

# **Profitable Lifetime Index and Spring Calving Index for promoting the genetic potential of a herd**

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Extension Officer – Breeding & Fertility

A large, decorative orange wave graphic that spans the width of the slide and curves upwards from the bottom left towards the right, creating a sense of movement and design.

# Today

- Introduction
- What have UK genetics achieved?
- Profitable Lifetime Index - £PLI
- Spring Calving Index - £SCI
- TB Advantage
- Herd Genetic Reports
- Summary

# How do we get bull proofs?



3 x per year

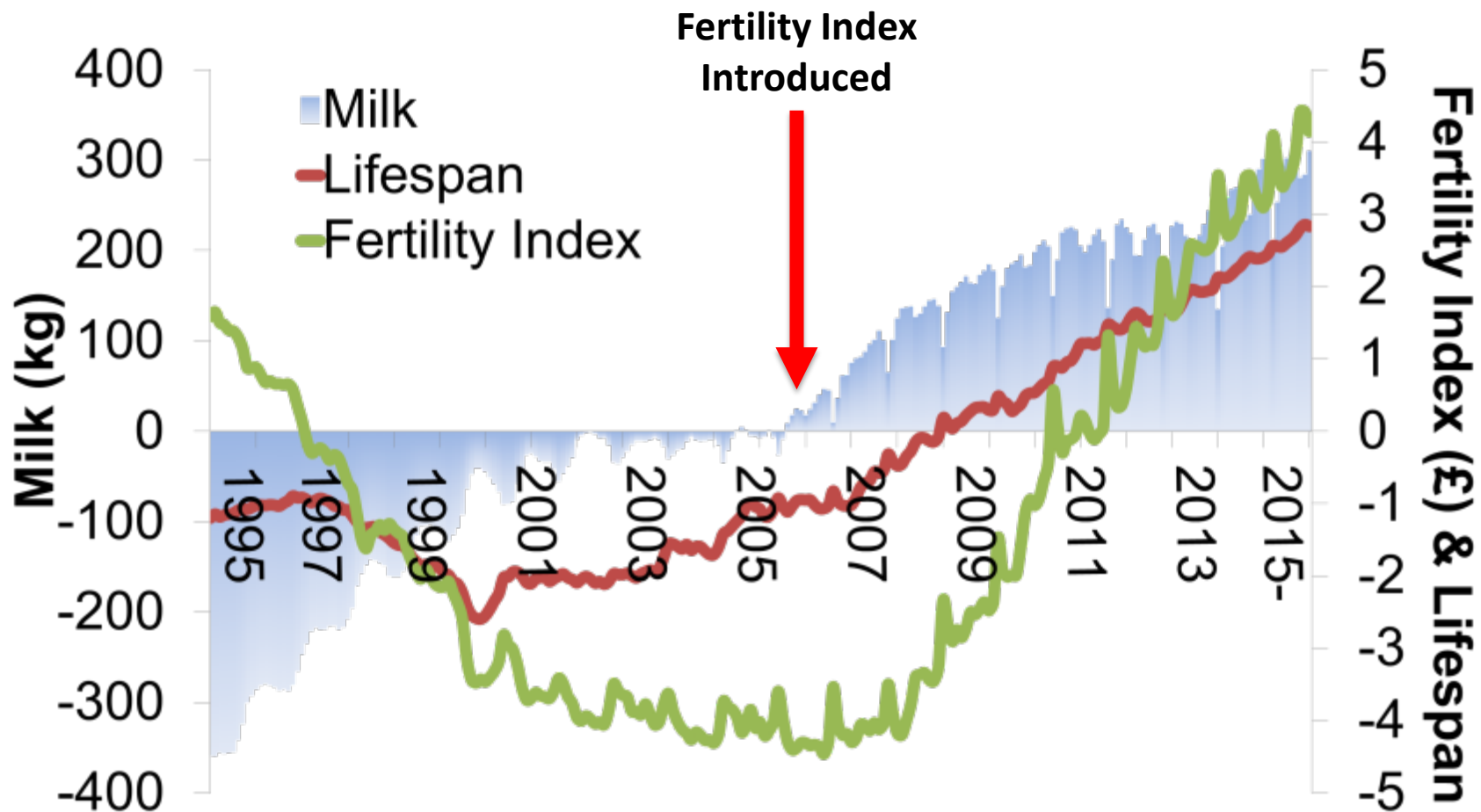




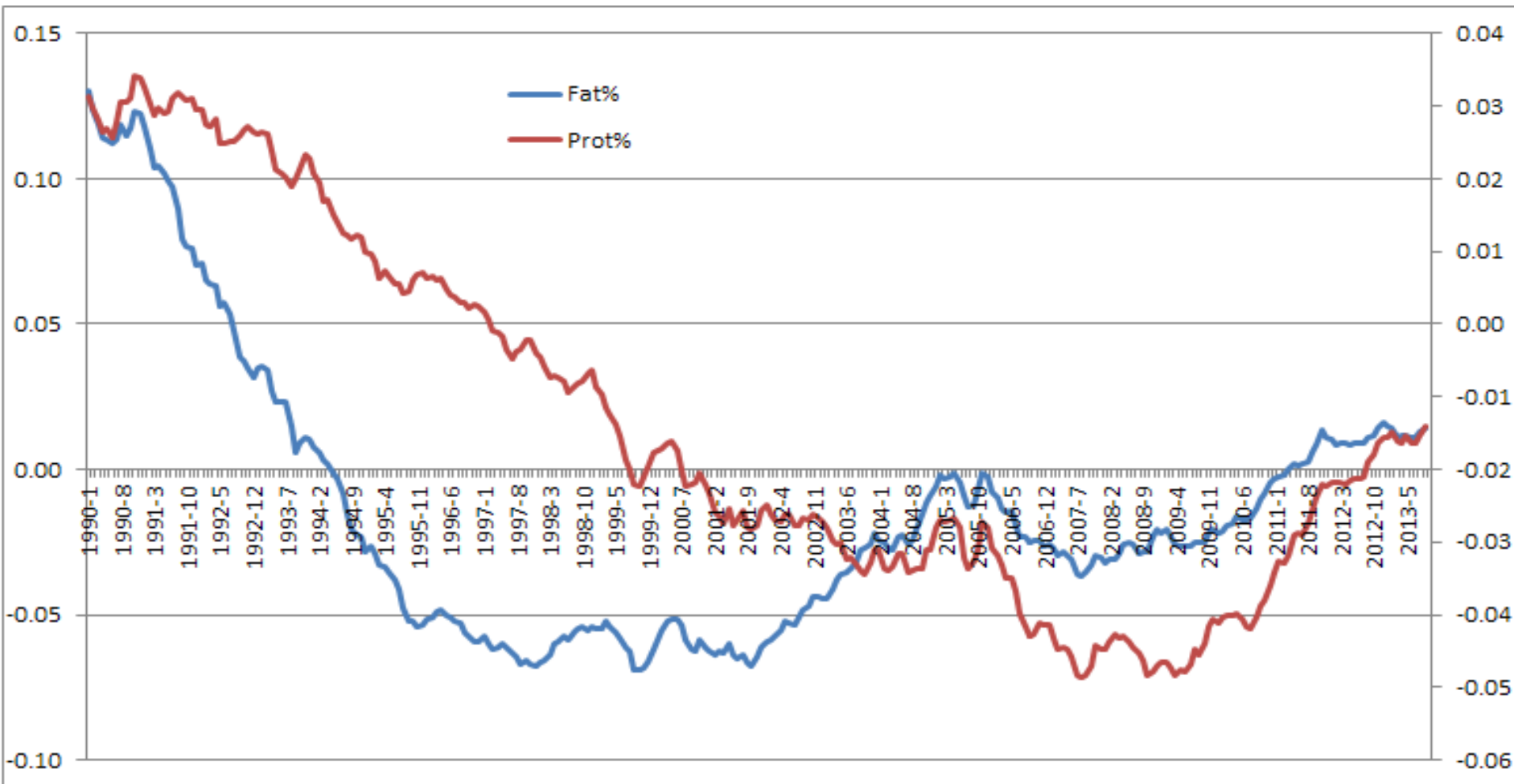
# AHDB Breeding



# Genetic Progress!



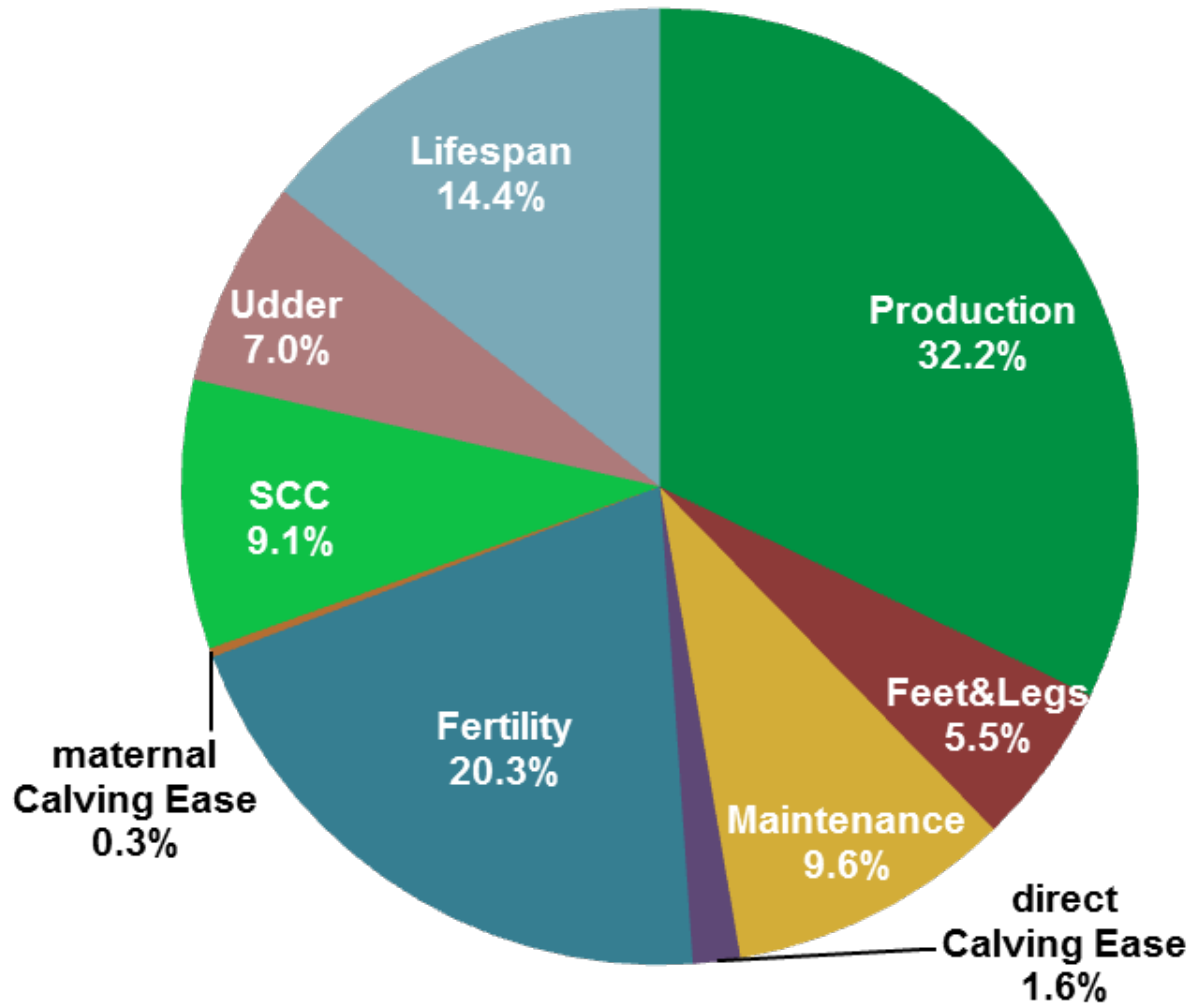
# Fat and Protein Percentage



# Profitable Lifetime Index

- For AYR and autumn calving herds
- Within breed index
- Evolved since mid 2000's
- Replaced £PIN
- Last updated in August 2014
- Increased emphasis on health traits
- Introduction of Maintenance

# Profitable Lifetime Index - £PLI



★ PIN is no longer used



# Top Holstein Bulls

- **BUT HUGE VARIATION!**

- Top milk +927
- Bottom milk -200
- Top fat% +0.29
- Bottom fat% - 0.22
- Top FI + 20.4
- Bottom FI – 2.6
- Top SCC – 32
- Bottom SCC + 10

Trait	Apr-14	Dec - 15
Milk (kg)	403	413
Fat (kg)	20.9	18.9
Prot (kg)	16.9	15.96
Fat (%)	0.06	0.03
Prot (%)	0.05	0.03
Maint.	12	2.43
SCC	-10	-13
Lifespan	0.2	0.4
Fertility	4.5	8.6
dCE (%)	1	0.8
mCE (%)	0.7	1
Udder	1.38	1.1
Legs	1.46	1.1
TM	1.64	1.3

[www.dairy.ahdb.org.uk/breeding](http://www.dairy.ahdb.org.uk/breeding)

