£PLI and Sire Selection

Dairying and Pigs Development Branch, Greenmount Campus
College of Agriculture, Food and Rural Enterprise

Relative Importance of Sire Selection Criteria

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- Northern Ireland farmers asked to score range of traits from 1 (not important) to 5 (very important).

Bull selection criterion	Mean Rating	% rated as Important or Greater
Milk composition	4.05	83
Other	3.84	64
Milk yield	3.70	76
Type traits	3.61	69
Cost	2.85	37
£PLI	2.79	35

Source: AFBI-CAFRE Heifer Survey (2007)

Farmers' Breeding Wish List

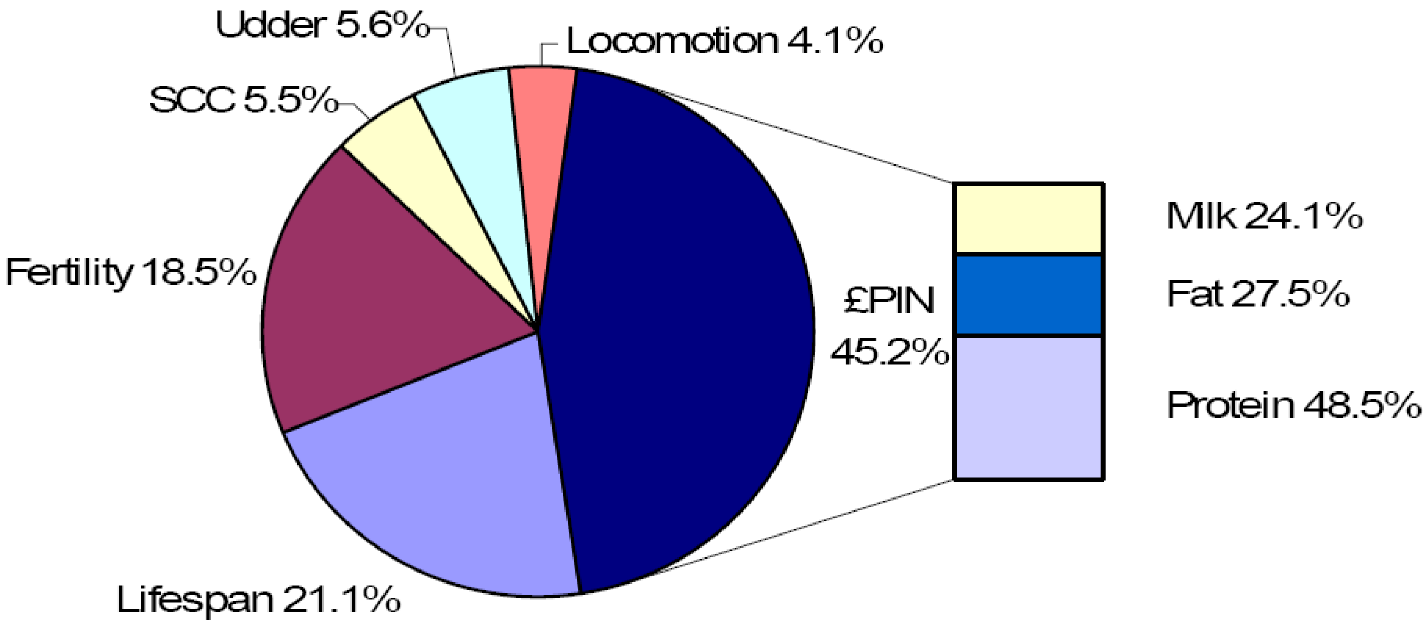
Predicted Transmitting Abilities (PTAs) for:

- Increased Yield … Milk, Fat and Protein kg
- Improved Milk Quality … Fat and Protein %
- Reduced SCC/Mastitis … SCC, Udders
- Increased Longevity … Lifespan
- Improved Fertility … Fertility Index
- Reduced Lameness … Locomotion/Feet & Leg
- No Calving Problems … Calving Ease
- ***All of the above*** ***… £PLI***

Profitable Lifetime Index (£)

Profitable Lifetime Index - £PLI

- Profitable Lifetime Index (£PLI) summarises all production and health PTA's into a single financial figure.
- Expressed on a lifetime basis and indicates extra margin a bull or cow is expected to pass onto it's progeny in it's lifetime.



Source: *DairyCo*

Breeding Should Be All About Balance

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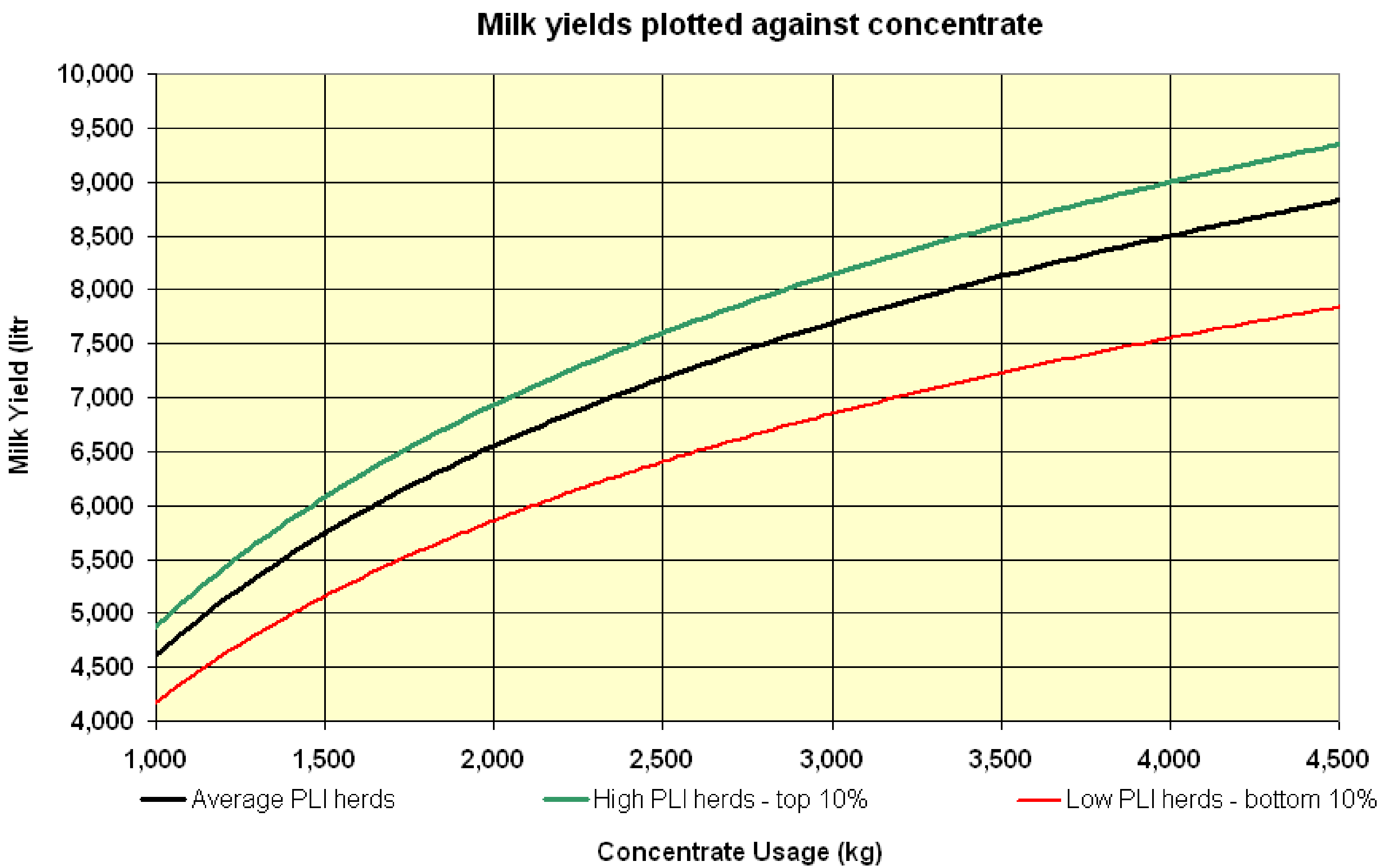
Longevity

Milk Yield

Cow lives as long as you need her too, being healthy and less prone to disease

Cow produces efficiently for as long as she is profitable to suit your system

£PLI increases efficiency of production



Source: Promar, 2011

holstein
for profitability

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Fact Sheet - Powered By CDI

LYNBROOK JANCEN ET BLF CVF
46272004770562
Date of birth: 20/10/2004

Sire: O-BEE MANFRED JUSTICE PI ET *TL *TV DPF RDF 65000122358313 **EX94**

Dam: LYNBROOK MANAT CLASSIC 46272004790424

Holstein Production Proof

Interbull Production Proof	PTA2010 (8/11)

Milk	Fat kg	Ptn kg	Fat %	Ptn %	Rel%	PIN	PLI	Dtrs(UK)	Hds(UK)	Hd1%
470	32.8	25.1	0.17	0.12	74	£56	£251	0	0	0

Lifespan	Lifespan Rel %	Fert Index	FI Rel %	mCE %	mCE Rel %	dCE %	dCE Rel%
0.5	49	0.3	60	N/A	N/A	N/A	N/A

Trait		+30	+20	+10	0	-10	-20	-30	SCCRel% **80**	Value
Somatic Cell C	Poor								Excellent	-13

Type Proof

Click here for type proof daughter distribution

Interbull Type Proof	PTAT2010 (8/11)	0 UK dtrs	0 UK Hds	83% Rel

Trait		-3	-2	-1	0	+1	+2	+3		Value.
Type Merit	Poor								Excellent	-0.04
Mammary	Poor								Excellent	-0.06
Legs & feet	Poor								Excellent	-0.12
Stature	130 cm								154 cm	-1.01
Chest width	Narrow								Wide	0.83
Body depth	Shallow								Deep	-0.87
Angularity	Coarse								Open Rib	-1.66
Rump angle	High pins								Low pins	-0.64
Rump width	Narrow								Wide	1.69
Rear leg side	Straight								Sickled	0.27
Foot angle	Low								Steep	0.86
Fore udd att	Loose								Tight	-0.1
Rear udder ht	Very low								Very high	-1.35
Udder supp	Broken								Strong	-0.94
Udder depth	Below hock								20cm above	0
Front teat pl	Outside								Close	-0.25
Teat length	Short								Long	-0.43
Rear teat pl	Apart								Close	-1.75
Teat pos side	Close								Apart	N/A
Temperament	Poor								Good	N/A
Ease of milk	Slow								Fast	N/A
Locomotion	Poor								Excellent	N/A
Cond Score	Low								High	N/A

What is this ?

What does it tell you ?

How do you use it ?

Sire proof for Lynbrook Jancen
- highest current ranking £PLI bull (£251).

Source: *Holstein UK, Aug 2011*

How to Read Genetic Proofs

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6. Reliability

holstein for profitability

Fact Sheet - Powered By CDI

LYNBROOK JANCEN ET BLF CVF
462720047705
Date of birth: 20/10/2004

1. Bull's "personal" & pedigree details

Sire: O-BEE MANFRED JUSTICE PI ET *TL *TV DPF RDF 650001223583 EX94

Dam: LYNBROOK MANAT CLASSIC 46272004790424

Holstein Production Proof

Interbull Production Proof — PTA2010 (8/11)

2. Proof-run details:
- where & when

Milk	Fat kg	Ptn kg	Fat %	Ptn %	Rel%	PIN	PLI	Dtrs(UK)	Hds(UK)	Hd1%
470	32.8	25.1	0.17	0.12	74	£56	£251	0	0	0

Lifespan	Lifespan Rel %	Fert Index	FI Rel %	mCE %	mCE Rel %	dCE %	dCE Rel%
0.5	49	0.3	60	N/A	N/A	N/A	N/A

Trait		+30	+20	+10	0	-10	-20	-30	SCCRel% 80	Value
Somatic Cell C	Poor								Excellent	-13

3. Bull's production proofs

4. Bull's non-production proofs & reliabilities

5. Genetic merit indices
- £PIN and £PLI

Reliability of Genetic Proofs

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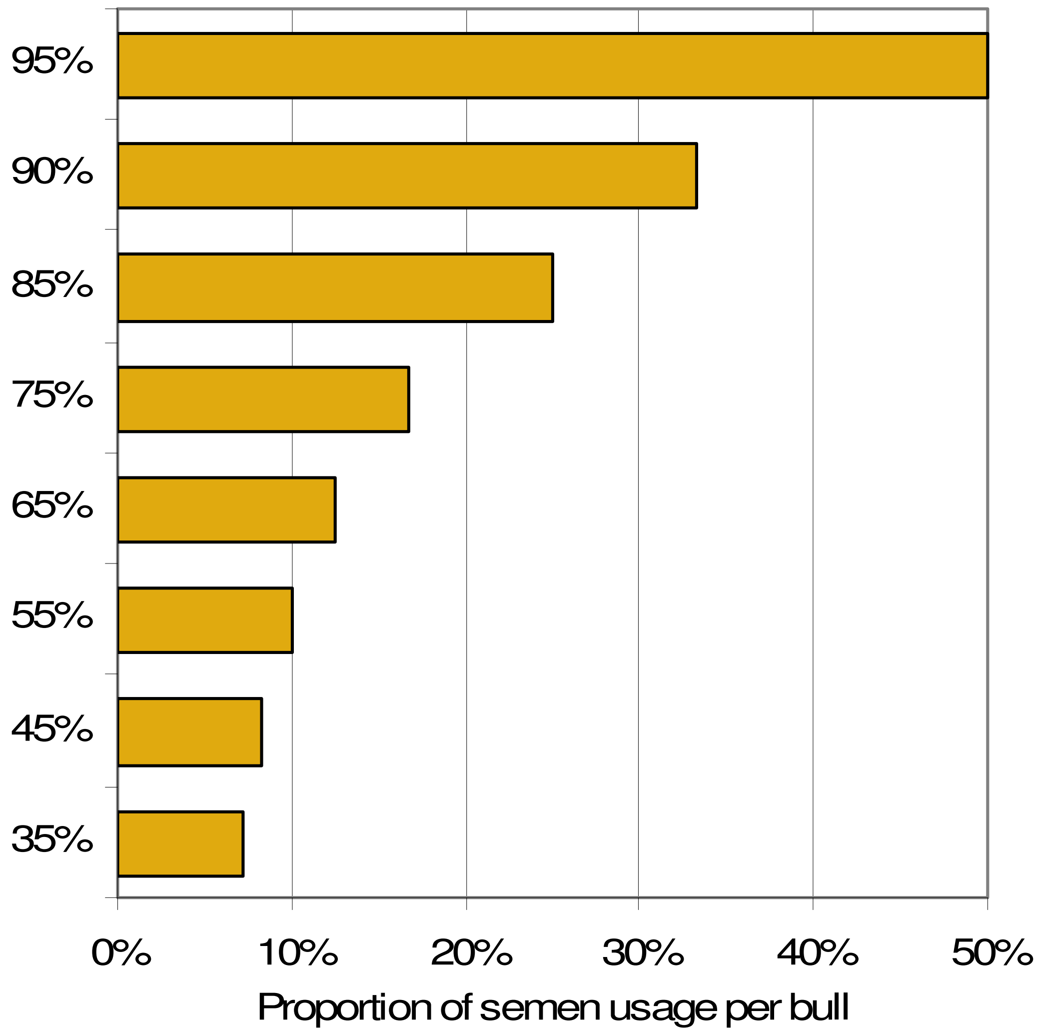
Reliability	Comment	Description
10-29%	Extremely Low	Some Pedigree Indexes – involving estimates from relatives.
30-40%	Very Low	Most Pedigree Indexes – involving estimates from parents with reasonable reliabilities.
41-55%	Low	Some Pedigree Indexes. Usually the bull is well proven and the dam has very high reliability.
56-65%	Low to Moderate	Bulls with officially published PTAs (minimum 50%). Cows with 3 lactations.
66-75%	Moderate	General maximum for most cows (3 lactations +). May be exceeded if a cow has many ET daughters in the UK.
76-90%	Moderate to High	Bulls with an initial progeny test through AI.
91-98%	High*	Proven bulls with a large number of daughters from a wide cross section of herds.
99%	Very High*	Widely proven and used AI bulls.

*Recommended to choose bulls with high reliability

Source: *DairyCo Breeding+*

How much semen of one bull?

Using Reliability as a guide:



Source: *DairyCo*

Explaining PTAs
- Production Traits

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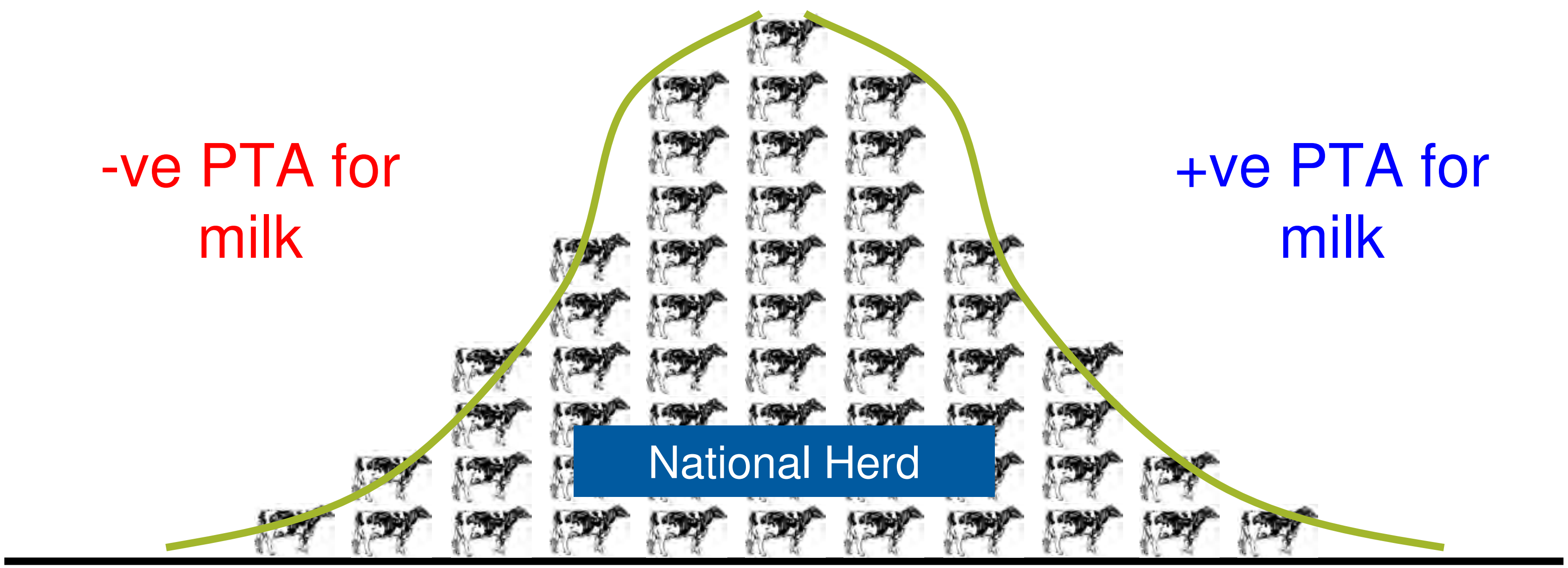
Average cow
PTA = 0

Current 2010 base reflects lactation 1, 2 and 3 production of average 2005-born Holstein cow (7,848 litres)

