



# 2022 Sire Catalogue

There's always room for improvement



GM INTRO



Mark Ryder

The past year has given us all challenges to overcome in every aspect of both our business and personal lives. As I write, we're still facing an uncertain future in terms of work and social outlooks, with the Covid-19 pandemic far from over. It seems we will have to learn to live with this and operate within, for many years to come.

LIC continues to strengthen its partnerships with farmer customers. Over the years we have seen many developments that have helped to support our customers, improve the genetics of the dairy herd, boost returns and help to maximise the use of quality grass in the diet.

With the huge advances in genomic evaluation there has been an increasing use of genomic sires in New Zealand to the point that in 2020/21, 60% of LIC's New Zealand customers incorporated genomic bulls along with daughter proven bulls in their breeding plan. LIC Ireland will be giving our Irish customers the opportunity to follow the same approach.

The past 12 months have seen a massive increase in the use of sexed semen in the dairy herd as farmers gain confidence in this method to select the best heifers and cows in their herd to produce replacements and speed up genetic improvement. This demand from Ireland along with other European markets has led us to consider significant investment and changes to our collection policy.

Working closer with Sexing Technologies at LIC's Awahuri European Collection Centre in New Zealand will be a focus, with the aim of increasing supplies three-fold. The key to this will be the decision to extend from a six-week collection season (in January/February) to a more full-time processing model which would allow product to be built up throughout the year.

Our approach to sexing is that bulls are picked on their merits, allowing customers to improve herd profitability by breeding from the best available. As with any major changes to a business model, there are a lot of complexities involved, including juggling demand from NZ and European farmers as well as the logistics of moving and quarantining bulls.

There will always be supply challenges, but the new plan will enable us to keep our stock levels consistent and our aim is to only sex the best bulls we have available.

Investment into a purpose-built sexing lab at the Awahuri Centre is a priority. Our aim is to ensure we have a long-term optimal supply model for sexed semen to support our customers' needs here in Europe. Included in our sexed offering is The Forwards® bull team, born and bred here in Ireland. These bulls are from daughters of outstanding LIC bred Irish cows and our Premier Club bulls from NZ. This allows LIC to offer our farmers a substantial sexed team with The Forwards® bulls bringing in more diversity. Ordering early does help, but our aim is to build up supplies so stock is readily available.

It'll take a few months for those stocks to be built up, but our new collection process will soon offer us a better long-term solution.

We at LIC, remain very proud that our advice and approach over the past 12 years is now delivering so much value to those that have followed us, and it is extremely heartening to see that the industry is now also echoing our story based on clear evidence.

Having launched our HoofPrint® index, farmers are now provided with accurate insights on bulls born since

January 1, 2009. These bulls have the potential to breed progeny for dairy herds with a lighter environmental footprint. It identifies cows that produce less methane and nitrogen per kg of milk solids. We now also offer the BeefPrint® index, identifying beef sires that will produce the best possible surplus calf from the dairy cow. Taking a holistic view of the environmental impact, this index looks further than just economics and supports our view of solving one issue at the risk of creating another.

At the same time, new trials on methane emissions in New Zealand are under way, providing an opportunity for us to breed more climate friendly cows. This is now one step closer for New Zealand dairy farmers, after a Waikato trial has found a possible link between a bulls' genetics and the amount of methane they produce.

The pilot trial, by artificial breeding companies LIC and CRV, with funding from the New Zealand Agricultural Greenhouse Gas Research Centre, measured feed intake and methane emissions - in the form of burps - from 20 young bulls destined to father the next generation of New Zealand's dairy cows.

The research will progress to a much larger study where operations have scaled up to collect measurements from 300 young bulls, the full intake from LIC and CRV's separate Sire Proving Schemes.

If this genetic link is confirmed, farmers will ultimately be able to breed low methane-emitting cows from low methane-emitting bulls.

All this points to an exciting future and, while none of us know what the 'new normal' will look like in the long term, rest assured that LIC remains committed to working alongside you to help and secure your business and run an efficient and cost-effective operation.

Mark Ryder  
General Manager

LIC Europe

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MORE THAN A CLUB

LIC started the Premier Club so you can access top LIC bulls that have never before been available to Irish farmers. It is about our desire to go the extra mile to support Irish farmers, while protecting the future of LIC's breeding programme. This means we can continue to improve and deliver elite genetics year on year.

As a member you get exclusive access to top LIC genetics and the opportunity to submit your bull calves for LIC's Irish bull breeding programme.

Talk to your LIC breeding advisor about joining the Premier Club.

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UNDERSTANDING NEW ZEALAND BULL DATA

Across all Breed Evaluation

The bull data in this catalogue is displayed across all breeds; this is in line with how New Zealand Animal Evaluation Limited (NZAEL) and LIC rank New Zealand dairy animals.

Because many LIC customers here in Ireland and around the world select genetics from multiple breeds for optimal herd performance, it is important for farmers to understand how an animal should perform within the whole herd, not just within one breed of the herd.

LIC believe that an across all breed evaluation is the best tool to help you make breeding choices geared toward making your herd the most profitable it can be.

Traits Other than Production

Assessing the Animal

Traits Other than Production (TOP) refer to the behaviour, temperament and physical attributes of a cow and are scored separately on a scale from one to nine. The four farmer-scored and 14 inspector-scored TOP traits are considered most important in relation to the overall requirements of dairy farmers. TOP records from two year-old animals are used for sire evaluations.



Data Processing

The raw data is then sent through to the New Zealand Animal Evaluation unit where within herd, region and national comparisons are analysed and processed. This information is then fed into the national data base as breeding values for sires.

The average raw TOP scores of the 2005 base cow are as follows:

FARMER SCORED MANAGEMENT TRAITS			
Sire Proving farmers score two-year-old heifers on the four farmer traits			
	Low Score	High Score	Base Cow Average
Adaptability to Milking - describes how soon the heifer settled into the milking routine after calving	slowly	quickly	6.12
Shed Temperament - describes the temperament of the heifer in the farm dairy while being handled and milked	nervous	placid	6.28
Milking Speed - describes the milking speed of the heifer	slow	fast	6.33
Overall Opinion - describes the farmer's overall acceptance of the heifer as a herd member	undesirable	desirable	6.57

INSPECTOR SCORED CONFORMATION TRAITS			
Stature - describes the height at the shoulders of the heifer in five centimetre bands	small	tall	5.75
Capacity - describes depth and width of chest and body in relation to the physical size of the heifer	frail	capacious	6.34
Rump Angle - describes the angle of a line between the centre of the hips and the top of the pins	high pins	sloping	4.79
Rump Width - describes the distance between the pins bones, relative to size of the animal	narrow	wide	6.17
Legs - describes the straightness or curvature of the back legs while the heifer is walking	straight	curved	6.18
Udder Support - describes the strength of the suspensory ligament, and the udder depth relative to the hocks	weak	strong	6.02
Front Udder - describes the attachment of the front udder to the body wall	loose	strong	5.70
Rear Udder - describes the height and width of the rear udder attachment	low	high	5.76
Front Teat Placement - describes the placement of the front teats relative to the centre of the quarters	wide	close	4.53
Rear Teat Placement - describes the placement of the rear teats relative to the centre of the quarters	wide	close	5.84
Teat Length - describes the length of the rear teats from the udder to the tip of the teat	short	long	-
Udder Overall - assesses the desirability of all traits pertaining to the udder	undesirable	desirable	5.71
Dairy Conformation - assesses the desirability of all traits pertaining to dairy conformation, but excluding udder traits	undesirable	desirable	6.45

Base Cow

The New Zealand Base Cow is the genetic reference point from which Breeding Worth (BW) and Breeding Values (BV) are measured for all New Zealand dairy cattle.

All of the bull information in this catalogue is recorded relative to the 2005 Base Cow - the average of 21,585 cows born in the year 2005 - whose production and TOP (traits other than production) data has been set to zero. Each cow has been TOP inspected and milk recorded at least four times to deliver an accurate result.

Base Cow Production

Production is reported on their 270-day lactation yields relative to 5T Dry Matter:

Fat kg	218	Volume (litres)	4595
Protein kg	174	Liveweight (kg)	500

HOW TO READ A SIRE PAGE

gBW/Rel

Using this bull at a gBW of 414 indicates that per 5T DM eaten, the offspring are expected to generate NZD 414 more net profit than those of a bull of gBW 0. The higher the reliability of gBW, the more data sits behind it and the less likely it is to change with additional data.

Milk

A bull milk gBV of 117 litres indicates that his daughters will on average produce 58.5 litres more than a bull of gBV 0 litres. The gBV is across breeds, so Jersey and Crossbred animals may show a negative gBV.

Somatic Cell Count

The lower the SCS BV the better, as you want to reduce the bulk milk somatic cell count. A SCS gBV difference of 0.5 between two sires equates to a difference in expected daughter cell count of 37,500 cells/ml.

Fertility

A bull gBV of 4.3% indicates that 2.15% more daughters are expected to calve in the first 42 days of a herds calving period, compared to a bull of gBV 0%. As an industry New Zealand has a tighter calving pattern and shorter calving interval than dairy industries worldwide, with a calving interval of 369 days and average 6-week calving pattern of 83%. Highly fertile cows have been necessary to achieve this. It is generally accepted that the New Zealand genetic base cow is far more fertile than many other countries' genetic base.

Stature

This gBV compares animal stature across breeds based on a genetic reference population with a gBV of 0. Stature for Jerseys is usually negative and for Holsteins is usually positive.



Daughter of INFERNO

JE6805 WALTON  
INFERNO

EBI/REL  
214/61%

IRELAND VALUES			
Milk Prod SI	92	Survival	3.21
Fertility SI	72	Cow Calving Difficulty	1.50
Calving SI	43	Heifer Calving Difficulty	4.20
Beef SI	-52	Somatic Cell Count	-0.09
Health SI	6	Milk kg	-177
Maintenance SI	40	Fat kg/%	12/0.34
Management SI	12	Protein kg/%	9/0.27
Calving Interval (days)	-2.54	Pedigree Status	XSR

NEW ZEALAND DETAILS

119 NZ Daughters

HoofPrint®

10

10

Nitrogen Efficiency

Methane Efficiency

Milk

117

Milkfat

38/5.4

Protein

31/4.3

Somatic Cell Count

-0.60

Cow Calving Diff

-0.8/98

Heifer Calving Diff

-1.4/99

Gestation Length

-8.3

Body Condition

0.10

Functional Survival

2.6

Fertility

4.3

Liveweight

-2

Breeding Details

Split

F9J7

Sire

PRIESTS SOLARIS-ET

MGS

HOWIES CHECKPOINT

MGGS

WOODCOTE TF MAXIMISER

NZ Evaluation Data					107 Daughters TOP Inspected
Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.48				
Shed Temperament	0.50				
Milking Speed	0.12				
Overall Opinion	0.44				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.03				
Capacity	0.28				
Rump Angle	-0.14				
Rump Width	-0.26				
Legs	-0.06				
Udder Support	0.33				
Front Udder	0.35				
Rear Udder	0.04				
Front Teat Placement	0.52				
Rear Teat Placement	0.72				
Teat Length	-0.32				
Udder Overall	0.38				
Dairy Conformation	0.37				

LIC Initiatives		
High Input	Once-A-Day	A2 Protein
1337	1325	A2/A2

HoofPrint®

New environmental measure. More info on pg 8.



Protein and Milkfat

A bull gBV of 38 kg indicates that the bull will produce daughters which on average, are genetically superior by 19 kg per 5T dry matter consumed, compared to a bull of gBV 0kg.

Calving Difficulty

Heifer & Cow CD BVs estimate the expected percentage of assisted calvings when a bull is mated to yearling heifers and cows respectively, compared to a bull of gBV 0. A bull of BV -1.4 can expect to have 0.7% less assisted calvings than a bull of 0.

Functional Survival

A BV that predicts the average probability of survival from one lactation to the next, compared to a gBV 0. It is reported as a percentage. The progeny of a bull of gBV 2.6 should have 1.3% more daughters survive to the next lactation than a bull of BV 0. The average number of lactations/cow in New Zealand is 5.5.

Liveweight

A gBV of -2 kg indicates the sire's daughters are expected to have a mature liveweight -1 kg lighter than those of a bull of gBV 0kg. As expected in an across-breed evaluation, Holstein Friesians have a higher (positive) gBV and Jerseys a lower (negative) gBV.

Shed Temperament

A gBV of 0.00 indicates that the bull will produce daughters which on average, are genetically the same as the genetic base cow. (For example, by using a bull with a shed temperament of 0.50 the raw score for his daughters on average is expected to be 6.28 + 0.25 = 6.53 from a linear score of 9).

gBW/gBV are calculated by LIC.



# The Forwards® sire team now available in Ireland

LIC are teaming up with Irish farmers to produce bulls from leading LIC bred herds through LIC's genomic selection breeding programme in Ireland.

The Forwards® sire team complement our flagship delivery of high quality daughter-proven New Zealand LIC genetics to European farmers with an LIC genomic bull offering from Ireland.

The young bulls undergo genomic evaluation using LIC's long-standing expertise in both purebred and crossbred animal evaluation, in addition to evaluation on EBI.

Uniquely, these bulls have both gBW and gEBI figures, with the very best picked for The Forwards® team.



Dam of LIC Moorehill Max FR6892



Dam of LIC Kilvoige Stephen FR6823

## The Forwards®

Our breeding experts have examined the candidates' pedigree, physical attributes and cow family information to increase the accuracy of delivering genetics to further improve the genetic merit of your herd.

We use both EBI genomic evaluation and LIC's own powerful genomic evaluation tool, the Single Step Animal Model (SSAM), to provide a more reliable estimate of a bull's genetic quality at a young age than from ancestry alone. With both gBW and gEBI to look at, The Forwards® sire team bring you a unique opportunity to fast track genetic gain in your herd.

LIC Ireland proudly presents our European grown team of young sires, The Forwards®.

SEE PAGE 48 FOR MORE INFORMATION.

# BREEDING WORTH EXPLAINED

## National Breeding Objective

The New Zealand dairy industry has set a National Breeding Objective, namely 'to breed dairy cows that are able to efficiently convert feed into profit'.

- The index is called Breeding Worth (**BW**) and the unit of measurement is \$
- It uses genetic merit estimates (**BV**) and updated economic values (**EV**)
- It is a balanced index combining 4 production traits and 4 robustness traits
- In April 2022, Udder Overall will be added as an additional trait

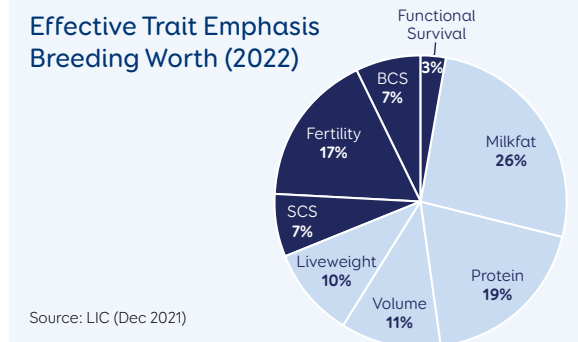
BW ranks bulls and cows according to the profit their offspring are expected to generate relative to a genetic reference point, the 'Base Cow' (see page 4), which is set at zero.

BW is calculated by summing the contribution to profit across eight economically important traits, (nine from April 2022). For each contributing trait the breeding value is multiplied by the economic value of that trait.

## Breeding Worth traits

The eight traits and their weightings included in Breeding Worth in December 2021 are as follows. Weightings will change when the ninth trait is added in April 2022.

### Effective Trait Emphasis Breeding Worth (2022)



Milkfat, Protein, Milk Volume and Liveweight are categorised as **Production Efficiency** traits. Fat, protein and volume estimate production while liveweight accounts for the efficiency of feed partitioning between body maintenance and production. Production efficiency traits are moderately heritable, and important when measuring cow productivity.

Fertility, Somatic Cell Score (SCS), Functional Survival, Udder Overall and Body Condition Score (BCS) are referred to as **Robustness** traits. The majority of these traits have moderate to low heritability, but are important for cow health and survival in the herd.

The 10-year average rate of genetic gain in NZ is equivalent to BW \$10 per year. Animal efficiency is increasing, as evidenced by the national rise in average per cow production while average liveweight has remained relatively static. Researchers estimate that about 40% of the production efficiency gain is due to genetic improvement.

$$\text{Breeding Worth (BW)} = \text{Breeding Value (BV)} \times \text{Economic Value (EV)}$$

**Breeding Values (BV)** are an estimate of a cow or bull's genetic merit for a trait. BVs are updated at least monthly as performance information of the animal and its relatives flows in.

**Economic Values (EV)** are an estimate of the value of a trait to a dairy farmer. EVs are calculated using economic models accounting for revenue and costs on-farm. They are usually updated annually. Milk prices fluctuate but breeding is a long game so, to create long-term stability, a 5-year rolling average milk price is used, (3 years historic, 1 year current and 1 year forecast). Industry information on the value of stock sales and the cost of rearing replacements, feed and other farm expenses is also included.

