Johnstown Castle Weekly Farm Notes-January 15th

Introduction

These management notes refer to the Johnstown Winter Milk Herd in Co Wexford. 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 €119 (see page 3). Aim is a 50:50 balance for milk and fertility

The herd produces approximately 45% of annual supply from October to February inclusive. This includes 20% of annual supply in December and January.

A new experiment commenced in October 2011, comparing different concentrate feeding systems at similar stocking rates (3.25 cows per ha). Briefly, the systems compared are:

Feed to budget (GREEN): Maximizes the proportion of quality forage in the milking diet. Supplements used to balance feed availability and demand at a herd level. Flatrate concentrate feeding at pasture and during housing.

Feed to yield (RED): Meets the daily nutritional demands of the cow while maximising quality forage in the diet. Concentrates offered on an individual cow basis, depending on yield and the base diet.

There are 42 cows per group. For reference, management notes will refer to the flat rate (GREEN) group

Management Issues

- Feeding management- Forage quality and diet composition
- Breeding and submission rate target >80% of cows submitted in first 21 days of breeding season
- Planning for start of grazing season
- Somatic cell and milk quality issues

Current Situation

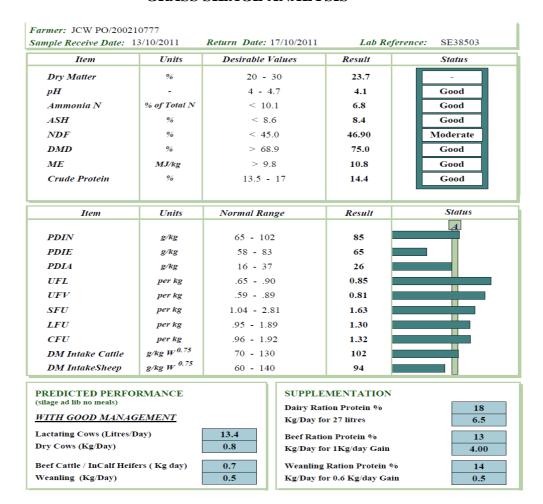
- Current milk yield is steady at 27.4kg at 2.00kg milk solids, at 116 days in milk (see table). Max milk yield in group is 38.1kg, top 25% average 33.1kg. Milk protein stands at 3.35%, and has averaged 3.39% since the start of lactation
- Cows are offered 20.5kg DM, comprising 8kgDM maize silage (see quality report below), 5.5kg DM grass silage, 3kg of coarse blend concentrate (as shown below), and 5kg of high energy (0.96UFL) 18% CP concentrate in the parlour.

- There have been no recorded cases of metabolic disorders or digestive upsets to date in the milking herd. Achieving >13kgDM from forage is likely to be of benefit in this regard.
- Total diet specification is
 - o 34% DM
 - o 0.95 UFL
 - o 103/101 PDIN/PDIE
 - o 21% starch plus sugar
 - o 39% NDF and 21% ADF. There is no requirement for straw in this mix
- Cows were turned out to pasture after morning milking for 4 hours on 3 days this week, in good grazing conditions. Indoor forage allowance was reduced by 25% (to 9.5kgDM) before grazing to promote grass DM intake.
- Heaviest pre-grazing yields on the farm are approx 1300kgDM, however cows
 are turned out on paddocks with pre-grazing yields of 800-900kgDM for the
 first 4-5 days grazing. This helps to minimize damage and pasture wastage.
 Grazing ceased towards the weekend due to inclement weather conditions.
- Breeding commenced on December 5th. Submission rate in the first 3 weeks of breeding was satisfactory at 84%. 100% of cows have been submitted for first service as of this week A CIDR programme was used on 2 cows that were non-cycling by day 70 post calving. An automated heat detection (pedometer) system is used in conjunction with tail paint. To improve oestrous activity indoors, cows have access to a solid-floor concrete loafing area with a non-slip surface finish.
- Bull selection criteria emphasises milk solids and fertility using the EBI system. This is the most appropriate approach for winter/liquid milk herds. The criteria for the bull panel are EBI at least €200, PD for milk protein% over 0.05%, milk kg +150kg to 200kg with good functional type (feet, udders, and body capacity). Bulls used this season include SOK, UPH, LLK, HZS and HYZ.