-ve PTA for milk

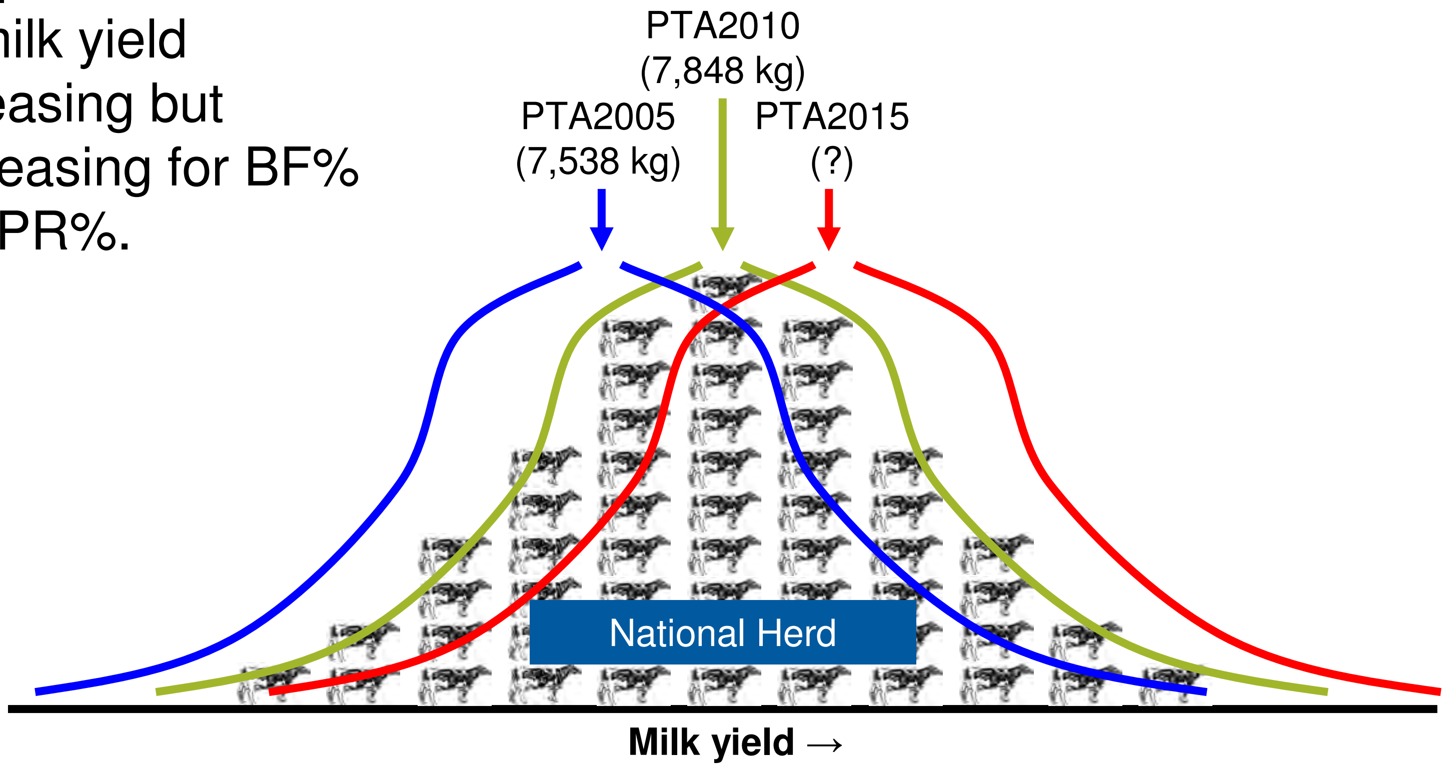


+ve PTA for milk

Milk yield →

Explaining Genetic Base

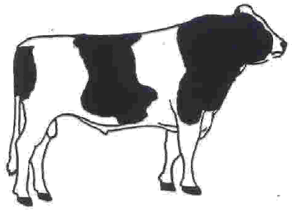
- Each breed has it's own genetic base – *cannot compare proofs of a Holstein bull with an Ayrshire, Jersey or Friesian.*
- Base year changes every 5 years to reflect changes in national population - *cannot compare PTA2010 proofs with PTA2005 proofs.*
- <u>Note</u>: Genetic base for milk yield increasing but decreasing for BF% and PR%.



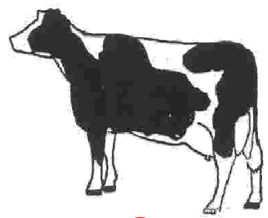
Predicted Transmitting Ability (PTA)

PTAs for:

- Milk yield (kg)
- Fat yield (kg)
- Protein yield (kg)
- Fat %
- Protein %
- Fertility
- SCC
- Lifespan
- Calving ease - direct
  - maternal

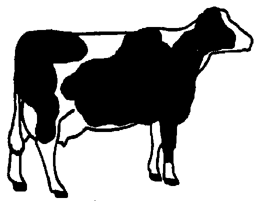


Milk Yield



Bull x **Cow**

PTA = 100 PTA = 0



Progeny (heifer)

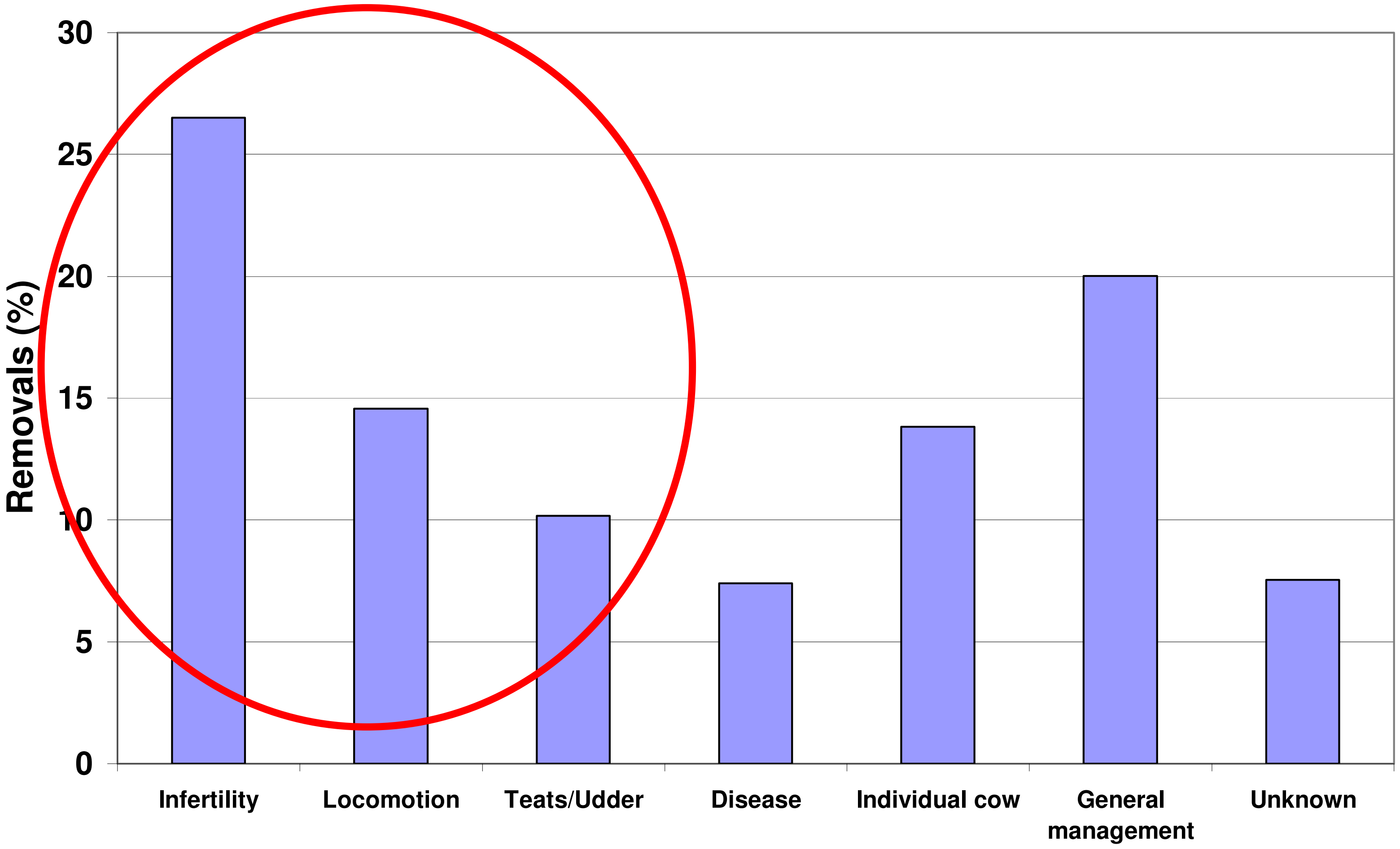
Breeding Value = 100 + 0 = 100

PTA = 50

Predicted progeny production potential:

Genetic Base Production	7,848 litres
Progeny Breeding Value	100 litres
Progeny Genetic potential	7,948 litres

Reasons for Removal of Cows



Over 50% of cows are removed for infertility, lameness or mastitis.

Source: *AFBI Hillsborough*

Non-Productive Traits
- Do you want +ve or –ve?

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- For some traits you want to use +ve sires but others –ve!

  - Confusing … How do you know what way to go?

- Ask yourself the questions:

- Do I want my herd <u>fertility</u> to get better or worse?	+ve
- Do I want my herd lifespan to go up or down?	+ve
- Do I want my herd <u>SCC</u> to go up or down?	-ve
- Do I want to use an easy calving bull on my heifers (Direct)	+ve
- Do I want my cows to calf easier themselves	+ve

Fertility Index

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- Fertility Index introduced as component of £PLI in May 2005 but slow to be adopted by some AI companies.
- Practical tool based on national milk recording records:
  - Calving Interval.
  - Non return rate.
- Fertility Index:
  - typically ranges from -15 to +15.
  - **bulls with higher figures have better fertility.**
- Each 1-point increase in FI (e.g. from 2 to 3) predicted to:
  - decrease calving interval by 0.5 days.
  - increase non-return rates by 0.5%.

Select positive fertility bulls

Source: *DairyCo*

Sire Fertility Index
- The Real Practical Benefit

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Sire Name	Sire Fertility Index	Average daughter CR-1%	Average daughter CI (days)
<u>Lowest FI sires</u>:			
Shaker	-12.2	36.4	395
Bestow	-6.4	33.3	406
Promise	-5.2	25.7	399
Weighted average	**-9.6**	**33.1**	**397**
<u>Highest FI sires</u>:			
Roxell	+6.7	61.9	361
Jamboree	+8.0	50.0	379
Tugolo	+10.5	56.0	382
Weighted average	**+8.4**	**54.4**	**376**
Difference	**18.0**	**21.4**	**-21.8**
Difference/Unit FI		**1.2**	**-1.2**

Note: Weighted mean results from Greenmount Future Herd based on fertility records from 2004-2011.

Better daughter fertility worth £7,100 per 100 cows per year

Lifespan

- Lifespan PTA:
  - based on national milk recording records.
  - expressed in term of lactations.
  - typically ranges from -0.5 to +0.5.
  - **bulls with +ve Lifespan PTA should increase progeny longevity.**

- Sires with a positive Lifespan PTA should increase progeny longevity.

  e.g. daughters of a +0.5 bull predicted to survive, on average, 0.5 lactations longer than those of a zero PTA bull.

- Lifespan PTA takes account of the main reasons cows are culled from your herd - infertility, lameness & mastitis.

Select positive lifespan bulls

Source: *DairyCo*

Lifespan – The Impact of Genetics

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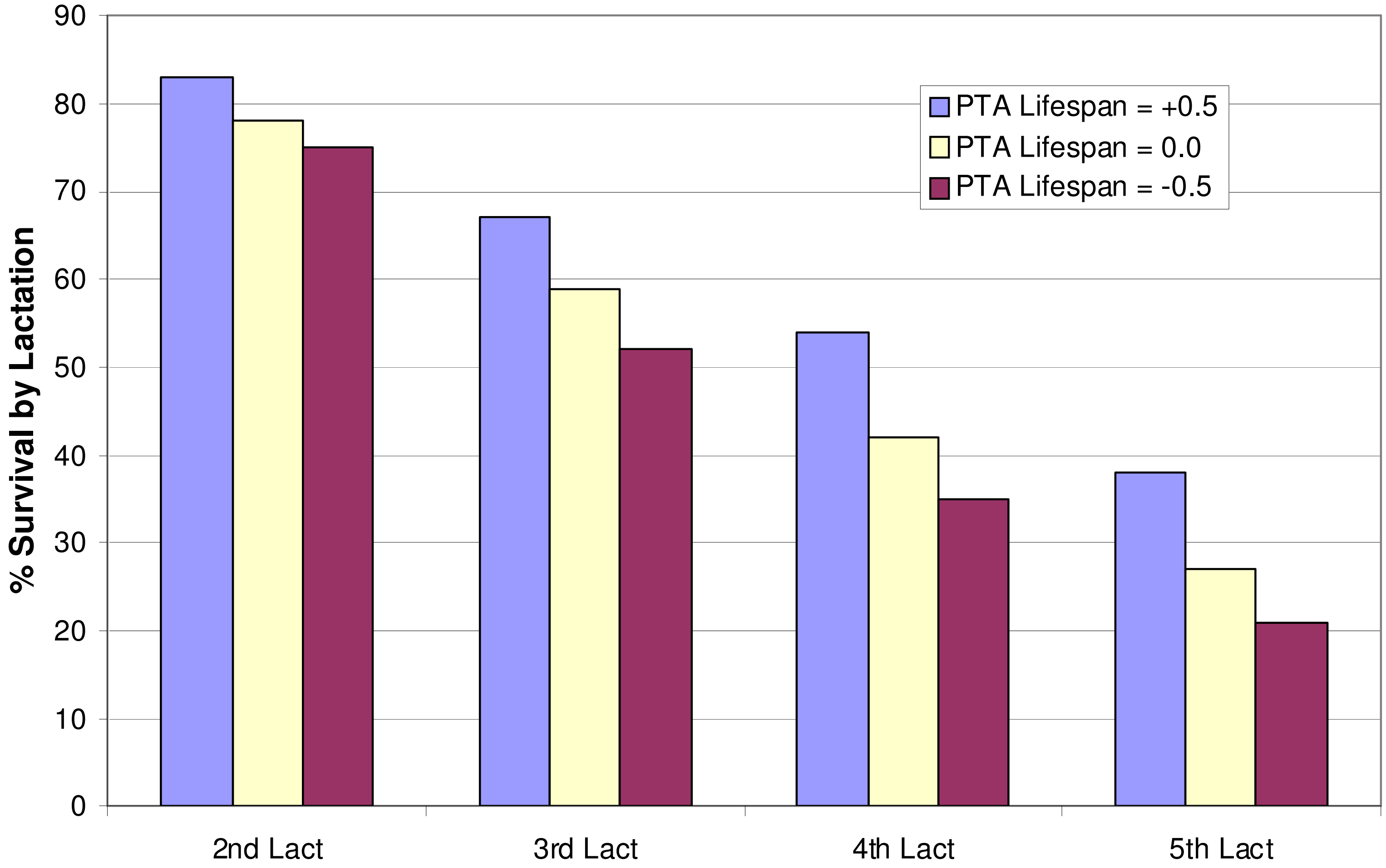

Source: *DairyCo*

Positive lifespan bulls have longer surviving daughters

Somatic Cell Count

- SCC PTA:
  - based on national milk recording records.
  - expressed as a percentage.
  - typically ranges from -30 to +30.
  - **bulls with a negative SCC PTA should reduce progeny SCC.**

- Each 1% change in a sire's SCC PTA is predicted to change his daughters' SCC by 1%.

  e.g. SCC of daughters of a bull with a SCC PTA of -10% expected to be 10% lower than daughters of a bull with a SCC PTA of zero.

- Because of strong link between SCC and mastitis, SCC PTA will reduce mastitis incidence.

Select negative SCC bulls

Source: *DairyCo*

Issues Addressed in the UK

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- Extreme Angularity is -ve for Productive Life & Fertility
- Extreme Stature and Body Depth is -ve for Lifespan
- UK ↓ emphasis of Stature, Angularity and Body Depth
- National Type Merit Index re-developed to totally reflect a BALANCE of **Functionality & Longevity**
  - ✓ **Emphasis on Mammary, Legs & Feet & Lifespan**
  - ✓ Doesn't mean breeding small cows!

Type Proofs

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Type Proof										
UK Type Proof		PTAT2010 (8/10)			796 Dtrs(UK)		162 Hds(UK)		98% Rel	
Trait		-3	-2	-1	0	+1	+2	+3		Value.
Type Merit	Poor								Excellent	0.18
Mammary	Poor								Excellent	-0.15
Legs & feet	Poor								Excellent	0.63
Stature	130 cm								154 cm	-0.02
Chest width	Narrow								Wide	2.3
Body depth	Shallow								Deep	0.16
Angularity	Coarse								Open Rib	-1.93
Rump angle	High pins								Low pins	1.36
Rump width	Narrow								Wide	0.87
Rear leg side	Straight								Sickled	-1.29
Foot angle	Low								Steep	1.17
Fore udd att	Loose								Tight	0.24
Rear udder ht	Very low								Very high	-1.02
Udder supp	Broken								Strong	-1.52
Udder depth	Below hock								20cm above	0.4
Front teat pl	Outside								Close	0.18
Teat length	Short								Long	-0.46
Rear teat pl	Apart								Close	1.62
Teat pos side	Close								Apart	-2.05
Temperament	Poor								Good	0.11
Ease of milk	Slow								Fast	-0.36
Locomotion	Poor								Excellent	0.37
Cond Score	Low								High	2.54

Ideal Cow with Mammary and Legs/Feet scores greater than 1.0

Ideal Cow around Centre

Ideal Cow around Centre

Ideal Cow generally right of Centre for Udder Traits and around Centre for Teat Traits

Ideal Cow right of Centre

Composite Type Traits based on Type Classification
- Dairy Type
- Mammary (>1.0)
- Legs and feet (>1.0)

Dairyness traits

Legs and Feet Traits
-Rear leg
-Foot angle

Mammary Traits
- Udder attachment (F/R)
- Udder support
- Udder depth
- Front teat placement
- Teat length
- Teat position

Other traits

Source: *Holstein UK. Type proofs for O-Bee Manfred Justice (Oman).*


Virtual Holstein UK - Individual Scoring Traits - Windows Internet Explorer
F:\Technology\Dairy\Future Herd\Technologies\Sustainable dairy cow breeding\06. Reference Material\HUKI Virtual Cow\Saved webpages
Live Search
Virtual Holstein UK ...
Holstein Perfect Cow
Virtual Holstein UK
Virtual Holstein UK ...
Virtual Holstein ...
Page
Tools
Return to Start
Individual Scoring Traits
Click and rollover the icons to view the scoring traits in more detail.
Please Note: If you cannot view the traits when clicking on them and just get a blank square, you may need to download the latest version of flash player by clicking on this link - Latest Flash Player.
STATURE
REAR LEGS SET
FRONT TEAT PLACEMENT
CHEST WIDTH
FOOT ANGLE
REAR TEAT POSITION
BODY DEPTH
FORE UDDER ATTACHMENT
TEAT POSTION
ANGULARITY
REAR UDDER HEIGHT
TEAT LENGTH
RUMP ANGLE
CENTRAL LIGAMENT
BODY CONDITION SCORE
RUMP WIDTH
UDDER DEPTH
LOCOMOTION
The Ideal Holstein Cow
Learn More >
Internet | Protected Mode: On
100%

Ideal Cow: Holstein UK

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		1	2	3	4	5	6	7	8	9	
Stature	Short										Tall
Chest Width	Narrow										Wide
Body Depth	Shallow										Deep
Angularity	Coarse										Open
Rump Angle	High pins										Extreme slope
Rump Width	Narrow										Wide
Rear Legs Set	Straight										Sickled
Foot Angle	Low										Steep
Fore Udder Attachment	Weak										Tight
Rear Udder Attachment	Low										High
Central Ligament	Weak										Strong
Udder Depth	Deep										Shallow
Front Teat Placement	Outside										Inside
Rear Teat Position	Outside										Crossing
Teat Position	Close										Far apart
Teat length	Short										Long
Locomotion	Short Stride										Long stride
Body Condition Score	Poor										Grossly fat

Source: Adapted from Holstein UK Ideal Cow.