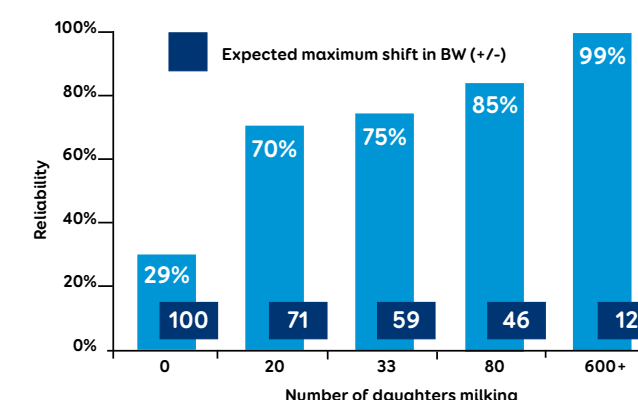
The resulting profit index is reported in relation to the animal, with half its value passed on to offspring. (For example, the offspring of a bull with a BW \$200 and a cow of BW \$100 are expected to make, on average, \$150 more profit per annum than the Base Cow makes.)

**EVs** determine the relative weighting of each trait within the index - as EVs are updated each year, trait weightings in the index will adjust slightly.

## Breeding Worth reliability

An important indication of the accuracy of a BW prediction is the **Reliability** figure. Reliability reflects the degree of certainty that a BW estimation will remain relatively stable if more data is added. The higher the reliability, the more certain we can be that the BW estimation reflects the animal's true genetic merit. Reliability is reported on a scale of 0 to 99%. It increases with the amount of information.

Information sources and BW estimation reliabilities - no information (0%), ancestry information (25-35%), genomic information (40-60%) and daughter proof information (70-99%). Proven bulls generally have higher reliability figures than cows, simply because they have many more daughters milking.



Dairy NZ 2021, <<https://www.dairynz.co.nz/animal/animal-evaluation/interpreting-the-info/all-about-bw/>>

## WHAT IS HOOFPRI<sup>®</sup>?

LIC has developed the HoofPrint® index to give you, the farmer, an indication of the predicted environmental footprint of the various genetic products.

Enteric methane emissions and urinary nitrogen excretion from dairy cows are two of the major contributors to the environmental impact of dairy production in New Zealand. It is extremely difficult and expensive to measure and assess actual emissions and excretion from dairy cows in a pasture based system. Therefore, a modelling methodology has been used to quantify the expected emissions and excretion.

## How does the model work?

The modelling uses six individual Breeding Values for each animal. These BVs are used to calculate the expected levels of production, calving events, and removal. These BVs are:

1. Liveweight
2. Milk Volume
3. Milkfat
4. Protein
5. Fertility
6. Functional Survival

Calculations for energy requirements, partitioning and emissions were based on the 'Methodology for calculation of New Zealand's agricultural greenhouse gas emissions'.

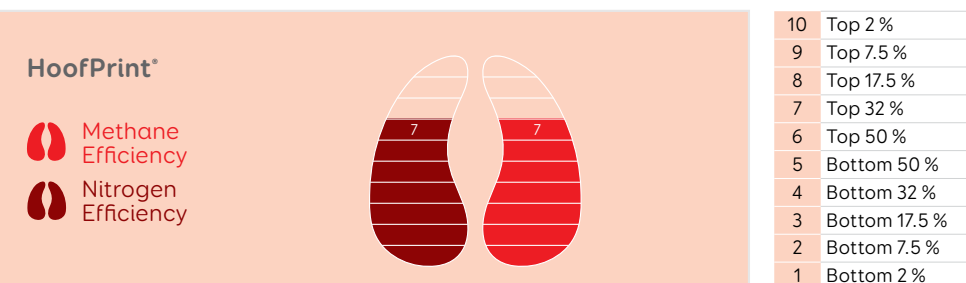
An understanding of an animal's energy requirements was used to estimate dry matter intake from which emissions and excretion are calculated. In the inventory, energy requirements refers to the amount of energy that is needed for an animal to survive (maintenance) and produce animal products such as milk, meat, and conceptus (pregnancy). The inventory model currently assumes that dairy cattle consume only pasture to satisfy their energy requirements, and no supplementary feed is used.

Reference Base population:

The HoofPrint® ranking system has only been applied to dairy breeding bulls and therefore the base population too is only made up of dairy bulls. To ensure the values reflect the current genetic merit of the breeding animals available we have chosen to use a reference population of breeding bulls registered with NZAEL for AB service, born since 1 January 2009, excluding any beef and short gestation length dairy bulls. For 2020 this has created a reference population of 4415 bulls which are then rated based on their emission and excretion values per kilogram of milk solid.

### Ranking system:

The ranking system is from 1 to 10 with 1 being the lowest ranking (highest environmental impact per kg product) and 10 being the highest (lowest environmental impact per kg product). To ensure only the very best bulls are able to achieve a 10 point rating only 2% of bulls in this elite reference population can be awarded a 10 point rating at any point in time. The distribution of ratings for the bulls in the elite reference population can be seen below. The distribution is symmetrical so 50% of the bulls will be ranked 6-10 points and 50% 1-5 points.



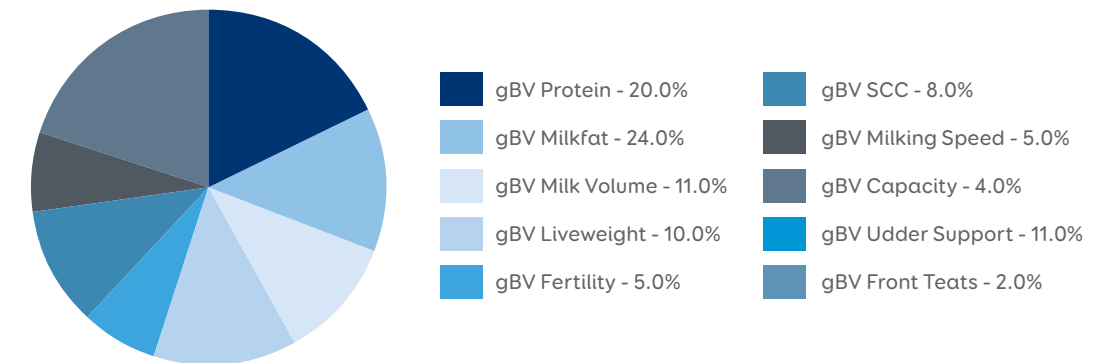
In the example, this bull ranked 7 for both Methane Efficiency and Nitrogen Efficiency. It is in the top 32% of bulls born since January 1st 2009.

## ONCE-A-DAY

LIC's Once-A-Day (OAD) index has been developed to help OAD farmers breed cows that persist throughout lactation and have longevity in the herd.

The index has a strong correlation to Breeding Worth (BW) as well as four functional traits that are required in a desirable OAD cow: Capacity, Udder Support, Front Teat Placement and Milking Speed.

The graph shows the weighting of the traits within the OAD Index, in addition to the existing eight traits of BW. Unlike BW & PW, the OAD index does not represent an economic value of the animal's productive performance or ability to breed profitable replacements.



## Once-A-Day Team

NZ Bull Code	IRE AI Code	Bull Name	OAD	gBW/Rel	Protein kg	Fat kg	Milk Volume (litres)	Fertility %	Somatic Cell Count	Capacity	Milking Speed	Udder Overall	Page
Holstein Friesian													
119014	FR7155	BUELIN BM EQUATOR S2F	1276	344/63	30	51	616	6.8	0.13	0.46	0.23	0.52	22
117057	FR6736	MAIREGLGRADUATE-ET	1259	281/85	36	34	364	-0.6	0.28	-0.01	0.03	0.72	23
115021	FR5920	GORDONS AM LANCELOT S3F	1247	290/98	37	35	526	-0.8	0.06	0.57	0.11	0.30	19
118071	FR7974	GLENMEAD SB TRAPEZE S1F *	1243	296/79	27	28	313	5.4	0.02	0.55	0.12	0.57	20
118068	FR5941	BAGWORTH GIORIGINALS3F *	1240	325/81	38	43	546	5.7	-0.12	0.25	0.10	0.33	18
116118	FR5929	LIGHTBURN B MALBEC-ET S3F	1234	256/89	34	30	483	1.2	-0.18	0.75	-0.29	1.18	22
118023	FR7977	TRONNOCO INCA SHAKIR S3F *	1216	266/82	29	42	441	0.9	0.59	0.33	0.18	0.38	19
116124	FR5923	SPRING TRALEE BEAT-ET S1F	1209	270/97	33	30	597	-3.1	0.29	0.33	0.57	-0.08	14
Jersey													
318009	TBC	TIRONUI SUPERMAN ET *	1378	449/83	20	54	-161	0.0	-0.10	0.49	0.06	0.68	29
318015	TBC	GLENUI SUPER LAMAR *	1354	438/83	8	47	-153	6.1	-0.62	0.39	0.11	0.83	30
318021	TBC	GLANTON DESI BANFF *	1325	462/83	9	44	-733	5.2	-0.35	0.59	0.11	0.26	28
316039	JE6238	ULMARRA TT GALLIVANT *	1300	403/90	13	44	-315	6.7	0.03	0.62	0.06	0.62	28
317060	JE6727	PASPALUM OI LIMELIGHT *	1280	318/84	5	23	-521	2.5	-0.16	0.31	0.15	0.96	31
315009	JE5061	RIVERVIEW AND DEXTER S2J *	1272	335/90	17	26	-119	4.7	-0.23	0.63	0.29	0.68	32
315045	JE4989	GLENUI DEGREE HOSS ET *	1265	348/93	6	27	-504	3.3	-0.45	0.25	0.18	0.66	29
314052	JE4516	CRESCENT EXCELL MISTY ET	1264	358/94	3	33	-898	0.0	-0.43	1.26	0.23	0.37	32
KiwiCross®													
518038	TBC	WERDERS PREMONITION *	1380	441/82	25	59	29	-1.5	-0.40	0.62	0.32	0.71	43
517055	FR6733	TARAMONT SPRINGTIDE	1340	300/87	42	46	799	-3.7	0.38	0.91	0.27	1.05	34
520048	TBC	BALDRICKS TOUCHDOWN	1330	409/60	24	42	-154	-0.3	-0.22	0.62	0.06	0.57	45
516066	JE6805	WALTON INFERNO	1325	414/90	30	38	117	4.3	-0.60	0.28	0.12	0.38	41
517043	FR6799	GLEN KORU PROCLAIMER-ET	1310	378/91	33	51	300	-5.2	0.15	0.54	0.01	0.20	39
517060	FR6748	KEGZYS REMARKABLE	1305	332/86	31	44	276	-1.6	-0.10	0.46	0.07	0.64	40
520085	TBC	SNOWLINE BENJI *	1300	422/62	26	53	40	3.6	-0.09	0.38	-0.01	0.21	46
516074	FR5989	CROSSANS CRITICAL-ET	1292	313/96	39	36	904	-3.6	-0.34	0.72	0.13	0.54	40
515062	JE5893	DUGGANS GAMEPLAN *	1292	370/91	11	36	-553	3.5	0.02	0.23	0.23	0.62	34
518063	TBC	VAN STRAALENS SAFARI *	1288	317/80	32	32	494	-1.1	-0.25	0.71	0.11	0.76	38
520033	TBC	DOWSON HONENUI-ET *	1288	330/56	20	35	-412	4.2	0.26	0.55	0.07	1.02	45

\* Sexed semen is offered for Single AI use only. See page 12 for more information.

10/12/2021



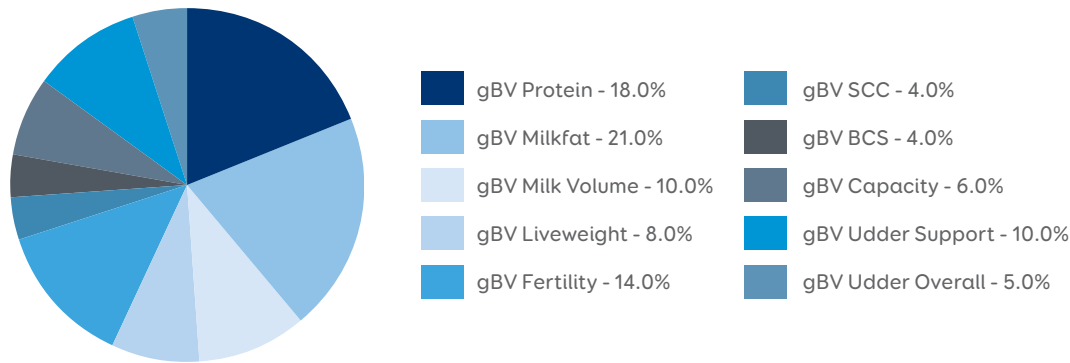


HIGH INPUT

LIC's High Input Index focuses on a range of traits as well as Breeding Worth (BW) to identify animals that are best suited to High Input systems. Those traits include Capacity, Udder Support, Udder Overall and Protein.

The graph shows the weighting of the traits within the High Input Index, in addition to the existing eight traits of BW.

The High Input index allows two animals to be compared based on their suitability to the system. Unlike BW & PW, it does not represent an economic value of the animal's productive performance or ability to breed profitable replacements.



High Input Team

NZ Bull Code	IRE AI Code	Bull Name	High Input	gBW/Rel	Protein kg	Fat kg	Milk Volume (litres)	Fertility %	Somatic Cell Count	Liveweight	Capacity	Udder Overall	Page
Holstein Friesian													
119014	FR7155	BUELIN BM EQUATOR S2F	1325	344/63	30	51	616	6.8	0.13	55	0.46	0.52	22
116118	FR5929	LIGHTBURN B MALBEC-ET S3F	1296	256/89	34	30	483	1.2	-0.18	62	0.75	1.18	22
118071	FR7974	GLENMEAD SB TRAPEZE S1F *	1285	296/79	27	28	313	5.4	0.02	16	0.55	0.57	20
118068	FR5941	BAGWORTH GI ORIGINAL S3F *	1285	325/81	38	43	546	5.7	-0.12	84	0.25	0.33	18
117057	FR6736	MAIRE GL GRADUATE-ET	1276	281/85	36	34	364	-0.6	0.28	31	-0.01	0.72	23
115021	FR5920	GORDONS AM LANCELOT S3F	1266	290/98	37	35	526	-0.8	0.06	38	0.57	0.30	19
118023	FR7977	TRONNOCO INCA SHAKIR S3F *	1246	266/82	29	42	441	0.9	0.59	44	0.33	0.38	19
Jersey													
318009	TBC	TIRONUI SUPERMAN ET*	1384	449/83	20	54	-161	0.0	-0.10	-39	0.49	0.68	29
318015	TBC	GLENUI SUPER LAMAR *	1377	438/83	8	47	-153	6.1	-0.62	-45	0.39	0.83	30
318021	TBC	GLANTON DESI BANFF *	1351	462/83	9	44	-733	5.2	-0.35	-38	0.59	0.26	28
316039	JE6238	ULMARRATT GALLIVANT *	1347	403/90	13	44	-315	6.7	0.03	-14	0.62	0.62	28
315009	JE5061	RIVERVIEW AND DEXTER S2J *	1302	335/90	17	26	-119	4.7	-0.23	-23	0.63	0.68	32
317060	JE6727	PASPALUM OI LIMELIGHT *	1298	318/84	5	23	-521	2.5	-0.16	-66	0.31	0.96	31
314052	JE4516	CRESCENT EXCELL MISTY ET	1296	358/94	3	33	-898	0.0	-0.43	-8	1.26	0.37	32
KiwiCross®													
518038	TBC	WERDERS PREMONITION *	1380	441/82	25	59	29	-1.5	-0.40	13	0.62	0.71	43
517055	FR6733	TARAMONT SPRINGTIDE	1357	300/87	42	46	799	-3.7	0.38	33	0.91	1.05	34
520048	TBC	BALDRICKS TOUCHDOWN	1349	409/60	24	42	-154	-0.3	-0.22	-13	0.62	0.57	45
	FR6892	LIC MOOREHILL MAX *	1344	391/59	32	47	547	5.1	-0.10	38	0.60	0.57	50
520033	TBC	DOWSON HONENUI-ET *	1339	330/56	20	35	-412	4.2	0.26	20	0.55	1.02	45
516066	JE6805	WALTON INFERNO	1337	414/90	30	38	117	4.3	-0.60	-2	0.28	0.38	41
520085	TBC	SNOWLINE BENJI *	1332	422/62	26	53	40	3.6	-0.09	28	0.38	0.21	46
520007	TBC	JULIAN STRAIGHT UP	1332	379/61	7	44	-508	3.1	-0.10	4	1.26	0.49	46
518061	TBC	INNOVATION HOMEBREW *	1325	372/80	25	41	-81	1.5	0.40	21	0.64	0.60	34
518017	TBC	HORIZON BARNSTORMER-ET	1323	363/82	30	46	379	6.7	-0.25	42	0.91	0.14	34
517060	FR6748	KEGZYS REMARKABLE	1315	332/86	31	44	276	-1.6	-0.10	24	0.46	0.64	40

\* Sexed semen is offered for Single AI use only. See page 12 for more information.



SHORT GESTATION LENGTH

With a team of bulls selectively bred to shorten gestation length, the SGL product can help you to shorten your calving, increase days in milk, and give your cows longer to recover improving their chances of getting back in calf.

There is a range of SGL products available, one of them includes short gestation Hereford from leading breeders Shrimpton's Hill Herefords. These beef bulls breed white-faced offspring that you can easily identify in the herd. The graphics below display the bulls available along with key BV traits. More information about the breeders can be found on page 53.



SGL Hereford

LIC and leading Hereford breeders, Shrimpton's Hill Herefords, have developed Hereford bulls with a gestation length up to 9 days shorter than their breed average. These beef bulls breed white-faced offspring that you can easily identify in the herd.