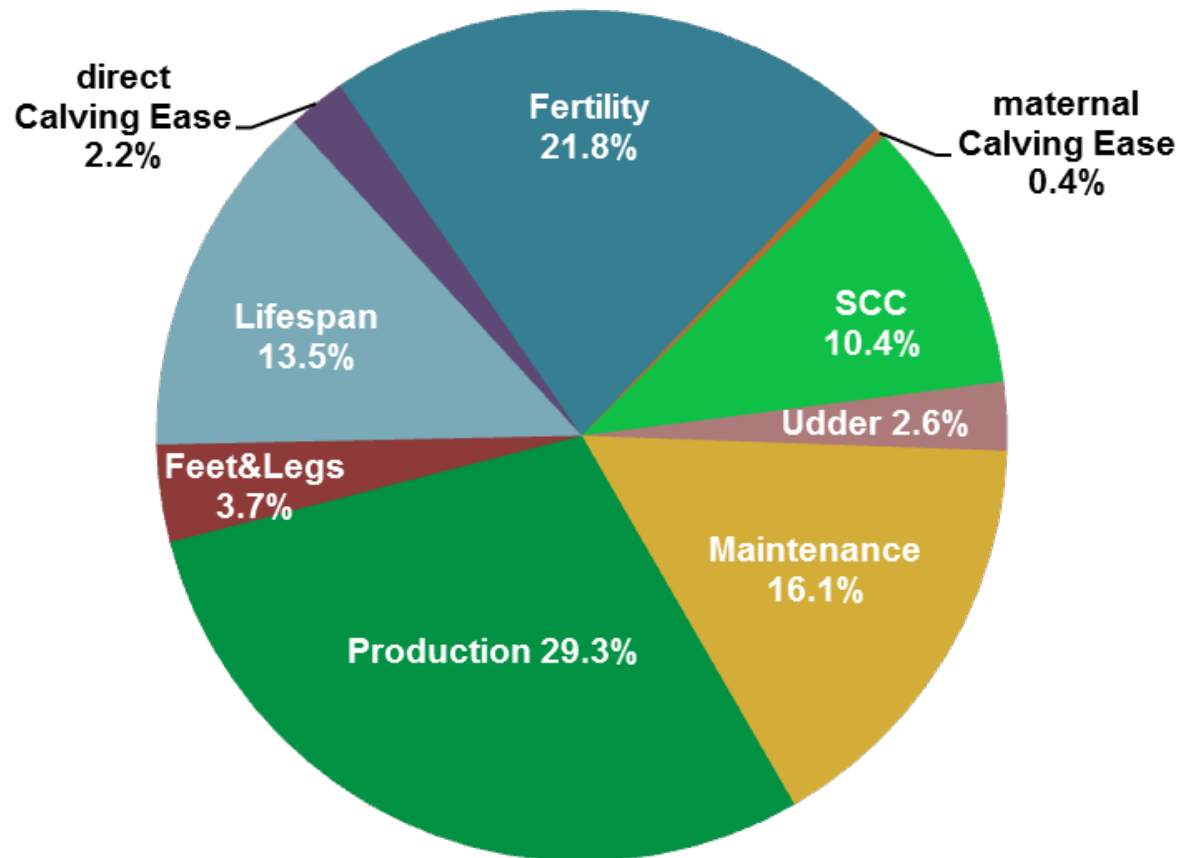
# Introduce new index in Aug-2014

- Spring Calving Index - £SCI targeted towards
  - Spring block calving herds
  - Making extensive use of grass
  - Approx 4,500kg milk target
  - Across breed index
  - Geared towards constituents
  - Strong emphasis on health

**Select for desired traits for own  
Herd not just top 10 bulls!**



# Spring Calving Index - £SCI



# Top £SCI Bulls

Massive range

- Milk - +862 to -415
- Fat kg - +30.6 to -8.7
- Protein - +26.1 to -9.5
- Fat % - +0.59 to -0.3
- Pro % - +0.24 to -0.09
- Fertility - +17.8 to -5.4
- SCC - -30 to +10

Trait	Apr - 15
Milk (kg)	272
Fat (kg)	14.62
Prot (kg)	11.24
Fat (%)	0.08
Prot (%)	0.05
Maint.	-11.01
SCC	-9
Lifespan	0.3
Fertility	6.5
Udder	0.58
Legs	0.71
TM	0.73

# TB Genetic Evaluations – “TB Advantage”

- Previous research has shown 9% heritability of resistance
  - Funded by Defra and Welsh Government
  - Carried out by Edinburgh University, Roslin and SRUC
- Produce genetic evaluations for bTB resistance
  - Advised by Genetics Advisory Forum
  - Approved and Funded by AHDB Dairy Board

# Correlation to other traits

Trait	No. sires	Correlation
Milk kg	9,835	0.03
Fat kg	9,835	0.04
Protein kg	9,835	0.05
Fat %	9,835	0.01
Protein %	9,835	0.03
SCC	9,813	-0.05
Lifespan	9,727	0.08
Fertility index	7,274	0.06
Calving ease (direct)	4,494	0.07
Calving ease (maternal)	4,754	0.07
Maintenance	5,904	-0.05
Profitable Lifetime Index (£PLI)	9,835	0.11

# Bull examples

TB Advantage	Sire	% Dtrs infected	Sons	% Grand-dtrs infected
-2.7	LANCELOT	9.3%	17	6.3%
-2.4	ALZI JUROR FORD	11.6%	16	5.8%
2.4	O-BEE MANFRED JUSTICE	2.8%	66	2.8%
3.5	LAUDAN	3.0%	13	3.7%

- 22,119 grand-dtrs combined for these 4 sires
- Difference in grand-dtrs infected → 3.3%
  - $= 22,119 * 3.3\% = 720$  Extra infected cows !

# Available Holstein Bulls - 839 results

Bull Search

Search

£PLI



Milk (kg)



Fat (kg)



Protein (kg)



Fat (%)



Protein (%)



Fertility Index (FI)



Lifespan (LS)



Somatic Cell Counts (SCC)



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					Production					Fitness						Type					
Rank	Bull Name	£PLI	£PLI Rel	Milk (kg)	Fat (kg)	Prot (kg)	Fat (%)	Prot (%)	FI	LS	SCC	Main	dCE	mCE	TB Adv.	Legs	Udder	TM	Available	Gen.	Sex
	Sire Name																		Available NI		
↑	↕	↕		↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕		↕
<input type="checkbox"/>	1 KINGS-RANSOM ERDMAN CRI ENSENADA TABOO PLANET	603	83	490	23.0	15.4	0.04	-0.01	12.4	0.7	-18	-19	1.1	1.1	0.3	0.41	0.27	0.36	BUL AIS	G	S
<input type="checkbox"/>	2 GEN-I-BEQ LAVAMAN LONG-LANGS OMAN OMAN	599	91	359	19.6	23.1	0.07	0.14	13.8	0.1	-4	-2	1.4	1.6	1.6	1.13	1.14	1.19	SMX SMX	G	
<input type="checkbox"/>	3 DE-SU RANSOM ROYLANE SOCRA ROBUST	591	75	177	15.4	13.7	0.11	0.10	10.9	0.7	-17	9	1.4	2.3	1.1	2.46	0.98	1.69	TAG	G	S



# Herd Genetic Reports (HGR)

- Available for milk recording herds (NMR,CIS,UDF)
- Gives the genetic potential of every milking animal on the farm
- Available for 3<sup>rd</sup> party access by vets, consultants and breeding advisors
- Allows strengths and weaknesses to be easily identified



# Welcome

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## Technical Information ▾

### Animal Health & Welfare

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## BREEDING & GENETICS

### Welcome to the AHDB Dairy genetic evaluations homepage

AHDB Dairy Breeding is the independent source for the latest UK genetic evaluation results, explanations of the indices and statistical analysis of all major breeds in the United Kingdom.