Type and Lifespan

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MAIN ARTICLE

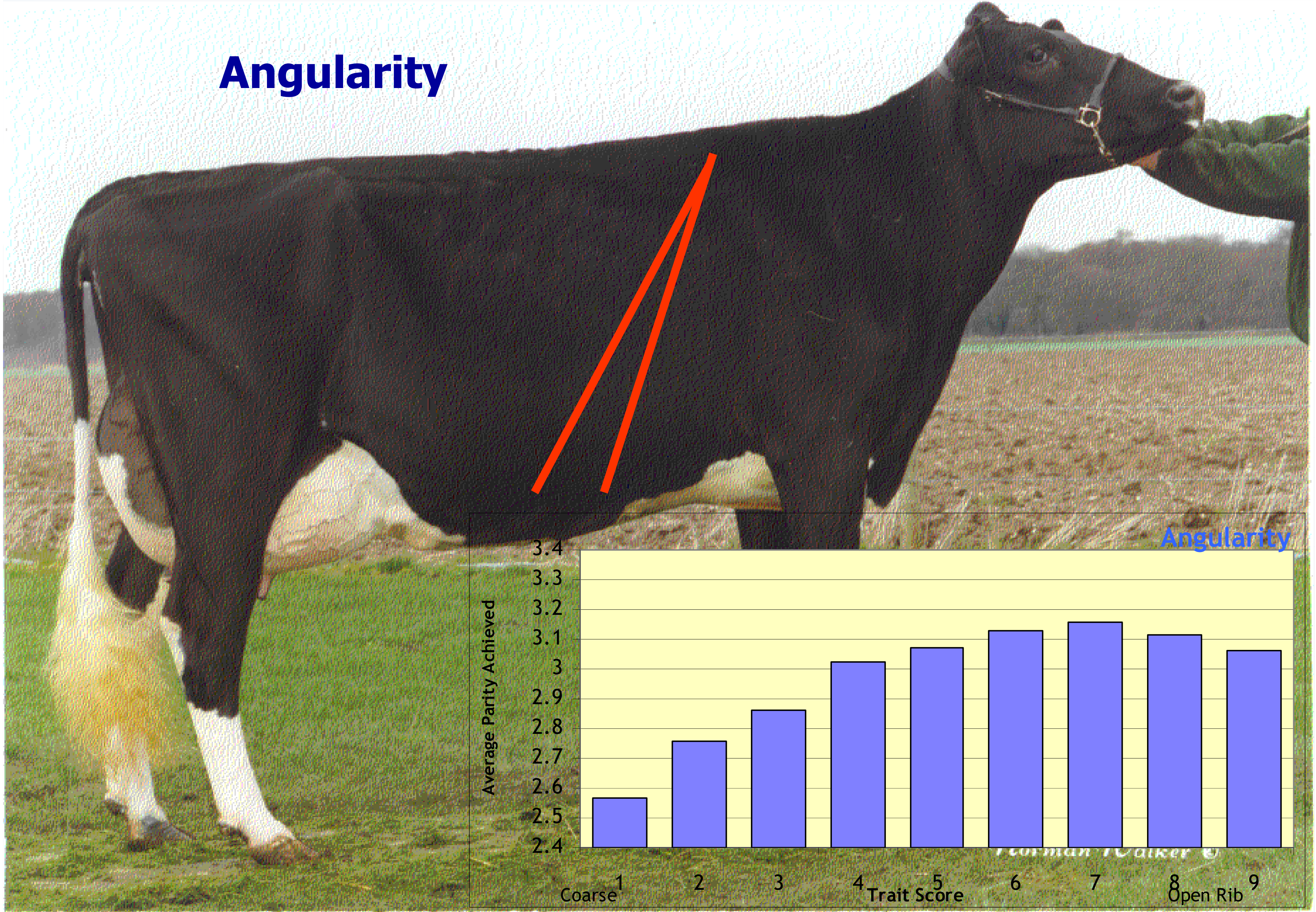
Selecting for type can be skin deep, so focus on fitness traits to increase longevity

Plain Janes offer lifespan gains

- "Desirable" dairyness traits (stature, angularity, rump angle, etc) negatively associated with longevity.
- Mammary and feet/legs composite type traits have been developed to <u>indirectly</u> improve longevity.
- Durability can be measured <u>directly</u> through:
  - PTA fertility
  - PTA SCC
  - PTA lifespan
- **Select on £PLI first, shortlist for your specific needs and then consider type.**
- Use a team of around 4 bulls each year.
- Follow a balance of 'function' - not 'fashion' (Lucy Andrews, Holstein UK)

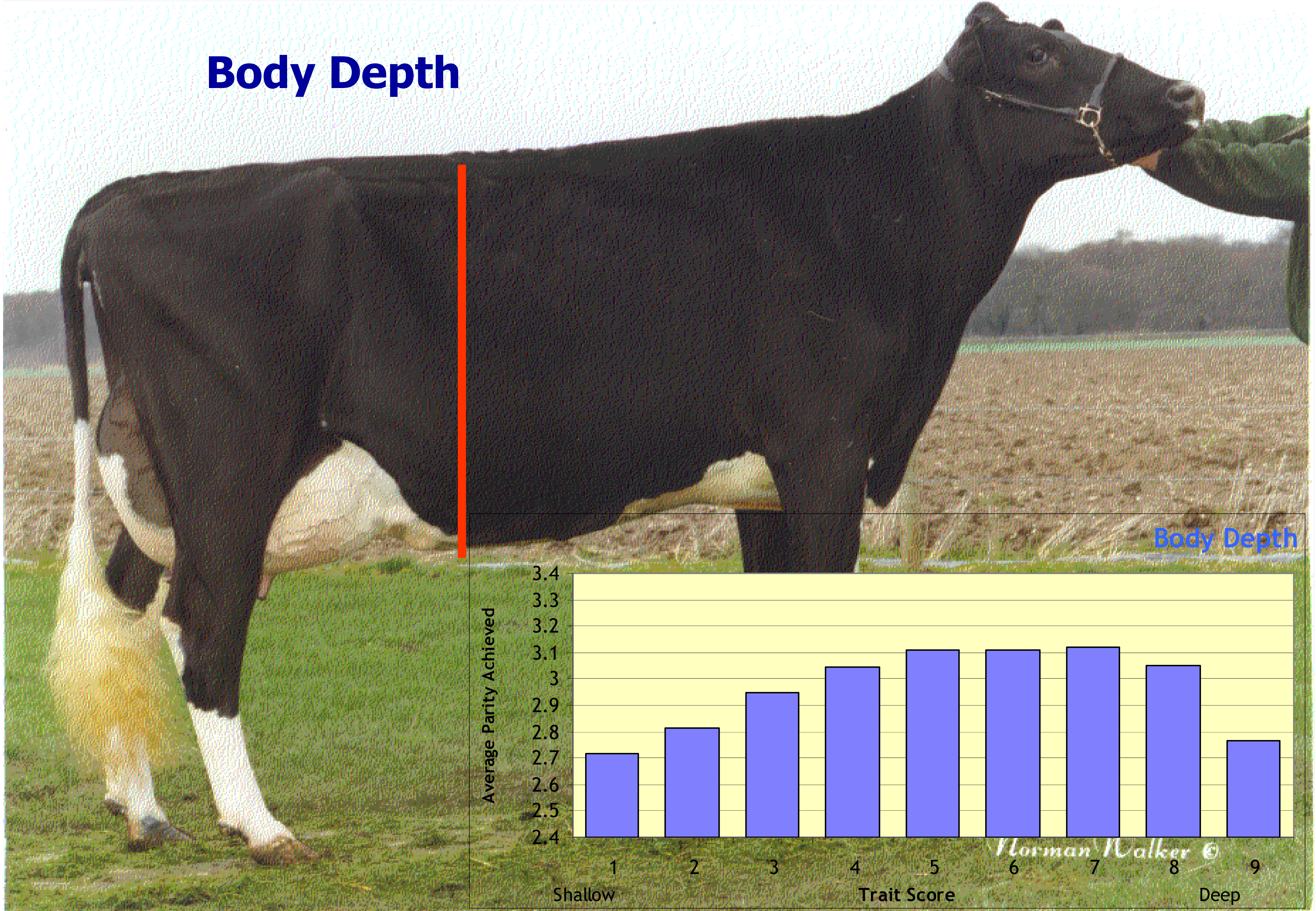
Source: *Cow Management, Aug/Sep 2010.*

Angularity

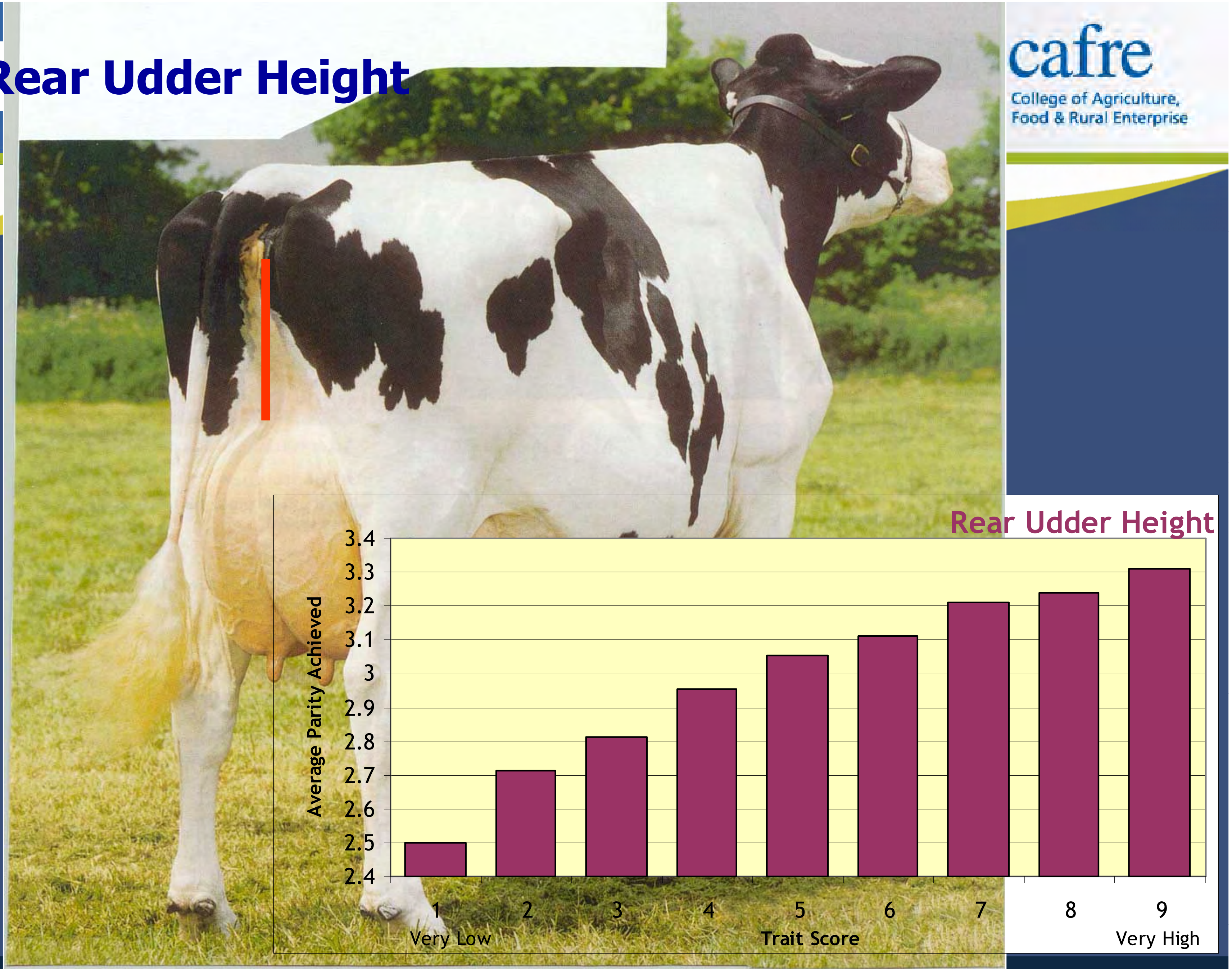


Angularity
Average Parity Achieved
3.4
3.3
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
1
2
3
4
5
6
7
8
9
Coarse
Trait Score
Open Rib

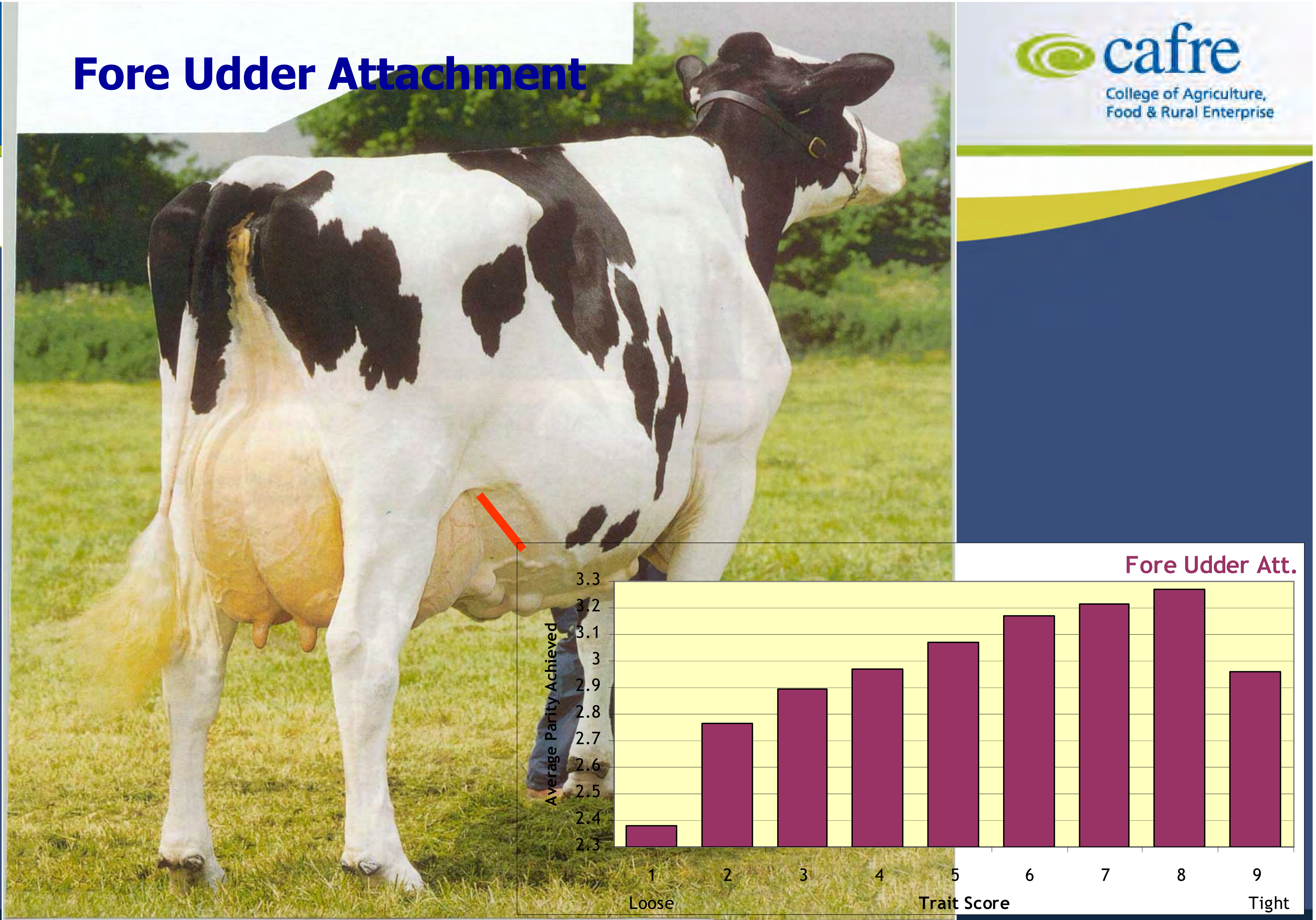
Body Depth


Body Depth
Average Parity Achieved
3.4
3.3
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
1
2
3
4
5
6
7
8
9
Shallow
Trait Score
Deep
Norman Walker ©

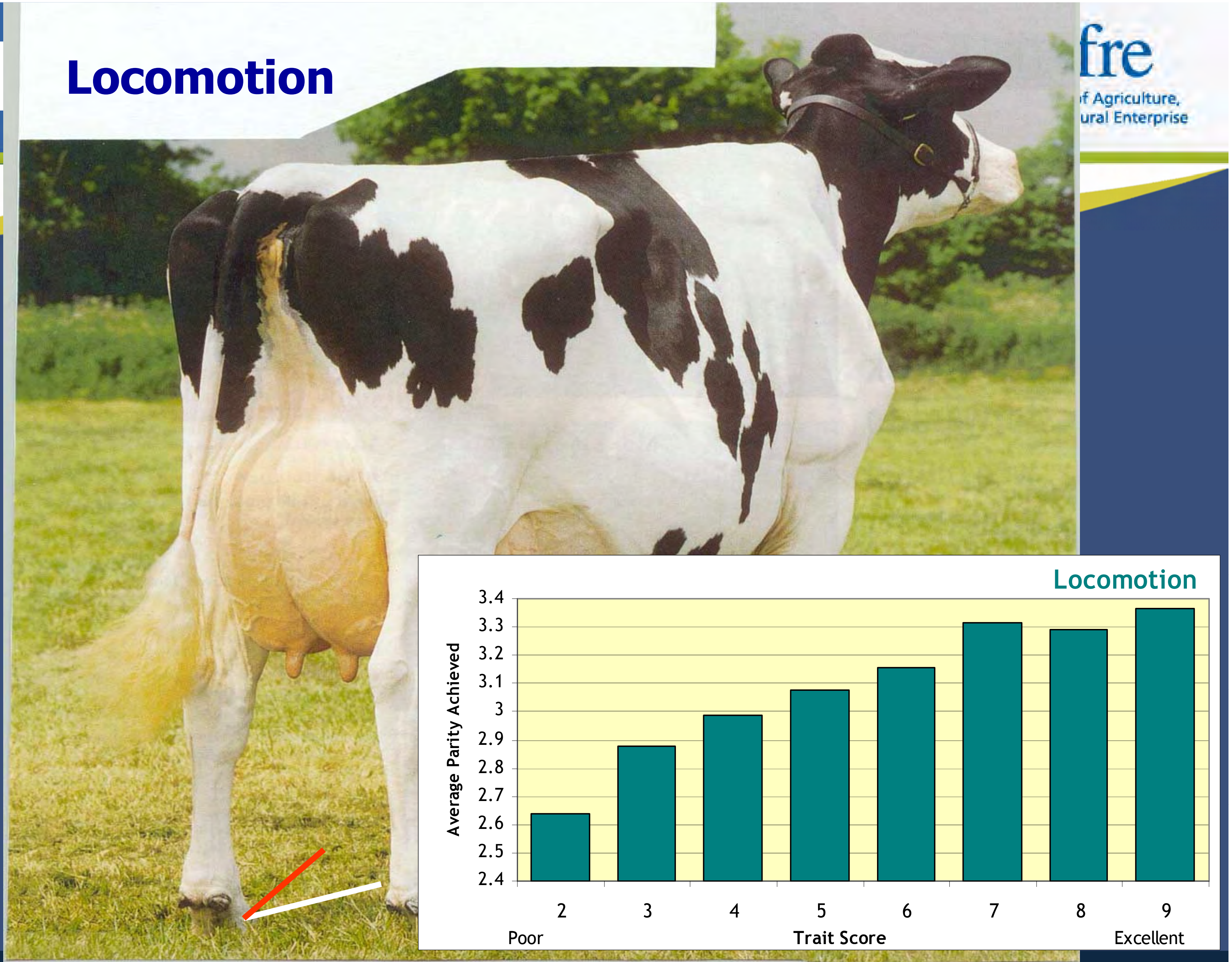
Rear Udder Height



Fore Udder Attachment



Locomotion



Locomotion
Average Parity Achieved
3.4
3.3
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
2
3
4
5
6
7
8
9
Poor
Trait Score
Excellent

Future Herd
- Targets, Production and Genetics

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	Herd Target	Rolling Herd Performance	Average Herd Genetic Merit	Sire Selection Target
Milk yield (litres)	8,000	8,100	-135	> -135
Butterfat %	4.10	4.30	0.14	-
Protein %	3.50	3.41	0.08	≥ 0.08
Lifetime yield (litres)	40,000	34,900	0.3	≥ 0.3
Fertility (Calv Int)	375	393	0.3	≥ 0.3
SCC	< 150	130	-6.9	≤ -7

- Have a long term breeding strategy with clear targets.
- Monitor herd production against these targets.
- Select sires over a number of years to meet these targets.

