

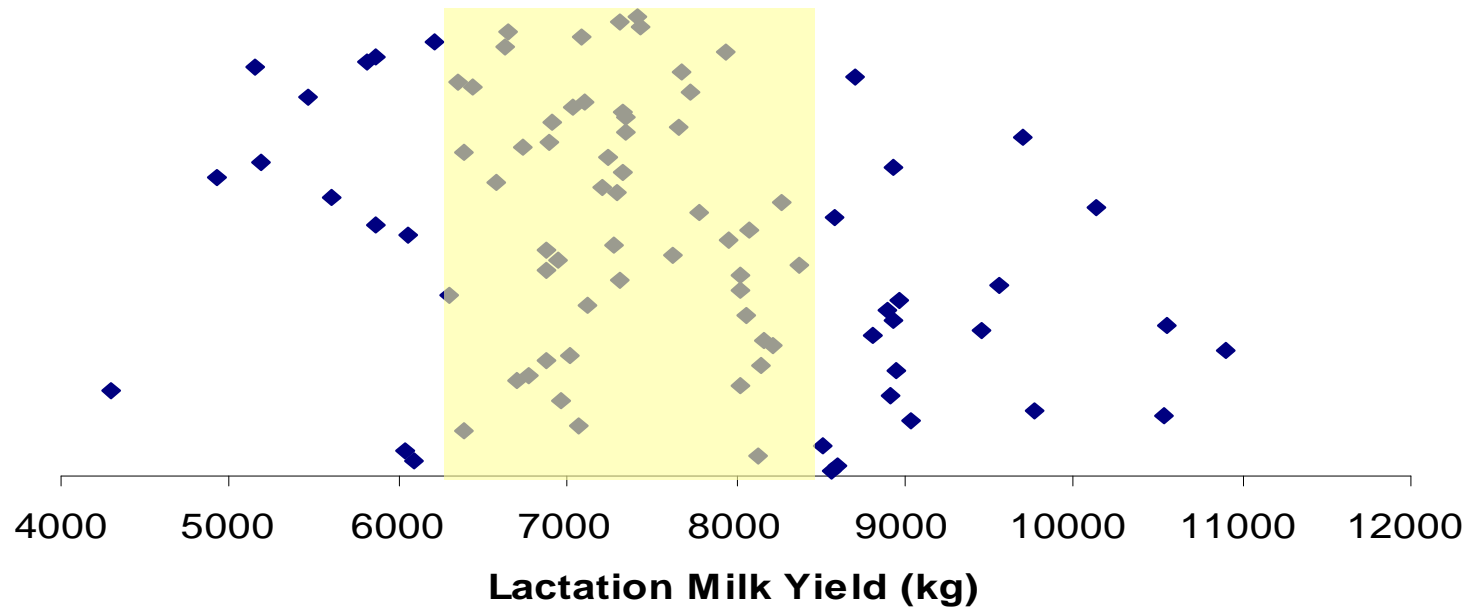
# Johnstown Castle- Herd Update

## June 2<sup>nd</sup> 2013



The Irish Agriculture and Food Development Authority

## Johnstown Herd Details - Milk Yield per Cow



**7290kg @ 4.00% Fat 3.53% Protein**



We want...