To ensure you use the genetics best suited to your business, please select from the correct index below to be directed to the relevant bull lists. Further details on each index can be found below via the links below.

Use £PLI for -	Use £SCI for -
The vast majority of farms	Spring block calving herds
Autumn block or all year round calving herds	Making extensive use of spring grass targeting 4,500 kgs/yr
Within breed selection	Across-breed selections
Revised and updated version of 2007 Profitable Lifetime Index	Low level of input through autumn and winter
<a href="#">Click for £PLI</a>	<a href="#">Click for £SCI</a>

[Click for your Herd Genetic Report](#)


# Summary

## HERD GENETIC REPORT SUMMARY

Herd Number: 909036600

Evaluation Date: December 2015

Evaluation Group: Holstein

[Excel Version](#)

Lactation Group	Number of animals	£PLI	Predicted Transmitting Ability (PTA 2014) Herd Averages									
			Inbreeding %	Rel %	Milk (kg)	Fat (kg)	Prot (kg)	Fat (%)	Prot (%)	Lifespan	SCC	Fertility Index
0-12 months	85	255	2.2	34	71	10.6	6.1	0.10	0.05	0.25	-8.5	4.2
12-18 months	195	195	2.2	37	110	9.9	6.3	0.07	0.03	0.19	-5.2	1.7
18-24 months	33	205	1.5	37	64	7.1	5.4	0.06	0.04	0.19	-6.8	4.0
24+ months	69	132	2.0	39	13	3.2	3.0	0.03	0.03	0.10	-2.8	3.3
1st Lactation	73	122	1.8	51	10	3.4	2.1	0.04	0.02	0.13	-5.8	2.0
2nd Lactation	57	79	2.0	63	60	4.6	4.2	0.03	0.03	0.08	0.6	-0.3
3rd Lactation	27	56	2.0	66	55	3.6	3.1	0.02	0.02	0.01	-1.9	0.8
4th Lactation	34	61	1.8	67	-20	1.6	2.1	0.03	0.03	0.03	-2.6	0.8
5th Lactation	13	-43	2.6	68	-15	-0.2	1.5	0.01	0.03	-0.07	0.1	-3.8
>5th Lactation	21	-19	1.6	68	-252	-5.5	-5.0	0.06	0.04	0.03	-3.1	0.4
Average	458	136	2.0	48	30	5.1	3.6	0.05	0.03	0.13	-4.3	2.0

[View herd sire list](#)

[View youngstock report](#)

[View milking herd report](#)

The table below shows your current herd averages bench marked (highlighted in yellow) against current UK breed percentiles. Each trait is evaluated individually, a herd in the top 1% for milk can equally be in top 10% for protein. All averages are calculated from live cows.

Milking Herd

Percentile	EPLI	PTA Milk (kg)	PTA Fat (kg)	PTA Prot (kg)	PTA Fat (%)	PTA Prot (%)	Lifespan	SCC	Fertility Index
1	129	275	7.9	6.2	0.12	0.08	0.28	-8	10.4

## Milking Herd Genetic Report - 225 results

Line Number

Current Lactation

Lifespan (LS)

Somatic Cell Counts (SCC)

Fertility Index (FI)

Reset

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## Younastock Genetic Report - 233 results

Line Number ↓

Age (in months) ↓

Lifespan (LS) ↓

Somatic Cell Counts (SCC) ↓

Fertility Index (FI) ↓

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







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Line	£PLI	£PLI Rel	Breed	Identity	Cow	Inbreeding %	Birth Date	Rel%	Milk (kg)	Bfat (kg)	Prot (kg)	Bfat (%)	Prot (%)	LS	SCC	FI	Gen.
	↓				Dam												
					Sire												
3278	460	30	1	380467403278		1.3	27/09/2014	42	-199	14.8	2.5	0.28	0.11	0.1	-7	13.9	
			4	380467601782													
			65	135778023	GRAN-J OMAN MCCORMICK												
2985	443	29	1	380467502985		1.0	03/09/2013	41	0	9.4	6.5	0.11	0.08	0.4	-7	11.5	
			4	380467301779													
			1	636351	LAURELHILL CLASSIC												
3206	441	30	1	380467203206		0.0	22/08/2014	41	-307	10.2	-0.3	0.28	0.12	0.2	-7	13.9	
			4	380467501781													
			65	135778023	GRAN-J OMAN MCCORMICK												



