

EBI & PTAs

	EBI €	Milk SI	Fert SI	Main SI	Milk kg	Fat kg	Prot kg	Fat %	Prot %	CI	Suv
Elite	214	61	102	16	+37	+11	+7	+0.16	+0.10	-5	+3
NA	110	38	39	7	+71	+6	+5	+0.06	+0.05	-2	+1

	Elite	NA
Milk yield (kg)	5,880	5,764
Fat (%)	4.51	4.17
Protein (%)	3.73	3.52
Milk solids (kg)	482	446
Milk price (c/l)	36.6	33.9
Milk solids/kg body weight	0.88	0.80
Milk solids/ha (kg)	1,304	1,192
Net profit/cow (€)	861	585
Net profit/ha (€)	2,367	1,608



Key outcomes

>€270/cow or >€750/ha



..... > predicted by EBI



Fertility/longevity

73% v 58% 6 week in-calf rate
57% v 36% Survival to start of 5th lactation
17% v 27% Replacement rate

Milk output/price

Milk composition: 8.2% v 7.7% = +2.7c/l
Milk solids output +36kg/cow or +10%/ha!

Greenhouse gas emissions

Similar emissions per cow and per ha
Greater milk solids in Elite dilutes emissions
11% less emissions/milk solids

Crossbreeding with Jersey

>€260/cow or >€800/ha - NA

Milk output/price

.....+€30/+€150 - Elite

Milk composition +6 c/l to +3.5 c/l

Milk solids/cow +43 kg to +12 kg/cow

Milk solids/ha +160 kg (+14%) to +70 kg (+5.5%)

Reduced Size

~50kg

Higher intake capacity

3.5% v 3.1% of body weight

>1 kg MS/kg body weight

SR +4%



Maximise EBI - fertility is KEY: €100 Fert SI!
Cow for the system – appropriate balance!

Sustainable dairying/integrated dairy beef

- Cont'd validation of Irish Dairy Breeding Programme & EBI
- To evaluate feasibility of strictly dairy female sexed & high merit beef semen
- Deliver strategies to maximise calf crop while enhancing environmental sustainability



5 New Genotypes

Nat Av - HoFr representing average EBI nationally

ELITE - HoFr top 1% based on EBI nationally

HIBEEF - HoFr top 1% based on Beef SI

JE – High EBI purebred Jersey

F1 – High EBI HoFr x JE