SGL Aberdeen Angus

Angus cattle are a black beef breed that can be traced in Scottish history as far back as the 16th century. They are known for finely marbled meat, where the fat is dispersed evenly against the actual cut of meat. The marbling trait of Angus typically creates a tenderer, juicy flavourful meat compared to some other beef breeds. This year's bulls have an average short gestation length of -7.4 days.

SGL plus BW

SGL plus BW combines genetics for a shorter gestation with sound genetic merit so farmers can keep heifer calves as replacements. These SGL sires have been tested to ensure their traits are passed on to their offspring, with the purpose of improving the overall efficiency of your herd.

Available Bulls

NZ Bull Code	IRE AI Code	Bull Name	Gestation Length	gBW/Rel	Protein kg	Fat kg	Milk Volume (litres)	Fertility %	Cow Calving Difficulty	Somatic Cell Count	Capacity	Udder Overall	Page
Holstein Friesian													
119014	FR7155	BUELIN BM EQUATOR S2F	-7.7	344/63	30	51	616	6.8	1.0/92	0.13	0.46	0.52	22
116036	FR6730	ARKAN MGH BACKDROP-ET S2F*	-6.7	253/97	24	22	118	5.4	0.0/97	0.07	0.36	0.25	20
118071	FR7974	GLENMEAD SB TRAPEZE S1F *	-5.7	296/79	27	28	313	5.4	0.3/94	0.02	0.55	0.57	20
115048	FR4977	ZINKS GFB BACHELOR-ET S1F	-5.3	216/90	30	27	697	4.6	-0.6/71	-0.11	0.61	0.28	14
117035	FR6742	BELLAMYS MH GAMBIT-ET S2F *	-3.9	246/91	34	31	813	2.4	2.1/92	0.05	0.18	0.51	21
118068	FR5941	BAGWORTH GI ORIGINAL S3F *	-3.5	325/81	38	43	546	5.7	0.4/93	-0.12	0.25	0.33	18
116124	FR5923	SPRING TRALEE BEAT-ET S1F	-3.5	270/97	33	30	597	-3.1	0.4/79	0.29	0.33	-0.08	14
Jersey													
318021	TBC	GLANTON DESI BANFF *	-7.7	462/83	9	44	-733	5.2	-1.0/95	-0.35	0.59	0.26	28
317034	JE6721	HEUVEN SUPER WISEGUY *	-6.3	348/89	16	31	-358	4.1	-0.7/84	0.18	0.32	0.06	31
314012	JE4259	KAITAKA OI LEOPARD ET	-4.2	284/97	-1	23	-694	2.0	-0.6/97	-0.20	-0.15	0.62	24
KiwiCross®													
517055	FR6733	TARAMONT SPRINGTIDE	-10.3	300/87	42	46	799	-3.7	-0.3/91	0.38	0.91	1.05	34
513074	FR4527	SCHRADERS TUSK	-9.9	197/98	13	14	224	4.7	-1.0/96	-0.18	-0.08	0.14	34
518017	TBC	HORIZON BARNSTORMER-ET	-9.4	363/82	30	46	379	6.7	1.2/91	-0.25	0.91	0.14	34
516066	JE6805	WALTON INFERNO	-8.3	414/90	30	38	117	4.3	-0.8/98	-0.60	0.28	0.38	41
516074	FR5989	CROSSANS CRITICAL-ET	-7.7	313/96	39	36	904	-3.6	-0.2/97	-0.34	0.72	0.54	40
518019	TBC	DIGGS HARDCOPY *	-7.5	387/80	17	35	-157	7.9	-0.7/68	-0.65	0.39	0.20	39
518038	TBC	WERDERS PREMONITION *	-7.4	441/82	25	59	29	-1.5	-0.2/91	-0.40	0.62	0.71	43
518061	TBC	INNOVATION HOMEBREW *	-7.1	372/80	25	41	-81	1.5	-0.1/94	0.40	0.64	0.60	34
515062	JE5893	DUGGANS GAMEPLAN *	-6.6	370/91	11	36	-553	3.5	-0.8/92	0.02	0.23	0.62	34
511011	ZSP	PRIESTS SIERRA *	-6.5	330/99	27	42	316	5.2	0.2/99	-0.15	0.51	0.48	38

\* Sexed semen is offered for Single AI use only. See page 12 for more information.



SEXED BULLS

NZ Bull Code	IRE AI Code	Bull Name	gBW/Rel	Milk Volume (litres)	Fat Kg	Protein Kg	Fat%	Protein %	Somatic Cell Count	Fertility %	Functional Survival	Heifer CD/Rel	Cow CD/Rel	Liveweight
Holstein Friesian														
118068	FR5941	BAGWORTH GI ORIGINAL S3F	325/81	546	43	38	5.1	4.1	-0.12	5.7	4.2	2.1/36	0.4/93	84
118071	FR7974	GLENMEAD SB TRAPEZE S1F	296/79	313	28	27	5.0	4.1	0.02	5.4	4.2	-1.0/73	0.3/94	16
118023	FR7977	TRONNOCO INCA SHAKIR S3F	266/82	441	42	29	5.2	4.0	0.59	0.9	3.7	4.1/39	1.0/86	44
116036	FR6730	ARKAN MGH BACKDROP-ET S2F	253/97	118	22	24	5.1	4.2	0.07	5.4	4.0	0.0/95	0.0/97	60
117035	FR6742	BELLAMYS MH GAMBIT-ET S2F	246/91	813	31	34	4.6	3.8	0.05	2.4	5.7	1.6/67	2.1/92	60
Jersey														
318021	TBC	GLANTON DESI BANFF	462/83	-733	44	9	6.8	4.7	-0.35	5.2	3.5	-2.6/96	-1.0/95	-38
318009	TBC	TIRONUI SUPERMAN ET	449/83	-161	54	20	6.1	4.4	-0.10	0.0	1.7	-1.5/95	0.1/94	-39
318015	TBC	GLENUI SUPER LAMAR	438/83	-153	47	8	6.0	4.1	-0.62	6.1	3.1	-2.0/90	-0.8/89	-45
316039	JE6238	ULMARRA TT GALLIVANT	403/90	-315	44	13	6.1	4.4	0.03	6.7	2.5	-2.5/93	-0.9/94	-14
315045	JE4989	GLENUI DEGREE HOSS ET	348/93	-504	27	6	6.0	4.4	-0.45	3.3	3.4	-1.5/98	-1.0/98	-39
317034	JE6721	HEUVEN SUPER WISEGUY	348/89	-358	31	16	5.9	4.5	0.18	4.1	2.0	-2.7/63	-0.7/84	-37
315009	JE5061	RIVERVIEW AND DEXTER S2J	335/90	-119	26	17	5.5	4.3	-0.23	4.7	4.1	-1.1/97	-0.2/96	-23
317060	JE6727	PASPALUM OI LIMELIGHT	318/84	-521	23	5	5.9	4.4	-0.16	2.5	3.1	-2.7/46	-0.6/70	-66
KiwiCross®														
520085	TBC	SNOWLINE BENJI	422 / 62	40	53	26	5.8	4.3	-0.09	3.6	2.3	0.5 / 38	0.3 / 74	28
TBC	FR6892	LIC MOOREHILL MAX	391 / 59	547	47	32	5.2	4.0	-0.10	5.1	3.9	-0.4 / 31	-0.1 / 31	38
TBC	FR6823	LIC KILVOIGE STEPHEN	210 / 57	427	37	22	5.1	3.9	0.05	1.3	0.8	1.7 / 27	0.1 / 27	44
511011	ZSP	PRIESTS SIERRA	330 / 99	316	42	27	5.3	4.1	-0.15	5.2	3.4	2.4 / 99	0.2 / 99	36
518063	TBC	VAN STRAALENS SAFARI	317 / 80	494	32	32	4.9	4.0	-0.25	-1.1	2.5	0.4 / 79	-0.9 / 90	-5
518019	TBC	DIGGS HARDCOPY	387 / 80	-157	35	17	5.7	4.3	-0.65	7.9	1.7	-2.9 / 42	-0.7 / 68	-1
518061	TBC	INNOVATION HOMEBREW	372 / 80	-81	41	25	5.7	4.4	0.40	1.5	5.7	0.3 / 96	-0.1 / 94	21
517042	FR6793	LUCK-AT-LAST INSPIRED-ET	298 / 91	295	37	23	5.2	4.0	0.08	-3.4	2.4	0.1 / 98	-0.5 / 95	-16
517026	FR6790	HOWSES SPRINGFIELD	258 / 91	-526	26	10	6.0	4.5	-0.71	-2.4	2.0	-0.9 / 98	-0.8 / 96	10
TBC	JE6898	LIC MOOREHILL GALAXY	220 / 57	15	12	18	5.0	4.2	-0.04	8.6	2.8	-0.5 / 28	0 / 30	12
518038	TBC	WERDERS PREMONITION	441 / 82	29	59	25	6.0	4.3	-0.40	-1.5	4.2	-0.1 / 97	-0.2 / 91	13
TBC	JE6895	LIC BROOKLAWN MOONLIGHT ECLIPSE	287 / 58	2	22	23	5.2	4.3	-0.49	2.0	0.4	-0.7 / 31	-0.5 / 32	-13
TBC	JE7194	LIC NEWBAWN LILY	179 / 53	207	30	15	5.2	3.9	-0.28	-0.4	1.7	0.2 / 25	0.2 / 26	66
518072	TBC	DEANS PROFESSIONAL	354 / 80	235	41	21	5.4	4.0	0.04	3.6	4.2	-0.1 / 97	0.4 / 96	8
520033	TBC	DOWSON HONENUI-ET	330 / 56	-412	35	20	6.1	4.6	0.26	4.2	3.8	-2.8 / 75	-1.5 / 86	20
515017	JE6007	LYNBROOK KARTELL	282 / 88	-2	25	23	5.3	4.3	0.24	2.6	0.8	-0.8 / 99	-0.8 / 95	-19
TBC	JE6886	LIC KILVOIGE AARON	332 / 56	-150	41	12	5.8	4.2	0.22	3.6	3.2	-1.7 / 20	-0.5 / 24	2
515062	JE5893	DUGGANS GAMEPLAN	370 / 91	-553	36	11	6.3	4.6	0.02	3.5	1.0	-2.3 / 94	-0.8 / 92	-33

Sexed semen is offered for Single AI use only.  
HF and JE bulls ranked according to gBW. KX bulls ranked according to breed split (highest FR content through to lowest)

Capacity	Udder Support	Udder Overall	Dairy Conformation	OAD Index	High Input	EB/Rel%	Milk Prod SI	Fertility SI	Maintenance SI	Health SI	Milk Kg	Fat Kg	Protein Kg	Fat %	Protein %	Breed Split	A2/A2	Page
0.25	0.36	0.33	0.49	1240	1285	188 / 58	95	78	10	0	51	17	11	0.26	0.16	F16	A1/A2	18
0.55	0.55	0.57	0.36	1243	1285	232 / 50	88	93	35	4	-162	14	8	0.36	0.24	F16	A2/A2	20
0.33	0.45	0.38	0.43	1216	1246	196 / 61	109	54	17	3	60	20	12	0.31	0.18	F16	A2/A2	19
0.36	0.23	0.25	0.23	1155	1214	214 / 63	112	61	18	0	-44	17	12	0.32	0.24	F15J1	A1/A2	20
0.18	0.49	0.51	0.19	1177	1222	187 / 61	100	47	24	0	316	18	16	0.09	0.08	F16	A2/A2	21
0.59	0.05	0.26	0.53	1325	1351	301 / 58	110	127	46	9	-550	20	3	0.80	0.42	J16	A2/A2	28
0.49	0.56	0.68	0.53	1378	1384	298 / 59	145	106	35	3	-227	30	11	0.70	0.33	J16	A2/A2	29
0.39	0.68	0.83	0.42	1354	1377	269 / 58	108	111	39	3	-191	25	6	0.59	0.23	J16	A2/A2	30
0.62	0.34	0.62	0.59	1300	1347	228 / 66	122	67	54	5	-213	27	8	0.64	0.28	J16	A1/A2	28
0.25	0.49	0.66	0.33	1265	1287	243 / 70	103	90	56	12	-443	20	4	0.70	0.36	J16	A2/A2	29
0.32	0.04	0.06	0.34	1262	1271	220 / 61	129	49	44	-1	-180	22	12	0.52	0.32	J16	A2/A2	31
0.63	0.49	0.68	0.61	1272	1302	200 / 69	113	44	53	9	-130	19	11	0.42	0.27	J16	A2/A2	32
0.31	0.80	0.96	0.39	1280	1298	134 / 62	100	4	44	1	-304	21	5	0.60	0.28	J16	A1/A2	31
0.38	0.18	0.21	0.44	1300	1332	199 / 48	99	48	43	-2	-77	18	9	0.38	0.21	F12J4	A1/A2	46
0.60	0.65	0.57	0.64	1284	1344	277 / 54	97	127	24	3	-2	18	10	0.32	0.18	F12J4	A2/A2	50
0.30	0.28	0.15	0.32	1178	1196	231 / 60	104	82	26	1	-92	21	9	0.43	0.21	F12J4	A2/A2	51
0.51	0.53	0.48	0.61	1267	1305	173 / 95	103	43	17	-7	20	20	11	0.34	0.17	F11J5	A2/A2	38
0.71	0.64	0.76	0.67	1288	1305	206 / 55	94	50	53	13	6	14	11	0.24	0.19	F11J5	A2/A2	38
0.39	0.25	0.20	0.34	1272	1312	299 / 58	81	138	61	20	-357	14	3	0.52	0.29	F10J6	A2/A2	39
0.64	0.50	0.60	0.57	1281	1325	160 / 44	60	68	31	2	-395	9	1	0.46	0.27	F9J7	A2/A2	34
0.71	0.75	0.73	0.63	1281	1291	190 / 57	106	46	26	-9	20	19	12	0.32	0.19	F9J7	A2/A2	42
0.90	0.62	0.53	0.60	1248	1250	236 / 60	112	67	41	15	-117	20	10	0.43	0.25	F9J7	A2/A2	41
0.32	0.15	0.13	0.16	1144	1185	225 / 53	99	86	33	-2	-61	16	10	0.32	0.22	F9J5	A2/A2	51
0.62	0.65	0.71	0.69	1380	1380	200 / 56	108	44	49	5	-102	25	8	0.52	0.20	J8F8	A2/A2	43
0.30	0.12	0.15	0.03	1228	1235	245 / 54	107	81	50	10	29	16	13	0.25	0.21	F8J8	A2/A2	51
0.77	0.46	0.53	0.72	1144	1203	265 / 54	111	102	26	12	-53	25	9	0.48	0.19	F8J8	A2/A2	51
0.45	0.28	0.24	0.65	1255	1286	273 / 44	105	123	1	12	-58	21	10	0.41	0.20	J9F7	A2/A2	44
0.55	0.92	1.02	0.59	1288	1339	120 / 34	44	41	3	8	-273	9	0	0.35	0.18	J9F7	A2/A2	45
0.28	0.35	0.53	0.13	1240	1257	240 / 62	106	84	49	0	-144	15	11	0.36	0.28	J8F7	A1/A2	43
0.65	0.19	0.26	0.45	1240	1289	248 / 53	95	103	40	7	-324	19	5	0.58	0.29	J10F6	A1/A2	50
0.23	0.47	0.62	0.29	1292	1315	184 / 69	104	15	58	-2	-410	18	5	0.63	0.36	J12F4	A2/A2	34

CONSIDERATIONS FOR USING SEXED SEMEN

To get the very best out of sexed semen on your farm, we recommend using a planned approach. Some suggestions include:

- Mate heifers 10 days or more ahead of the main herd. You'll get early-born replacements and the returns can be mated again in the next round of AI
  - Avoid mix-ups by calving those in-calf to AI bulls separately to those in-calf to stock bulls
  - Be certain the cow is on full standing heat. If you're unsure, use a conventional straw
  - Use strict cow selection criteria for sexed semen matings. For example, young, high genetic merit, healthy, early-calved and cycling cows have better conception rates
- Mate selected cows ahead of the herd's mating start date, or move the mating start date of the herd forward a day or two if necessary
  - Ensure underlying herd fertility performance is at a high level before considering the use of sexed semen and that AI best-practice is followed
  - Have plenty of stock bulls on hand to cover returning cows. For example, two teams of one bull to 30 non-pregnant cows if using a two-year-old bull, plus spares
  - Follow STgenetics® handling and insemination instructions for SexedULTRA 4M® sexed semen which can be found at [lic.ie/products-services/sexed-semen](https://lic.ie/products-services/sexed-semen)

- Mate yearling heifers to sexed semen, as they have higher conception rates than in-milk cows. Choose bulls suitable for yearling mating and pregnancy scan early to identify those in-calf to AI bulls

Contact your local LIC Breeding Advisor for more information. They can work with you to estimate the potential impact of using sexed semen on your herd and create a variety of mating plan options to help achieve your goals.

Single A.I. Use Provision: The customer agrees that each straw of sorted semen purchased or otherwise acquired by LIC shall only be used by the customer for the single use artificial insemination of one female bovine with the intent to produce a single offspring, and not for in vitro fertilization or embryo transfer unless specifically approved on an individual customer basis by Inguran LLC. d/b/a Sexing Technologies® (Navasota, Texas, USA) in writing. STgenetics® and SexedULTRA 4M® are the trademarks of Inguran LLC.