Sire Selection - Autumn 2011 - Future Herd

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	Genetic Merit	Target	McCormick	Tiergan	Loydie*	Padbury
£PLI	£63	> £150	£222	£220	£215	£152
Milk kg	-135	≥ 0	313	388	456	124
Fat%	0.14	-	0.20	0.21	0.11	0.09
Prot%	0.08	≥ 0.08	0.07	0.07	0.10	0.14
Rel%	66	≥ 80	74	90	72	96
Sire Fert.	0.3	≥ 0.3	7.4	2.2	1.9	5.7
Sire LS	0.3	≥ 0.3	0.3	0.2	0.2	0.0
Sire SCC	-6.9	≤ -7.0	-21	-11	-16	-10
Dairy Type	-	≥ 1.0	1.3	2.0	0.8	1.6
- Mammary	-	≥ 1.0	1.2	1.8	0.5	1.3
- Feet/Legs	-	≥ 1.0	1.0	1.6	1.1	1.8

*Available sexed for use on heifers

Source: DairyCo bull proofs (Aug 2011)

Selecting sires with PTAs equal to or above the average genetic merit of herd should improve the genetic merit of the next generation.

Herd Genetic Report

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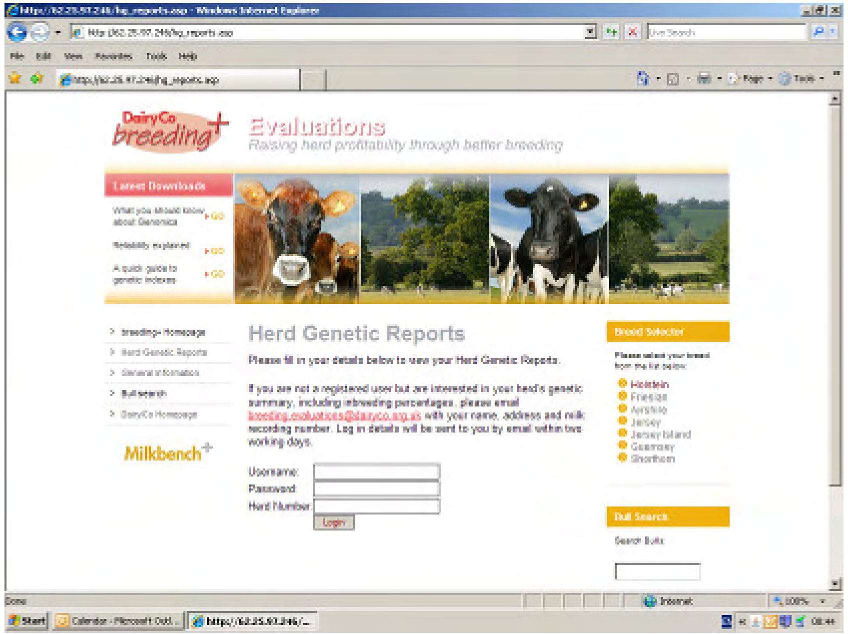
Available from:

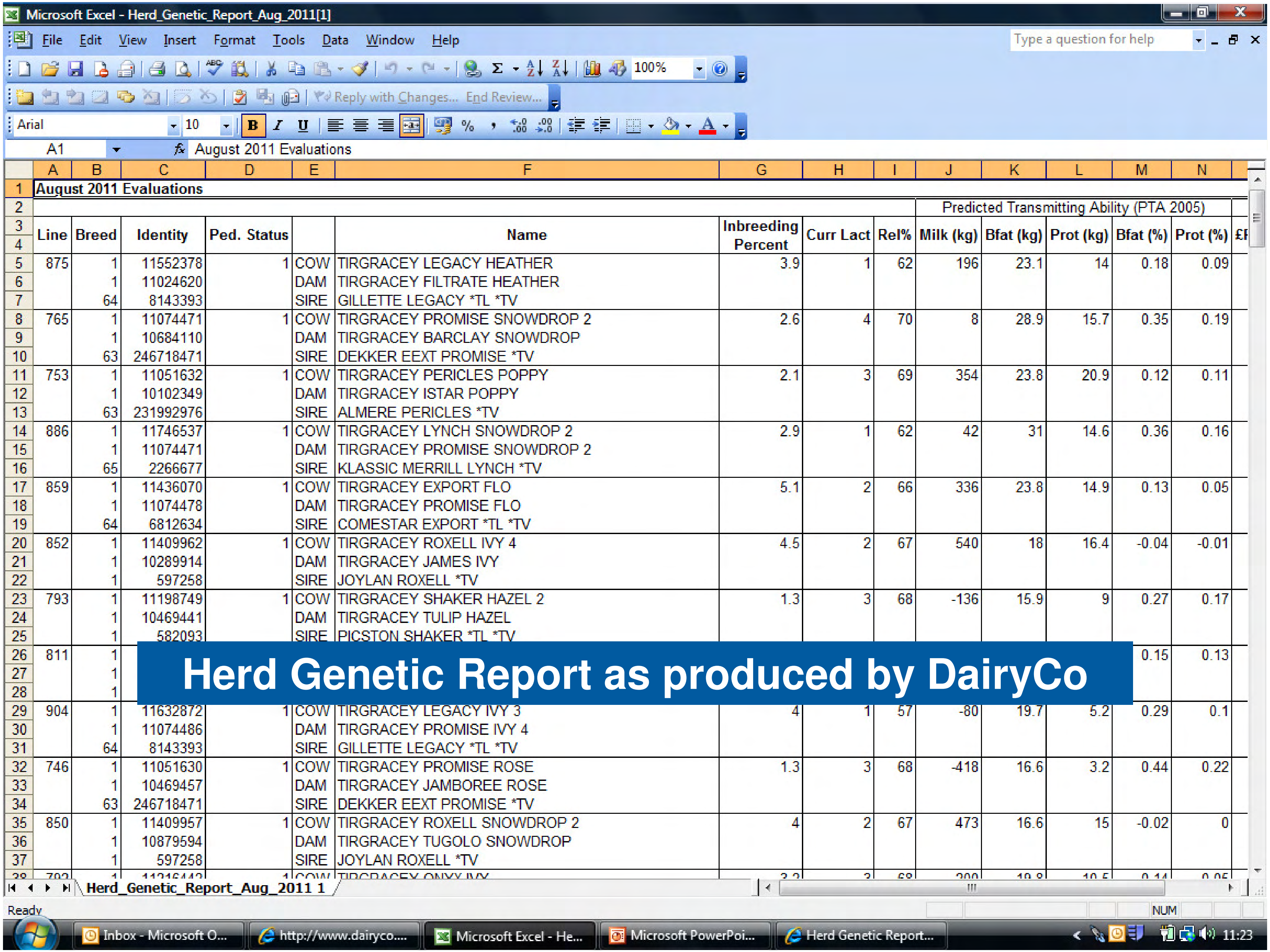
a) DairyCo
b) Milk records (United Milk Records or NMR)

Individual cow information on:

- Pedigree
- Milk PTA
- Fat yield PTA, Fat % PTA
- Prot yield PTA, Prot % PTA
- £PIN
- £PLI
- Inbreeding
- Reliability %



Herd Genetic Report – 'benchmarking tool' that gives genetic status of your herd which can aid bull selection if you have herd targets.



August 2011 Evaluations

Line	Breed	Identity	Ped. Status		Name	Inbreeding Percent	Curr Lact	Rel%	Milk (kg)	Bfat (kg)	Prot (kg)	Bfat (%)	Prot (%)
									Predicted Transmitting Ability (PTA 2005)				
875	1	11552378	1	COW	TIRGRACEY LEGACY HEATHER	3.9	1	62	196	23.1	14	0.18	0.09
	1	11024620		DAM	TIRGRACEY FILTRATE HEATHER								
	64	8143393		SIRE	GILLETTE LEGACY *TL *TV								
765	1	11074471	1	COW	TIRGRACEY PROMISE SNOWDROP 2	2.6	4	70	8	28.9	15.7	0.35	0.19
	1	10684110		DAM	TIRGRACEY BARCLAY SNOWDROP								
	63	246718471		SIRE	DEKKER EEXT PROMISE *TV								
753	1	11051632	1	COW	TIRGRACEY PERICLES POPPY	2.1	3	69	354	23.8	20.9	0.12	0.11
	1	10102349		DAM	TIRGRACEY ISTAR POPPY								
	63	231992976		SIRE	ALMERE PERICLES *TV								
886	1	11746537	1	COW	TIRGRACEY LYNCH SNOWDROP 2	2.9	1	62	42	31	14.6	0.36	0.16
	1	11074471		DAM	TIRGRACEY PROMISE SNOWDROP 2								
	65	2266677		SIRE	KLASSIC MERRILL LYNCH *TV								
859	1	11436070	1	COW	TIRGRACEY EXPORT FLO	5.1	2	66	336	23.8	14.9	0.13	0.05
	1	11074478		DAM	TIRGRACEY PROMISE FLO								
	64	6812634		SIRE	COMESTAR EXPORT *TL *TV								
852	1	11409962	1	COW	TIRGRACEY ROXELL IVY 4	4.5	2	67	540	18	16.4	-0.04	-0.01
	1	10289914		DAM	TIRGRACEY JAMES IVY								
	1	597258		SIRE	JOYLAN ROXELL *TV								
793	1	11198749	1	COW	TIRGRACEY SHAKER HAZEL 2	1.3	3	68	-136	15.9	9	0.27	0.17
	1	10469441		DAM	TIRGRACEY TULIP HAZEL								
	1	582093		SIRE	PICSTON SHAKER *TL *TV								
811	1											0.15	0.13
	1												
	1												
904	1	11632872	1	COW	TIRGRACEY LEGACY IVY 3	4	1	57	-80	19.7	5.2	0.29	0.1
	1	11074486		DAM	TIRGRACEY PROMISE IVY 4								
	64	8143393		SIRE	GILLETTE LEGACY *TL *TV								
746	1	11051630	1	COW	TIRGRACEY PROMISE ROSE	1.3	3	68	-418	16.6	3.2	0.44	0.22
	1	10469457		DAM	TIRGRACEY JAMBOREE ROSE								
	63	246718471		SIRE	DEKKER EEXT PROMISE *TV								
850	1	11409957	1	COW	TIRGRACEY ROXELL SNOWDROP 2	4	2	67	473	16.6	15	-0.02	0
	1	10879594		DAM	TIRGRACEY TUGOLO SNOWDROP								
	1	597258		SIRE	JOYLAN ROXELL *TV								

Herd Genetic Report as produced by DairyCo

Herd Genetic Report
- United Milk Records/Dairy Herd Management

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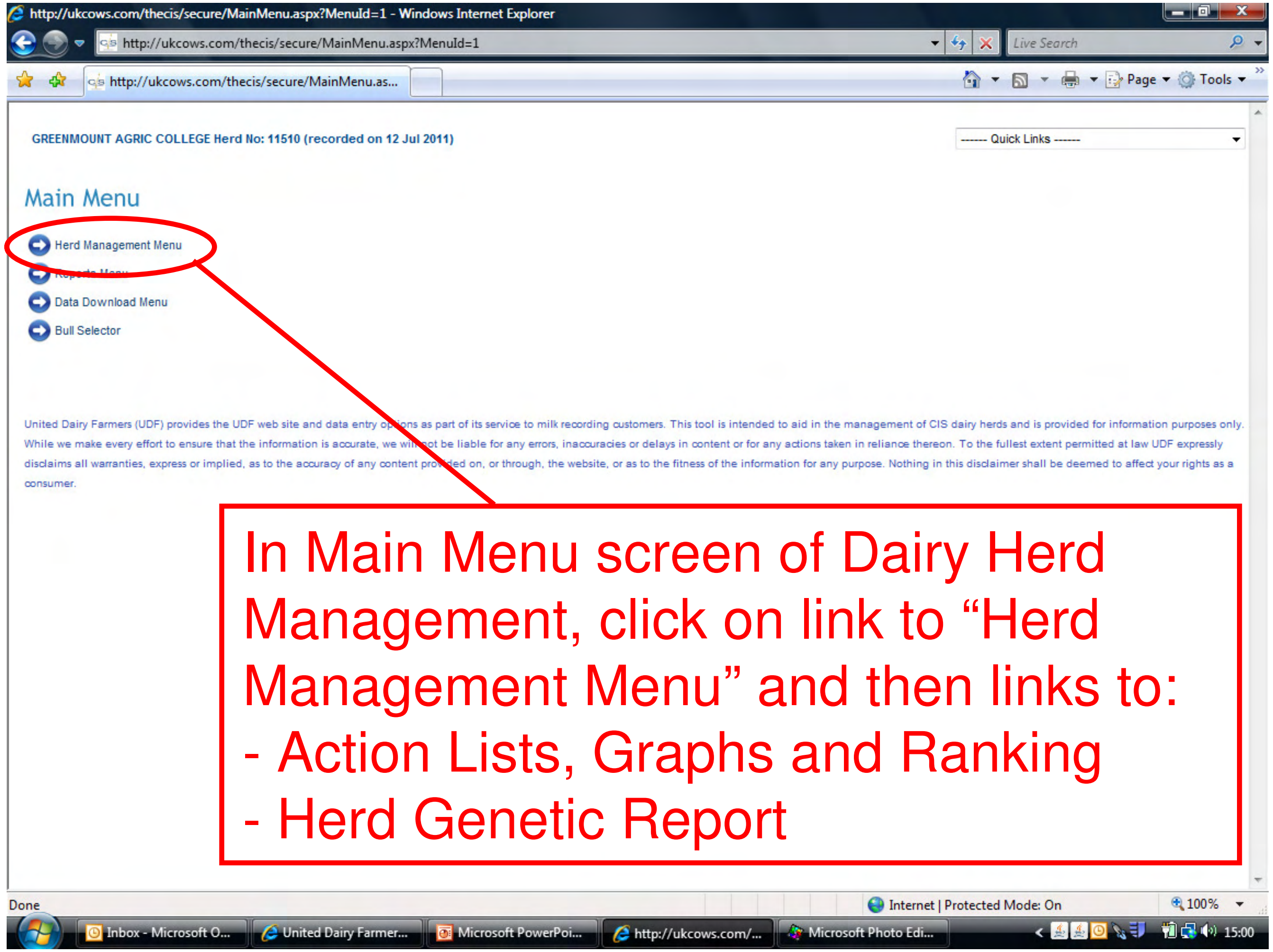
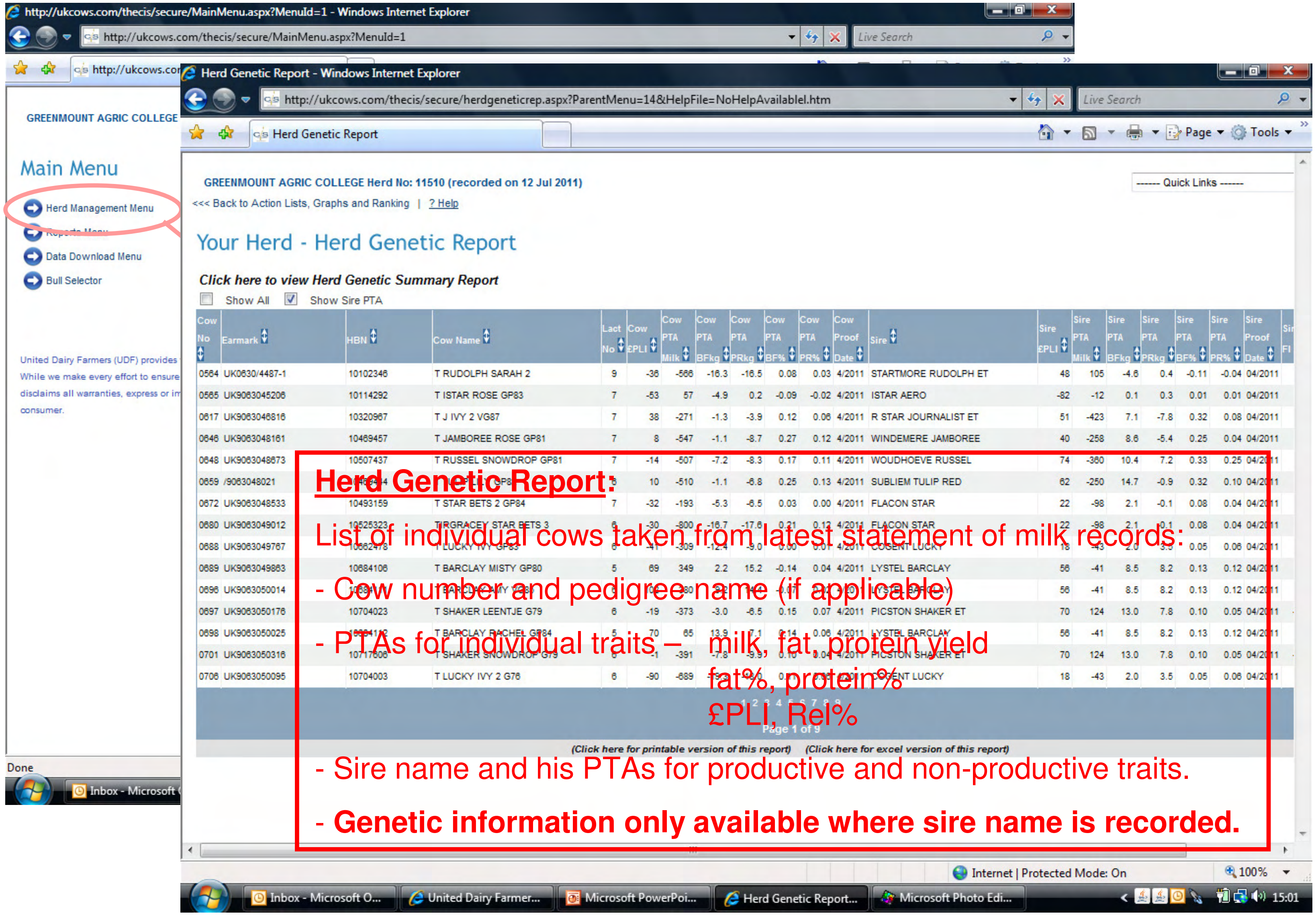


In Main Menu screen of Dairy Herd Management, click on link to “Herd Management Menu” and then links to:

- Action Lists, Graphs and Ranking
- Herd Genetic Report

Herd Genetic Report

- United Milk Records/Dairy Herd Management



Herd Genetic Report:

List of individual cows taken from latest statement of milk records:

- Cow number and pedigree name (if applicable)
- PTAs for individual traits – milk, fat, protein yield fat%, protein% £PLI, Rel%
- Sire name and his PTAs for productive and non-productive traits.
- **Genetic information only available where sire name is recorded.**

Herd Genetic Report
- United Milk Records/Dairy Herd Management

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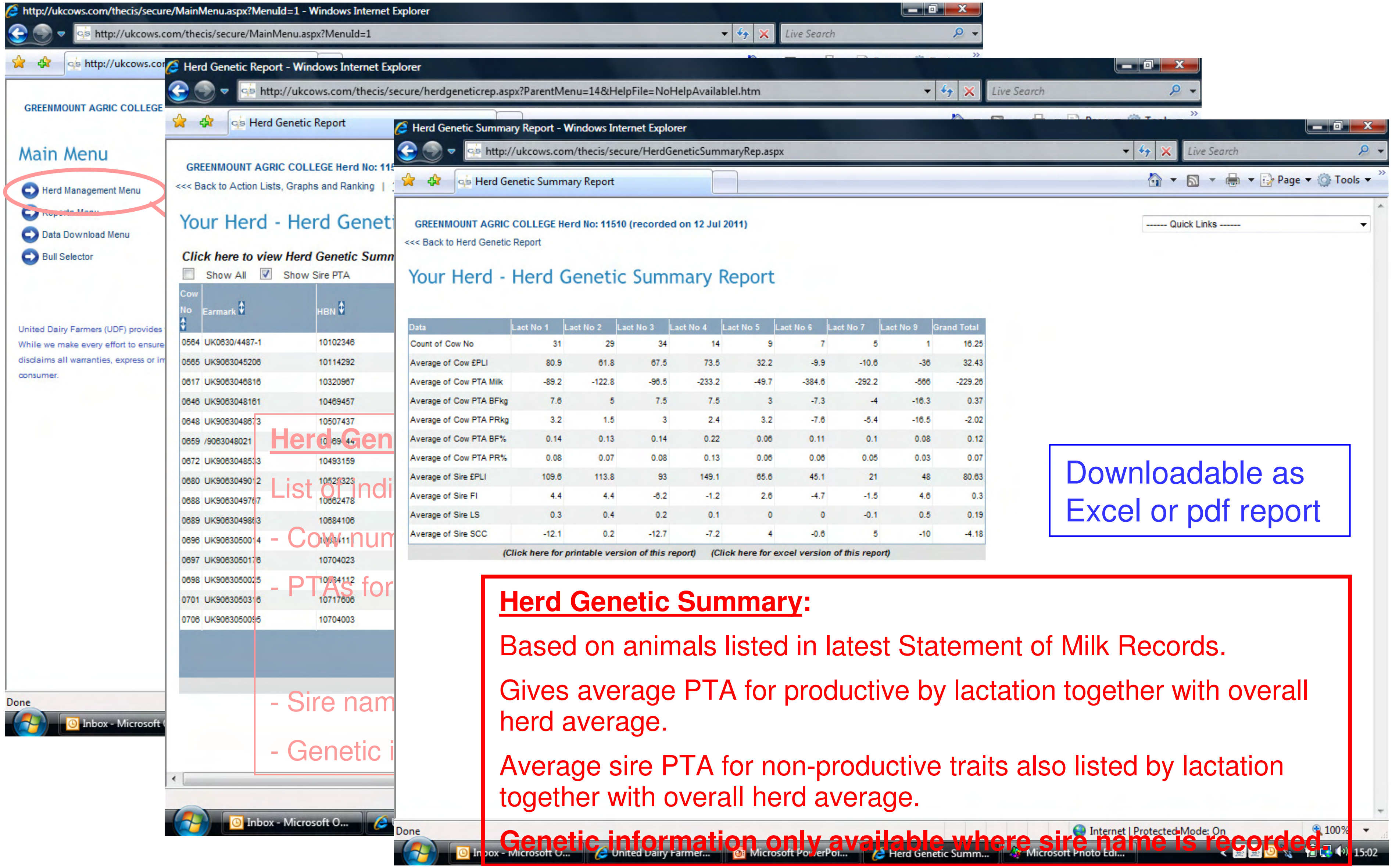


Data	Lact No 1	Lact No 2	Lact No 3	Lact No 4	Lact No 5	Lact No 6	Lact No 7	Lact No 9	Grand Total
Count of Cow No	31	29	34	14	9	7	5	1	16.25
Average of Cow £PLI	80.9	61.8	67.5	73.5	32.2	-9.9	-10.6	-36	32.43
Average of Cow PTA Milk	-89.2	-122.8	-96.5	-233.2	-49.7	-384.6	-292.2	-566	-229.26
Average of Cow PTA BFkg	7.6	5	7.5	7.5	3	-7.3	-4	-16.3	0.37
Average of Cow PTA PRkg	3.2	1.5	3	2.4	3.2	-7.6	-5.4	-16.5	-2.02
Average of Cow PTA BF%	0.14	0.13	0.14	0.22	0.06	0.11	0.1	0.08	0.12
Average of Cow PTA PR%	0.08	0.07	0.08	0.13	0.06	0.06	0.05	0.03	0.07
Average of Sire £PLI	109.6	113.8	93	149.1	65.6	45.1	21	48	80.63
Average of Sire FI	4.4	4.4	-6.2	-1.2	2.6	-4.7	-1.5	4.6	0.3
Average of Sire LS	0.3	0.4	0.2	0.1	0	0	-0.1	0.5	0.19
Average of Sire SCC	-12.1	0.2	-12.7	-7.2	4	-0.6	5	-10	-4.18

(Click here for printable version of this report) (Click here for excel version of this report)

Downloadable as Excel or pdf report

Herd Genetic Summary:

Based on animals listed in latest Statement of Milk Records.

Gives average PTA for productive by lactation together with overall herd average.

Average sire PTA for non-productive traits also listed by lactation together with overall herd average.

Genetic information only available where sire name is recorded.

Herd Genetic Report

Scheme: AMR Monthly
Page No: 1
Herd No: 11510

GREENMOUNT AGRIC COLLEGE
(HIGH FORAGE HERD)
22 GREENMOUNT ROAD
MUCKAMORE
COUNTY ANTRIM
BT41 4PU

United Dairy Farmers
Dale Farmhouse, 15 Dargan Road, Belfast, BT3 9LS
Tel: 028 9037 2219 WWW.UTDNI.CO.UK

Previous Test Date: 13/09/2011
Latest Test Date: 13/10/2011
Test Interval: 30
Date Run: 19/10/2011

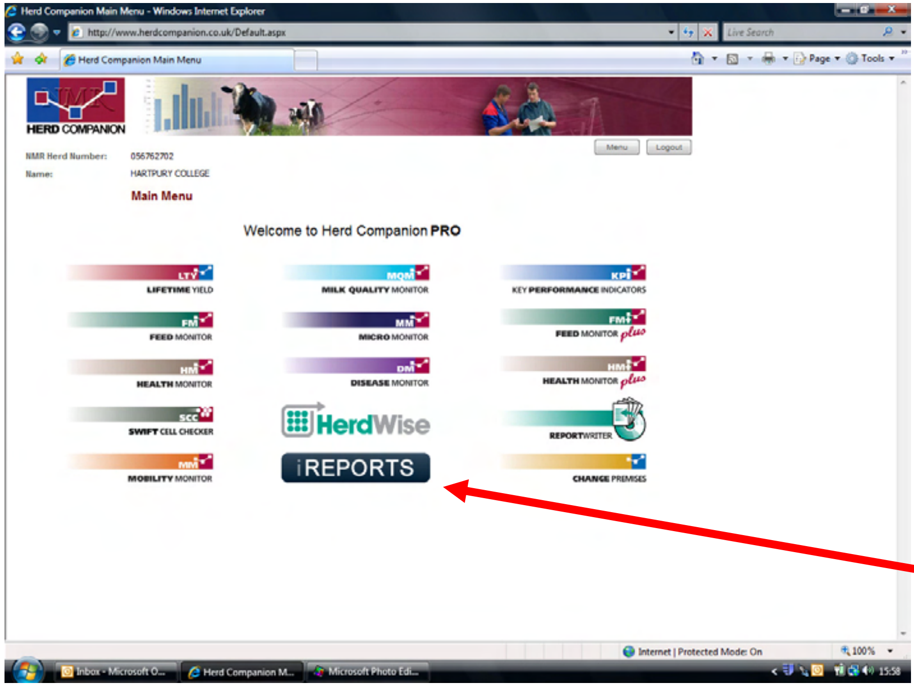
Cow No	Earmark	HBN	Cow Name	Lact No	Cow £PLI	Cow PTA Milk	Cow PTA BFkg	Cow PTA PRkg	Cow PTA BF%	Cow PTA PR%	Cow Proof Date	Sire Name	Sire £PLI	Sire PTA Milk	Sire PTA BFkg	Sire PTA PRkg	Sire PTA BF%	Sire PTA PR%	Sire Proof Date	Sire FI	Sire LS	Sire SCC
0564	UK0630/4487-1	10102346	TIRGRACEY RUDOLPH SARAH 2	9	-38	-575	-16.4	-16.9	0.08	0.02	Aug 2011	STARTMORE RUDOLPH ET	48	103	-4.7	0.4	-0.11	-0.04	Aug 2011	4.5	0.5	-10
0565	UK9063045206	10114292	TIRGRACEY ISTAR ROSE GP83	7	-55	48	-5.3	-0.1	-0.09	-0.02	Aug 2011	ISTAR AERO	-73	-14	0.1	0.2	0.01	0.01	Aug 2011	-3.7	-0.6	19
0617	UK9063046816	10320967	TIRGRACEY JOURNALIST IVY 2 VG87	7	37	-274	-1.5	-4.0	0.12	0.06	Aug 2011	RIDGE STAR JOURNALIST ET	54	-417	7.3	-7.6	0.32	0.08	Aug 2011	2.3	0.2	-11
0646	UK9063048161	10469457	TIRGRACEY JAMBOREE ROSE GP81	8	5	-558	-1.8	-9.0	0.27	0.12	Aug 2011	WINDEMERE JAMBOREE	41	-253	8.6	-5.1	0.24	0.04	Aug 2011	8.0	0.0	8
0648	UK9063048673	10507437	TIRGRACEY RUSSEL SNOWDROP GP81	7	-14	-532	-8.1	-6.5	0.17	0.14	Aug 2011	WOUDHOEVE RUSSEL	74	-351	10.7	7.5	0.33	0.25	Aug 2011	-10.2	0.0	-2
0659	/9063048021	10469444	TIRGRACEY TULIP LILY GP82	6	23	-541	-1.3	-6.5	0.27	0.15	Aug 2011	SUBLIEM TULIP RED	63	-247	14.9	-0.9	0.32	0.09	Aug 2011	-4.0	0.0	-16
0680	UK9063049012	10525323	TIRGRACEY STAR BETS 3	7	-41	-810	-17.0	-17.9	0.21	0.12	Aug 2011	FLACON STAR	11	-103	2.0	-0.2	0.08	0.04	Aug 2011	-4.5	0.1	9
0688	UK9063049767	10662478	TIRGRACEY LUCKY IVY GP83	6	-41	-309	-12.6	-9.0	0.00	0.01	Aug 2011	COGENT LUCKY	20	-36	2.3	3.8	0.05	0.06	Aug 2011	0.5	-0.2	4
0689	UK9063049863	10684106	TIRGRACEY BARCLAY MISTY GP80	6	70	346	3.1	15.0	-0.13	0.04	Aug 2011	LYSTEL BARCLAY	58	-30	8.8	8.5	0.13	0.12	Aug 2011	-1.0	-0.1	17
0696	UK9063050014	10684111	TIRGRACEY BARCLAY AMY VG85	6	102	359	9.1	14.2	-0.06	0.03	Aug 2011	LYSTEL BARCLAY	58	-30	8.8	8.5	0.13	0.12	Aug 2011	-1.0	-0.1	17
0697	UK9063050176	10704023	TIRGRACEY SHAKER LEENTJE G79	6	-18	-368	-2.7	-6.3	0.15	0.07	Aug 2011	PICSTON SHAKER ET	82	158	13.9	8.6	0.10	0.04	Aug 2011	-12.2	0.4	-11
0698	UK9063050025	10684112	TIRGRACEY BARCLAY RACHEL GP84	5	73	80	14.8	7.3	0.14	0.06	Aug 2011	LYSTEL BARCLAY	58	-30	8.8	8.5	0.13	0.12	Aug 2011	-1.0	-0.1	17
0701	UK9063050316	10717606	TIRGRACEY SHAKER SNOWDROP G79	6	2	-395	-8.4	-9.0	0.09	0.05	Aug 2011	PICSTON SHAKER ET	82	158	13.9	8.6	0.10	0.04	Aug 2011	-12.2	0.4	-11
0706	UK9063050095	10704003	TIRGRACEY LUCKY IVY 2 G76	6	-91	-708	-19.7	-18.4	0.11	0.06	Aug 2011	COGENT LUCKY	20	-36	2.3	3.8	0.05	0.06	Aug 2011	0.5	-0.2	4
0715	UK9063051576	10858985	TIRGRACEY LUCKY POPPY 3 GP80	5	41	-42	1.3	8.2	0.04	0.12	Aug 2011	COGENT LUCKY	20	-36	2.3	3.8	0.05	0.06	Aug 2011	0.5	-0.2	4
0717	UK9063051484	10858968	TIRGRACEY LUCKY SNOWDROP 2 G79	5	-79	-540	-7.6	-14.2	0.18	0.04	Aug 2011	COGENT LUCKY	20	-36	2.3	3.8	0.05	0.06	Aug 2011	0.5	-0.2	4
0719	UK9063051543	10858980	TIRGRACEY TUGOLO SARAH	4	58	-394	3.2	-8.1	0.24	0.06	Aug 2011	OLMO PRELUDE TUGOLO	163	-46	19.9	2.9	0.28	0.06	Aug 2011	10.5	0.4	-7
0725	UK9063051834	10879604	TIRGRACEY TUGOLO ROSE	5	18	-278	-0.2	-4.5	0.14	0.06	Aug 2011	OLMO PRELUDE TUGOLO	163	-46	19.9	2.9	0.28	0.06	Aug 2011	10.5	0.4	-7
0731	UK9 0630 5155 4	10858982	TIRGRACEY GEREMIO ROSE GP81	5	56	-435	0.7	1.3	0.24	0.20	Aug 2011	GEREMIO	100	-198	8.2	6.7	0.21	0.17	Aug 2011	2.6	0.1	0
0733	UK9 0630 5177 5	10879601	TIRGRACEY PERICLES HEATHER VG85	4	104	147	13.3	7.4	0.09	0.03	Aug 2011	ALMERE PERICLES RED	177	256	27.7	16.5	0.22	0.10	Aug 2011	0.5	0.1	-18
0734	UK9063051473	10858971	TIRGRACEY TUGOLO PHYLISS F71	5	86	119	16.9	7.9	0.15	0.05	Aug 2011	OLMO PRELUDE TUGOLO	163	-46	19.9	2.9	0.28	0.06	Aug 2011	10.5	0.4	-7

Herd Genetic Summary Report - Future Herd

Data	Lact No 1	Lact No 2	Lact No 3	Lact No 4	Lact No 5	Lact No 6	Lact No 7	Lact No 8	Lact No 9	Grand Total
Count of Cow No	34	30	35	19	6	7	4	1	1	137
Average of Cow £PLI	82.7	72.1	69.7	76.7	32.5	6.7	-18.3	5	-38	65.76
Average of Cow PTA Milk	-72	-89.1	-71.2	-213.8	-182.7	-230.9	-392	-558	-575	-124.73
Average of Cow PTA BFkg	8.8	7.3	6.8	8.2	4.3	-4.6	-8	-1.8	-16.4	6.24
Average of Cow PTA PRkg	3.8	3.1	3.3	2.5	1	-2.9	-7.1	-9	-16.9	2.33
Average of Cow PTA BF%	0.15	0.14	0.12	0.22	0.15	0.06	0.1	0.27	0.08	0.14
Average of Cow PTA PR%	0.08	0.08	0.07	0.12	0.09	0.06	0.08	0.12	0.02	0.08
Average of Sire £PLI	122.6	113.1	105.3	153.2	87.3	54.7	16.5	41	48	111.09
Average of Sire FI	4.9	3.4	-4.4	-1.6	3.9	-4.2	-4	8	4.5	0.56
Average of Sire LS	0.3	0.3	0.4	0.2	0.1	0	-0.1	0	0.5	0.27
Average of Sire SCC	-9.9	-3.6	-10.5	-7.9	1.8	0.6	3.8	8	-10	-6.83

Source: Dairy Herd Management, Oct 2011.

Herd Genetic Report
- NMR Herd Companion



Click on link to iReports

Herd Genetic Report
- NMR Herd Companion

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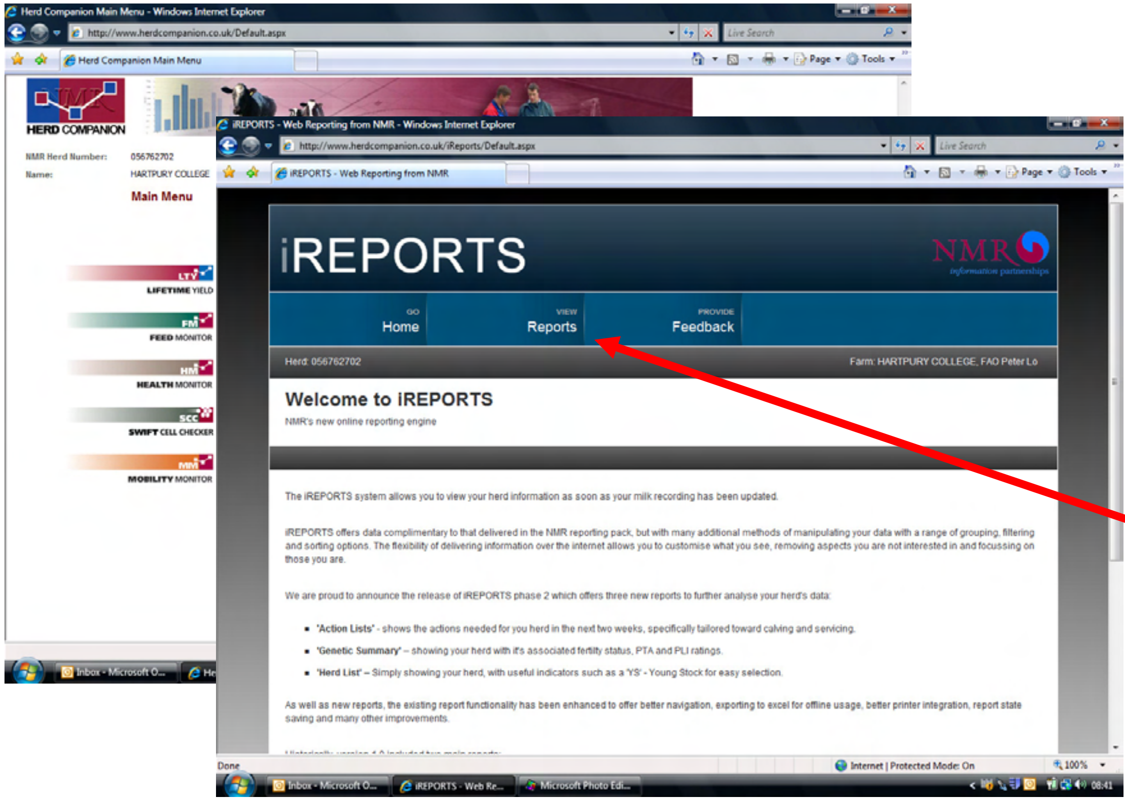

