

## **Johnstown Castle Weekly Farm Notes- 9<sup>th</sup> 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 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
- 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 6<sup>th</sup>. 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 9<sup>th</sup> January

<b>Detailed Data Update to week ending: 09-JAN-11</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)	1.2
Milk Yield (kg/cow/day)	25.4
Milk Solids (kg/cow/day)	1.87
Fat Composition (%)	3.85
Protein Composition (%)	3.53
Lactose Composition (%)	4.68
Body Weight (kg)	421
Body Condition Score	
<b>Cumulative Production to date</b>	
Days in Milk (days)	104
Supplement fed (kg/cow)	160
Milk Yield (kg/cow)	2570
Milk Solids (kg/cow)	192
Milk Solids (kg/ha)	
Fat Composition (%)	4.00
Protein Composition (%)	3.48
Lactose Composition (%)	4.63

### 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	