

## **Johnstown Castle Weekly Farm Notes- 5<sup>th</sup> December**

### **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 8<sup>th</sup>. 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
- Maintain water supply to milking herd in freezing conditions

### **Current Situation**

- 100% of the herd calved
- Sub-zero temperatures presenting significant challenges to maintain water supply to milking herd
- 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
- Breeding season has commenced. Using high EBI bulls (€200) with a strong emphasis on milk protein and fertility traits.
- Sires being used are SOK, UPH, RXR, LLK, LZD and some remaining RDU straws. (SOK and LLK on maiden heifers)

## Milk Yield details for 5<sup>th</sup> December

<b>Detailed Data Update to week ending: 05-DEC-10</b>	
Feed System	
Genotype	4.0
Mean calving date of cows calved	02-OCT
Farmlet size (ha)	
Farmlet stocking rate (cows/ha)	
<b>Production Data This Week</b>	
Supplementation (kg/cow/day)	1.1
Milk Yield (kg/cow/day)	25.4
Milk Solids (kg/cow/day)	1.88
Fat Composition (%)	3.83
Protein Composition (%)	3.58
Lactose Composition (%)	4.59
Body Weight (kg)	462
Body Condition Score	
<b>Cumulative Production to date</b>	
Days in Milk (days)	72
Supplement fed (kg/cow)	120
Milk Yield (kg/cow)	1682
Milk Solids (kg/cow)	124
Milk Solids (kg/ha)	
Fat Composition (%)	3.96
Protein Composition (%)	3.43
Lactose Composition (%)	4.61

### Diet Details for TMR diet.

		kg as fed	kg DM	€ /t	Analysis ( / kg DM)	Dairy in Milk (Early Lactation)	
<b>Feed Ingredients for Selection</b>	<b>Ingredients</b>						
	Dairy 18% CP	1.00	0.9	€ 190	DM %	38.9	25-40
	Soyabean meal 48% CP	2.00	1.7	€ 330	UFL	0.95	0.90-0.95
	Barley (rolled)	1.60	1.4	€ 185	UFV	0.91	-
	Maize	0.50	0.4	€ 180	Cr. protein g	162	165-180
	Beet pulp unmolassed	1.20	1.1	€ 145	PDIN g	106	100-110
	Rapeseed meal	1.10	1.0	€ 170	PDIE g	103	100-110
	Trafford Gold	3.50	1.9	€ 95	PDIA g	52	
	Fat (vegetable)	0.20	0.2	€ 400	Starch g	169	120-200 max
	<b>Minerals</b>	Dairy Maize/beet 25kg/ton	0.25	0.2	€ 650	Sugar g	48
<b>Forages</b>		<b>kg DM</b>	<b>kg as fed</b>		Cr. Fibre g	185	170-200
	Grass silage 74 % DMD	5.00	20.8	€ 22	Oil g	37	Less than 50
	Maize silage 25% starch	7.00	21.9	€ 38	Ca g	6.1	6.5-7.5
	Straw- barley	0.50	0.6	€ 60	P g	5.4	3.5-4.5
					NDF g	406	280+
<b>Wet Feeds &amp; Brassica Crops</b>					RSVConc	175	200.0
					ADF g	230	210+
					Se mg	0.58	0.35-0.45
					Mg g	2.61	2.2-2.8
					Tot. UF Intake	20.2 UFL	19.3 UFV
<b>Tonne mix ration</b>					Tot. PDI Intake	2256 g PDIN	2182 g PDIE
	jc mix 09		0.0		Cost	€ 3.50 / day	
	Total Intake / day	21.3 kg DM	54.6 kg				
	Chosen Intake as % of BW	3.3 %	20.5 kg DM				
	<b>Need to allocate</b>	<b>-0.8 kg DM</b>	<b>more feed</b>		<b>Enter animal category</b>	Milking cows	
					Animal live weight	620 kg	
					Target Intake as % of LW	3.0-3.5	