Weekly production sheet for week ending January 29th

Detailed Data Update to week ending: 29-JAN-12						
Feed System						
Genotype	Feed					
Mean calving date of cows calved	10-OCT					
Farmlet size (ha)						
Farmlet stocking rate (cows/ha)						
Production Data This Week						
Supplementation (kg/cow/day)	5.5					
Milk Yield (kg/cow/day)	27.4					
Milk Solids (kg/cow/day)	2.00					
Fat Composition (%)	3.97					
Protein Composition (%)	3.35					
Lactose Composition (%)	4.77					
Body Weight (kg)	473					
Body Condition Score						
Cumulative Production to date						
Days in Milk (days)	116					
Supplement fed (kg/cow)	552					
Milk Yield (kg/cow)	3005					
Milk Solids (kg/cow)	227					
Milk Solids (kg/ha)						
Fat Composition (%)	4.17					
Protein Composition (%)	3.39					
Lactose Composition (%)	4.72					

GRASS SILAGE ANALYSIS



MAIZE SILAGE ANALYSIS

Lab Reference: ME81149

Item	Units	Normal Desirable Values	Result
Dry Matter	%	22.0 - 35.0	33.1
pH	-	3.5 - 3.9	3.8
ASH	%	3.2 - 4.5	4.1
NDF	%	42.0 - 55.0	51.60
Starch	%	20.0 - 28.0	31.6
ME	MJ/kg	10.5 - 11.5	11.7
Crude Protein	%	6.5 - 10	7.3

Concentrate ingredients (Coarse blend fed at 3kg per day at barrier)

Ingredient	% as fed
Beet pulp molassed	25
Soyabean meal 48% CP	25
Barley (rolled)	18
Maize	15.75
Rapeseed meal	14
Molasses	2
Post-calver 25kg/ton	0.25
Analysis	(per kg as fed)
DM, g	86.7
UFL	1.00
UFV	0.96
Crude protein %	22.5
PDIN, g	156
PDIE, g	132
Starch %	22.0
Crude fibre %	7.0
Oil %	1.8
Ash %	5.2

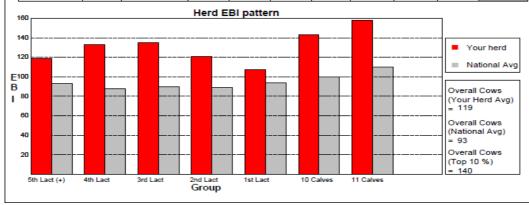
HERD EBI Johnstown Castle, January 2012

1. EBI Herd Summary Average EBI for all dairy cows with; (i) a known sire (or milk recorded progeny with a known sire) and (ii) are currently on your farm. * Missing Sires can be added through the 'Record Events' section of the HerdPlus website or by contacting the HerdPlus office - 1850 600 900

Animal	Num of	Milk K	g		Milk	Fertility	Calving	Beef	Mainten.	Health	EBI€
Group	Cows	Fat	%	Surv%	% Contrib						
		Prot	%	CI Days							
Cows with EBI	118	178			€ 40	€ 68.7	€ 17.4	€ -8.1	€ 1.3	€ -0.2	
Missing a Sire*	1	7.5	0.02	2.1	29.5%	50.6%	12.8%	-6%	1%	-0.1%	€ 119
Total Cows	119	7.7	0.04	-3.7							
1st Lactation	45	213			€ 41.2	€ 58.1	€ 18.7	€ -11.5	€ 1.5	€ -0.6	
		7.6	-0.01	1.7	31.3%	44.1%	14.2%	-8.7%	1.1%	-0.5%	€ 107
		8.4	0.03	-3.2							
2nd Lactation	20	161			€ 38.3	€ 69.5	€ 20	€ -6.1	€ -0.9	€ -0.1	
		8.7	0.05	2.2	28.4%	51.5%	14.8%	-4.5%	-0.7%	-0.1%	€ 121
		7.1	0.03	-3.6							
3rd Lactation	17	154			€ 50	€ 77.2	€ 15	€ -9	€ 2.6	€ -0.4	
		9.6	0.07	2.3	32.4%	50.1%	9.7%	-5.8%	1.7%	-0.3%	€ 135
		8.6	0.07	-4.2							
4th Lactation	15	130			€ 32.3	€ 84.5	€ 19.5	€ -4.9	€ 1.9	€ -0.3	
		6.2	0.03	2.5	22.5%	58.9%	13.6%	-3.4%	1.3%	-0.2%	€ 133
		6.0	0.03	-4.6							
5th Lactation (+)	21	170			€ 36	€ 72.6	€ 12.8	€ -4.4	€ 1.5	€ 0.6	
		5.3	-0.02	2.2	28.1%	56.8%	10%	-3.4%	1.2%	0.5%	€ 119
		7.4	0.03	-3.9							