- High Fertility
- High milk solids
- 160 -180kg milk
- Functional cows

Animal Group	Num of Cows	Milk Kg Fat Prot %	Surv% CI Days	Milk % Cont	Fertility % Cont	Calv % Cont	Beef % Cont	Maint % Cont	Mgmt % Cont	Health % Cont	EBI €
Cows with EBI	112	189		€ 49	€ 71	€ 24	€ -4	€ 2	€ 1	€ 2	€ 145
Missing EBI*	0	9.3 0.04	2.0	32.1%	46.5%	15.4%	-2.5%	1.5%	0.8%	1.1%	
Total Cows	112	9.1 0.05	-4.0								
1st Lactation	44	188		€ 56	€ 68	€ 26	€ -6	€ 2	€ 0	€ 2	€ 149
		11.0 0.08	1.7	35.1%	42.3%	16.3%	-3.7%	1.2%	0.1%	1.2%	
		9.9 0.07	-4.0								
2nd Lactation	34	210		€ 46	€ 69	€ 23	€ -2	€ 2	€ 3	€ 0	€ 141
		8.7 0.02	2.0	31.8%	47.3%	16%	-1.6%	1.2%	1.9%	0.2%	
		9.0 0.04	-3.8								
3rd Lactation	10	114		€ 41	€ 68	€ 24	€ -2	€ 2	€ 1	€ 3	€ 137
		7.2 0.06	2.1	28.9%	48.3%	17.2%	-1.6%	1.1%	0.8%	2.1%	
		7.0 0.06	-3.7								
4th Lactation	7	170		€ 51	€ 95	€ 22	€ -4	€ 6	€ 0	€ 1	€ 172
		11.1 0.09	2.7	28.5%	53%	12.1%	-2.1%	3.5%	-0.1%	0.7%	
		8.9 0.06	-5.3								
5th Lactation (+)	17	203		€ 40	€ 75	€ 18	€ -3	€ 3	€ 2	€ 3	€ 138
		6.5 -0.02	2.2	27.8%	52.4%	12.5%	-2%	2.1%	1.4%	1.9%	
		8.2 0.03	-4.1								

## 2. Dairy Youngstock

12 Calves	48	169		€ 59	€ 83	€ 31	€ -9	€ 4	€ 1	€ 2	€ 171
Missing EBI*	0	11.7 0.10	2.3	31%	43.7%	16.4%	-5%	2.2%	0.7%	1.1%	
Total Calves	48	9.9 0.09	-4.6								
11 Calves	35	180		€ 54	€ 78	€ 28	€ -4	€ 0	€ 1	€ 3	€ 160
Missing EBI*	0	10.4 0.07	2.1	32%	46.6%	16.6%	-2.4%	-0.2%	0.7%	1.5%	
Total Calves	35	9.5 0.07	-4.5								



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The background of the slide is a photograph of a cow in a barn stall. The cow is white with some dark patches and is looking towards the camera. The stall has wooden bars and a concrete floor. The lighting is somewhat dim, typical of an indoor barn setting.

## Experiment 2012-14: Feed to Yield Trial on Split Calving Herds

### Objective:

‘To compare performance and profit of split calving herds managed under ***feed-to-yield*** or ***feed-to-budget*** systems’

# Feed to Yield System - “Reds”

‘Meet the nutritional requirements of the INDIVIDUAL COW while managing the system to maximise use of quality forage’

Stocking rate 3.1 cows per ha

## Indoor diet –

- Flat rate to stated yield e.g. 22 litres
- Supplement on a yield basis thereafter e.g. 0.4kg per litre to a threshold value

## At pasture –

- Estimate contribution of base pasture diet
- Use supplements to meet yield potential
- Maintain sward quality by managing pre-grazing yield

# Feed to Budget System - “Greens”

‘Meet nutritional requirements of THE HERD by maximising utilisation of forage on the grazing block and strategic use of supplements to manage feed deficits as dictated by budget’

Stocking rate 3.1 cows per ha

## Indoor diet –

- Flat rate meal feeding of fresh and stale cows (e.g. 7kg plus 3kg)
- Additional forage (e.g. maize) imported as per winter forage deficit

## At pasture –

- Conventional pasture budgeting practices
- Use supplement to address pasture deficits
- Maintain sward quality by standard management

# Systems compared

	Feed to Budget	Feed to Yield
Winter	13kg silage Fresh 7kg Stale 4kg meal	13kg silage 21 litres plus 0.5kg per litre
Spring	Spring Rotation Plan Flat rate meal	Spring Rotation Plan 22 litres + 0.5kg per litre
Summer	Grass wedge Flat rate meal	Grass wedge 25 litres + 0.5kg per litre
Autumn	Autumn budget 70:30 Flat rate meal feeding	Autumn budget 70:30 21 litres + 0.5kg per litre