## Herd Sire List - 81 results

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					Production					Fitness						
Daughter Count	Bull Name	Breed	£PLI	£PLI Rel	Milk (kg)	Fat (kg)	Prot (kg)	Fat (%)	Prot (%)	FI	LS	SCC	Main	Gen.	Y. Sire	
↓	↕	↕	↕		↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	
<input type="checkbox"/>	37	BALLYCAIRN TIERGAN	HOLSTEIN	312	97	-1	14.0	6.0	0.18	0.08	-1.0	0.3	-16	-8		
<input type="checkbox"/>	32	LAURELHILL CLASSIC	HOLSTEIN	533	88	305	10.3	16.2	-0.02	0.08	15.7	0.6	-16	10		
<input type="checkbox"/>	27	COGENT TWIST	HOLSTEIN	425	98	399	31.9	18.5	0.20	0.07	-2.6	0.6	-12	23		
<input type="checkbox"/>	22	GRAN-J OMAN MCCORMICK	HOLSTEIN	527	99	-84	19.0	4.6	0.29	0.09	20.4	0.2	-13	-2		
<input type="checkbox"/>	17	COGENT AZURE	HOLSTEIN	197	98	616	9.7	18.4	-0.17	-0.02	6.2	-0.1	18	4		
<input type="checkbox"/>	16	HYDAWAYS GOLDMINE	HOLSTEIN	150	97	259	6.8	1.7	-0.04	-0.08	-1.9	0.2	-21	0		
<input type="checkbox"/>	12	KED OUTSIDE JEEVES	HOLSTEIN	204	99	317	8.0	4.4	-0.06	-0.07	6.5	0.4	3	-3		
<input type="checkbox"/>	11	ABS RIVIERA	HOLSTEIN	208	96	247	7.1	14.4	-0.03	0.08	1.1	0.2	-5	-2		
<input type="checkbox"/>	11	BAKOMBRE	HOLSTEIN	372	88	738	33.9	24.5	0.06	0.01	-4.4	0.2	0	-1		
<input type="checkbox"/>	11	BURLANE TENNYSON	HOLSTEIN	244	99	563	17.4	14.9	-0.06	-0.04	3.7	0.0	-14	4		
<input type="checkbox"/>	10	BILSROW JOCK	HOLSTEIN	205	95	332	19.5	15.2	0.08	0.05	-3.7	0.1	0	3		
<input type="checkbox"/>	8	BO-IRISH KRUISER	HOLSTEIN	117	90	-17	8.8	-0.9	0.12	0.00	5.3	-0.1	-10	3		
<input type="checkbox"/>	8	WILTOR CRUISE	HOLSTEIN	482	68	535	23.6	20.0	0.03	0.03	7.1	0.3	-14	14		

# Breeding for M, F + P kg's

Predicted Transmitting Ability (PTA 2014) Herd Averages													
	Lactation Group	Number of animals	£PLI	Inbreeding %	Rel %	Milk (kg)	Fat (kg)	Prot (kg)	Fat (%)	Prot (%)	Lifespan	SCC	Fertility Index
✓	1st Lactation	54	24	4.7	57	298	3.4	4.5	-0.10	-0.06	0.05	-2.8	-0.5
✓	2nd Lactation	49	52	4.4	66	328	6.3	6.3	-0.08	-0.05	0.04	-1.0	-0.5
✓	3rd Lactation	40	21	4.3	67	294	4.7	4.9	-0.08	-0.05	0.02	1.1	-1.6
✓	4th Lactation	40	1	4.6	69	233	0.5	2.0	-0.10	-0.06	0.03	-1.3	0.2
✓	5th Lactation	21	-19	4.0	69	226	-0.5	2.7	-0.11	-0.06	0.03	0.1	-0.6
✓	>5th Lactation	22	-10	3.6	70	86	-2.3	-1.0	-0.07	-0.05	0.09	1.2	1.5
	Average	226	18	4.4	65	265	2.8	3.8	-0.09	-0.06	0.04	-0.8	-0.4

Percentile	£PLI	PTA Milk (kg)	PTA Fat (kg)	PTA Prot (kg)	PTA Fat (%)	PTA Prot (%)	Lifespan	SCC	Fertility Index
1	115	265	7.6	5.9	0.12	0.08	0.27	-6	10.3
5	73	173	4.5	3.4	0.08	0.05	0.19	-4	6.1
10	53	126	3.2	2.3	0.06	0.04	0.15	-3	3.8
15	41	96	2.2	1.6	0.05	0.03	0.13	-2	2.6
20	32	69	1.6	1.0	0.04	0.03	0.11	-2	1.9
25	25	45	1.0	0.6	0.03	0.02	0.10	-1	1.4
30	19	25	0.5	0.2	0.03	0.02	0.09	-1	1.0
35	14	6	0.0	-0.2	0.02	0.01	0.08	-1	0.7
40	9	-13	-0.5	-0.6	0.02	0.01	0.07	0	0.5
45	3	-33	-1.0	-1.0	0.01	0.01	0.06	0	0.2
50	-2	-50	-1.5	-1.4	0.01	0.00	0.05	0	0.0
55	-7	-68	-2.0	-1.8	0.00	0.00	0.05	0	-0.2
60	-13	-90	-2.6	-2.3	0.00	0.00	0.04	1	-0.4
65	-19	-114	-3.3	-2.9	-0.01	-0.01	0.03	1	-0.6
70	-26	-143	-4.0	-3.5	-0.01	-0.01	0.02	1	-0.9
75	-33	-176	-4.9	-4.3	-0.02	-0.01	0.01	2	-1.1
80	-42	-215	-6.0	-5.2	-0.02	-0.02	0.00	2	-1.3
85	-54	-264	-7.4	-6.3	-0.03	-0.02	-0.01	3	-1.6
90	-71	-329	-9.7	-8.0	-0.04	-0.03	-0.03	3	-2.0
95	-104	-443	-13.3	-11.2	-0.05	-0.04	-0.06	5	-2.5