2. Dairy Youngstock

11 Calves Missing a Sire* Total Calves	37 0 0	ı	0.07 2.6 0.07 -5.2	€ 49.3 27.6%	€ 93.9 52.5%	€ 22.3 12.5%	€ -10.3 -5.8%	€ 0.6 0.3%	€ 2.5 1.4%	€ 158
10 Calves Missing a Sire* Total Calves	45 0 37	ı	0.09 2.2 0.09 -4.5	€ 52.3 30.5%	€ 80.4 46.9%	€ 20.9 12.2%	€ -14.3 -8.3%	€ 2.7 1.6%	€ 0.8 0.5%	€ 143



Supplier Humber. 330 / manufacturing

Table 3: Wexford/ICBF Performance Score Card

		Your Herd	Wexford Average	Wexford Top 10%	Your Rank out of 100	Your Star Rating	
Milk performance for 201	1 (Jan - Sep) based on W	exford data					
Fat + Protein (Kg/cow) Average Fat and Protein yield	365	303	377	85%	* * * * *		
Litres per Cow per Day Avg litres of Milk per cow fr	rom Jan - Sep 2011	17.05	14.84	18.1	80%	* * * *	
Fat % to end September 2 Weighted average Fat % fr		4.1	3.94	4.14	86%	* * * * *	
Protein % to end Septeml Weighted average Protein		3.53	3.4	3.5	96%	* * * * *	
Average Milk Price (cpl) I Average milk price receive (Includes Bonuses/Penalties,	d from Jan - Sep 2011,	34.3	32.8	34.4	88%	* * * * *	
SCC (,000 cells/ml) The weighted average Somat Jan - Sep 2011	227	246	155	60%	* * *		
Fertility & Calving data be	ased on HerdPlus 2011 C	alving Report					
Calving Interval (days) Average number of days betw calvings for cows calved durin	383	418	383	90%	* * * * *		
Days to calve 50% of cow Start 01/02/2011 - Median 2	27	47	25	87%	* * * * *		
Total Dairy Replacements Dairy Females born in the perions as a proportion of eligible cow	41%	24%	41%	91%	* * * * *		
%Al bred replacements %female calves born in the pe as a proportion of eligible cow	41%	15%	33%	97%	* * * * *		
EBI Statistics based on the	he latest HerdPlus EBI re	port 2011					
Herd EBI (2011) Average EBI for Cows (101) vi	ith EBI data	€ 101	€ 66	€91	97%	* * * * *	
Yearly EBI Gain (2011-20: Gain in Herd EBI based on; 0- replacement rate	€10	€6	€ 10	92%	* * * * *		
EBI of 2011 Insemination Weighted Average EBI of dair recorded in Summer 2011	n/a	€ 190	€226	n/a			
Table of Terms							
Wexford Average The	The average performance of all Wexford Suppliers						
Wexford Top 10% The	The top 10% cut off point of all Wexford Suppliers						
	Your performance expressed across all Wexford herds eg. 1% = Bottom Supplier, 50% = Average Supplier 100% = Top Supplier						
		= 41 - 60%		= 61 - 80%	* * * *	* = 81 - 100%	