

Johnstown Castle Weekly Farm Notes- 31st October

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

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

Management Issues

- Monitor BCS and mineral nutrition of dry cows
- Switching to 100% indoor TMR this week
- Post grazing height of <4.5cm for last grazing paddocks

Current Situation

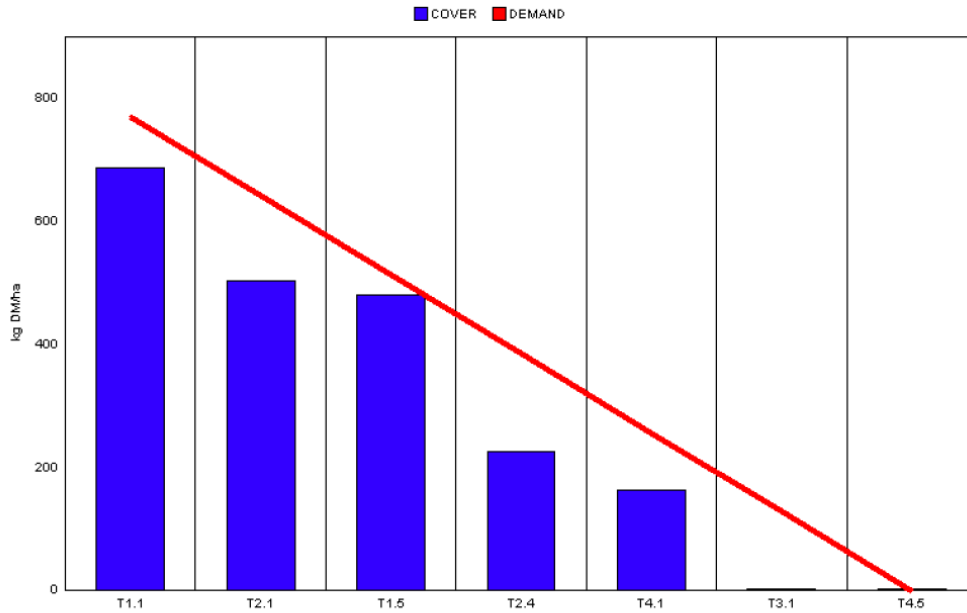
- 80% of the herd calved.
- Farm is now closed for grazing. Highest remaining cover is 770kgDM per ha. Farm has a closing cover of 308kg/ha- this is below the target 500kgDM. Why? Original first closed paddock had >1300kgDM last week and was grazed off instead of carrying through the winter
- Grazing conditions have been excellent in the last grazing round, all paddocks were grazed to <4.5cm post grazing height.
- Herd is switching to 100% indoor TMR this week. Details of the 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 30 litres on a UFL basis. Offering 90% of full allowance this week as cows adjust to diet.
- 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
- Dry cows are moved to calving paddock at 3 weeks before expected calving date. Receiving:
 - ad-lib haylage
 - dry cow mineral 100g per day in buckets
 - 40g per head of sweetened cal-mag in 0.5kg rolled barley

Milk Yield details for 31st October 2010

Detailed Data Update to week ending: 31-OCT-10	
Feed System	
Genotype	4.0
Mean calving date of cows calved	24-SEP
Farmlet size (ha)	
Farmlet stocking rate (cows/ha)	
Production Data This Week	
Supplementation (kg/cow/day)	1.6
Milk Yield (kg/cow/day)	27.5
Milk Solids (kg/cow/day)	1.92
Fat Composition (%)	3.73
Protein Composition (%)	3.25
Lactose Composition (%)	4.58
Body Weight (kg)	424
Body Condition Score	
Cumulative Production to date	
Days in Milk (days)	43
Supplement fed (kg/cow)	111
Milk Yield (kg/cow)	957
Milk Solids (kg/cow)	68
Milk Solids (kg/ha)	
Fat Composition (%)	3.85
Protein Composition (%)	3.29
Lactose Composition (%)	4.48

Pasture details for 31st October

Moorepark Animal & Grassland Research and Innovation Centre		GrazePlan - Grass Measurement Report	
Group : TEAGASC RESEARCH FARMS		Date Produced	02-NOV-10
Farm : Johnstown Castle Farm	Autumn calving systems trial 2.75, 3.25 & 4.0 LU/HA Stocking rate trial		
Date : 26-OCT-10	Treatment : 4.0 LU/ha TMR treatment		
Rotation Length :	48	Farm Cover (kg DM/ha) :	308
Grass Allocation /cow (kg grass dry matter/LU)	4	Farm Cover (kg DM/LU) :	77
Concentrate Fed (kg/cow) :	7	Current Monthly Fertilizer Rate (kg/ha) :	
Silage Fed (kg DM/cow) :	9	Stock Rate (LU/ha) :	4.01
N Application Rate (units/acre) :		Growth Rate :	37
N Application Rate (kg/ha) :		Farm Demand (kg DM/LU/day) :	76
Residual Height :	3.4	Target pregrazing yield (kg DM/ha) :	771
Total Livestock :	24		



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	