48 cows per group, mean calving date 10<sup>th</sup> Oct and 20<sup>th</sup> Feb

## Current Situation- Autumn Calving

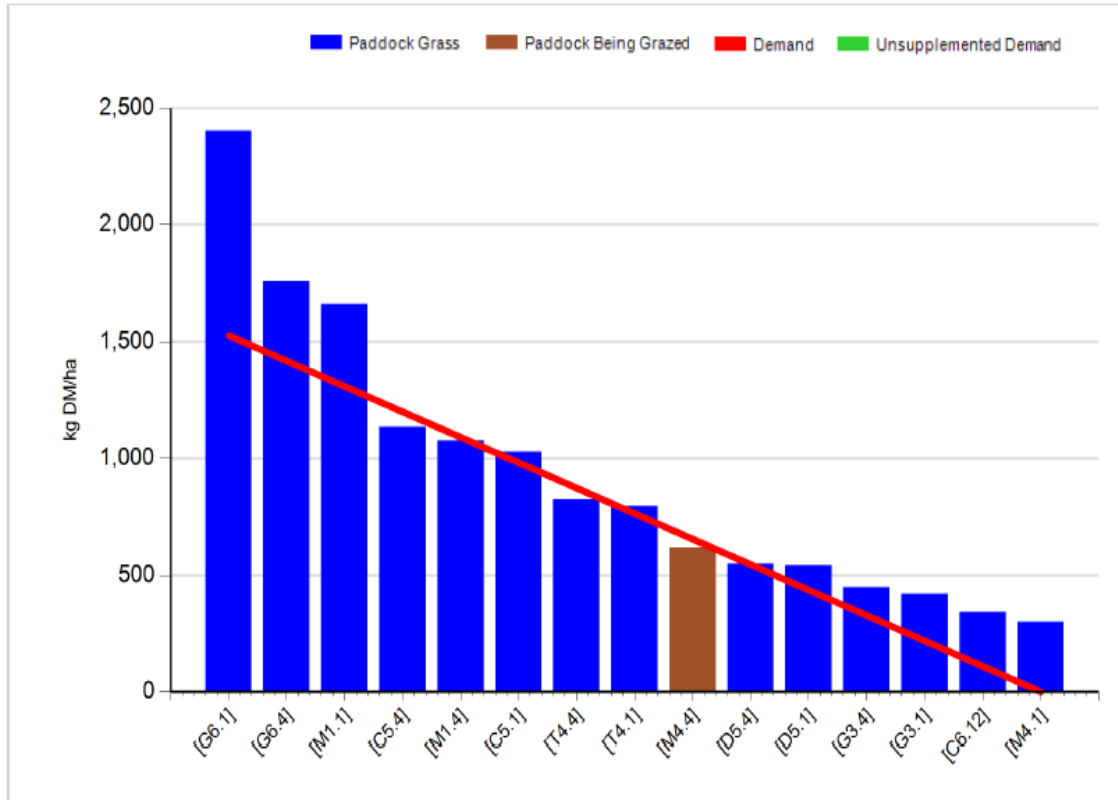
	Feed to Yield	Feed to Budget
<b><i>This Week (2/6/13)</i></b>		
Milk Kg	24.0	20.4
Fat %	4.02	3.68
Protein %	3.95	3.65
Milk Solids kg	1.91	1.50
Parlour Concentrate kg	1.0	0.5
Other supplement kg DM	0	0
<b><i>Cumulative (237 days in milk)</i></b>		
Milk kg	6177	6064
Milk Solids kg	459	445
Concentrate fed Parlour (Total)	785 (1195)	849 (1259)



