Johnstown Castle Weekly Farm Notes- 9th January

Introduction
These management notes refer to the high stocking rate group in the Johnstown Winter Milk Experiment. This herd has:

- 100% autumn calving
- A mean calving date of October 8th. Calving commences in early September and continues until early December.
- A Holstein Friesian base with an EBI of €92. Aim is a 50:50 balance for milk and fertility
- Whole farm stocking rate of 4.0 cows/ha

The aims of the system are to produce 30,000 litres per hectare utilising >12 tonnes of forage on the grazing block

Management Issues
- Breeding season commenced. Using automated heat detection in conjunction with tail paint
- Mastitis – pre-foaming and post spraying. Maintain cubicle hygiene
- Clean out wintering pad surface and replace woodchip material

Current Situation
- 100% of the herd calved

- The woodchip standoff area has been cleaned this week. Surface conditions have deteriorated following the rise in temperatures. This area has proved beneficial for heat detection but is presenting significant challenges in terms of hygiene for milking cows

- 88% of the milking herd overall has now inseminated since commencing December 6th. Stock bull with maiden heifers

- Sires being used are SOK, UPH, RXR, LLK, LZD and some remaining RDU straws. (SOK and LLK on maiden heifers)

- Details of the TMR diet listed below. Concentrate ingredients are included as a coarse blend in the wagon mix. 1kg of 18% nut fed in the parlour.

- Feeding flat rate to a yield of 28 litres on a UFL basis.

- Total diet is 16.3% crude protein with a PDIE/PDIN balance of 103g / 106g. Diet provide adequate protein for 34 litres @ this PDI content
### Milk Yield details for 9th January

**Detailed Data Update to week ending: 08-JAN-11**

<table>
<thead>
<tr>
<th>Feed System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genotype</td>
</tr>
</tbody>
</table>

| Mean calving date of cows calved | 02-OCT |
| Farmlet size (ha) |  |
| Farmlet stocking rate (cows/ha) |  |

**Production Data This Week**

| Supplementation (kg/cow/day) | 1.2  |
| Milk Yield (kg/cow/day)      | 26.4 |
| Milk Solids (kg/cow/day)     | 1.87 |
| Fat Composition (%)          | 3.86 |
| Protein Composition (%)      | 3.53 |
| Lactose Composition (%)      | 4.68 |
| Body Weight (kg)             | 421  |
| Body Condition Score         |  |

**Cumulative Production to date**

| Days in Milk (days) | 104  |
| Supplement fed (kg/cow) | 160  |
| Milk Yield (kg/cow)   | 2670 |
| Milk Solids (kg/cow)  | 192  |
| Milk Solids (kg/ha)   |  |
| Fat Composition (%)   | 4.00 |
| Protein Composition (%) | 3.48 |
| Lactose Composition (%) | 4.53 |
### Diet Details for TMR diet.

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>kg as fed</th>
<th>kg DM</th>
<th>€/t</th>
<th>Analysis ( / kg DM)</th>
<th>Dairy in Milk (Early Lactation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dairy 18% CP</td>
<td>1.00</td>
<td>0.9</td>
<td>€190</td>
<td>DM % 38.9</td>
<td>25-40</td>
</tr>
<tr>
<td>Soyabean meal 48% CP</td>
<td>2.00</td>
<td>1.7</td>
<td>€330</td>
<td>UFL 0.95</td>
<td>0.90-0.95</td>
</tr>
<tr>
<td>Barley (rolled)</td>
<td>1.60</td>
<td>1.4</td>
<td>€185</td>
<td>UFL 0.91</td>
<td>-</td>
</tr>
<tr>
<td>Maize</td>
<td>0.50</td>
<td>0.4</td>
<td>€180</td>
<td>Cr. protein g 162</td>
<td>165-180</td>
</tr>
<tr>
<td>Beet pulp unmolassed</td>
<td>1.20</td>
<td>1.1</td>
<td>€145</td>
<td>PDIN g 106</td>
<td>100-110</td>
</tr>
<tr>
<td>Rapeseed meal</td>
<td>1.10</td>
<td>1.0</td>
<td>€170</td>
<td>PDIE g 103</td>
<td>100-110</td>
</tr>
<tr>
<td>Trafford Gold</td>
<td>3.50</td>
<td>1.9</td>
<td>€95</td>
<td>PDIA g 52</td>
<td>120-200 max</td>
</tr>
<tr>
<td>Fat (vegetable)</td>
<td>0.20</td>
<td>0.2</td>
<td>€400</td>
<td>Starch g 169</td>
<td></td>
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<tr>
<td>Dairy Maize/beet 25kg/ton</td>
<td>0.25</td>
<td>0.2</td>
<td>€650</td>
<td>Sugar g 48</td>
<td>170-200</td>
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<tr>
<td>Gras silage 74 % DMD</td>
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<td></td>
<td></td>
<td>Cr. Fibre g 185</td>
<td></td>
</tr>
<tr>
<td>Maize silage 25% starch</td>
<td></td>
<td></td>
<td></td>
<td>Oil g 37</td>
<td>Less than 50</td>
</tr>
<tr>
<td>Straw- barley</td>
<td></td>
<td></td>
<td></td>
<td>Ca g 6.1</td>
<td>6.3-7.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>P g 5.4</td>
<td>3.5-4.5</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>NDF g 406</td>
<td>280+</td>
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<td>RSVCOnc 175</td>
<td>200.0</td>
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<td></td>
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<td>ADF g 230</td>
<td>210+</td>
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<td></td>
<td></td>
<td>Se mg 0.58</td>
<td>0.35-0.45</td>
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<td>Mg g 2.61</td>
<td>2.2-2.8</td>
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</tbody>
</table>

### Forages

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>kg DM</th>
<th>kg as fed</th>
<th>€/t</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grass silage 74 % DMD</td>
<td>5.00</td>
<td>20.8</td>
<td>€22</td>
</tr>
<tr>
<td>Maize silage 25% starch</td>
<td>7.00</td>
<td>21.9</td>
<td>€38</td>
</tr>
<tr>
<td>Straw- barley</td>
<td>0.50</td>
<td>0.6</td>
<td>€60</td>
</tr>
</tbody>
</table>

### Wet Feeds & Brassica Crops

<table>
<thead>
<tr>
<th>Tonne mix ration</th>
<th>kg DM</th>
<th>kg as fed</th>
<th>€/t</th>
</tr>
</thead>
<tbody>
<tr>
<td>jc mix 09</td>
<td>21.3</td>
<td>0.0</td>
<td>54.6</td>
</tr>
</tbody>
</table>

**Total Intake / day**
- 21.3 kg DM
- 54.6 kg

**Chosen Intake as % of BW**
- 3.3 %
- 20.5 kg DM

**Need to allocate**
- 0.8 kg DM
- More feed

**Enter animal category**
- Milking cows
- Animal live weight: 620 kg
- Target Intake as % of LW: 3.0-3.5