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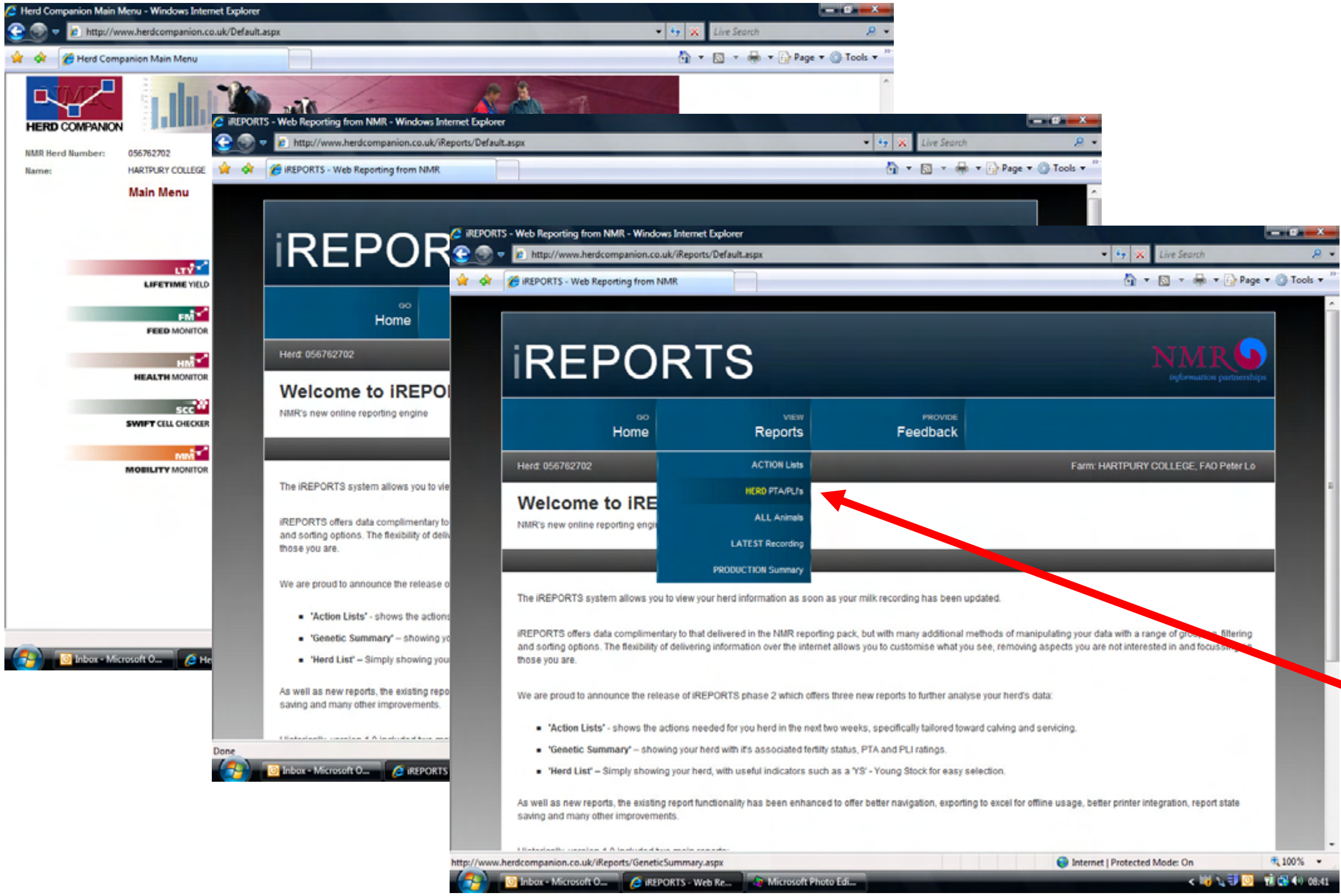
Herd Genetic Report
- NMR Herd Companion



Select Herd PTAs/PLI from drop down menu.

Herd Genetic Report
- NMR Herd Companion

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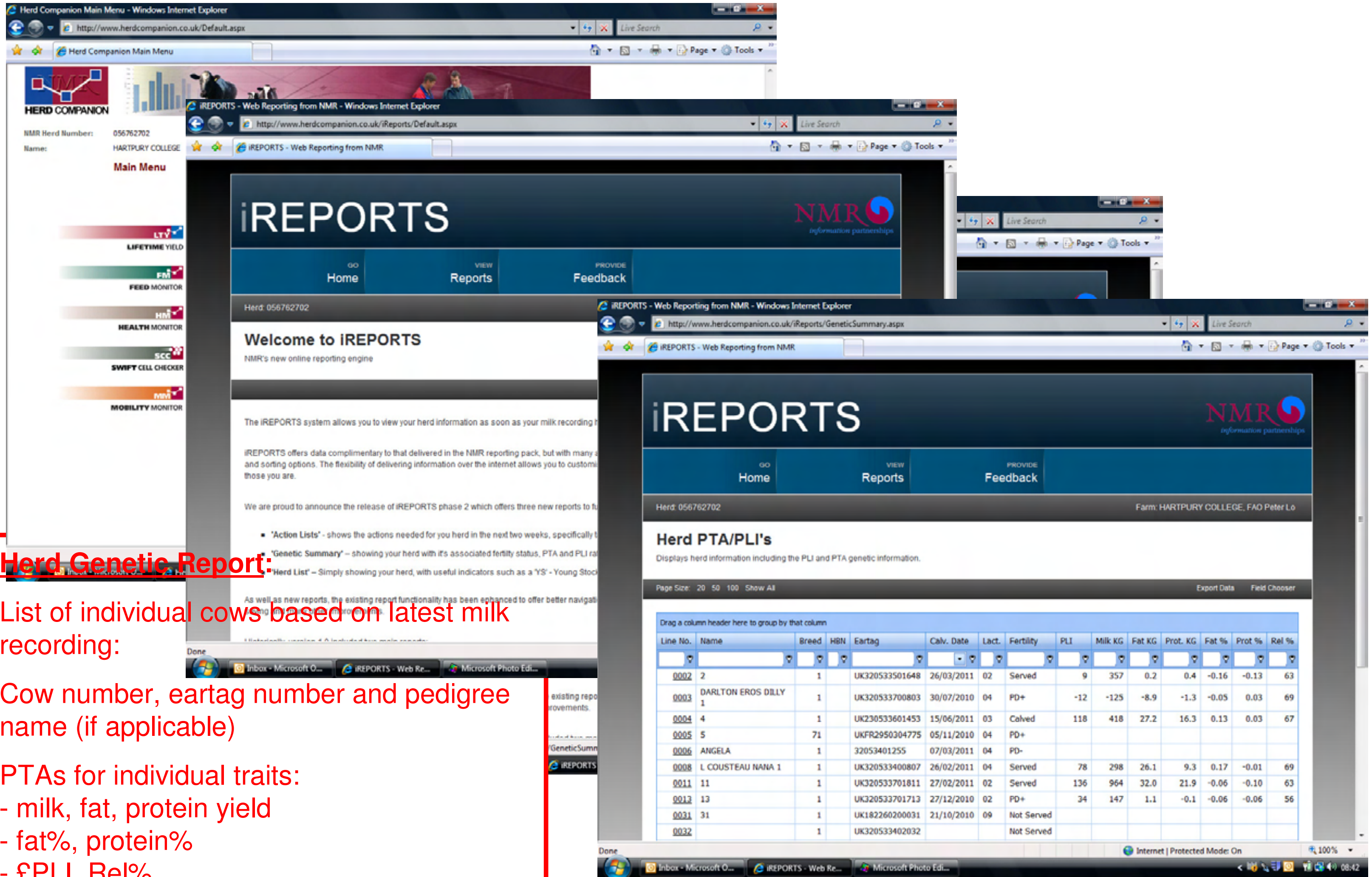

Herd Genetic Report:

List of individual cows based on latest milk recording:

Cow number, eartag number and pedigree name (if applicable)

PTAs for individual traits:
- milk, fat, protein yield
- fat%, protein%
- £PLI, Rel%

Genetic information only available where sire name is recorded.

Herd Genetic Report
- NMR Herd Companion

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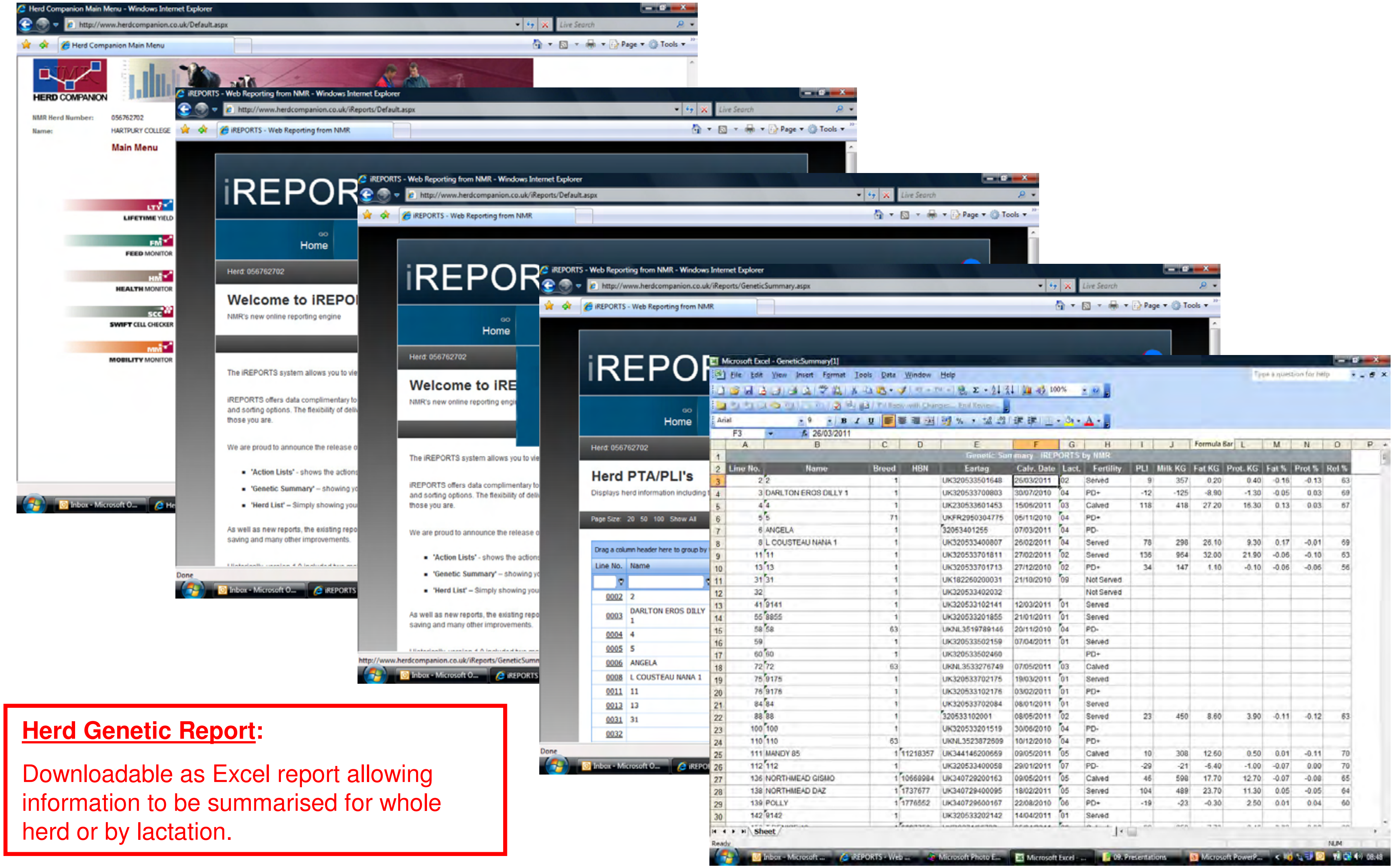
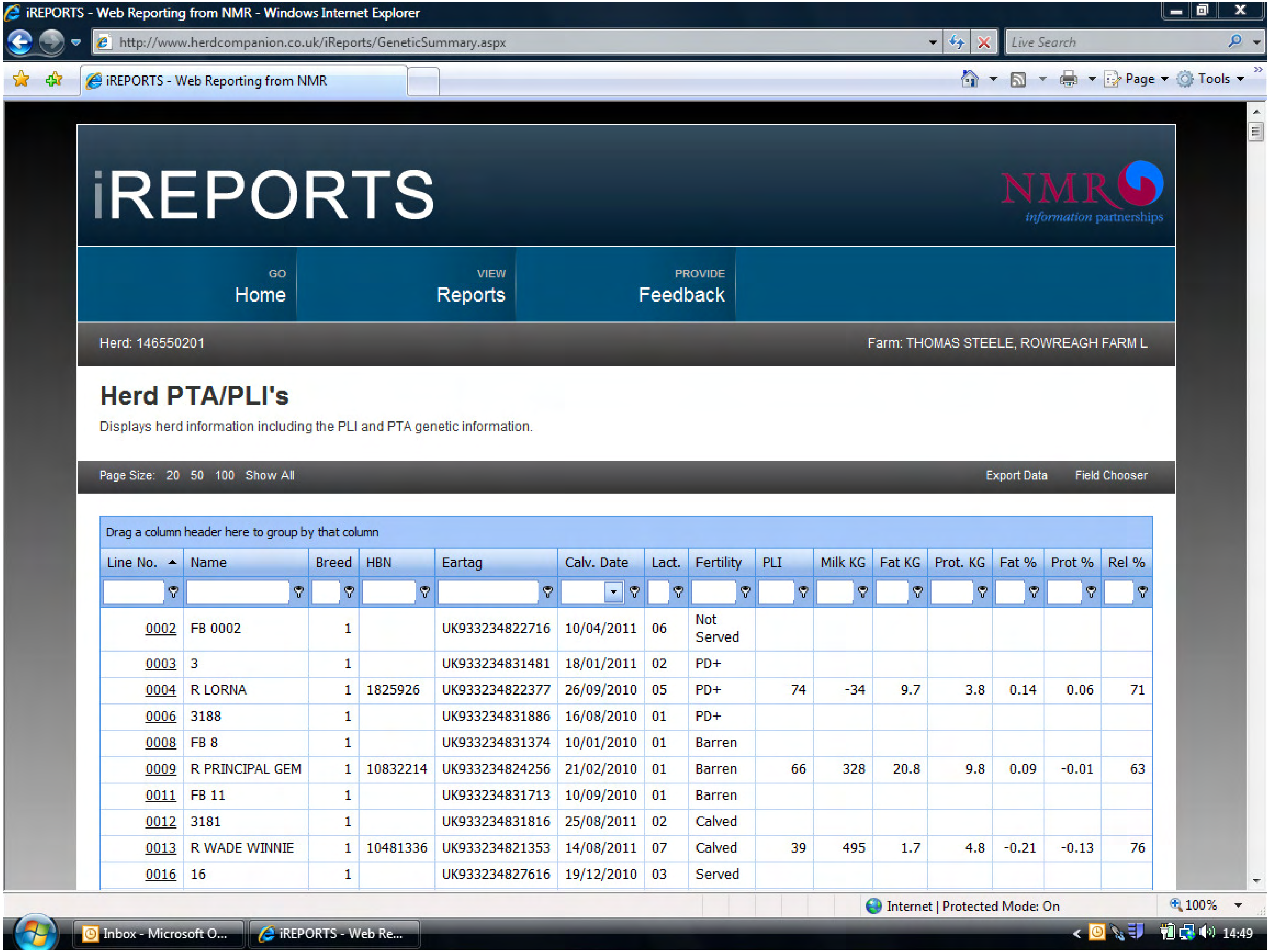


Herd Genetic Report:

Downloadable as Excel report allowing information to be summarised for whole herd or by lactation.



iREPORTS - Web Reporting from NMR - Windows Internet Explorer

http://www.herdcompanion.co.uk/iReports/GeneticSummary.aspx

iREPORTS

NMR information partnerships

GO Home | VIEW Reports | PROVIDE Feedback

Herd: 146550201

Farm: THOMAS STEELE, ROWREAGH FARM L

Herd PTA/PLI's

Displays herd information including the PLI and PTA genetic information.

Page Size: 20 50 100 Show All

Export Data Field Chooser

Drag a column header here to group by that column

Line No.	Name	Breed	HBN	Eartag	Calv. Date	Lact.	Fertility	PLI	Milk KG	Fat KG	Prot. KG	Fat %	Prot %	Rel %
0002	FB 0002	1		UK933234822716	10/04/2011	06	Not Served							
0003	3	1		UK933234831481	18/01/2011	02	PD+							
0004	R LORNA	1	1825926	UK933234822377	26/09/2010	05	PD+	74	-34	9.7	3.8	0.14	0.06	71
0006	3188	1		UK933234831886	16/08/2010	01	PD+							
0008	FB 8	1		UK933234831374	10/01/2010	01	Barren							
0009	R PRINCIPAL GEM	1	10832214	UK933234824256	21/02/2010	01	Barren	66	328	20.8	9.8	0.09	-0.01	63
0011	FB 11	1		UK933234831713	10/09/2010	01	Barren							
0012	3181	1		UK933234831816	25/08/2011	02	Calved							
0013	R WADE WINNIE	1	10481336	UK933234821353	14/08/2011	07	Calved	39	495	1.7	4.8	-0.21	-0.13	76
0016	16	1		UK933234827616	19/12/2010	03	Served							

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Microsoft Excel - NMR Herd Genetic Report

Genetic Summary - iREPORTS by NMR

Line No.	Name	Breed	HBN	Eartag	Calv. Date	Lact.	Fertility	PLI	Milk KG	Fat KG	Prot. KG	Fat %	Prot %	Rel %
2	FB 0002	1		UK933234822716	10/04/2011	06	Not Served							
3	3	1		UK933234831481	18/01/2011	02	PD+							
4	R LORNA	1	1825926	UK933234822377	26/09/2010	05	PD+	74	-34	9.70	3.80	0.14	0.06	71
6	3188	1		UK933234831886	16/08/2010	01	PD+							
8	FB 8	1		UK933234831374	10/01/2010	01	Barren							
9	R PRINCIPAL GEM	1	10832214	UK933234824256	21/02/2010	01	Barren	66	328	20.80	9.80	0.09	-0.01	63
11	FB 11	1		UK933234831713	10/09/2010	01	Barren							
12	3181	1		UK933234831816	25/08/2011	02	Calved							
13	R WADE WINNIE	1	10481336	UK933234821353	14/08/2011	07	Calved	39	495	1.70	4.80	-0.21	-0.13	76
16	16	1		UK933234827616	19/12/2010	03	Served							
18	18	1		UK933234827756	26/10/2010	03	PD+							
19	19	1		UK933234827745	06/10/2011	03	Calved							
20	20	1		UK933234825973	31/03/2011	04	Served							
22	FB 22	1		UK933234831153	19/01/2011	02	PD+							
23	FB 23	1		UK332348000023	25/02/2011	02	PD+							
24	24	1		UK933234825597	29/04/2011	04	Not Served							
25	FB 25	1		UK933234831422	25/04/2011	02	Not Served							
26	26	1		UK933234826323	30/09/2010	04	PD+							
29	FB 29	1		UK933234831083	16/03/2011	02	PD+							
31	FB 31	1		UK933234831271	30/12/2010	02	PD+							
32	R LARKY PANDORA	1	11409539	UK933234830136	27/11/2010	02	Served	142	638	26.00	17.60	0.01	-0.04	68
35	R SHOTTLE DENISE	1	11685345	UK933234833883	01/02/2011	01	PD+	43	366	6.90	5.30	-0.09	-0.08	59
36	R REECE MARION	1	11685346	UK933234833953	08/04/2011	01	PD+	74	214	6.80	4.40	-0.02	-0.03	53
37	37	1		UK933234833942	16/02/2011	01	PD+							
39	R REECE MARION	1	11685346	UK933234833905	31/03/2011	01	Served	74	214	6.80	4.40	-0.02	-0.03	53
41	R SHAKER ZWARTINA	1	11416506	UK933234830302	25/03/2011	02	PD+	76	97	10.30	6.80	0.08	0.05	66
44	FB 44	1		UK933234833533	27/12/2010	01	PD+	28	30	-5.90	1.80	-0.09	0.01	53
45	FB 45 NEED INFO	1		UK33234800045	07/11/2010	01	PD+							

