

Breeding the Optimal Type Cow

Johnstown Herd Profile

	Milk Kg	Fat %	Prot %	Surv% CI Days	Milk % Cont	Fertility % Cont	Calv % Cont	Beef % Cont	Maint % Cont	Mgmt % Cont	Health % Cont	EBI €
Cows	84				€ 51	€ 63	€ 38	€ -6	€ 1	€ 3	€ 2	€ 153
	8.8	0.09	1.9		31.1%	38.2%	23.1%	-3.7%	0.8%	1.7%	1.4%	
	6.9	0.07	-3.1									
Heifers	73				€ 63	€ 88	€ 45	€ -10	€ 6	€ 3	€ 1	€ 196
	10.4	0.13	2.6		29.1%	40.8%	20.7%	-4.5%	2.6%	1.6%	0.6%	
	8.1	0.1	-4.4									

ICBF.com Irish Cattle Breeding Federation

Herd: 551kg milk solids @ 372 day calving interval

- Cow selection within herd- EBI & performance
- Select 7-8 high EBI bulls (genomic + proven)
 - High positive fertility index (>€100)
 - Milk sub-index >€80 for bull team
 - Functional traits & calving ease for heifers
- Similar bulls used for spring and autumn calvers
- Inbreeding check via HerdPlus (ICBF.com)

EBI and Cow Performance (900 cows on 8 herds)

	High	Q2	Q3	Low
EBI	€137	€90	€42	-€9
Milk Index	43	30	23	11
Fert Index	56	29	-3	-35
Milk kg PD	65	32	97	122
Milk Solids kg	1.60	1.54	1.51	1.47
Annual Solids kg	586	562	551	536
Milk kg	20.8	20.3	20.9	20.7
Fat %	4.25	4.17	3.93	3.81
Pro %	3.53	3.46	3.36	3.29
Milk value	€6.66	€6.41	€6.31	€6.14
Cent per litre	32.4	31.7	30.3	29.5
Diff per 100 cows	-	-€9,125	-€12,775	-€18,980

Milk measured as lifetime average per day in herd for mature cows

- EBI increased daily average milk value per cow
- High EBI cows had lower PD milk kg and higher sub index
- Similar daily milk volume but higher milk components
- Better fertility increased days in milk per year