SGL BEEF

UP TO -10.4 DAYS

HAVE YOU SEEN

LIC'S LATEST BEEF OFFERING?

CHECK OUT PAGE 53

HOLSTEIN FRIESIAN



NZ Bull Code	IRE AI Code	Bull Name	gBW/Rel	Fertility %	Milk Volume (litres)	Fat Kg	Protein Kg	Fat%	Protein %	Somatic Cell Count	Functional Survival	Heifer CD/Rel	Cow CD/Rel	Liveweight	Body Condition Score	Capacity
Holstein Friesian																
119014	FR7155	BUELIN BM EQUATOR S2F	344/63	6.8	616	51	30	5.2	3.9	0.13	3.2	5.2/55	1.0/92	55	0.10	0.46
118068	FR5941	BAGWORTH GI ORIGINAL S3F *	325/81	5.7	546	43	38	5.1	4.1	-0.12	4.2	2.1/36	0.4/93	84	0.15	0.25
118071	FR7974	GLENMEAD SB TRAPEZE S1F *	296/79	5.4	313	28	27	5.0	4.1	0.02	4.2	-1.0/73	0.3/94	16	0.12	0.55
115021	FR5920	GORDONS AM LANCELOT S3F	290/98	-0.8	526	35	37	4.9	4.1	0.06	4.2	4.6/80	0.9/99	38	0.14	0.57
117057	FR6736	MAIRE GL GRADUATE-ET	281/85	-0.6	364	34	36	5.1	4.2	0.28	3.6	5.1/35	1.2/90	31	0.00	-0.01
116124	FR5923	SPRING TRALEE BEAT-ET S1F	270/97	-3.1	597	30	33	4.8	4.0	0.29	3.9	1.3/68	0.4/79	6	0.27	0.33
118023	FR7977	TRONNOCO INCA SHAKIR S3F *	266/82	0.9	441	42	29	5.2	4.0	0.59	3.7	4.1/39	1.0/86	44	0.09	0.33
115023	FR5902	TANGLEWOOD MT KAURI S2F	265/89	5.8	185	33	22	5.3	4.1	-0.10	3.0	2.0/30	1.3/76	55	0.20	0.24
116118	FR5929	LIGHTBURN B MALBEC-ET S3F	256/89	1.2	483	30	34	4.9	4.1	-0.18	3.4	2.6/43	4.5/90	62	0.27	0.75
116036	FR6730	ARKAN MGH BACKDROP-ET S2F *	253/97	5.4	118	22	24	5.1	4.2	0.07	4.0	0.0/95	0.0/97	60	0.54	0.36
112032	FR5103	JACLES BOY JAKS S2F	251/98	3.0	522	30	26	4.9	3.9	0.20	3.8	-1.0/98	-0.7/97	17	0.08	0.77
117035	FR6742	BELLAMYS MH GAMBIT-ET S2F *	246/91	2.4	813	31	34	4.6	3.8	0.05	5.7	1.6/67	2.1/92	60	0.37	0.18
113009	FR4543	HAZAE SH DISTINCT-ET S1F	230/99	5.6	443	21	28	4.7	4.0	-0.04	2.9	-0.4/96	0.1/98	21	0.00	-0.16
111036	FR2089	ARKAN FM BUSTER-ET S2F	224/99	2.4	194	34	19	5.3	4.0	0.28	1.8	1.0/99	0.6/99	34	0.07	0.47
113042	FR4971	CHARLTONS FI FINALCUT S2F	218/99	5.4	47	34	14	5.4	4.1	-0.03	2.7	1.4/70	0.6/89	69	0.22	0.24
115048	FR4977	ZINKS GFB BACHELOR-ET S1F	216/90	4.6	697	27	30	4.6	3.9	-0.11	1.2	3.8/32	-0.6/71	53	0.19	0.61
113046	FR5947	MEANDER ROCKETMAN-ET S1F	199/97	-1.5	109	27	20	5.2	4.1	-0.06	1.5	0.5/86	-0.2/88	31	0.10	0.34
115017	FR5926	LANGEVELDS SRB VALOUR S2F	193/97	0.5	793	36	32	4.7	3.8	0.14	3.3	-0.6/66	0.0/86	79	0.17	0.54
116066	FR5950	DICKSONS GI ESCALADE S3F	165/88	1.6	345	24	24	4.9	4.0	0.11	4.1	2.3/36	2.4/82	63	0.17	0.37
111011	AKK	ASHDALE FM KELSBELLS S1F	140/99	2.7	393	11	28	4.6	4.1	-0.06	4.3	1.6/98	0.7/99	50	0.11	0.30

\*Sexed semen is offered for Single AI use only. See page 12 for more information.



BUELIN BM EQUATOR S2F



BAGWORTH GI ORIGINAL S3F \*



GLENMEAD SB TRAPEZE S1F \*



GORDONS AM LANCELOT S3F



LIGHTBURN B MALBEC-ET S3F



ARKAN MGH BACKDROP-ET S2F \*



JACLES BOY JAKS S2F



BELLAMYS MH GAMBIT-ET S2F \*



MEANDER ROCKETMAN-ET S1F



LANGEVELDS SRB VALOUR S2F



DICKSONS GI ESCALADE S3F



ASHDALE FM KELSBELLS S1F

Udder Overall	EB/Rel%	Milk Prod SI	Fertility SI	Milk Kg	Fat Kg	Protein Kg	Fat %	Protein %	Dairy Heifer Calv Diff	Dairy Cow Calv Diff	Sire Name	Breed Split	OAD	High Input	Gestation Length	A2/A2	Page
0.52	138/39	66	42	-56	17	5	0.33	0.11	6.20	2.40	BOTHWELL WT MAXIMA S2F	F16	1276	1325	-7.7	A1/A2	22
0.33	188/58	95	78	51	17	11	0.26	0.16	7.50	3.20	GYDELAND EXCEL INCA S3F	F16	1240	1285	-3.5	A1/A2	18
0.57	232/50	88	93	-162	14	8	0.36	0.24	3.70	1.40	SPRING TRALEE BASS-ET S2F	F16	1243	1285	-5.7	A2/A2	20
0.30	191/67	108	54	92	17	14	0.23	0.19	7.10	3.00	ALJO TEF MAELSTROM-ET S3F	F16	1247	1266	-1.9	A1/A1	19
0.72	217/57	104	70	20	16	12	0.26	0.21	7.20	2.70	GORDONS AM LANCELOT S3F	F16	1259	1276	-0.2	A1/A1	23
-0.08	163/68	107	23	107	14	15	0.16	0.19	4.80	2.00	MORRIS TF LAMONT S1F	F15J1	1209	1206	-3.5	A2/A2	14
0.38	196/61	109	54	60	20	12	0.31	0.18	6.29	2.74	GYDELAND EXCEL INCA S3F	F16	1216	1246	-1.4	A2/A2	19
0.31	278/61	116	139	92	21	14	0.31	0.18	6.70	2.60	MITCHELLS WT TYPHOON S2F	F16	1185	1230	-0.3	A1/A2	18
1.18	156/64	107	58	63	17	13	0.25	0.19	11.0	4.00	SAN RAY FM BEAMER-ET S2F	F15J1	1234	1296	-0.3	A1/A2	22
0.25	214/63	112	61	-44	17	12	0.32	0.24	2.90	1.70	MOURNE GROVE HOTHOUSE S2F	F15J1	1155	1214	-6.7	A1/A2	20
0.14	177/69	83	59	128	14	11	0.15	0.12	5.70	2.00	MAIRE PF GOLDEN BOY S2F	F16	1191	1225	-2.3	A2/A2	14
0.51	187/61	100	47	316	18	16	0.09	0.08	5.70	2.30	MOURNE GROVE HOTHOUSE S2F	F16	1177	1222	-3.9	A2/A2	21
0.19	212/73	99	68	77	16	13	0.22	0.17	4.80	2.10	SAVANNAHS HF HAMMER S1F	F16	1170	1196	-2.3	A1/A2	14
0.35	156/96	80	54	-103	15	7	0.33	0.18	4.80	2.40	FAIRMONT MINT-EDITION	F14J2	1198	1226	-2.1	A1/A2	14
0.77	245/72	98	108	-93	21	8	0.43	0.20	5.40	2.20	FAR SIDE M ILLUSTRIOUS S3F	F16	1183	1238	-3.4	A1/A2	23
0.28	209/67	96	75	164	15	13	0.15	0.13	5.20	2.20	GREENWELL FI BLADE S3F	F16	1173	1222	-5.3	A2/A2	14
0.52	76/69	86	-23	-78	15	8	0.32	0.19	6.00	2.40	SAVANNAHS HF HAMMER S1F	F16	1188	1197	-0.4	A1/A2	14
0.40	208/68	92	110	132	17	12	0.20	0.12	6.60	2.70	SAN RAY FM BEAMER-ET S2F	F15J1	1172	1198	-1.2	A1/A1	21
0.57	148/65	60	78	-125	9	5	0.25	0.17	5.10	2.40	GYDELAND EXCEL INCA S3F	F15J1	1142	1182	4.0	A1/A2	14
0.19	199/95	108	61	114	14	15	0.16	0.20	5.60	2.30	FAIRMONT MINT-EDITION	F15J1	1115	1138	-1.4	A1/A2	14



MAIRE GL GRADUATE-ET



SPRING TRALEE BEAT-ET S1F



TRONNOCO INCA SHAKIR S3F \*



TANGLEWOOD MT KAURI S2F



HAZAE SH DISTINCT-ET S1F



ARKAN FM BUSTER-ET S2F



CHARLTONS FI FINALCUT S2F



ZINKS GFB BACHELOR-ET S1F



# TOP 5 PERFORMERS

Breeding Worth

NZ Herd Holstein Friesian Average NZD\$82

Bull Code	Name	gBW/Rel%	Page
119014	BUELIN BM EQUATOR S2F	344/63	22
118068	BAGWORTH GI ORIGINAL S3F*	325/81	18
118071	GLENMEAD SB TRAPEZE S1F*	296/79	20
115021	GORDONS AM LANCELOT S3F	290/98	19
117057	MAIRE GL GRADUATE-ET	281/85	23

Protein

NZ Herd Holstein Friesian Average 22kg/3.80%

Bull Code	Name	Protein (kg/%)	Page
118068	BAGWORTH GI ORIGINAL S3F*	39/4.1	18
115021	GORDONS AM LANCELOT S3F	37/4.1	19
117057	MAIRE GL GRADUATE-ET	37/4.2	23
117035	BELLAMYS MH GAMBIT-ET S2F*	34/3.8	21
116118	LIGHTBURN B MALBEC-ET S3F	34/4.1	22

Fertility

NZ Herd Holstein Friesian Average -0.9%

Bull Code	Name	Fertility (%)	Page
119014	BUELIN BM EQUATOR S2F	6.8	22
115023	TANGLEWOOD MT KAURI S2F	5.8	18
118068	BAGWORTH GI ORIGINAL S3F*	5.7	18
113009	HAZAE SH DISTINCT-ET S1F	5.6	14
118071	GLENMEAD SB TRAPEZE S1F*	5.4	20

SCC

NZ Herd Holstein Friesian Average 0.05

Bull Code	Name	SCC	Page
116118	LIGHTBURN B MALBEC-ET S3F	-0.18	22
118068	BAGWORTH GI ORIGINAL S3F*	-0.12	18
115048	ZINKS GFB BACHELOR-ET S1F	-0.11	14
115023	TANGLEWOOD MT KAURI S2F	-0.10	18
111011	ASHDALE FM KELSBELLS S1F	-0.06	14

Udder Overall

NZ Herd Holstein Friesian Average 0.22

Bull Code	Name	Udder Overall	Page
116118	LIGHTBURN B MALBEC-ET S3F	1.18	22
113042	CHARLTONS FI FINALCUT S2F	0.77	23
117057	MAIRE GL GRADUATE-ET	0.72	23
118071	GLENMEAD SB TRAPEZE S1F*	0.57	20
116066	DICKSONS GI ESCALADE S3F	0.57	14

EBI

Bull Code	Name	EBI (€)	Page
115023	TANGLEWOOD MT KAURI S2F	278/61	18
113042	CHARLTONS FI FINALCUT S2F	245/72	23
118071	GLENMEAD SB TRAPEZE S1F *	232/50	20
117057	MAIRE GL GRADUATE-ET	217/57	23
116036	ARKAN MGH BACKDROP-ET S2F *	214/63	20

Fat

NZ Herd Holstein Friesian Average 15kg/4.52%

Bull Code	Name	Fat (kg/%)	Page
119014	BUELIN BM EQUATOR S2F	51/5.2	22
118068	BAGWORTH GI ORIGINAL S3F*	44/5.1	18
118023	TRONNOCO INCA SHAKIR S3F*	43/5.2	19
115017	LANGEVELDS SRB VALOUR S2F	36/4.7	21
115021	GORDONS AM LANCELOT S3F	35/4.9	19

Milk Volume

NZ Herd Holstein Friesian Average 551 litres

Bull Code	Name	Volume (l)	Page
117035	BELLAMYS MH GAMBIT-ET S2F*	813	21
115017	LANGEVELDS SRB VALOUR S2F	793	21
115048	ZINKS GFB BACHELOR-ET S1F	697	14
119014	BUELIN BM EQUATOR S2F	616	22
116124	SPRING TRALEE BEAT-ET S1F	597	14

Capacity

NZ Herd Holstein Friesian Average 0.17

Bull Code	Name	Capacity	Page
112032	JACLES BOY JAKS S2F	0.77	14
116118	LIGHTBURN B MALBEC-ET S3F	0.75	22
115048	ZINKS GFB BACHELOR-ET S1F	0.61	14
115021	GORDONS AM LANCELOT S3F	0.57	19
118071	GLENMEAD SB TRAPEZE S1F*	0.55	20

Heifer Calving Difficulty

NZ Herd Holstein Friesian Average 1.9%

Bull Code	Name	Calving Difficulty	Page
118071	GLENMEAD SB TRAPEZE S1F*	-1.0/73	20
112032	JACLES BOY JAKS S2F	-1.0/98	14
115017	LANGEVELDS SRB VALOUR S2F	-0.6/66	21
113009	HAZAE SH DISTINCT-ET S1F	-0.4/96	14
116036	ARKAN MGH BACKDROP-ET S2F*	0/95	20

# THE POWER & THE PASSION: HOLSTEIN FRIESIANS HOLD FIRM

By Michele van der Aa, LIC sire analyst

Here, Michele highlights some of this year's black & whites that have caught her eye.



**118023 Tronnoco Inca Shakir:**  
It's unlikely to get more well-balanced than 118023 Tronnoco Inca Shakir S3F, who offers both production (including positive fertility) and well-rounded TOPs. Coming from the well-bred S family of Tony & Keri O'Connor's Tronnoco stud in Timaru, Shakir's great grand dam is the grand dam of the successful Samba. A recent addition to the Forward Pack as a spring bull, this Inca son offers a 266 gBW, is F16, and is A2A2! Complementing this is a capacity gBV of 0.33 and an udder overall gBV of 0.38.

**118068 Bagworth GI Original:**

Robert and Ann Siddins of the Bagworth Stud in Thames have delivered 118068 Bagworth GI Original. Original comes from a solid producing maternal line and is no stranger to providing sires, with his dam in the middle of her 10th lactation and in all fairness, they have been 10 pretty good ones. At 325 gBW, he's the only A1A2 Friesian bull to be profiled here. Original is balanced in both TOPs and delivers a 546 milk gBV from a liveweight gBV of 84. He also delivers massive fertility of 5.7 and 83 kgs of fat and protein combined.



**118071 Glenmead SB Trapeze:**  
Efficiency is the key word when it comes to Trapeze. An A2A2 Spring Tralee Bass son, low liveweight at 16kgs, making him a safe option for use on well grown heifers. Trapeze's dam is still a contract cow at 7 years old, a great innings and sign of a really strong cow family. Bred by Kevin and Felicity Clark from the Glenmead herd in the Bay of Plenty. Some of Trapeze highlights are a gBW of 296, a fertility gBV of 5.4 and 0.57 in the udder with 62 daughters analysed so far.

\* Sexed semen is offered for Single AI use only. See page 12 for more information.





