

Johnstown Castle Weekly Farm Notes- 5th 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 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
- 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 5th December

Detailed Data Update to week ending: 05-DEC-10	
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)	1.1
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	
Cumulative Production to date	
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)	
Feed Ingredients for Selection	Ingredients						
	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
	Minerals	Dairy Maize/beet 25kg/ton	0.25	0.2	€ 650	Sugar g	48
Forages		kg DM	kg as fed		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+
Wet Feeds & Brassica Crops					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
Tonne mix ration					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				
	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	