Line	<u>£PLI</u>	Breed	Identity	Ped. Status	Cow	Curr Lact	Inbreeding %	Rel%	Milk (kg)	Bfat (kg)	Prot (kg)	Bfat (%)	Prot (%)	Lifespan	SCC	Fertility Index
					Dam											
					Sire											
↕	↕					↕	↕	↕	↕	↕	↕	↕	↑	↕	↕	↕
396	-119	1				1	4.7	60	490	-3.0	1.6	-0.26	-0.16	0.0	-8	-3.2
		1														
		65														
883	-287	1				4	3.8	70	300	-9.9	-2.8	-0.26	-0.15	-0.2	-1	-7.1
		1														
		1														
997	27	1				4	4.3	68	208	2.1	-4.9	-0.07	-0.14	0.3	-4	5.1
		1														
		65														
183	-117	1				2	5.3	67	668	15.6	8.9	-0.12	-0.14	-0.2	-3	-11.8
		1														
		65														
340	-158	1				1	5.6	56	430	-3.4	1.5	-0.24	-0.14	-0.1	-6	-4.9
		1														
		64														
126	13	1				3	5.2	68	635	8.0	8.0	-0.19	-0.14	0.2	1	-3.6
		1														
		65														
980	-10	1				4	4.6	68	366	-0.2	-0.3	-0.17	-0.14	0.2	2	2.9
		1														
		65														
963	47	1				4	7.1	69	496	6.7	4.9	-0.15	-0.13	0.1	-9	0.0
		1														
		1														

Line	£PLI	Breed	Identity	Ped. Status	Cow		Curr Lact	Inbreeding %	Rel%	Milk (kg)	Bfat (kg)	Prot (kg)	Bfat (%)	Prot (%)	Lifespan	SCC	Fertility Index
					Dam												
					Sire												
							↕	↕	↕	↕	↕	↕	↑	↕	↕	↕	↕
849	10	1					5	4.9	71	624	-0.9	9.8	-0.29	-0.12	0.1	-2	-2.5
		1															
		1															
622	-33	1					7	4.3	66	451	-6.0	11.2	-0.27	-0.04	-0.1	14	-2.3
		1															
		1															
883	-287	1					4	3.8	70	300	-9.9	-2.8	-0.26	-0.15	-0.2	-1	-7.1
		1															
		1															
396	-119	1					1	4.7	60	490	-3.0	1.6	-0.26	-0.16	0.0	-8	-3.2
		1															
		65															
79	-115	1					3	2.7	65	178	-13.5	-1.5	-0.25	-0.09	0.1	4	-1.1
		1															
		1															
19	-60	1					3	2.3	70	537	-0.7	5.6	-0.25	-0.13	-0.2	6	4.3
		1															
		65															
47	-69	1					3	5.8	67	200	-13.1	1.7	-0.25	-0.06	0.0	-1	-0.5
		1															
		1															
340	-158	1					1	5.6	56	430	-3.4	1.5	-0.24	-0.14	-0.1	-6	-4.9
		1															
		64															

## Available Holstein Bulls - 778 results

### Bull Search

Bull name:

Bull hbn:

Breed:



Holstein



Search

EPLI	↓	Milk (kg)	↓	Fat (kg)	↓
Protein (kg)	↓	Fat (%)	↓	Protein (%)	↓
Fertility Index (FI)	↓	Lifespan (LS)	↓	Somatic Cell Counts (SCC)	↓

Reset

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Rank	Bull Name	EPLI	EPLI Rel	Production					Fitness						Type			Available	Gen.	Sexed
				Milk (kg)	Fat (kg)	Prot (kg)	Fat (%)	Prot (%)	FI	LS	SCC	Main	dCE	mCE	Legs	Udder	TM			
	Sire Name																	Available NI		
↑		↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓
1	GEN-I-BEQ LAVAMAN	640	96	443	21.1	26.3	0.04	0.14	10.2	0.2	-7	-2	2.1	1.5	1.96	1.13	1.48	SMX	G	

## Available Holstein Bulls - 2 results

Bull Search

Bull name:

Bull hbn:

Breed:

Holstein

▼

Search

<p>£PLI</p> <p>↓</p>	<p>Milk (kg)</p> <p>↑</p> <p>3 1074</p>	<p>Fat (kg)</p> <p>↓</p>
<p>Protein (kg)</p> <p>↓</p>	<p>Fat (%)</p> <p>↑</p> <p>0.12 0.51</p>	<p>Protein (%)</p> <p>↑</p> <p>0.16 0.21</p>
<p>Fertility Index (FI)</p> <p>↑</p> <p>0 18.2</p>	<p>Lifespan (LS)</p> <p>↑</p> <p>0 0.7</p>	<p>Somatic Cell Counts (SCC)</p> <p>↑</p> <p>-33 0</p>