Daughter of KAURI

FR5902 TANGLEWOOD MT EBI/REL  
KAURI S2F 278/61%

IRELAND VALUES

Milk Prod SI	116	Survival	2.95
Fertility SI	139	Cow Calving Difficulty	2.60
Calving SI	27	Heifer Calving Difficulty	6.70
Beef SI	-31	Somatic Cell Count	-0.07
Health SI	4	Milk kg	92
Maintenance SI	21	Fat kg/%	21/0.31
Management SI	2	Protein kg/%	14/0.18
Calving Interval (days)	-8.12	Pedigree Status	SRM

NEW ZEALAND DETAILS

87 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 265/89%

**Breeding Details**

Split F16

Sire MITCHELLS WT TYPHOON S2F

MGS SRC LAKESIDE DG MAGIC

MGGS SRD JENERAYTIONS BANQUET

Milk	185	Milkfat	34/5.3	Protein	22/4.1
Somatic Cell Count	-0.10	Cow Calving Diff	1.3/76	Heifer Calving Diff	2.0/30
Gestation Length	-0.3	Body Condition	0.20	Functional Survival	3.0
Fertility	5.8	Liveweight	55		

NZ Evaluation Data

72 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.31				
Shed Temperament	0.31				
Milking Speed	0.08				
Overall Opinion	0.41				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.74				
Capacity	0.24				
Rump Angle	-0.67				
Rump Width	0.12				
Legs	-0.11				
Udder Support	0.31				
Front Udder	0.24				
Rear Udder	0.35				
Front Teat Placement	-0.05				
Rear Teat Placement	-0.12				
Teat Length	0.50				
Udder Overall	0.31				
Dairy Conformation	0.31				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1230	1185	A1/A2

DP - INT

icbf 11/2021



10/12/2021



Half Sister of ORIGINAL

FR5941 BAGWORTH GI EBI/REL  
ORIGINAL S3F 188/58%

IRELAND VALUES

Milk Prod SI	95	Survival	1.54
Fertility SI	78	Cow Calving Difficulty	3.20
Calving SI	26	Heifer Calving Difficulty	7.50
Beef SI	-24	Somatic Cell Count	0.07
Health SI	0	Milk kg	51
Maintenance SI	10	Fat kg/%	17/0.26
Management SI	2	Protein kg/%	11/0.16
Calving Interval (days)	-4.70	Pedigree Status	SRM

NEW ZEALAND DETAILS

81 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 325/81%

**Breeding Details**

Split F16

Sire GYDELAND EXCEL INCA S3F

MGS FAIRMONT MINT-EDITION

MGGS VALDEN HI APPLAUSE-ET S2F

Milk	546	Milkfat	44/5.1	Protein	39/4.1
Somatic Cell Count	-0.12	Cow Calving Diff	0.4/93	Heifer Calving Diff	2.1/36
Gestation Length	-3.5	Body Condition	0.15	Functional Survival	4.2
Fertility	5.7	Liveweight	84		

NZ Evaluation Data

77 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.03				
Shed Temperament	0.01				
Milking Speed	0.10				
Overall Opinion	0.26				
Conformation	BV	-0.5	0	0.5	1.0
Stature	1.33				
Capacity	0.25				
Rump Angle	0.11				
Rump Width	0.38				
Legs	-0.08				
Udder Support	0.36				
Front Udder	0.21				
Rear Udder	0.40				
Front Teat Placement	-0.11				
Rear Teat Placement	-0.15				
Teat Length	0.79				
Udder Overall	0.33				
Dairy Conformation	0.49				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1285	1240	A1/A2

DP - INT

icbf 11/2021



10/12/2021



Half Sister of SHAKIR

FR7977 TRONNOCO INCA EBI/REL  
SHAKIR S3F 196/61%

IRELAND VALUES

Milk Prod SI	109	Survival	1.91
Fertility SI	54	Cow Calving Difficulty	2.74
Calving SI	28	Heifer Calving Difficulty	6.29
Beef SI	-22	Somatic Cell Count	0.07
Health SI	3	Milk kg	60
Maintenance SI	17	Fat kg/%	20/0.31
Management SI	8	Protein kg/%	12/0.18
Calving Interval (days)	-2.39	Pedigree Status	SRM

NEW ZEALAND DETAILS

112 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 266/82%

**Breeding Details**

Split F16

Sire GYDELAND EXCEL INCA S3F

MGS MOURNE GROVE HOTHOUSE S2F

MGGS WESTLAND CL JASPER-ET S1F

Milk	441	Milkfat	43/5.2	Protein	29/4.0
Somatic Cell Count	0.59	Cow Calving Diff	1.0/86	Heifer Calving Diff	4.1/39
Gestation Length	-1.4	Body Condition	0.09	Functional Survival	3.7
Fertility	0.9	Liveweight	44		

NZ Evaluation Data

95 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.29				
Shed Temperament	0.28				
Milking Speed	0.18				
Overall Opinion	0.49				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.64				
Capacity	0.33				
Rump Angle	0.13				
Rump Width	0.22				
Legs	-0.03				
Udder Support	0.45				
Front Udder	0.36				
Rear Udder	0.46				
Front Teat Placement	-0.07				
Rear Teat Placement	0.26				
Teat Length	-0.26				
Udder Overall	0.38				
Dairy Conformation	0.43				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1246	1216	A2/A2

DP - INT

icbf 11/2021



10/12/2021



Daughter of LANCELOT

FR5920 GORDONS AM EBI/REL  
LANCELOT S3F 191/67%

IRELAND VALUES

Milk Prod SI	108	Survival	2.33
Fertility SI	54	Cow Calving Difficulty	3.00
Calving SI	21	Heifer Calving Difficulty	7.10
Beef SI	-37	Somatic Cell Count	0.05
Health SI	-2	Milk kg	92
Maintenance SI	41	Fat kg/%	17/0.23
Management SI	7	Protein kg/%	14/0.19
Calving Interval (days)	-2.00	Pedigree Status	SRM

NEW ZEALAND DETAILS

2760 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 290/98%

**Breeding Details**

Split F16

Sire ALJO TEF MAELSTROM-ET S3F

MGS MACFARLANES DAUNTLESS

MGGS MITCHELLS NOTEWORTHY S1F

Milk	526	Milkfat	35/4.9	Protein	37/4.1
Somatic Cell Count	0.06	Cow Calving Diff	0.9/99	Heifer Calving Diff	4.6/80
Gestation Length	-1.9	Body Condition	0.14	Functional Survival	4.2
Fertility	-0.8	Liveweight	38		

NZ Evaluation Data

137 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.31				
Shed Temperament	0.32				
Milking Speed	0.11				
Overall Opinion	0.23				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.55				
Capacity	0.57				
Rump Angle	0.25				
Rump Width	0.50				
Legs	0.00				
Udder Support	0.47				
Front Udder	0.49				
Rear Udder	0.16				
Front Teat Placement	-0.01				
Rear Teat Placement	0.56				
Teat Length	-1.17				
Udder Overall	0.30				
Dairy Conformation	0.56				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1266	1247	A1/A1

DP - INT

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Dam of TRAPEZE

FR7974 GLENMEAD SB  
TRAPEZE S1F EBI/REL  
232/50%

IRELAND VALUES

Milk Prod SI	88	Survival	2.22
Fertility SI	93	Cow Calving Difficulty	1.40
Calving SI	48	Heifer Calving Difficulty	3.70
Beef SI	-47	Somatic Cell Count	-0.01
Health SI	4	Milk kg	-162
Maintenance SI	35	Fat kg/%	14/0.36
Management SI	9	Protein kg/%	8/0.24
Calving Interval (days)	-5.22	Pedigree Status	SRM

NEW ZEALAND DETAILS 72 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 296/79%

Breeding Details

Split	F15J1
Sire	SPRING TRALEE BASS-ET S2F
MGS	BUSY BROOK REVITUP-ET S2F
MGGS	HOWIES CHECKPOINT

Milk	313	Milkfat	29/5.0	Protein	28/4.1
Somatic Cell Count	0.02	Cow Calving Diff	0.3/94	Heifer Calving Diff	-1.0/73
Gestation Length	-5.7	Body Condition	0.12	Functional Survival	4.2
Fertility	5.4	Liveweight	16		

NZ Evaluation Data 62 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.26				
Shed Temperament	0.27				
Milking Speed	0.12				
Overall Opinion	0.32				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.09				
Capacity	0.55				
Rump Angle	0.51				
Rump Width	0.22				
Legs	0.08				
Udder Support	0.55				
Front Udder	0.44				
Rear Udder	0.38				
Front Teat Placement	0.40				
Rear Teat Placement	0.69				
Teat Length	-1.11				
Udder Overall	0.57				
Dairy Conformation	0.36				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1285	1243	A2/A2

DP - INT

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Dam of BACKDROP

FR6730 ARKAN MGH  
BACKDROP-ET S2F EBI/REL  
214/63%

IRELAND VALUES

Milk Prod SI	112	Survival	3.05
Fertility SI	61	Cow Calving Difficulty	1.70
Calving SI	42	Heifer Calving Difficulty	2.90
Beef SI	-18	Somatic Cell Count	0
Health SI	0	Milk kg	-44
Maintenance SI	18	Fat kg/%	17/0.32
Management SI	0	Protein kg/%	12/0.24
Calving Interval (days)	-1.82	Pedigree Status	SRM

NEW ZEALAND DETAILS 3491 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 253/97%

Breeding Details

Split	F15J1
Sire	MOURNE GROVE HOTHOUSE S2F
MGS	FAIRMONT MINT-EDITION
MGGS	SRC HIBI SECRET SKELTON

Milk	118	Milkfat	23/5.1	Protein	25/4.2
Somatic Cell Count	0.07	Cow Calving Diff	0.0/97	Heifer Calving Diff	0.0/95
Gestation Length	-6.7	Body Condition	0.54	Functional Survival	4.0
Fertility	5.4	Liveweight	60		

NZ Evaluation Data 122 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.53				
Shed Temperament	0.54				
Milking Speed	0.27				
Overall Opinion	0.59				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.54				
Capacity	0.36				
Rump Angle	-0.11				
Rump Width	-0.05				
Legs	-0.10				
Udder Support	0.23				
Front Udder	0.29				
Rear Udder	-0.02				
Front Teat Placement	0.21				
Rear Teat Placement	0.01				
Teat Length	0.55				
Udder Overall	0.25				
Dairy Conformation	0.23				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1214	1155	A1/A2

DP - INT

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Half Sister of GAMBIT

FR6742 BELLAMYS MH  
GAMBIT-ET S2F EBI/REL  
187/61%

IRELAND VALUES

Milk Prod SI	100	Survival	1.91
Fertility SI	47	Cow Calving Difficulty	2.30
Calving SI	38	Heifer Calving Difficulty	5.70
Beef SI	-21	Somatic Cell Count	-0.01
Health SI	0	Milk kg	316
Maintenance SI	24	Fat kg/%	18/0.09
Management SI	-1	Protein kg/%	16/0.08
Calving Interval (days)	-1.82	Pedigree Status	SRM

NEW ZEALAND DETAILS 1541 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 246/91%

Breeding Details

Split	F16
Sire	MOURNE GROVE HOTHOUSE S2F
MGS	VALDEN HI APPLAUSE-ET S2F
MGGS	SRC LAKESIDE DG MAGIC

Milk	813	Milkfat	31/4.6	Protein	34/3.8
Somatic Cell Count	0.05	Cow Calving Diff	2.1/92	Heifer Calving Diff	1.6/67
Gestation Length	-3.9	Body Condition	0.37	Functional Survival	5.7
Fertility	2.4	Liveweight	60		

NZ Evaluation Data 96 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.49				
Shed Temperament	0.50				
Milking Speed	0.12				
Overall Opinion	0.63				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.63				
Capacity	0.18				
Rump Angle	-0.14				
Rump Width	0.19				
Legs	-0.15				
Udder Support	0.49				
Front Udder	0.33				
Rear Udder	0.40				
Front Teat Placement	0.12				
Rear Teat Placement	-0.10				
Teat Length	-0.08				
Udder Overall	0.51				
Dairy Conformation	0.19				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1222	1177	A2/A2

DP - INT

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Half Sister of VALOUR

FR5926 LANGVELDS SRB  
VALOUR S2F EBI/REL  
208/68%

IRELAND VALUES

Milk Prod SI	92	Survival	3.77
Fertility SI	110	Cow Calving Difficulty	2.70
Calving SI	21	Heifer Calving Difficulty	6.60
Beef SI	-29	Somatic Cell Count	0.08
Health SI	-7	Milk kg	132
Maintenance SI	23	Fat kg/%	17/0.20
Management SI	-2	Protein kg/%	12/0.12
Calving Interval (days)	-5.04	Pedigree Status	SRM

NEW ZEALAND DETAILS 1508 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 193/97%

Breeding Details

Split	F15J1
Sire	SAN RAY FM BEAMER-ET S2F
MGS	HAZAE VA RAZZLER-ET S2F
MGGS	MITCHELLS NOTEWORTHY S1F

Milk	793	Milkfat	36/4.7	Protein	32/3.8
Somatic Cell Count	0.14	Cow Calving Diff	0.0/86	Heifer Calving Diff	-0.6/66
Gestation Length	-1.2	Body Condition	0.17	Functional Survival	3.3
Fertility	0.5	Liveweight	79		

NZ Evaluation Data 85 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	-0.25				
Shed Temperament	-0.29				
Milking Speed	0.44				
Overall Opinion	0.07				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.95				
Capacity	0.54				
Rump Angle	0.18				
Rump Width	0.61				
Legs	0.09				
Udder Support	0.42				
Front Udder	0.56				
Rear Udder	0.34				
Front Teat Placement	-0.14				
Rear Teat Placement	-0.31				
Teat Length	-0.09				
Udder Overall	0.40				
Dairy Conformation	0.49				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1198	1172	A1/A1

DP - INT

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Daughter of MALBEC

**FR5929** LIGHTBURN B  
**MALBEC-ET S3F** EBI/REL  
**156/64%**

IRELAND VALUES

Milk Prod SI	107	Survival	2.58
Fertility SI	58	Cow Calving Difficulty	4.00
Calving SI	-6	Heifer Calving Difficulty	11.0
Beef SI	-25	Somatic Cell Count	-0.04
Health SI	2	Milk kg	63
Maintenance SI	15	Fat kg/%	17/0.25
Management SI	4	Protein kg/%	13/0.19
Calving Interval (days)	-2.09	Pedigree Status	SRM

NEW ZEALAND DETAILS

98 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **256/89%**

**Breeding Details**

Split F15J1

Sire SAN RAY FM BEAMER-ET S2F

MGS WOODCOTE TF MAXIMISER

MGGs SRD JENERAYTIONS BANQUET

Milk	483	Milkfat	31/4.9	Protein	34/4.1
Somatic Cell Count	-0.18	Cow Calving Diff	4.5/90	Heifer Calving Diff	2.6/43
Gestation Length	-0.3	Body Condition	0.27	Functional Survival	3.4
Fertility	1.2	Liveweight	62		

NZ Evaluation Data

93 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.41				
Shed Temperament	0.44				
Milking Speed	-0.29				
Overall Opinion	0.43				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.79				
Capacity	0.75				
Rump Angle	-0.22				
Rump Width	0.35				
Legs	-0.07				
Udder Support	0.93				
Front Udder	1.05				
Rear Udder	0.84				
Front Teat Placement	0.66				
Rear Teat Placement	0.47				
Teat Length	-0.26				
Udder Overall	1.18				
Dairy Conformation	0.84				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1296	1234	A1/A2

DP - INT

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Dam of EQUATOR

**FR7155** BUELIN BM  
**EQUATOR S2F** EBI/REL  
**138/39%**

IRELAND VALUES

Milk Prod SI	66	Survival	1.28
Fertility SI	42	Cow Calving Difficulty	2.40
Calving SI	21	Heifer Calving Difficulty	6.20
Beef SI	-11	Somatic Cell Count	0.04
Health SI	1	Milk kg	-56
Maintenance SI	16	Fat kg/%	17/0.33
Management SI	2	Protein kg/%	5/0.11
Calving Interval (days)	-2.10	Pedigree Status	SRM

NEW ZEALAND DETAILS

0 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **344/63%**

**Breeding Details**

Split F16

Sire BOTHWELL WT MAXIMA S2F

MGS FAIRMONT MINT-EDITION

MGGs O-BEEMANFREDJUSTICEET TVTL

Milk	616	Milkfat	51/5.2	Protein	31/3.9
Somatic Cell Count	0.13	Cow Calving Diff	1.0/92	Heifer Calving Diff	5.2/55
Gestation Length	-7.7	Body Condition	0.10	Functional Survival	3.2
Fertility	6.8	Liveweight	55		

NZ Evaluation Data

0 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.51				
Shed Temperament	0.52				
Milking Speed	0.23				
Overall Opinion	0.60				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.68				
Capacity	0.46				
Rump Angle	-0.09				
Rump Width	0.47				
Legs	-0.15				
Udder Support	0.61				
Front Udder	0.32				
Rear Udder	0.41				
Front Teat Placement	0.18				
Rear Teat Placement	0.42				
Teat Length	-0.20				
Udder Overall	0.52				
Dairy Conformation	0.53				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1325	1276	A1/A2

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Daughter of GRADUATE

**FR6736** MAIRE GL  
**GRADUATE-ET** EBI/REL  
**217/57%**

IRELAND VALUES

Milk Prod SI	104	Survival	1.73
Fertility SI	70	Cow Calving Difficulty	2.70
Calving SI	34	Heifer Calving Difficulty	7.20
Beef SI	-31	Somatic Cell Count	0.03
Health SI	3	Milk kg	20
Maintenance SI	31	Fat kg/%	16/0.26
Management SI	5	Protein kg/%	12/0.21
Calving Interval (days)	-3.88	Pedigree Status	SRM

NEW ZEALAND DETAILS

77 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **281/85%**

**Breeding Details**

Split F16

Sire GORDONS AM LANCELOT S3F

MGS FARMSIDE MILLUSTRIOUS S3F

MGGs SRD WHINLEA KL ECLIPSE-ET

Milk	364	Milkfat	34/5.1	Protein	37/4.2
Somatic Cell Count	0.28	Cow Calving Diff	1.2/90	Heifer Calving Diff	5.1/35
Gestation Length	-0.2	Body Condition	0.00	Functional Survival	3.6
Fertility	-0.6	Liveweight	31		

