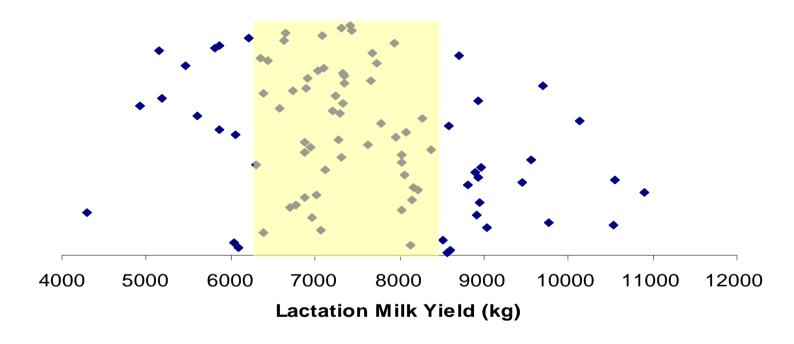
Johnstown Castle- Herd Update Aug 17th 2013



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

2. Dairy Youngstock

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



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. 0.5kg 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 10th Oct and 20th Feb



Current Situation- Autumn Calving (in milk)

	Feed to Yield	Feed to Budget
This Week (18/8/13)		
Milk Kg	17.7	16.8
Fat %	4.10	4.06
Protein %	3.84	3.88
Milk Solids kg	1.41	1.33
Parlour Concentrate kg	0.5	0.5
Other supplement kg DM	-	-
Cumulative (308 days in milk)		
Milk kg	7697	7580
Milk Solids kg	584	553
Concentrate fed Parlour (Total)	930 (1341)	975 (1385)



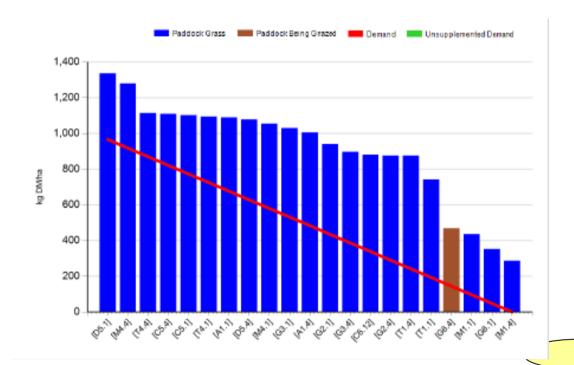
65% autumn calving cows dried off by this week

Current Situation-Spring Calving

	Feed to Yield	Feed to Budget
This Week (28/7/13)		
Milk Kg	25.4	24.2
Fat %	3.54	3.46
Protein %	3.51	3.56
Milk Solids kg	1.79	1.70
Parlour Concentrate kg	1.2 avg	0.5
Other supplement kg DM	-	-
Cumulative (145 days in milk)		
Milk kg	5105	4543
Milk Solids kg	360	322
Concentrate fed Parlour	677	366



Current Situation-Feed to Budget



AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

- Growth 65kg DM per day
- Farm cover 902 kg DM ha
- Farm cover 302kg DM cow
- SR 2.95 cows ha
- Grass allocation 17g DM*
- Residual ht 3.8cm

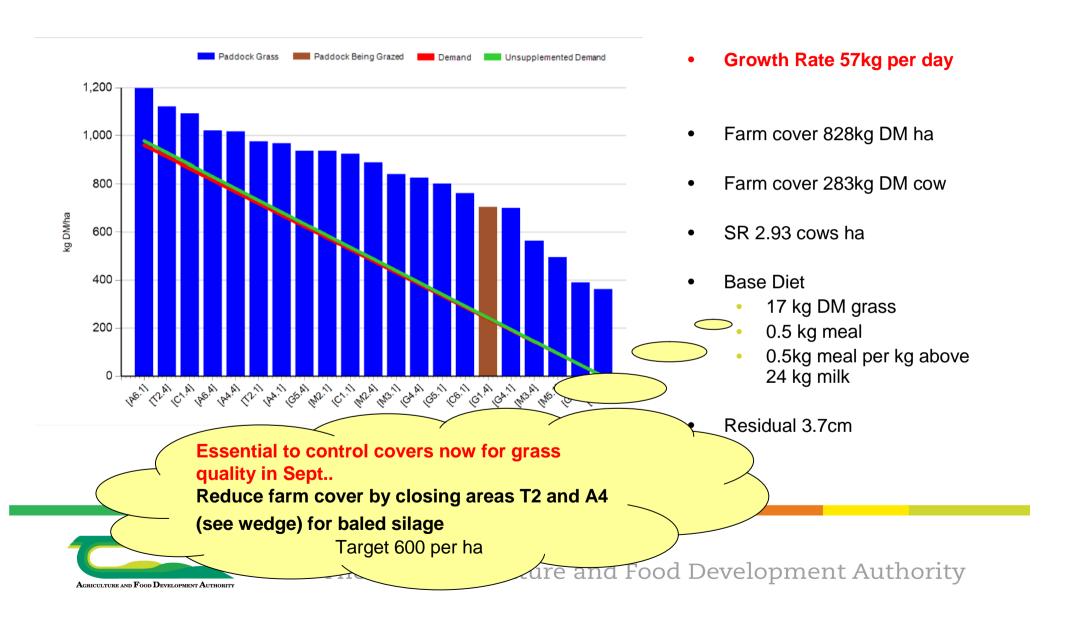
Essential to control covers now for grass quality in Sept..

Reduce farm cover by closing areas T4 and C5 (see wedge) for baled silage

Target 600 per ha

are and Food Development Authority

Current Situation-Feed to Yield



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

Herd Base² Production Level (litres)

Herd Calving Interval	6000	7000	8000
401	€9,660³	€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

¹Relative to a 375 day calving interval

³ Based on a 30cpl annualised milk price





² Based on 305-d yield for a herd with 370 day calving interval