

# Genetic Value Audit

# For Acre Hill Farming Ltd, Bridge Farm Completed by Charisse Stewart 05/12/2024

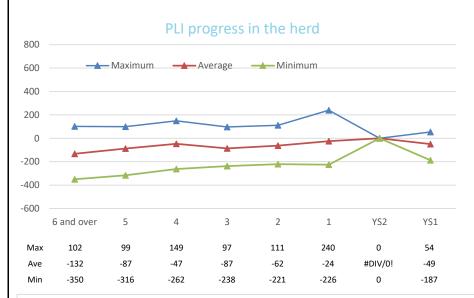


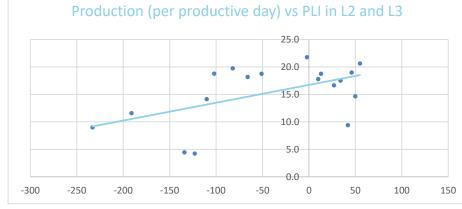
# **#PoweredByAHDB**



PLEASE NOTE: UK genomics testing can only be applied to pure breed animals (min 87.5%). Submission of samples not meeting these criteria will incur a charge as they will be tested but you will not receive any results

## Your herd genetic progress and relative value





How does £PLI progress look in your herd?

In your herd, £PLI has changed by an average of 12 points with each cohort of animals.

In your fourth calver cohort, the range in £PLI values from maximum to minimum was 411 points. In many herds that gap is growing with each generation, in your case the gap for heifers under 1 year old is 241 points.

Increasing £PLI range may indicate that you may be able to select from a tighter genetic pool. Many herds breed from all maiden heifers but normally there are better options in the milking herd than breeding from a second string heifer

Genomic testing can assist with this by allowing you to identify those heifers which will be best bred to beef. It is identifying optimal breeding groups that allows farm to capitalise on the real value in their herds and produce better, more profitable future milkers. In addition, trait analysis and recessive testing allow you to breed the exact type of animals you need for your future herd

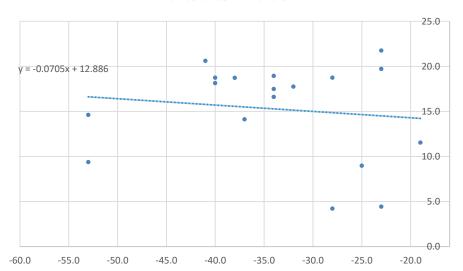
£PLI is a broad index so higher PLI animals should be more productive with additional improvements in health, longevity and fertility. In terms of production, you get 2.03 kilos increased average daily milk sales per £100 extra PLI. Based upon an average 305 day lactation, that equates to 618kg lactation

Genetic Performance Headlines- How does production and cow size map in your second and third calvers?

Chart showing average production per active day in the herd vs maintenance in L2 and 3

### Maintenance versus productivity review

Do smaller cows produce less in your herd? It is a question many people ask, smaller cows will definitely eat less and produce less environamental impact if they are equally as productive. This analysis shows how increasing size is correlated to yield per productive day in your second and third calvers. If the trendline is tending downwards left to right, your smaller cows are more productive, if it is sloping upwards left to right then bigger cows are producing more. It should be noted bigger cows need to produce more to cover their addtional feed In your herd, for each 10 point increase in maintenance (size) you get a change of -0.71kg daily production





#### Genomic testing and your herd

The quickest way to substantially increase genetic potential and achieve the best value from your rearing investment is simply to avoid generating poor potential animals. This can only be achieved if you can **reliably identify your best animals irrespective of age**. With most of your best genetic potential in the youngest animals, genomic testing allows you to identify the talent and breed the best possible heifer cohort.

#### How do the numbers look for your herd?

Currently you have 111 heifers under 1 year old and 487 cows in the senior milking herd. This is equivalent to 22.8% replacements. Is this the number of heifers you require? With the increased use of sexed semen, many farms rear more heifers than required but these come at a cost. Each extra heifer equates to one less beef calf to sell and will cost app £1700 to rear. Breeding extra heifers will also mean that your breeding selection group is increased in the herd, the effect of this is to lower the average genetic potential of the group you select to breed from and, so, the average potential of the resulting heifer crop

Genetic performance summary within your herd (second, third and fourth calvers combined)

	Top 25% value	Top 25% performance	Bottom 25% performance	Bottom 25% value
Milk PTA (kg)	-338	6073	4917	-776
Combined fat and pro PTA (kg)	-17	423	364	-41
Fertility index vs calving interval	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
SCC index vs lactation SCC	3	40	46	5
PLI vs productive daily vield (kg)	£111	14.0	12.6	£-238

PTA Value	Performance		
difference	difference		
(Top 25% vs	(Top 25% vs		
bottom 25%)	bottom 25%)		
438	1156kg		
23	59kg		
#DIV/0!	#DIV/0!		
-2	-6 lower SCC in latest lact		
349	1.4kg / productive day of life		

Unlock your herds true potential through AHDB evaluations delivered by NMR milk recording and genomics testing services.



Your Genetic Value Audit is only made possible through recording with NMR



**#PoweredByAHDB** 



FOR MORE INFORMATION ON HERD IMPROVEMENT SERVICES FROM NATIONAL MILK
RECORDS OR HOW WE CAN HELP YOU IMPROVE YOUR HERD
PLEASE CALL US ON 03330 043 043 OR EMAIL GENOMICS@NMRP.COM