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: 09-JAN-11	
Feed System	
Genotype	4.0
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)	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	
Cumulative Production to date	
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.

	Ingredients	kg as fed	kg DM	€ /t
Feed Ingredients for Selection	Dairy 18% CP	1.00	0.9	€ 190
	Soyabean meal 48% CP	2.00	1.7	€ 330
	Barley (rolled)	1.60	1.4	€ 185
	Maize	0.50	0.4	€ 180
	Beet pulp unmolassed	1.20	1.1	€ 145
	Rapeseed meal	1.10	1.0	€ 170
	Trafford Gold	3.50	1.9	€ 95
	Fat (vegetable)	0.20	0.2	€ 400
Minerals	Dairy Maize/beet 25kg/ton	0.25	0.2	€ 650
		kg DM	kg as fed	
Forages	Grass silage 74 % DMD	5.00	20.8	€ 22
	Maize silage 25% starch	7.00	21.9	€ 38
	Straw- barley	0.50	0.6	€ 60
Wet Feeds & Brassica Crops				
	Tonne mix ration			
	jc mix 09		0.0	
	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	

Analysis (/ kg DM)			Dairy in Milk (Early Lactation)
DM %	38.9		25-40
UFL	0.95		0.90-0.95
UFV	0.91		-
Cr. protein g	162		165-180
PDIN g	106		100-110
PDIE g	103		100-110
PDIA g	52		
Starch g	169		120-200 max
Sugar g	48		
Cr. Fibre g	185		170-200
Oil g	37		Less than 50
Ca g	6.1		6.5-7.5
P g	5.4		3.5-4.5
NDF g	406		280+
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	
Tot. PDI Intake	2256 g PDIN	2182 g PDIE	
Cost	€ 3.50 / day		

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