NZ Evaluation Data

74 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.07				
Shed Temperament	0.08				
Milking Speed	0.03				
Overall Opinion	0.05				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.61				
Capacity	-0.01				
Rump Angle	-0.22				
Rump Width	0.17				
Legs	-0.04				
Udder Support	0.82				
Front Udder	0.69				
Rear Udder	0.62				
Front Teat Placement	0.26				
Rear Teat Placement	1.09				
Teat Length	-1.37				
Udder Overall	0.72				
Dairy Conformation	0.17				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1276	1259	A1/A1

DP - INT

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Dam of FINALCUT

**FR4971** CHARLTONS FI  
**FINALCUT S2F** EBI/REL  
**245/72%**

IRELAND VALUES

Milk Prod SI	98	Survival	1.95
Fertility SI	108	Cow Calving Difficulty	2.20
Calving SI	38	Heifer Calving Difficulty	5.40
Beef SI	-25	Somatic Cell Count	-0.04
Health SI	4	Milk kg	-93
Maintenance SI	18	Fat kg/%	21/0.43
Management SI	4	Protein kg/%	8/0.20
Calving Interval (days)	-6.63	Pedigree Status	SRM

NEW ZEALAND DETAILS

3661 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **218/99%**

**Breeding Details**

Split F16

Sire FARMSIDE MILLUSTRIOUS S3F

MGS PUKETIRO FROSTMAN S1F

MGGs LAKESIDE S D MEADOWS

Milk	47	Milkfat	35/5.4	Protein	14/4.1
Somatic Cell Count	-0.03	Cow Calving Diff	0.6/89	Heifer Calving Diff	1.4/70
Gestation Length	-3.4	Body Condition	0.22	Functional Survival	2.7
Fertility	5.4	Liveweight	69		

NZ Evaluation Data

93 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.11				
Shed Temperament	0.10				
Milking Speed	0.20				
Overall Opinion	0.32				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.99				
Capacity	0.24				
Rump Angle	-0.66				
Rump Width	0.36				
Legs	-0.33				
Udder Support	0.89				
Front Udder	0.70				
Rear Udder	0.64				
Front Teat Placement	0.09				
Rear Teat Placement	0.40				
Teat Length	-0.54				
Udder Overall	0.77				
Dairy Conformation	0.35				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1238	1183	A1/A2

DP - INT

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JERSEY DAUGHTER PROVEN

NZ Bull Code	IRE AI Code	Bull Name	gBW/Rel	Fertility %	Milk Volume (litres)	Fat Kg	Protein Kg	Fat%	Protein %	Somatic Cell Count	Functional Survival	Heifer CD/Rel	Cow CD/Rel	Liveweight	Body Condition Score	Capacity
Jersey																
318021	TBC	GLANTON DESI BANFF *	462/83	5.2	-733	44	9	6.8	4.7	-0.35	3.5	-2.6/96	-1.0/95	-38	0.10	0.59
318009	TBC	TIRONUI SUPERMAN ET *	449/83	0.0	-161	54	20	6.1	4.4	-0.10	1.7	-1.5/95	0.1/94	-39	-0.08	0.49
318015	TBC	GLENUI SUPER LAMAR *	438/83	6.1	-153	48	8	6.0	4.1	-0.62	3.1	-2.0/90	-0.8/89	-45	-0.01	0.39
316039	JE6238	ULMARRATT GALLIVANT *	403/90	6.7	-315	44	13	6.1	4.4	0.03	2.5	-2.5/93	-0.9/94	-14	0.07	0.62
314052	JE4516	CRESCENT EXCELL MISTY ET	358/94	0.0	-898	33	3	6.8	4.8	-0.43	3.9	-2.0/99	-0.8/99	-8	0.41	1.26
315045	JE4989	GLENUI DEGREE HOSS ET *	348/93	3.3	-504	27	6	6.0	4.4	-0.45	3.4	-1.5/98	-1.0/98	-39	0.18	0.25
317034	JE6721	HEUVEN SUPER WISEGUY *	348/89	4.1	-358	31	16	5.9	4.5	0.18	2.0	-2.7/63	-0.7/84	-37	-0.05	0.32
315009	JE5061	RIVERVIEW AND DEXTER S2J *	335/90	4.7	-119	26	17	5.5	4.3	-0.23	4.1	-1.1/97	-0.2/96	-23	0.18	0.63
314004	JE5992	BELLS OI FLOYD S3J	318/98	1.1	3	32	17	5.4	4.2	-0.26	3.7	-1.7/99	-1.2/98	-1	0.29	0.62
317060	JE6727	PASPALUM OI LIMELIGHT *	318/84	2.5	-521	23	5	5.9	4.4	-0.16	3.1	-2.7/46	-0.6/70	-66	0.00	0.31
314012	JE4259	KAITAKA OI LEOPARD ET	284/97	2.0	-694	23	-1	6.2	4.4	-0.20	3.4	-1.8/98	-0.6/97	-60	-0.08	-0.15

\*Sexed semen is offered for Single AI use only. See page 12 for more information.



GLANTON DESI BANFF \*



TIRONUI SUPERMAN ET \*



GLENUI SUPER LAMAR \*



HEUVEN SUPER WISEGUY \*



RIVERVIEW AND DEXTER S2J \*



BELLS OI FLOYD S3J



Udder Overall	EB/Rel%	Milk Prod SI	Fertility SI	Milk Kg	Fat Kg	Protein Kg	Fat %	Protein %	Dairy Heifer Calv Diff	Dairy Cow Calv Diff	Sire Name	Breed Split	OAD	High Input	Gestation Length	A2/A2	Page
0.26	301/58	110	127	-550	20	3	0.80	0.42	4.24	1.89	ARRIETA TERRIFIC DESI ET	J16	1325	1351	-7.7	A2/A2	28
0.68	298/59	145	106	-227	30	11	0.70	0.33	5.68	2.13	PUKETAWA AD SUPERSTITION	J16	1378	1384	-2.3	A2/A2	29
0.83	269/58	108	111	-191	25	6	0.59	0.23	3.51	1.50	PUKETAWA AD SUPERSTITION	J16	1354	1377	-2.4	A2/A2	30
0.62	228/66	122	67	-213	27	8	0.64	0.28	5.50	2.00	THORNWOOD OLM THOR	J16	1300	1347	-0.1	A1/A2	28
0.37	200/79	95	57	-545	18	2	0.75	0.39	4.50	1.90	MARSDEN NN EXCELL ET	J16	1264	1296	-0.6	A2/A2	32
0.66	243/70	103	90	-443	20	4	0.70	0.36	4.10	1.90	ARRIETA NN DEGREE ET	J16	1265	1287	2.2	A2/A2	29
0.06	220/61	129	49	-180	22	12	0.52	0.32	5.20	1.80	PUKETAWA AD SUPERSTITION	J16	1262	1271	-6.3	A2/A2	31
0.68	200/69	113	44	-130	19	11	0.42	0.27	5.10	2.20	ARRIETA NN DEGREE ET	J16	1272	1302	-1.4	A2/A2	32
0.41	242/71	139	56	27	28	14	0.47	0.23	4.30	2.10	OKURA LT INTEGRITY	J15F1	1235	1271	-2.1	A2/A2	30
0.96	134/62	100	4	-304	21	5	0.60	0.28	3.30	1.60	OKURA LT INTEGRITY	J16	1280	1298	1.9	A1/A2	31
0.62	191/85	102	34	-286	20	6	0.57	0.29	3.50	1.70	OKURA LT INTEGRITY	J16	1228	1230	-4.2	A2/A2	24

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ULMARRATT GALLIVANT \*



CRESCENT EXCELL MISTY ET



GLENUI DEGREE HOSS ET \*



PASPALUM OI LIMELIGHT \*



KAITAKA OI LEOPARD ET

# TOP 5 PERFORMERS

## Breeding Worth

New Zealand Herd Jersey Average NZD\$176

Bull Code	Name	gBW/Rel%	Page
318021	GLANTON DESI BANFF *	462/83	28
318009	TIRONUI SUPERMAN ET *	449/83	29
318015	GLENUI SUPER LAMAR *	438/83	30
316039	ULMARRA TT GALLIVANT *	403/90	28
314052	CRESCENT EXCELL MISTY ET	358/94	32

## Protein

New Zealand Herd Jersey Average -1kg/4.16%

Bull Code	Name	Protein (kg/%)	Page
318009	TIRONUI SUPERMAN ET *	20/4.4	29
315009	RIVERVIEW AND DEXTER S2J *	17/4.3	32
314004	BELLS OI FLOYD S3J	17/4.2	30
317034	HEUVEN SUPER WISEGUY *	16/4.5	31
316039	ULMARRA TT GALLIVANT *	13/4.4	28

## Fertility

New Zealand Herd Jersey Average 1.2%

Bull Code	Name	Fertility (%)	Page
316039	ULMARRA TT GALLIVANT *	6.7	28
318015	GLENUI SUPER LAMAR *	6.1	30
318021	GLANTON DESI BANFF *	5.2	28
315009	RIVERVIEW AND DEXTER S2J *	4.7	32
317034	HEUVEN SUPER WISEGUY *	4.1	31

## SCC

New Zealand Herd Jersey Average -0.08

Bull Code	Name	SCC	Page
318015	GLENUI SUPER LAMAR *	-0.62	30
315045	GLENUI DEGREE HOSS ET *	-0.45	29
314052	CRESCENT EXCELL MISTY ET	-0.43	32
318021	GLANTON DESI BANFF *	-0.35	28
314004	BELLS OI FLOYD S3J	-0.26	30

## Udder Overall

New Zealand Herd Jersey Average 0.24

Bull Code	Name	Udder Overall	Page
317060	PASPALUM OI LIMELIGHT *	0.96	31
318015	GLENUI SUPER LAMAR *	0.83	30
315009	RIVERVIEW AND DEXTER S2J *	0.68	32
318009	TIRONUI SUPERMAN ET *	0.68	29
315045	GLENUI DEGREE HOSS ET *	0.66	29

## EBI

Bull Code	Name	EBI (€)	Page
318021	GLANTON DESI BANFF *	301/58	28
318009	TIRONUI SUPERMAN ET *	298/59	29
318015	GLENUI SUPER LAMAR *	269/58	30
315045	GLENUI DEGREE HOSS ET *	243/70	29
314004	BELLS OI FLOYD S3J	242/71	30

## Fat

New Zealand Herd Jersey Average 9kg/5.47%

Bull Code	Name	Fat (kg/%)	Page
318009	TIRONUI SUPERMAN ET *	54/6.1	29
318015	GLENUI SUPER LAMAR *	48/6.0	30
316039	ULMARRA TT GALLIVANT *	45/6.1	28
318021	GLANTON DESI BANFF *	44/6.8	28
314052	CRESCENT EXCELL MISTY ET	33/6.8	32

## Milk Volume

New Zealand Herd Jersey Average -438 litres

Bull Code	Name	Volume (l)	Page
314004	BELLS OI FLOYD S3J	3	30
315009	RIVERVIEW AND DEXTER S2J *	-119	32
318015	GLENUI SUPER LAMAR *	-153	30
318009	TIRONUI SUPERMAN ET *	-161	29
316039	ULMARRA TT GALLIVANT *	-315	28

## Capacity

New Zealand Herd Jersey Average 0.20

Bull Code	Name	Capacity	Page
314052	CRESCENT EXCELL MISTY ET	1.26	32
315009	RIVERVIEW AND DEXTER S2J *	0.63	32
316039	ULMARRA TT GALLIVANT *	0.62	28
314004	BELLS OI FLOYD S3J	0.62	30
318021	GLANTON DESI BANFF *	0.59	28

## Liveweight

New Zealand Herd Jersey Average -50kg

Bull Code	Name	Liveweight	Page
314004	BELLS OI FLOYD S3J	-1	30
314052	CRESCENT EXCELL MISTY ET	-8	32
316039	ULMARRA TT GALLIVANT *	-14	28
315009	RIVERVIEW AND DEXTER S2J *	-23	32
317034	HEUVEN SUPER WISEGUY *	-37	31

# JERSEY SUCCESS

by Danie Swart, LIC bull acquisition manager

Spring time is an exciting time for both the Livestock Selection Team and for dairy farmers in general, with many bulls receiving their first daughter proofs based on herd test information, and with traits other-than-production inspections (TOP) done by independent TOP inspectors.

It's also the time when some older bulls add a large number of reproof daughters. These daughters have been herd tested after farmers used each bull's semen following an initial daughter proven graduation a few years earlier. A good example is Monopoly from the Crescent stud who stood the test of time with very positive farmer feedback. Below, I've highlighted some of the top-ranked 18-code bulls who received their first daughter information flowing into their proof in October and continue adding more daughter information every month. They're all now available in LIC Premier Sires teams.

### 318021 Glanton Desi Banff:

This exciting bull from the Glanton stud of Rob and Alison Thwaites has previously been one of the highest ranked young genomic bulls. To date he's the highest ranked bull, across all daughter proven and young bulls, at an astonishing gBW of 462. Sired by Arrieta Terrific Desi ET, he is out of the well-proven B cow family, a half-brother of Baltic and is also related to Bastille. Noticeable is the super production of this cow family, with his dam Glanton Tana Blysse ET having a PW of 562 and multiple LWs exceeding 600. His grand dam, the matriarch Glanton Mans Blanche, was a super production cow with a highest LW of 717.



Dam of 318021 BANFF

### 318009 Tironui Superman:

Bred by Murray and Janet Gibb, Superman is a production machine with a whopping gBV of 54kg fat and 20kg protein. Adding to his production he's likely to add good udders, with an udder overall gBV of 0.68. This boy comes from an outstanding cow family with Tironui Integ Meg as his dam; she's a well-proven cow with exceptional production and multiple sons in the Sire Proving Scheme. Superman is a sire of sons and in the Premier Club team.



Dam of 318009 SUPERMAN

### 318015 Glenui Super Lamar:

In Tony and Lesley Lander's Glenui herd there are two prominent successful cow families, the S and L family. Both cow families consistently produce exciting high-ranked bulls, and Lamar is one of them. Lamar is sired by Puketawa AD Superstition, and is out of a high production Goldie cow. This sire of sons is a production champion with fat gBV at 48kgs. Positive fertility and good size are further attributes of this bull, and he's available in the Premier Club team.

\* Sexed semen is offered for Single AI use only. See page 12 for more information.





SexedULTRA 4M

The most advanced sex-sorted semen

Daughter of GALLIVANT

JE6238 ULMARRA TT

GALLIVANT

EBI/REL  
228/66%

IRELAND VALUES

Milk Prod SI	122	Survival	2.86
Fertility SI	67	Cow Calving Difficulty	2.00
Calving SI	33	Heifer Calving Difficulty	5.50
Beef SI	-58	Somatic Cell Count	0.03
Health SI	5	Milk kg	-213
Maintenance SI	54	Fat kg/%	27/0.64
Management SI	5	Protein kg/%	8/0.28
Calving Interval (days)	-2.48	Pedigree Status	PED

NEW ZEALAND DETAILS

137 NZ Daughters

HoofPrint®

9

9

Nitrogen Efficiency

Methane Efficiency

gBW/Rel  
403/90%

Breeding Details

Split

J16

Sire

THORNWOOD OLM THOR

MGS

MARSDEN NN EXCELL ET

MGGS

GLENHAVEN TGM GENIUS S3J

Milk	-315	Milkfat	45/6.1	Protein	13/4.4
Somatic Cell Count	0.03	Cow Calving Diff	-0.9/94	Heifer Calving Diff	-2.5/93
Gestation Length	-0.1	Body Condition	0.07	Functional Survival	2.5
Fertility	6.7	Liveweight	-14		

NZ Evaluation Data

117 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.31				
Shed Temperament	0.32				
Milking Speed	0.06				
Overall Opinion	0.38				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.29				
Capacity	0.62				
Rump Angle	-0.19				
Rump Width	-0.06				
Legs	0.11				
Udder Support	0.34				
Front Udder	0.72				
Rear Udder	0.75				
Front Teat Placement	0.10				
Rear Teat Placement	-0.05				
Teat Length	0.28				
Udder Overall	0.62				
Dairy Conformation	0.59				

LIC Initiatives


High Input	Once-A-Day	A2 Protein
1347	1300	A1/A2

DP - INT

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10/12/2021



SexedULTRA 4M

The most advanced sex-sorted semen

Dam of BANFF

TBC GLANTON DESI

BANFF

EBI/REL  
301/58%

IRELAND VALUES

Milk Prod SI	110	Survival	5.28
Fertility SI	127	Cow Calving Difficulty	1.89
Calving SI	41	Heifer Calving Difficulty	4.24
Beef SI	-43	Somatic Cell Count	-0.01
Health SI	9	Milk kg	-550
Maintenance SI	46	Fat kg/%	20/0.80
Management SI	12	Protein kg/%	3/0.42
Calving Interval (days)	-4.86	Pedigree Status	PED

NEW ZEALAND DETAILS

146 NZ Daughters

HoofPrint®

10

10

Nitrogen Efficiency

Methane Efficiency

gBW/Rel  
462/83%

Breeding Details

Split

J16

Sire

ARRIETA TERRIFIC DESI ET

MGS

TAWA GROVE KRC TANA

MGGS

OKURA MANHATTAN ET S3J

Milk	-733	Milkfat	44/6.8	Protein	9/4.7
Somatic Cell Count	-0.35	Cow Calving Diff	-1.0/95	Heifer Calving Diff	-2.6/96
Gestation Length	-7.7	Body Condition	0.10	Functional Survival	3.5
Fertility	5.2	Liveweight	-38		