HerdGeneticReport

Sire Selection using your Herd Genetic Summary

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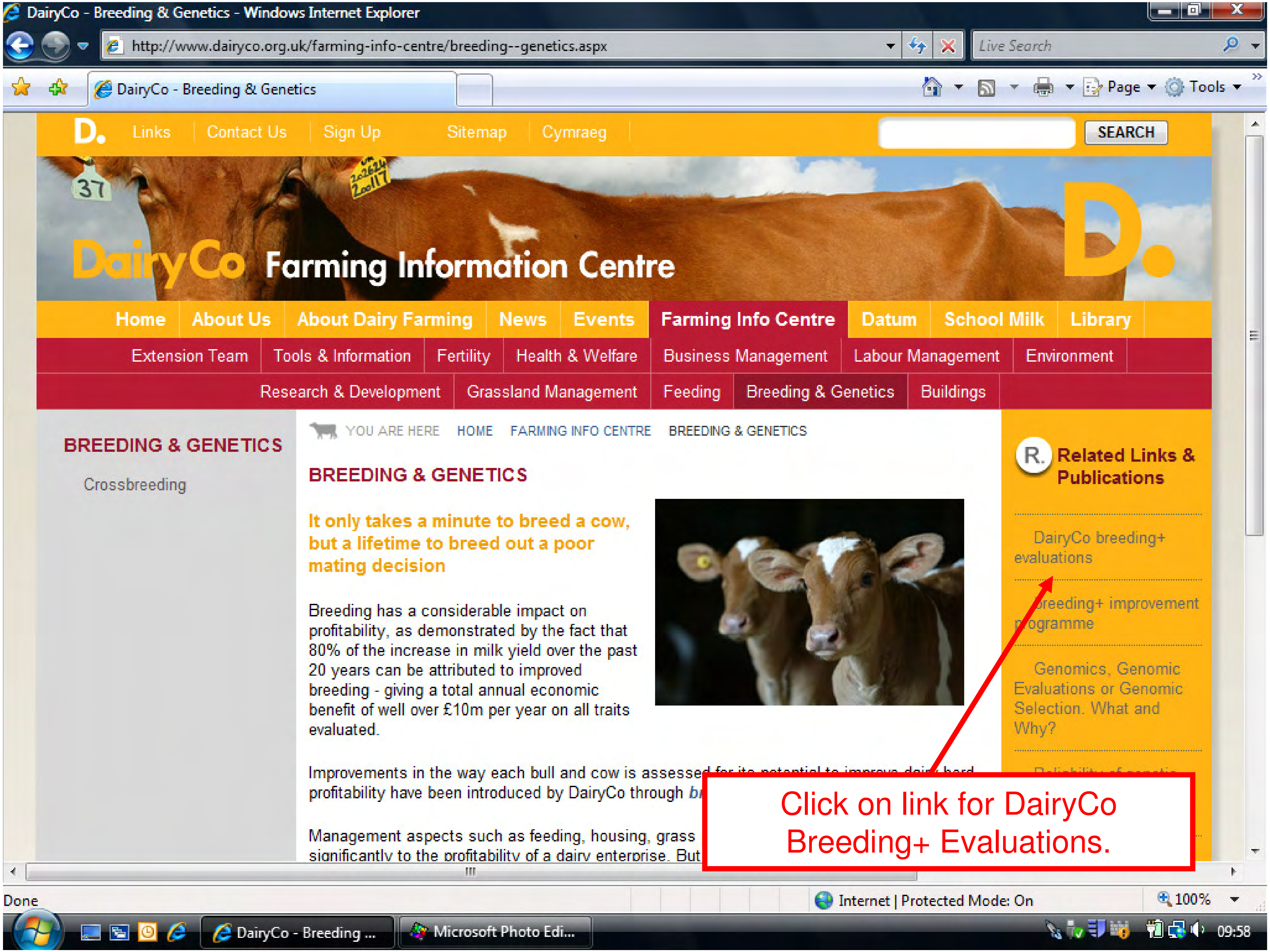
	Herd Genetic Merit	Sire Selection Criteria	No. Sires Available	Sire Selection Criteria	No. Sires Available
£PLI	54	-	661	-	661
Milk	251	≥ 251	469	≥ 251	469
Fat%	-0.01	≥ -0.01	178	≥ 0.05	94
Prot%	-0.03	≥ -0.03	146	≥ 0.05	34
Sire Fert	-	> 0	74	≥ 2	15
Sire LS	-	> 0	61	> 0	11
Sire SCC	-	< 0	58	< 0	11
Available NI			44		9
Top 100 PLI			37		9

Choice of sires is restricted by your selection criteria www.dairyco.org.uk

Click on link for Breeding and Genetics.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It only takes a minute to breed a cow, but a lifetime to breed out a poor mating decision
Breeding has a considerable impact on profitability, as demonstrated by the fact that 80% of the increase in milk yield over the past 20 years can be attributed to improved breeding - giving a total annual economic benefit of well over £10m per year on all traits evaluated.
Improvements in the way each bull and cow is assessed
profitability have been introduced by DairyCo through
Management aspects such as feeding, housing, grass
significantly to the profitability of a dairy enterprise. But
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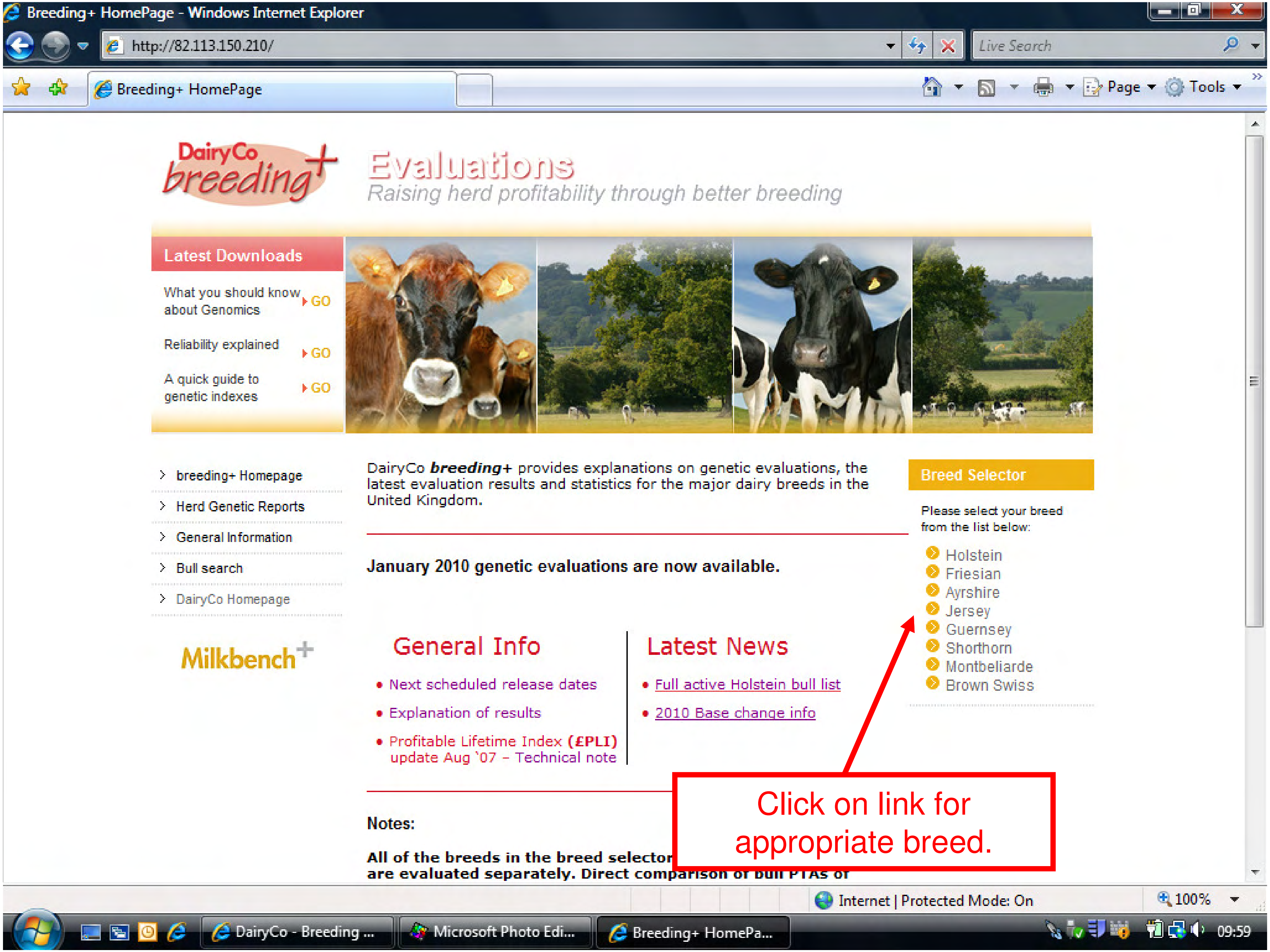
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DairyCo breeding+ provides explanations on genetic evaluations, the latest evaluation results and statistics for the major dairy breeds in the United Kingdom.
January 2010 genetic evaluations are now available.
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Next scheduled release dates
Explanation of results
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2010 Base change info
Breed Selector
Please select your breed from the list below:
Holstein
Friesian
Ayrshire
Jersey
Guernsey
Shorthorn
Montbeliarde
Brown Swiss
Notes:
All of the breeds in the breed selector
are evaluated separately. Direct comparison of bull PTAs of
Click on link for appropriate breed.
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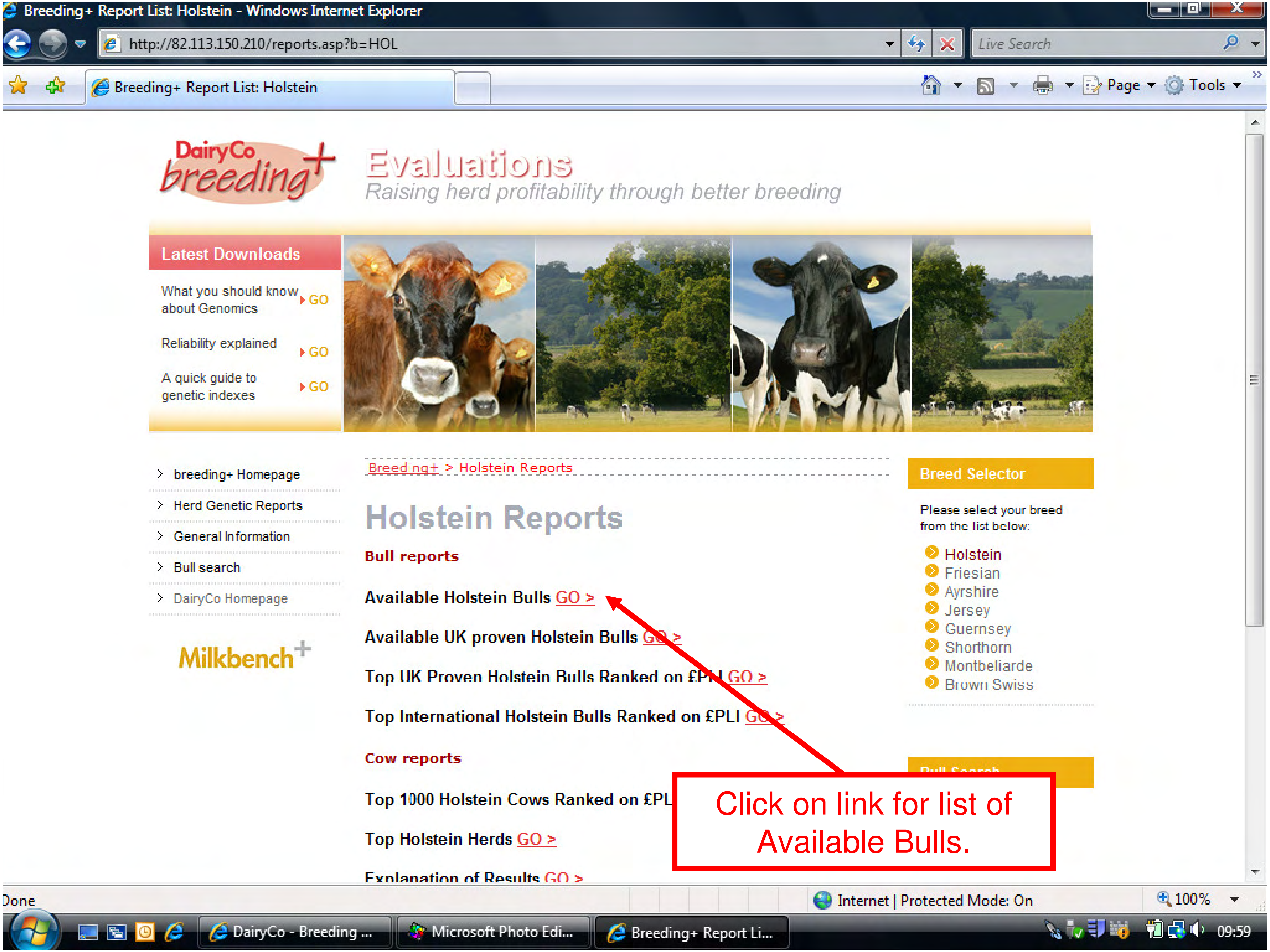
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Available Holstein Bulls

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Rank	£PLI	Sire Name Click on name for Fact Sheet	Breed	Rel %	Milk (kg)	Fat (kg)	Prot (kg)	Fat (%)	Prot (%)	£PIN	SCC	LS	F	direct ce	maternal ce	Type	Available from	Available NI	Sexed
1	251	LYNBROOK JANCEN BLF CVF	46	74	470	32.8	25.1	0.17	0.12	56	-13	0.5	0.3			0.0	BUL	AIS	N
2	248	ALH DAKOTA	63	78	1058	33.6	34.0	-0.09	0.00	56	-13	[illegible]	-0.1	2.1	0.5	0.6	DD		N
3	241	CROCKETT-ACRES EIGHT BLF CVF	65	74	587	24.9	24.9	0.02	0.07	47	-21	[illegible]	4.7	1.8	0.3	0.4	SMX	SMX	N
4	241	PIROLO GOLDWYN WYMAN	72	71	326	26.0	19.9	0.16	0.11	46	-27	0.3	4.6	0.6		2.1	WWS	WWS	Y
5	236	CO-OP OMAN LOGAN BLF CVF	65	73	963	35.7	30.1	-0.03	-0.01	54	[illegible]	0.3	-0.1	1.4	0.3	0.6	BUL	AIS	Y
6	230	MORNINGVIEW LEVI BLF CVF	65	73	694	29.7	26.1	0.03	0.04	50	[illegible]	0.2	5.0	1.6	1.2	0.9	GEN	GEN	N
7	230	LONG-LANGS OMAN OMAN BLF CVF	65	73	732	30.5	30.7	0.02	0.08	57	-1	0.2	-0.3	2.1	0.6	1.6	WWS	WWS	N
8	226	TIMMER TYSON BLF BYF CVF	63	78	151	32.8	18.1	0.34	0.16	[illegible]	-16	0.3	1.7	3.2	0.7	-0.5	AV	AIS	Y
9	222	GRAN-J OMAN MCCORMICK BLF CVF	65	74	313	28.7	15.7	0.20	0.07	[illegible]	-21	0.3	7.4	1.9	1	1.3	GEN	GEN	N
10	221	MAINSTREAM MANIFOLD BLF CVF	65	74	865	33.3	26.5	-0.01	-0.02	49	-7	0.3	3.8	3.2	0.8	0.8	SMX	SMX	N
11	221	COLDSPRINGS GARNER CRI BLF CVF	65	74	543	28.3	19.5	0.08	[illegible]	41	-22	0.4	5.4	1.4	0.6	0.9	BUL	AIS	N
12	220	BALLYCAIRN TIERGAN BLF CVF	01	90	388	32.8	18.7	0.21	[illegible]	48	-11	0.2	2.2	0.9		2.0	COG	COG	N
13	220	MORNINGVIEW LEGEND	65	74	561	26.0	25.4	0.05	[illegible]	49	-12	0.3	2.9	1.1	0.1	0.4	GEN	GEN	Y
14	216	D OMAR	61	77	491	29.9	24.0	0.13	0.10	52	-22	0.1	2.4	0.5	0.2	0.3	VIK	VIK	N
15	215	RALMA GOLD CROWN BLF CVF DPF TR	65	75	588	26.9	22.7	0.04	0.04	44	-14	0.3	2.9	1.4	0.6	1.5	DD		Y
16	215	CO-OP OMAN LOYDIE	65	72	456	27.4	23.3	[illegible]	0.10	49	-16	0.2	1.9	2.5		0.8	BUL	AIS	Y
17	213	AL.PAR. GOLDWYN MENTOS ET	72	70	404	26.6	18.6	[illegible]	0.07	42	-15	0.2	5.5	0.8		1.9	SRL	WFE	N
18	210	DANSIRE OMAN OBLAT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	VIK	N
19	210	GENERVATIONS LOBO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	WFE	N
20	207	UFM-DUBS ALTAESQUIRE [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	GG	Y
21	206	WOUDHOEVE 1042 IMPULS[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	AIS	N
22	206	REGANCREST ALTAIOTA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	GG	Y
23	203	GUARINI BLF CVF	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	AIS	N
24	202	O-MAN END-STORY BLF CVF	71	70	631	28.4	23.3	0.04	0.03	46	0	0.1	4.3	3.3		2.2	WWS	WWS	Y

Click on link to download to Excel where bull list can be sorted to meet your sire selection criteria.