## Current Situation- Spring Calving

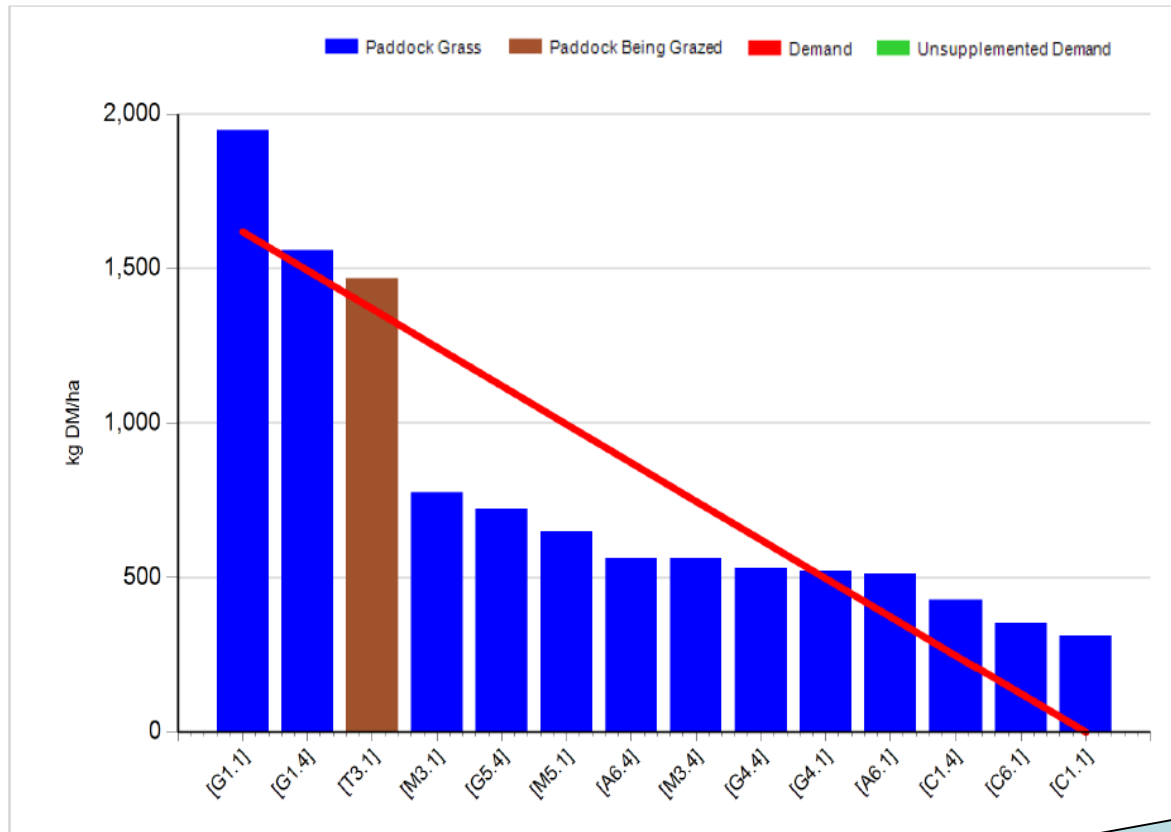
	Feed to Yield	Feed to Budget
<b><i>This Week (2/6/13)</i></b>		
Milk Kg	33.4	26.5
Fat %	3.55	3.43
Protein %	3.62	3.31
Milk Solids kg	2.39	1.79
Parlour Concentrate kg	4.6	0.5
Other supplement kg DM	0	0
<b><i>Cumulative (96 days in milk)</i></b>		
Milk kg	2883	2594
Milk Solids kg	204	188
Concentrate fed Parlour (Total)	155 (480)	146 (354)

## Current Situation- Feed to Budget



- Farm cover 960 kg DM ha
- Farm cover 217kg DM cow
- SR 4.43 cows ha
- Grass allocation 18kg DM\*
- Residual 3.7cm
- Skipping paddock G6 and baling for silage

## Current Situation- Feed to Yield



- Farm cover 818kg DM ha
- Farm cover 191kg DM cow
- SR 4.28 cows ha
- Grass allocation 18kg DM\*
- Residual 4.1cm
- Covers after G1 low due to paddocks removed previously
- Growth rate high so should be ok
- Will skip G1.1, possibly graze some of G1.4 if needed

Feeding 0.5kg meal per litre above 25kg

## Effect of calving interval on milk revenue losses for 100 cow herd

Herd Calving Interval	Herd Base <sup>2</sup> Production Level (litres)		
	6000	7000	8000
401	€9,660 <sup>3</sup>	€7,320	€4,380
422	€16,770	€13,620	€9,060
443	€23,760	€20,700	€14,970
464	€30,570	€28,020	€20,490
485	€37,290	€35,370	€26,520

<sup>1</sup>Relative to a 375 day calving interval

<sup>2</sup>Based on 305-d yield for a herd with 370 day calving interval

<sup>3</sup>Based on a 30cpl annualised milk price

Our objective is a 370 d calving interval  
Current 383 days

## Other Notes

- Breeding commenced May 6<sup>th</sup>
  - On target for >85% eligible cows submitted in 3 wks
  - Tail paint used as heat detection aid
  - Less than 10% of eligible cows are carryover cows