NZ Evaluation Data

113 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.45				
Shed Temperament	0.46				
Milking Speed	0.11				
Overall Opinion	0.48				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.71				
Capacity	0.59				
Rump Angle	-0.26				
Rump Width	0.30				
Legs	0.04				
Udder Support	0.05				
Front Udder	0.29				
Rear Udder	0.40				
Front Teat Placement	-0.11				
Rear Teat Placement	-0.69				
Teat Length	-0.12				
Udder Overall	0.26				
Dairy Conformation	0.53				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1351	1325	A2/A2

DP - INT

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SexedULTRA 4M

The most advanced sex-sorted semen

Dam of SUPERMAN

TBC TIRONUI

SUPERMAN ET

EBI/REL  
298/59%

IRELAND VALUES

Milk Prod SI	145	Survival	5.94
Fertility SI	106	Cow Calving Difficulty	2.13
Calving SI	43	Heifer Calving Difficulty	5.68
Beef SI	-39	Somatic Cell Count	0.05
Health SI	3	Milk kg	-227
Maintenance SI	35	Fat kg/%	30/0.70
Management SI	6	Protein kg/%	11/0.33
Calving Interval (days)	-2.57	Pedigree Status	PED

NEW ZEALAND DETAILS

157 NZ Daughters

HoofPrint®

9

9

Nitrogen Efficiency

Methane Efficiency

gBW/Rel  
449/83%

Breeding Details

Split

J16

Sire

PUKETAWA AD SUPERSTITION

MGS

OKURA LT INTEGRITY

MGGS

NOAKES NEVVY S3J

Milk	-161	Milkfat	54/6.1	Protein	20/4.4
Somatic Cell Count	-0.10	Cow Calving Diff	0.1/94	Heifer Calving Diff	-1.5/95
Gestation Length	-2.3	Body Condition	-0.08	Functional Survival	1.7
Fertility	0.0	Liveweight	-39		

NZ Evaluation Data

85 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.21				
Shed Temperament	0.21				
Milking Speed	0.06				
Overall Opinion	0.29				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.59				
Capacity	0.49				
Rump Angle	-0.90				
Rump Width	0.44				
Legs	0.11				
Udder Support	0.56				
Front Udder	0.49				
Rear Udder	0.87				
Front Teat Placement	0.05				
Rear Teat Placement	0.13				
Teat Length	0.00				
Udder Overall	0.68				
Dairy Conformation	0.53				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1384	1378	A2/A2

DP - INT

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SexedULTRA 4M

The most advanced sex-sorted semen

Daughter of HOSS

JE4989 GLENUI DEGREE

HOSS ET

EBI/REL  
243/70%

IRELAND VALUES

Milk Prod SI	103	Survival	2.99
Fertility SI	90	Cow Calving Difficulty	1.90
Calving SI	21	Heifer Calving Difficulty	4.10
Beef SI	-40	Somatic Cell Count	-0.04
Health SI	12	Milk kg	-443
Maintenance SI	56	Fat kg/%	20/0.7
Management SI	1	Protein kg/%	4/0.36
Calving Interval (days)	-4.21	Pedigree Status	PED

NEW ZEALAND DETAILS

552 NZ Daughters

HoofPrint®

8

8

Nitrogen Efficiency

Methane Efficiency

gBW/Rel  
348/93%

Breeding Details

Split

J16

Sire

ARRIETA NN DEGREE ET

MGS

KONUI GLEN ELMOS BOWIE

MGGS

LOSTAHILL FOREVERS BLAKE

Milk	-504	Milkfat	28/6.0	Protein	7/4.4
Somatic Cell Count	-0.45	Cow Calving Diff	-1.0/98	Heifer Calving Diff	-1.5/98
Gestation Length	2.2	Body Condition	0.18	Functional Survival	3.4
Fertility	3.3	Liveweight	-39		

NZ Evaluation Data

115 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	-0.06				
Shed Temperament	-0.08				
Milking Speed	0.18				
Overall Opinion	0.15				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.66				
Capacity	0.25				
Rump Angle	0.01				
Rump Width	-0.03				
Legs	0.09				
Udder Support	0.49				
Front Udder	0.47				
Rear Udder	0.71				
Front Teat Placement	0.19				
Rear Teat Placement	-0.04				
Teat Length	0.01				
Udder Overall	0.66				
Dairy Conformation	0.33				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1287	1265	A2/A2

DP - INT

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Dam of LAMAR

TBC GLENUI SUPER LAMAR EBI/REL 269/58%

IRELAND VALUES

Milk Prod SI	108	Survival	5.69
Fertility SI	111	Cow Calving Difficulty	1.50
Calving SI	46	Heifer Calving Difficulty	3.51
Beef SI	-46	Somatic Cell Count	-0.02
Health SI	3	Milk kg	-191
Maintenance SI	39	Fat kg/%	25/0.59
Management SI	9	Protein kg/%	6/0.23
Calving Interval (days)	-3.16	Pedigree Status	PED

NEW ZEALAND DETAILS 155 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 438/83%

Breeding Details

Split	J16
Sire	PUKETAWA AD SUPERSTITION
MGS	PUHIPUHI CAPS GOLDIE S3J
MGGS	OKURA LT INTEGRITY

Milk	-153	Milkfat	48/6.0	Protein	9/4.1
Somatic Cell Count	-0.62	Cow Calving Diff	-0.8/89	Heifer Calving Diff	-2/90
Gestation Length	-2.4	Body Condition	-0.01	Functional Survival	3.1
Fertility	6.1	Liveweight	-45		

NZ Evaluation Data 119 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.30				
Shed Temperament	0.31				
Milking Speed	0.11				
Overall Opinion	0.28				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.75				
Capacity	0.39				
Rump Angle	-0.52				
Rump Width	0.48				
Legs	0.15				
Udder Support	0.68				
Front Udder	0.61				
Rear Udder	0.85				
Front Teat Placement	0.35				
Rear Teat Placement	0.53				
Teat Length	-0.65				
Udder Overall	0.83				
Dairy Conformation	0.42				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1377	1354	A2/A2



Daughter of FLOYD

JE5992 BELLS OF FLOYD S3J EBI/REL 242/71%

IRELAND VALUES

Milk Prod SI	139	Survival	2.87
Fertility SI	56	Cow Calving Difficulty	2.10
Calving SI	40	Heifer Calving Difficulty	4.30
Beef SI	-55	Somatic Cell Count	-0.01
Health SI	2	Milk kg	27
Maintenance SI	52	Fat kg/%	28/0.47
Management SI	7	Protein kg/%	14/0.23
Calving Interval (days)	-1.65	Pedigree Status	SRM

NEW ZEALAND DETAILS 5624 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 318/98%

Breeding Details

Split	J15F1
Sire	OKURA LT INTEGRITY
MGS	SHALENDY IDEAL ASCENT S3J
MGGS	DAYSH'S LANDMARK GR

Milk	3	Milkfat	33/5.4	Protein	17/4.2
Somatic Cell Count	-0.26	Cow Calving Diff	-1.2/98	Heifer Calving Diff	-1.7/99
Gestation Length	-2.1	Body Condition	0.29	Functional Survival	3.7
Fertility	1.1	Liveweight	-1		

NZ Evaluation Data 353 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.14				
Shed Temperament	0.14				
Milking Speed	-0.06				
Overall Opinion	0.31				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.13				
Capacity	0.62				
Rump Angle	0.25				
Rump Width	0.43				
Legs	-0.08				
Udder Support	0.43				
Front Udder	0.23				
Rear Udder	0.65				
Front Teat Placement	-0.19				
Rear Teat Placement	-0.13				
Teat Length	-0.01				
Udder Overall	0.41				
Dairy Conformation	0.58				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1271	1235	A2/A2



Daughter of LIMELIGHT

JE6727 PASPALUM OF LIMELIGHT EBI/REL 134/62%

IRELAND VALUES

Milk Prod SI	100	Survival	1.69
Fertility SI	4	Cow Calving Difficulty	1.60
Calving SI	33	Heifer Calving Difficulty	3.30
Beef SI	-53	Somatic Cell Count	0.03
Health SI	1	Milk kg	-304
Maintenance SI	44	Fat kg/%	21/0.6
Management SI	6	Protein kg/%	5/0.28
Calving Interval (days)	1.37	Pedigree Status	PED

NEW ZEALAND DETAILS 78 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 318/84%

Breeding Details

Split	J16
Sire	OKURA LT INTEGRITY
MGS	GLENHAVEN TGM GENIUS S3J
MGGS	OKURA MANHATTAN ET S3J

Milk	-521	Milkfat	23/5.9	Protein	6/4.4
Somatic Cell Count	-0.16	Cow Calving Diff	-0.6/70	Heifer Calving Diff	-2.7/46
Gestation Length	1.9	Body Condition	0.00	Functional Survival	3.1
Fertility	2.5	Liveweight	-66		

NZ Evaluation Data 53 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.53				
Shed Temperament	0.55				
Milking Speed	0.15				
Overall Opinion	0.53				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-1.05				
Capacity	0.31				
Rump Angle	-0.16				
Rump Width	-0.14				
Legs	0.07				
Udder Support	0.80				
Front Udder	0.74				
Rear Udder	1.00				
Front Teat Placement	0.31				
Rear Teat Placement	0.39				
Teat Length	-0.79				
Udder Overall	0.96				
Dairy Conformation	0.39				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1298	1280	A1/A2



Daughter of WISEGUY

JE6721 HEUVEN SUPER WISEGUY EBI/REL 220/61%

IRELAND VALUES

Milk Prod SI	129	Survival	1.67
Fertility SI	49	Cow Calving Difficulty	1.80
Calving SI	41	Heifer Calving Difficulty	5.20
Beef SI	-47	Somatic Cell Count	0.09
Health SI	-1	Milk kg	-180
Maintenance SI	44	Fat kg/%	22/0.52
Management SI	6	Protein kg/%	12/0.32
Calving Interval (days)	-2.26	Pedigree Status	SRM

NEW ZEALAND DETAILS 315 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 348/89%

Breeding Details

Split	J16
Sire	PUKETAWA AD SUPERSTITION
MGS	LYNBROOK RG TERRIFIC ET
MGGS	MAGHERACANON DODDY GR

Milk	-358	Milkfat	32/5.9	Protein	16/4.5
Somatic Cell Count	0.18	Cow Calving Diff	-0.7/84	Heifer Calving Diff	-2.7/63
Gestation Length	-6.3	Body Condition	-0.05	Functional Survival	2.0
Fertility	4.1	Liveweight	-37		

NZ Evaluation Data 94 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.43				
Shed Temperament	0.43				
Milking Speed	0.33				
Overall Opinion	0.44				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.59				
Capacity	0.32				
Rump Angle	-0.32				
Rump Width	-0.09				
Legs	0.02				
Udder Support	0.04				
Front Udder	-0.10				
Rear Udder	0.27				
Front Teat Placement	-0.13				
Rear Teat Placement	-0.20				
Teat Length	-0.09				
Udder Overall	0.06				
Dairy Conformation	0.34				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1271	1262	A2/A2





Daughter of DEXTER

**JE5061 RIVERVIEW AND DEXTER S2J** EBI/REL **200/69%**

IRELAND VALUES			
Milk Prod SI	113	Survival	3.07
Fertility SI	44	Cow Calving Difficulty	2.20
Calving SI	22	Heifer Calving Difficulty	5.10
Beef SI	-48	Somatic Cell Count	-0.05
Health SI	9	Milk kg	-130
Maintenance SI	53	Fat kg/%	19/0.42
Management SI	6	Protein kg/%	11/0.27
Calving Interval (days)	-0.45	Pedigree Status	SRM

NEW ZEALAND DETAILS 99 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **335/90%**

**Breeding Details**

Split	J16
Sire	ARRIETA NN DEGREE ET
MGS	OKURA LIKA MURMUR S3J
MGGS	OKURA MANHATTEN ET SJ3

Milk	-119	Milkfat	26/5.5	Protein	17/4.3
Somatic Cell Count	-0.23	Cow Calving Diff	-0.2/96	Heifer Calving Diff	-1.1/97
Gestation Length	-1.4	Body Condition	0.18	Functional Survival	4.1
Fertility	4.7	Liveweight	-23		

NZ Evaluation Data 93 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.09				
Shed Temperament	0.08				
Milking Speed	0.29				
Overall Opinion	0.30				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.48				
Capacity	0.63				
Rump Angle	-0.10				
Rump Width	0.34				
Legs	-0.01				
Udder Support	0.49				
Front Udder	0.62				
Rear Udder	0.33				
Front Teat Placement	0.68				
Rear Teat Placement	0.72				
Teat Length	0.17				
Udder Overall	0.68				
Dairy Conformation	0.61				

LIC Initiatives		
High Input	Once-A-Day	A2 Protein
1302	1272	A2/A2



Daughter of MISTY

**JE4516 CRESCENT EXCELL MISTY ET** EBI/REL **200/79%**

IRELAND VALUES			
Milk Prod SI	95	Survival	2.68
Fertility SI	57	Cow Calving Difficulty	1.90
Calving SI	33	Heifer Calving Difficulty	4.50
Beef SI	-38	Somatic Cell Count	-0.14
Health SI	13	Milk kg	-545
Maintenance SI	33	Fat kg/%	18/0.75
Management SI	6	Protein kg/%	2/0.39
Calving Interval (days)	-1.92	Pedigree Status	PED

NEW ZEALAND DETAILS 7982 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **358/94%**

**Breeding Details**

Split	J16
Sire	MARSDEN NN EXCELL ET
MGS	RIVERINA GREENMAN
MGGS	TAWA GROVE MAUNGA ET SJ3

Milk	-898	Milkfat	33/6.8	Protein	4/4.8
Somatic Cell Count	-0.43	Cow Calving Diff	-0.8/99	Heifer Calving Diff	-2/99
Gestation Length	-0.6	Body Condition	0.41	Functional Survival	3.9
Fertility	0.0	Liveweight	-8		

NZ Evaluation Data 613 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.20				
Shed Temperament	0.19				
Milking Speed	0.23				
Overall Opinion	0.30				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.35				
Capacity	1.26				
Rump Angle	0.24				
Rump Width	-0.21				
Legs	0.02				
Udder Support	0.21				
Front Udder	0.62				
Rear Udder	0.22				
Front Teat Placement	0.04				
Rear Teat Placement	-0.44				
Teat Length	0.51				
Udder Overall	0.37				
Dairy Conformation	0.81				

LIC Initiatives		
High Input	Once-A-Day	A2 Protein
1296	1264	A2/A2

# WHAT'S NEXT FOR THE INDUSTRY'S NATIONAL ANIMAL EVALUATION SYSTEM?

By Rachel Bloxham, LIC herd improvement technical manager



Numerous enhancements are being made to improve the national animal evaluation system, with the majority of these coming into effect in December 2021. Animal indices will change following the December update, providing increased accuracy in genetic evaluations and allowing for better breeding decisions for farmers' herds.

The December updates include a major upgrade of evaluation processes, models, and genetic evaluation software.

Evaluations will be a little different for all traits, but the most significant enhancements focus on fertility and survival.

With any update to animal evaluation, all new models and processes are rigorously tested and internationally peer-reviewed before final sign-off by the New Zealand Animal Evaluation (NZAEL) Board.

Further detail was released in December, and covered the following key points:

**Fertility BV:** The enhanced fertility index has increased emphasis on key fertility phenotypes, calving, and insemination. There will be less reliance on 'predictor traits' (traits that have a strong co-relationship with fertility).

The new model will utilise data from seven fertility traits recorded on first-calving cows (heifer calving

to fourth-calving cows (calving and insemination data).

The definition for fertility BV will remain as CR42 (% calving within 42 days from the planned start of calving).

The results of the National Breeding Objective survey reinforced the importance of this trait to dairy farmers.

Work is already planned beyond December 2021 to investigate and apply further enhancements to the Fertility BV, including the utilisation of pregnancy diagnosis.

**Functional Survival BV:** Residual Survival will be somewhat overhauled, and will be re-named 'Functional Survival'.

Like Residual Survival, it excludes culling reasons associated with fertility and milk production and is focused on other reasons why an animal leaves the herd.

The key change is the utilisation of actual phenotypic records, and knowledge of an animal surviving from one lactation to the next (a good reminder of the importance of accuracy when it comes to the recording of why an animal leaves the herd).

Given the nature of the trait, and the length of time it takes to obtain phenotypic records, (i.e. an animal surviving to fifth lactation), certain predictor traits are used to provide an early indication of functional survival. These traits include the breeding values for BCS (body

condition score), legs, udder overall, and milking speed.

The definition for this new trait is the average probability of survival from one lactation to the next (for reasons other than fertility and production). The trait BV will be reported as a percentage.

**Economic Values update:** Economic Values (EVs) used in the calculation of breeding worth (BW) are a key consideration in all NZAEL updates, and this year is no different. Economic weightings will be updated in December to reflect the changing economic circumstance on farm and in the global marketplace, and to generate EVs for the new fertility and functional survival BVs.

With the above changes occurring in December 2021, animal indices (both males and females) will change, and animals are likely to re-rank.

Remember, these enhancements are about improving the national animal evaluation system to provide increased accuracy in genetic evaluations - information that will allow farmers to make better breeding decisions for their herd.

To keep aligned with the changes NZAEL has been working on, LIC's Research & Development team has been working to ensure changes are replicated in its genomic evaluation system, which incorporates the Single Step Animal Model (SSAM). Reranking is therefore expected to be observed in the outputs of LIC's genomic evaluation system.



