</td>
<td>331</td>
<td>2</td>
</tr>
<tr>
<td>Litres per cow</td>
<td>21.8</td>
<td>20.3</td>
<td>-1.6</td>
</tr>
<tr>
<td>% Fat</td>
<td>3.98</td>
<td>4.10</td>
<td>0.12</td>
</tr>
<tr>
<td>% Protein</td>
<td>3.18</td>
<td>3.12</td>
<td>-0.06</td>
</tr>
<tr>
<td>MS/cow/day</td>
<td>1.56</td>
<td>1.47</td>
<td>-0.09</td>
</tr>
<tr>
<td>MS/ha/day</td>
<td>4.55</td>
<td>4.31</td>
<td>-0.24</td>
</tr>
<tr>
<td>8MCC</td>
<td>109</td>
<td>124</td>
<td>15</td>
</tr>
<tr>
<td>Average Liveweight (kg)</td>
<td>502</td>
<td>505</td>
<td>3</td>
</tr>
<tr>
<td>Total Milk Production (kgMS)</td>
<td>79,395</td>
<td>71,941</td>
<td>91%</td>
</tr>
<tr>
<td>MS/ha YTD</td>
<td>709</td>
<td>684</td>
<td>-25</td>
</tr>
</tbody>
</table>

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**Average Pasture Cover**

**Pasture Growth Rate**
### Last 7 days

<table>
<thead>
<tr>
<th>Milkers Diet</th>
<th>kg DM</th>
<th>MJ</th>
<th>ME</th>
<th>CP (%)</th>
<th>NDF (%)</th>
<th>$/cow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pasture Intake</td>
<td>14.6</td>
<td>11.5</td>
<td>22.3</td>
<td>49.5</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Concentrates</td>
<td>3.5</td>
<td>13.0</td>
<td>11.0</td>
<td>21.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Silage</td>
<td>0.9</td>
<td>10.5</td>
<td>15.0</td>
<td>49.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Grazed forage</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Other feeds</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>19</strong></td>
<td><strong>222.9</strong></td>
<td><strong>19.9</strong></td>
<td><strong>44.2</strong></td>
<td><strong>0.0</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Target</strong></td>
<td><strong>191</strong></td>
<td><strong>16-18</strong></td>
<td>&gt;<strong>33</strong></td>
<td><strong>0.0</strong></td>
<td><strong>0.0</strong></td>
<td></td>
</tr>
</tbody>
</table>

Note: Silage nutritional content is estimated based on pasture analysis during silage season, testing will be conducted early in 2014.

### Soil Temperature

![Soil Temperature Graph]

### Rainfall Data

![Rainfall Data Graph]

### Analysis

| Expected growth rate next 7 days (kgDM/ha/day) | 36       |
| Total Demand from Pasture (kgDM/ha/day)       | 41       |
| APC balance (kgDM/ha/day)                     | -0.5     |

### Discussion

Average pasture cover fell this week by 77kgDM/ha to 2315kgDM/ha with little response yet on rain fed pastures to recent rainfall. Good rainfalls on Sunday and Monday (33mm in total) should help hold growth on rain fed paddocks. To increase the growth potential of these paddocks 40kgN/ha will be applied to these paddocks in the coming week, 4 days pre-grazing and 7 days post grazing (both irrigated and rain fed). Per cow milk solid production dipped below 1.5kgMS/cow/day to 1.47kgMS/cow/day (average) this week. This is most likely due to a higher proportion of lower quality (average time since last grazed 38 days) rain fed paddocks in the rotation and the disruption to routine caused by pregnancy testing. All cows and heifers mated were pregnancy tested this week to determine the 6 week in calf rate. The cows tested at 72% with is on target while the heifers tested at 89% with is a little below target. The lower than expected in calf rate for the heifers was partly due to a few smaller heifers testing empty which were probably just too light to be mated. All empties were examined and no abnormalities were found.

Thomas Snare
Acting Farm Manager- 0429 940 063
20 January 2014

Average farm pasture cover (kgDM/ha) = 2315
Area in Rotation (ha) = 111
Pasture Growth Rate (kgDM/ha/day)= 36
Predicted Growth Rate Next 7 Days (kgDM/ha/day) = 35

Pasture Biomass (Kg DM/ha)

Paddock in Rotation
TargetLine

Pasture Growth Rate (kg DM/ha/day)

Paddock

Predicted Wedge 7 Days Time

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