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A1 August 2011 Evaluations

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	**August 2011 Evaluations**																	
2	**Rank**	**£PLI**	**Sire Name**	**Res.Ind**	**Breed**	**Bull HBN**	**Dtrs**	**Hrds**	**%dtr top**	**% top 2**	**Lacts**	**Rel %**	**Milk (kg)**	**Fat (kg)**	**Prot (kg)**	**Fat (%)**	**Prot (%)**	**£PIN**
3	1	251	LYNBROOK JANCEN BLF CVF	ITB	46	2.72005E+11	0	0	0	0	0	74	470	32.8	25.1	0.17	0.12	56
4	2	248	ALH DAKOTA	ITB	63	418232662	0	0	0	0	0	78	1058	33.6	34	-0.09	0	56
5	3	241	CROCKETT-ACRES EIGHT BLF CVF	ITB	65	135556243	0	0	0	0	0	74	587	24.9	24.9	0.02	0.07	47
6	4	241	PIROLO GOLDWYN WYMAN	ITB	72	19990328894	0	0	0	0	0	71	326	26	19.9	0.16	0.11	46
7	5	236	CO-OP OMAN LOGAN BLF CVF	ITB	65	62030793	0	0	0	0	0	73	963	35.7	30.1	-0.03	-0.01	54
8	6	230	MORNINGVIEW LEVI BLF CVF	ITB	65	63927723	0	0	0	0	0	73	694	29.7	26.1	0.03	0.04	50
9	7	230	LONG-LANGS OMAN OMAN BLF CVF	ITB	65	135746776	0	0	0	0	0	73	732	30.5	30.7	0.02	0.08	57
10	8	226	TIMMER TYSON BLF BYF CVF	ITB	63	378575946	0	0	0	0	0	78	151	32.8	18.1	0.34	0.16	53
11	9	222	GRAN-J OMAN MCCORMICK BLF CVF	ITB	65	135778023	0	0	0	0	0	74	313	28.7	15.7	0.2	0.07	41
12	10	221	MAINSTREAM MANIFOLD BLF CVF	ITB	65	135747713	0	0	0	0	0	74	865	33.3	26.5	-0.01	-0.02	49
13	11	221	COLDSPRINGS GARNER CRI BLF CVF	ITB	65	62030778	0	0	0	0	0	74	543	28.3	19.5	0.08	0.02	41
14	12	220	BALLYCAIRN TIERGAN BLF CVF	ITB	1	630187	58	40	6	6	58	90	388	32.8	18.7	0.21	0.07	48
15	13	220	MORNINGVIEW LEGEND	ITB	65	135404667	0	0	0	0	0	74	561	26	25.4	0.05	0.09	49
16	14	216	D OMAR	ITB	61	249077	0	0	0	0	0	77	491	29.9	24	0.13	0.1	52
17	15	215	RALMA GOLD CROWN BLF CVF DPF TR	ITB	65	52774524	0	0	0	0	0	75	588	26.9	22.7	0.04	0.04	44
18	16	215	CO-OP OMAN LOYDIE	ITB	65	62030790	0	0	0	0	0	72	456	27.4	23.3	0.11	0.1	49
19	17	213	AL.PAR. GOLDWYN MENTOS ET	ITB	72	4990259244	0	0	0	0	0	70	404	26.6	18.6	0.13	0.07	42
20	18	210	DANSIRE OMAN OBLAT	ITB	61	250648	0	0	0	0	0	76	792	33.3	26.4	0.02	0.01	50
21	19	210	GENERVATIONS LOBO	ITB	64	7809635	0	0	0	0	0	68	439	25.7	19.4	0.1	0.06	42
22	20	207	UFM-DUBS ALTAESQUIRE *TL *TV	ITB	65	62253394	0	0	0	0	0	74	526	33.8	22.3	0.16	0.06	51
23	21	206	WOUDHOEVE 1042 IMPULS BLF BYF CVF	ITB	63	383090074	0	0	0	0	0	78	607	27.6	26.3	0.04	0.08	51
24	22	206	REGANCREST ALTAIOTA	ITB	65	61898306	0	0	0	0	0	73	604	30.2	22.6	0.08	0.04	47
25	23	203	GUARINI BLF CVF	ITB	60	580675108	0	0	0	0	0	73	494	20.5	21.9	0.01	0.07	41
26	24	202	O-MAN END-STORY BLF CVF	ITB	71	4952815479	0	0	0	0	0	70	631	28.4	23.3	0.04	0.03	46
27	25	199	UFM-DUBS ELLROD BLF CVF	ITB	65	62253387	0	0	0	0	0	73	350	29.4	18.7	0.19	0.09	46
28	26	199	GUNNAR BLF CVF	ITB	60	1500838492	0	0	0	0	0	72	643	23.4	22	-0.02	0.01	39
29	27	198	BOSSIDE ALTAROSS	ITB	65	62085114	0	0	0	0	0	73	569	24.5	20.1	0.02	0.02	39
30	28	198	END-ROAD O-MAN BRONCO BLF CVF	ITB	65	135774702	0	0	0	0	0	72	808	24.1	25.2	-0.09	-0.01	41
31	29	196	ENSENADA TABOO PLANET BLF CVF DPF TR	ITB	65	60597003	0	0	0	0	0	78	913	23.7	25.1	-0.14	-0.05	37
32	30	191	COGENT TWIST BLF CVF	ITB	1	631308	79	46	5	5	104	93	593	35.3	22.3	0.14	0.04	50
33	31	190	NASTGARDEN N+STG-RDEN ET *TL *TV	ITB	52	48298	0	0	0	0	0	76	618	30.1	24.5	0.07	0.05	49

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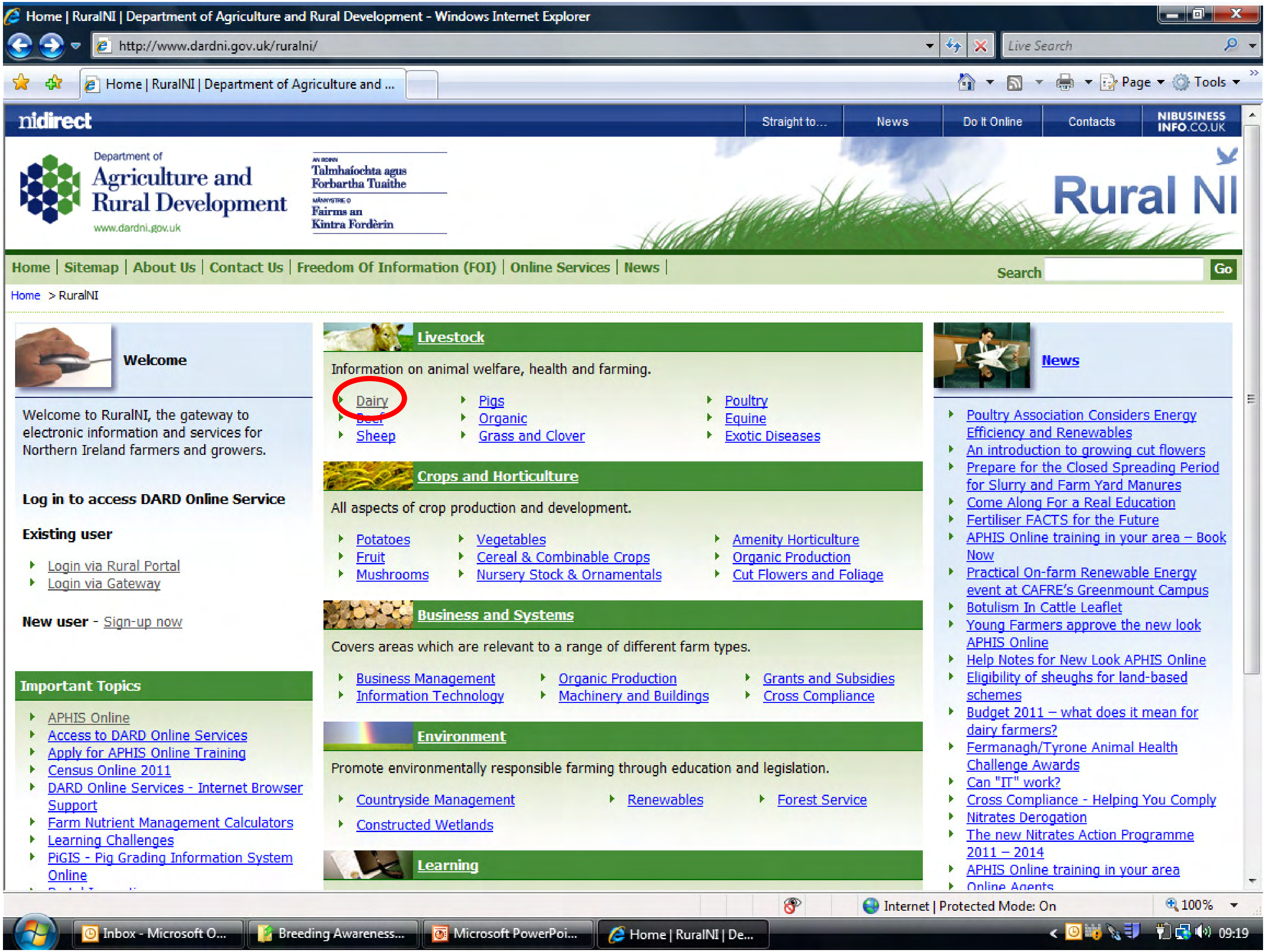
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Dairy

DAIRY Farming in Northern Ireland

Welcome to the Rural NI Dairy section. From within this area of the portal you can find information on the latest developments within the dairy farming sector.

Botulism in Cattle Leaflet (394 Kb)
This is an explanatory leaflet providing advice and guidance on Botulism and reflects a recent change in FSA guidance

Managing spring born replacement heifers at grass
Heifer replacements represent a significant investment in the future of any dairy enterprise ...

Feed Efficiency for Housed cows
A group of dairy farmers recently attended a farm walk at Harpurs of Bessbrook ...

Forage Maize – Getting it right in 2011
The area of forage maize grown in Northern Ireland in 2010 was almost 2,900 hectares, a 12 percent decline from 2009 levels ...

Getting ready for Forage Maize
This article is one in a series prepared jointly by CAFRE and John Thompson & Sons Ltd, focusing on the key grassland management issues facing dairy farmers ...

Winter feeding of the Future Herd and the change to 2nd cut silage
By the end of January many dairy farms will have used up stocks of first cut silage and be preparing for the transition to second cut ...

Dairy Management Notes
Latest Management Notes

Tag Manufacturers & Suppliers
Details of manufacturers and suppliers of DARD approved tags

Understanding your Soil Analysis Laboratory Report (PDF 247 KB)
Index tables provide guidance on the use of slurry / manure fertiliser

What is Cross Compliance?
Farming practices must be carried out to protect the environment, animal health and welfare and public health

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Breeding and Genetics

In recent years there has been a rapid increase in genetic merit in UK dairy herds. This rapid increase has largely been attributed to the importation of semen from North America and Europe, coupled with advances in progeny testing schemes and the introduction of advanced techniques to evaluate progeny test data from different countries.

Sire selection using £PLI (PDF 4 MB)

Profitable Lifetime index (£PLI) is the primary selection index used for ranking dairy cattle in the UK. It is based on a series of production traits (milk, butterfat and protein yield) making up 45 percent of the index, and non-production traits such as fertility, locomotion, somatic cell count and lifespan accounting for the remaining 55 percent. CAFRE have developed a short course on what £PLI means and how best to select AI sires using £PLI.

Herd genetic summary (PDF 6.49 MB)

DairyCo Breeding+ (www.dairycobreeding.org.uk/hg_reports.asp) produce herd genetic reports for milk recorded and pedigree registered herds that are also available from your milk recorder. If you know the average genetic merit of your herd and have clear breeding aims in mind, a herd genetic summary can be used to aid sire selection. CAFRE have developed a short course demonstrating how the herd genetic summary is used to aid sire selection in Greenmount's Future Herd.

Top 100 sires available in Northern Ireland ranked by £PLI (PDF 35 KB)

DairyCo Breeding+ conduct independent sire evaluations in the UK three times per year. Full sire listings for all breeds are available by clicking on the DairyCo (www.dairycobreeding.org.uk/default.asp) and then the link for the appropriate breed. CAFRE have summarised this list of around 500 available bulls to the top 100 of these available in Northern Ireland.

Genetic codes explained (PDF 135 KB)

In the sire lists produced by DairyCo and breed societies, sire names are followed by various genetic codes. These are summarised by clicking on the above link.

Lifetime performance of dairy cows in Northern Ireland (PDF 598 KB)

One of the targets of Greenmount's Future Herd is an average lifetime yield of 40,000 litres per cow. A technology investigation was conducted in collaboration with United Dairy Farmers and Holstein UK which established that the Northern Ireland lifetime yield average is around 27,000 litres

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http://www.dardni.gov.uk/ruralni/top100_northernirelandsires1011.pdf - Windows Internet Explorer

Top 100 Holstein bulls available in Northern Ireland

DairyCo conduct independent sire evaluations three times a year and publish the new list of available sires on their website (www.dairycobreeding.org.uk).
This page contains details of the top 100 of these bulls, ranked on £PLI, that are currently available in Northern Ireland based on the **Aug 2011** proof run.

August 2011 Evaluations																		
NI Rank	**£PLI**	**Sire Name**	**Rel %**	**Milk (kg)**	**Fat (kg)**	**Prot (kg)**	**Fat (%)**	**Prot (%)**	**£PIN**	**SCC**	**LS**	**FI**	**dCE**	**mCE**	**Type**	**Available NI**	**Sexed**
1	251	LYNBROOK JANCEN BLF CVF	74	470	32.8	25.1	0.17	0.12	56	-13	0.5	0.3			0.0	AIS	N
2	241	CROCKETT-ACRES EIGHT BLF CVF	74	587	24.9	24.9	0.02	0.07	47	-21	0.5	4.7	1.8	0.3	0.4	SMX	N
3	241	PIROLO GOLDWYN WYMAN	71	326	26.0	19.9	0.16	0.11	46	-27	0.3	4.6	0.6		2.1	WWS	N
4	236	CO-OP OMAN LOGAN BLF CVF	73	963	35.7	30.1	-0.03	-0.01	54	-22	0.3	-0.1	1.4	0.3	0.6	AIS	Y
5	230	MORNINGVIEW LEVI BLF CVF	73	694	29.7	26.1	0.03	0.04	50	-20	0.2	5.0	1.6	1.2	0.9	GEN	N
6	230	LONG-LANGS OMAN OMAN BLF CVF	73	732	30.5	30.7	0.02	0.08	57	-1	0.2	-0.3	2.1	0.6	1.6	WWS	N
7	222	GRAN-J OMAN MCCORMICK BLF CVF	74	313	28.7	15.7	0.20	0.07	41	-21	0.3	7.4	1.9	1.0	1.3	GEN	N
8	221	MAINSTREAM MANIFOLD BLF CVF	74	865	33.3	26.5	-0.01	-0.02	49	-7	0.3	3.8	3.2	0.8	0.8	SMX	N
9	221	COLDSPRINGS GARNER CRI BLF CVF	74	543	28.3	19.5	0.08	0.02	41	-22	0.4	5.4	1.4	0.6	0.9	AIS	N
10	220	BALLYCAIRN TIERGAN BLF CVF	90	388	32.8	18.7	0.21	0.07	48	-11	0.2	2.2	0.9		2.0	COG	N
11	220	MORNINGVIEW LEGEND	74	561	26.0	25.4	0.05	0.09	49	-12	0.3	2.9	1.1	0.1	0.4	GEN	Y
12	216	D OMAR	77	491	29.9	24.0	0.13	0.10	52	-22	0.1	2.4	0.5	0.2	0.3	VIK	N
13	215	CO-OP OMAN LOYDIE	72	456	27.4	23.3	0.11	0.10	49	-16	0.2	1.9	2.5		0.8	AIS	Y
14	213	AL.PAR. GOLDWYN MENTOS ET	70	404	26.6	18.6	0.13	0.07	42	-15	0.2	5.5	0.8		1.9	WFE	N
15	210	DANSIRE OMAN OBLAT	76	792	33.3	26.4	0.02	0.01	50	-10	0.1	4.1	1.3	0.0	0.6	VIK	N
16	210	GENERVATIONS LOBO	68	439	25.7	19.4	0.10	0.06	42	-19	0.3	3.2	1.5		1.4	WFE	N
17	207	UFM-DUBS ALTAESQUIRE *TL *TV	74	526	33.8	22.3	0.16	0.06	51	-6	0.2	0.6	2.6	0.7	0.5	GG	Y
18	206	REGANCREST ALTAIOTA	73	604	30.2	22.6	0.08	0.04	47	-10	0.2	1.5	1.6	1.2	1.6	GG	N
19	202	O-MAN END-STORY BLF CVF	70	631	28.4	23.3	0.04	0.03	46	0	0.1	4.3	3.3		2.2	WWS	N
20	199	UFM-DUBS ELLROD BLF CVF	73	350	29.4	18.7	0.19	0.09	46	-2	0.3	1.5	1.7	-0.1	0.5	GEN	N
21	198	BOSSIDE ALTAROSS	73	569	24.5	20.1	0.02	0.02	39	-15	0.4	1.2	0.8	0.7	1.6	GG	Y
22	196	ENSENADA TABOO PLANET BLF CVF DPF TR	78	913	23.7	25.1	-0.14	-0.05	37	-4	0.4	4.3	1.7	1.0	1.5	WWS	Y
23	191	COGENT TWIST BLF CVF	93	593	35.3	22.3	0.14	0.04	50	-10	0.1	-3.4	-1.8		1.3	COG	Y
24	190	NASTGARDEN	76	618	30.1	24.5	0.07	0.05	49	-5	0.1	0.6	2.2	-0.1	0.3	VIK	N
25	190	SCHILLVIEW OMAN GERARD BLF CVF	74	826	23.5	28.1	-0.10	0.01	45	-1	0.3	-3.6	1.6	0.5	2.3	GEN	N
26	187	LEIF *TL *TV	98	194	20.0	10.4	0.15	0.05	29	-24	0.5	4.0	-1.2		1.3	AIS	N
27	187	WA-DEL JUNCTION	74	586	29.0	21.0	0.07	0.02	43	-5	0.2	2.2	2.4	0.6	0.8	GEN	N
28	187	LOT-O-ROK OMAN JAKE *TL *TV	71	708	30.3	23.3	0.03	0.00	45	0	0.2	0.4	1.5	-0.3	1.2	WWS	N
29	186	SMITHDEN ADMIRAL	70	636	27.7	18.9	0.03	-0.02	37	-9	0.3	-0.4	0.9	0.0	2.5	SMX	N
30	184	ISIDORUS ALTAOSAN	78	491	23.9	20.5	0.05	0.05	41	-4	0.3	1.3	0.8	0.2	0.7	GG	N
31	184	CROCKETT-ACRES OTTO *TL *TV	73	793	28.1	26.6	-0.04	0.01	47	-24	0.1	-1.6	1.9	1.2	0.3	GG	N
32	180	SOUTHLAND ALTATRIGGER BLF CVF	72	410	25.0	17.7	0.11	0.05	39	-18	0.2	-1.2	-0.3	1.0	2.0	GG	N
33	178	JARDIN *TL	92	619	20.2	27.7	-0.05	0.09	47	6	0.1	-1.0	1.2	0.9	1.4	AIS	N
34	178	GILLETTE WATCH OUT BLF CVF	75	615	31.7	16.1	0.09	-0.05	36	-6	0.1	7.2	1.0	0.6	1.6	SMX	N
35	178	KINGS-RANSOM DOVER BLF CVF	73	569	20.0	17.4	-0.03	-0.01	30	-17	0.3	5.9	3.3	0.6	1.4	GEN	N
36	177	MACOMBER O-MAN BOGART	71	337	20.3	13.3	0.09	0.03	30	-15	0.3	6.9	1.2	0.3	1.3	WWS	N
37	176	DELTA FIDELITY BLF BYF CVF	79	227	19.3	21.1	0.13	0.17	45	0	0.2	-2.9	0.7	-1.4	1.0	AIS	Y
38	176	PREMIER-KERNDT SAILING BLF CVF	71	806	31.7	22.5	0.00	-0.04	42	-9	0.2	-4.3	-0.2	-0.1	2.2	SMX	Y
39	175	MASCOL *TV	99	262	18.4	14.7	0.10	0.08	33	-22	0.4	-1.4	1.1	1.0	1.5	AIS	N

Summary

- £PLI summarises all PTA's into a single lifetime-based financial index.
- PTAs for Fertility and Lifespan have real effects at herd level.
- Have clear objectives of where you want your herd to be in 5 years time and breed towards this:
  - Use Herd Genetic Report to establish <u>current</u> genetic merit of your herd.
  - Select bulls <u>now</u> that will meet your objectives in 5 years time.
- Use £PLI as your key selection criteria – select from top 100 bulls available.
- Restrict your choice of bulls selecting those that will meet your herd targets:

Milk production	Yield, BF%, PR%
Fertility	+ve
Lifespan	+ve
SCC	-ve
Type	
Reliability	70% or more

- Where possible, limit number of bulls to 3 or 4 each year.

Selection on £PLI should lead to improved longevity and lifetime yield.