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### Compare

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				Production					Fitness						Type					
Rank	Bull Name	EPLI	EPLI Rel	Milk (kg)	Fat (kg)	Prot (kg)	Fat (%)	Prot (%)	FI	LS	SCC	Main	dCE	mCE	Legs	Udder	TM	Available	Gen.	Sexed
	Sire Name																	Available NI		
↕	↕	↕		↕	↕	↕	↕	↑	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕		↕
<input type="checkbox"/>	114 DE BIESHEUVEL BERTOLI BEEKMANSHOEVE BERTIL	369	74	135	19.8	17.7	0.17	0.18	3.2	0.1	-4	11	0.0	0.4	0.51	-0.35	-0.18	AV AIS		
<input type="checkbox"/>	152 ROSKILDE ROUMARE *TL *TV HH1T HH2T HH3T	352	72	117	20.9	17.4	0.20	0.16	0.9	0.0	-1	10	-0.6	0.3	0.88	0.97	1.12	BUL AIS		

# Traditional Spring Calving Herd



Lactation Group	Number of animals	£PLI	Predicted Transmitting Ability (PTA 2014) Herd Averages									
			Inbreeding %	Rel %	Milk (kg)	Fat (kg)	Prot (kg)	Fat (%)	Prot (%)	Lifespan	SCC	Fertility Index
☑ 0-12 months	95	141	0.4	33	-473	-5.2	-5.1	0.17	0.13	0.18	5.5	9.7
☑ 18-24 months	69	117	0.4	31	-498	-6.2	-5.8	0.17	0.13	0.23	8.9	8.7
☑ 24+ months	13	68	0.2	37	-578	-6.8	-8.7	0.21	0.13	0.18	8.0	7.5
☑ 1st Lactation	78	102	0.3	37	-491	-6.2	-6.8	0.17	0.12	0.18	6.2	8.9
☑ 2nd Lactation	77	114	0.1	59	-570	-9.3	-8.9	0.17	0.12	0.24	7.6	9.8
☑ 3rd Lactation	8	-23	0.5	63	-320	-2.8	-4.9	0.13	0.07	-0.06	16.0	4.1
☑ 4th Lactation	12	-57	0.6	65	-389	-5.8	-6.8	0.12	0.07	-0.08	10.6	4.4
☑ 5th Lactation	48	-11	0.8	66	-451	-7.9	-7.5	0.13	0.09	0.06	7.2	6.3
☑ >5th Lactation	46	12	1.0	67	-502	-10.4	-8.7	0.12	0.10	0.13	8.5	8.4
Average	446	85	0.4	46	-495	-7.1	-6.9	0.16	0.12	0.17	7.4	8.6

Compare against national averages for Milking Herd ▼

Percentile	£PLI	PTA Milk (kg)	PTA Fat (kg)	PTA Prot (kg)	PTA Fat (%)	PTA Prot (%)	Lifespan	SCC	Fertility Index
1	129	275	7.9	6.2	0.12	0.08	0.28	-6	10.4
5	88	182	5.0	3.8	0.08	0.05	0.20	-4	6.5
10	69	135	3.7	2.7	0.06	0.04	0.16	-3	4.1
15	56	106	2.7	2.0	0.05	0.03	0.14	-3	2.9
20	47	79	2.1	1.5	0.04	0.03	0.12	-2	2.2
25	40	56	1.5	1.0	0.03	0.02	0.11	-2	1.6
30	33	36	1.0	0.6	0.03	0.02	0.10	-2	1.3
35	28	16	0.5	0.2	0.02	0.01	0.09	-1	1.0
40	22	-2	0.1	-0.2	0.02	0.01	0.08	-1	0.7
45	17	-21	-0.5	-0.6	0.01	0.01	0.07	-1	0.4
50	12	-40	-0.9	-1.0	0.01	0.00	0.07	0	0.2
55	6	-58	-1.4	-1.4	0.00	0.00	0.06	0	0.0
60	1	-77	-2.0	-1.9	0.00	0.00	0.05	0	-0.2
65	-5	-102	-2.7	-2.4	-0.01	-0.01	0.04	0	-0.4
70	-13	-131	-3.5	-3.0	-0.01	-0.01	0.04	1	-0.6
75	-20	-162	-4.4	-3.8	-0.02	-0.01	0.03	1	-0.9
80	-30	-205	-5.4	-4.7	-0.02	-0.02	0.01	2	-1.1
85	-42	-252	-7.0	-5.9	-0.03	-0.02	0.00	2	-1.4
90	-61	-319	-9.2	-7.6	-0.04	-0.03	-0.02	3	-1.8
95	-95	-430	-12.7	-10.8	-0.05	-0.04	-0.05	4	-2.3

# Summary

- Setting YOUR OWN breeding goals is vital
- HGR's are the first step to knowing what you've got.
- £PLI/£SCI is one of a number of tools to use
- Selecting specific management traits is key (FI, LS, SCC etc)
- Use TB Advantage NOW for future gain.
- £PLI/£SCI have been developed to breed cows suited to UK farming systems and milk contracts!



**NO TIME TO EXPLAIN**

**Thanks!**

**Any Questions?**

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**GET IN THE CAR!!!**