NZ Bull Code	IRE AI Code	Bull Name	Breed Split	gBW/Rel	Fertility %	Milk Volume (litres)	Fat Kg	Protein Kg	Fat %	Protein %	Somatic Cell Count	Functional Survival	Heifer CD/Rel	Cow CD/Rel	Liveweight	Body Condition Score
Kiwicross®																
520085	TBC	SNOWLINE BENJI *	F12J4	422 / 62	3.6	40	53	26	5.8	4.3	-0.09	2.3	0.5 / 38	0.3 / 74	28	0.19
517043	FR6799	GLEN KORU PROCLAIMER-ET	F11J5	378 / 91	-5.2	300	51	33	5.5	4.2	0.15	2.9	1.3 / 88	0.0 / 97	1	0.05
511011	ZSP	PRIESTS SIERRA *	F11J5	329 / 98	5.2	316	42	27	5.3	4.1	-0.15	3.4	2.4 / 99	0.2 / 99	36	0.05
518063	TBC	VAN STRAALENS SAFARI *	F11J5	317 / 80	-1.1	494	32	32	4.9	4.0	-0.25	2.5	0.4 / 79	-0.9 / 90	-5	0.13
518019	TBC	DIGGS HARDCOPY *	F10J6	387 / 80	7.9	-157	35	17	5.7	4.3	-0.65	1.7	-2.9 / 42	-0.7 / 68	-1	0.16
517060	FR6748	KEGZYS REMARKABLE	F10J6	332 / 86	-1.6	276	44	31	5.4	4.2	-0.10	2.6	-0.5 / 45	0.1 / 81	24	0.02
516074	FR5989	CROSSANS CRITICAL-ET	F10J6	313 / 96	-3.6	904	36	39	4.6	3.9	-0.34	2.2	-0.9 / 99	-0.2 /	0	0.10
517055	FR6733	TARAMONT SPRINGTIDE	F10J6	300 / 87	-3.7	799	46	42	4.9	4.0	0.38	1.4	-0.5 /	-0.3	33	0.00
516066	JE6805	WALTON INFERNO	F9J7	414 / 90	4.3	117	38	30	5.4	4.3	-0.60	2.6	-1.4 / 99	-0.8 /	-2	0.10
520048	TBC	BALDRICKS TOUCHDOWN	F9J7	409 / 60	-0.3	-154	42	24	5.9	4.5	-0.22	2.7	1.5 / 34	-0.8 /	-13	0.18
518061	TBC	INNOVATION HOMEBREW *	F9J7	372 / 80	1.5	-81	41	25	5.7	4.4	0.40	5.7	0.3 / 96	-0.1 /	21	0.35
517042	FR6793	LUCK-AT-LAST INSPIRED-ET *	F9J7	298 / 91	-3.4	295	37	23	5.2	4.0	0.08	2.4	0.1 / 98	-0.5 /	-16	0.10
515068	FR4965	WOODWARDS SPOT ON	F9J7	297 / 88	1.2	80	35	20	5.4	4.1	0.01	3.1	-0.6 /	-0.5 /	7	0.15
517026	FR6790	HOWSES SPRINGFIELD *	F9J7	258 / 91	-2.4	-526	26	10	6.0	4.5	-0.71	2.0	-0.9 /	-0.8 /	10	0.11
513074	FR4527	SCHRADERS TUSK	F9J7	197 / 98	4.7	224	14	13	4.8	3.9	-0.18	1.4	-1.6 /	-1.0 /	-29	-0.05
518038	TBC	WERDERS PREMONITION *	J8F8	441 / 82	-1.5	29	59	25	6.0	4.3	-0.40	4.2	-0.1 /	-0.2	13	0.06
518017	TBC	HORIZON BARNSTORMER-ET	F8J8	363 / 82	6.7	379	46	30	5.3	4.1	-0.25	2.5	1.2 / 90	1.2 / 91	42	0.05
518072	TBC	DEANS PROFESSIONAL *	J9F7	354 / 80	3.6	235	41	21	5.4	4.0	0.04	4.2	-0.1 /	0.4 / 96	8	0.27
520033	TBC	DOWSON HONENUI-ET *	J9F7	330 / 56	4.2	-412	35	20	6.1	4.6	0.26	3.8	-2.8 /	-1.5 /	20	0.09
514018	JE4509	GLEN KORU EPIC	J9F7	232 / 97	0.6	37	19	24	5.1	4.3	-0.12	1.6	-1.2 /	-0.7 /	3	0.00
515017	JE6007	LYNBROOK KARTELL *	J8F7	282 / 88	2.6	-2	25	23	5.3	4.3	0.24	0.8	-0.8 /	-0.8 /	-19	-0.03
515066	JE6745	VAN STRAALENS DUEL	J10F6	309 / 90	2.7	-81	37	20	5.7	4.3	0.06	0.8	0.1 / 61	-0.5 /	17	0.12
515059	JE5001	TAUNTS REVENGE	J10F6	283 / 90	5.7	97	37	23	5.4	4.2	0.45	0.8	-2.4 /	0.9 / 68	27	0.01
520007	TBC	JULIAN STRAIGHT UP	J11F5	379 / 61	3.1	-508	44	7	6.4	4.4	-0.10	3.3	-1.4 /	-0.6	4	0.33
515062	JE5893	DUGGANS GAMEPLAN *	J12F4	370 / 91	3.5	-553	36	11	6.3	4.6	0.02	1.0	-2.3 /	-0.8 /	-33	0.03

Irish Breeding Bulls

TBC	FR6892	LIC MOOREHILL MAX *	F12J4	391 / 59	5.1	547	47	32	5.2	4.0	-0.10	3.9	-0.4 / 31	-0.1 / 31	38	0.33
TBC	FR6823	LIC KILVOIGE STEPHEN *	F12J4	210 / 57	1.3	427	37	22	5.1	3.9	0.05	0.8	1.7 / 27	0.1 / 27	44	-0.02
TBC	JE6898	LIC MOOREHILL GALAXY *	F9J5	220 / 57	8.6	15	12	18	5.0	4.2	-0.04	2.8	-0.5 / 28	0 / 30	12	0.15
TBC	JE6895	LIC BROOKLAWN MOONLIGHTCLIPS *	F8J8	287 / 58	2.0	2	22	23	5.2	4.3	-0.49	0.4	-0.7 / 31	-0.5 / 32	-13	0.00
TBC	JE7194	LIC NEWBAWN LILY *	F8J8	179 / 53	-0.4	207	30	15	5.2	3.9	-0.28	1.7	0.2 / 25	0.2 / 26	66	0.36
TBC	JE6886	LIC KILVOIGE AARON *	J10F6	332 / 56	3.6	-150	41	12	5.8	4.2	0.22	3.2	-1.7 / 20	-0.5 / 24	2	0.20

\*Sexed semen is offered for Single AI use only. See page 12 for more information.

SNOWLINE BENJI \*

GLEN KORU PROCLAIMER-ET

PRIESTS SIERRA \*

VAN STRAALENS SAFARI \*

DIGGS HARDCOPY \*

INNOVATION HOMEBREW

LUCK-AT-LAST INSPIRED-ET \*

WOODWARDS SPOT ON \*

HOWSES SPRINGFIELD \*

SCHRADERS TUSK

LYNBROOK KARTELL \*

VAN STRAALENS DUEL

TAUNTS REVENGE

JULIAN STRAIGHT UP \*

DUGGANS GAMEPLAN \*

Capacity	Udder Overall	EB/Rel%	Milk Prod SI	Fertility SI	Milk Kg	Fat Kg	Protein Kg	Fat %	Protein %	Dairy Heifer Calv Diff	Dairy Cow Calv Diff	Sire Name	OAD	High Input	Gestation Length	A2/A2	Page
0.38	0.21	199 / 48	99	48	-77	18	9	0.38	0.21	4.19	2.41	GLEN KORU ETHOS-ET S1F	1300	1332	-5.9	A1/A2	46
0.54	0.20	183 / 62	141	24	101	26	16	0.38	0.22	5.80	2.50	GYDELAND EXCEL INCA S3F	1310	1301	2.1	A2/A2	39
0.51	0.48	173 / 95	103	43	20	20	11	0.34	0.17	5.90	2.40	FAIRMONT MINT-EDITION	1267	1305	-6.5	A2/A2	38
0.71	0.76	206 /	94	50	6	14	11	0.24	0.19	5.57	1.89	MOORBYS FM GRANITE S2F	1288	1305	-0.7	A2/A2	38
0.39	0.20	299 /	81	138	-357	14	3	0.52	0.29	4.43	1.57	DRYSDALES SOVEREIGN	1272	1312	-7.5	A2/A2	39
0.46	0.64	184 / 59	85	60	-219	15	6	0.42	0.24	4.20	2.00	DRYSDALES SOVEREIGN	1305	1315	-1.3	A1/A2	40
0.72	0.54	210 / 64	105	55	244	19	15	0.16	0.11	4.30	1.90	KRAAKMANS JAYDIE	1292	1288	-7.7	A2/A2	40
0.91	1.05	134 / 60	114	-6	132	16	16	0.18	0.19	3.80	2.00	DRYSDALES SOVEREIGN	1340	1357	-10.3	A2/A2	34
0.28	0.38	214 / 61	92	72	-177	12	9	0.34	0.27	4.20	1.50	PRIESTS SOLARIS-ET	1325	1337	-8.3	A2/A2	41
0.62	0.57	172 / 45	121	20	-74	22	11	0.45	0.25	5.84	2.12	GLEN KORU PROCLAIMER-ET	1330	1349	1.6	A1/A2	45
0.64	0.60	160 /	60	68	-395	9	1	0.46	0.27	5.18	1.92	ARRIETA BRANSON-ET	1281	1325	-7.1	A2/A2	34
0.71	0.73	190 / 57	106	46	20	19	12	0.32	0.19	5.50	1.70	SAN RAY FM BEAMER-ET S2F	1281	1291	-6.1	A2/A2	42
1.17	0.24	196 / 64	115	66	24	22	12	0.36	0.2	5.90	2.30	VANSTRAALENS VIBE	1244	1275	2.0	A2/A2	42
0.90	0.53	236 / 60	112	67	-117	20	10	0.43	0.25	4.30	1.90	DRYSDALES SOVEREIGN	1248	1250	-2.1	A2/A2	41
-0.08	0.14	225 / 69	84	75	0	15	9	0.27	0.16	4.10	1.80	WAIWIRA WARLORD	1148	1161	-9.9	A1/A2	34
0.62	0.71	200 /	108	44	-102	25	8	0.52	0.20	4.94	1.90	PRIESTS SIERRA	1380	1380	-7.4	A2/A2	43
0.91	0.14	217 / 60	90	74	-77	16	9	0.33	0.20	5.04	2.22	PRIESTS SIERRA	1283	1323	-9.4	A2/A2	34
0.45	0.24	273 / 44	105	123	-58	21	10	0.41	0.20	6.67	2.10	TIRONUI LT BESIEGE ET	1255	1286	-3.2	A2/A2	44
0.55	1.02	120 / 34	44	41	-273	9	0	0.35	0.18	5.30	1.95	GREENWELL BLACKHAWK	1288	1339	0.6	A2/A2	45
0.36	0.33	195 / 77	102	65	-26	14	12	0.26	0.22	5.10	2.00	SERPENTINE CRUSADER	1206	1212	1.0	A2/A2	34
0.28	0.53	240 / 62	106	84	-144	15	11	0.36	0.28	4.40	2.10	HOWIES ARKAN RAMADA ET	1240	1257	-4.5	A1/A2	43
0.78	0.51	197 / 57	122	32	-160	22	11	0.50	0.29	4.70	2.20	PILSENS TITAN	1261	1303	-6.4	A1/A2	44
0.70	0.38	201 / 68	120	42	-57	22	12	0.43	0.24	4.90	2.10	PUKEROA TGM MANZELLO	1229	1273	-3.5	A2/A2	34
1.26	0.49	155 / 51	68	63	-321	14	2	0.50	0.23	6.03	1.99	CRESCENT EXCELL MISTY ET	1278	1332	0.2	A2/A2	46
0.23	0.62	184 / 69	104	15	-410	18	5	0.63	0.36	4.30	1.90	PUKEROA TGM MANZELLO	1292	1315	-6.6	A2/A2	34
0.60	0.57	277 / 54	97	127	-2	18	10	0.32	0.18	4.30	1.70	CARSONS FM CAIRO S3F	1284	1344	-4.9	A2/A2	50
0.30	0.15	231 / 60	104	82	-92	21	9	0.43	0.21	5.40	2.50	PRIESTS SIERRA	1178	1196	-4.1	A2/A2	51
0.32	0.13	225 / 53	99	86	-61	16	10	0.32	0.22	5.60	2.00	GLEN KORU EPIC	1144	1185	-1.1	A2/A2	51
0.30	0.15	245 / 54	107	81	29	16	13	0.25	0.21	4.10	2.10	GLEN KORU EPIC	1228	1235	-0.3	A2/A2	51
0.77	0.53	265 / 54	111	102	-53	25	9	0.48	0.19	5.30	1.90	CRESCENT EXCELL MISTY ET	1144	1203	-1.0	A2/A2	51
0.65	0.26	248 / 53	95	103	-324	19	5	0.58	0.29	5.80	2.20	VAN STRAALENS G-FORCE	1240	1289	-1.9	A1/A2	50

KEGZYS REMARKABLE

CROSSANS CRITICAL-ET

TARAMONT SPRINGTIDE

WALTON INFERNO

BALDRICKS TOUCHDOWN

WERDERS PREMONITION \*

HORIZON BARNSTORMER-ET

DEANS PROFESSIONAL \*

DOWSON HONENUI-ET \*

GLEN KORU EPIC



# TOP 5 PERFORMERS

Breeding Worth

New Zealand herd crossbred average NZD\$138

Bull Code	Name	gBW/Rel%	Page
518038	WERDERS PREMONITION *	441/82	43
520085	SNOWLINE BENJI *	422/62	46
516066	WALTON INFERNO	414/90	41
520048	BALDRICKS TOUCHDOWN	409/60	45
FR6892	LIC MOOREHILL MAX *	391/59	50

Protein

New Zealand herd crossbred average 15kg/3.96%

Bull Code	Name	Protein (kg/%)	Page
517055	TARAMONT SPRINGTIDE	43/4.0	34
516074	CROSSANS CRITICAL-ET	39/3.9	40
517043	GLEN KORU PROCLAIMER-ET	33/4.2	39
FR6892	LIC MOOREHILL MAX *	32/4.0	50
518063	VAN STRAALENS SAFARI *	32/4.0	38

Fertility

New Zealand herd crossbred average 0.1%

Bull Code	Name	Fertility (%)	Page
JE6898	LIC MOOREHILL GALAXY *	8.6	51
518019	DIGGS HARDCOPY *	7.9	39
518017	HORIZON BARNSTORMER-ET	6.7	34
515059	TAUNTS REVENGE	5.7	34
511011	PRIESTS SIERRA *	5.2	38

SCC

New Zealand herd crossbred average 0.00

Bull Code	Name	SCC	Page
517026	HOWSES SPRINGFIELD	-0.71	41
518019	DIGGS HARDCOPY *	-0.65	39
516066	WALTON INFERNO	-0.60	41
JE6895	LIC BROOKLAWN MOONLIGHT ECLIPS *	-0.49	51
518038	WERDERS PREMONITION *	-0.40	43

Udder Overall

New Zealand herd crossbred average 0.18

Bull Code	Name	Udder Overall	Page
517055	TARAMONT SPRINGTIDE	1.05	34
520033	DOWSON HONENUI-ET	1.02	45
518063	VAN STRAALENS SAFARI *	0.76	38
517042	LUCK-AT-LAST INSPIRED-ET	0.73	42
518038	WERDERS PREMONITION *	0.71	43

EBI

Bull Code	Name	EBI (€)	Page
518019	DIGGS HARDCOPY *	299/58	39
FR6892	LIC MOOREHILL MAX *	277/54	50
518072	DEANS PROFESSIONAL *	273/44	44
JE7194	LIC NEWBAWN LILY *	265/54	51
JE6886	LIC KILVOIGE AARON *	248/53	50

Fat

New Zealand herd crossbred average 15kg/4.88%

Bull Code	Name	Fat (kg/%)	Page
518038	WERDERS PREMONITION *	59/6.0	43
520085	SNOWLINE BENJI *	53/5.8	46
517043	GLEN KORU PROCLAIMER-ET	51/5.5	39
FR6892	LIC MOOREHILL MAX *	47/5.2	50
517055	TARAMONT SPRINGTIDE	46/4.9	34

Milk Volume

New Zealand herd crossbred average 169 litres

Bull Code	Name	Volume (l)	Page
516074	CROSSANS CRITICAL-ET	904	40
517055	TARAMONT SPRINGTIDE	799	34
FR6892	LIC MOOREHILL MAX *	547	50
518063	VAN STRAALENS SAFARI *	494	38
FR6823	LIC KILVOIGE STEPHEN *	427	51

Capacity

New Zealand herd crossbred average 0.21

Bull Code	Name	Capacity	Page
520007	JULIAN STRAIGHT UP	1.26	46
515068	WOODWARDS SPOT ON	1.17	42
518017	HORIZON BARNSTORMER-ET	0.91	34
517055	TARAMONT SPRINGTIDE	0.91	34
517026	HOWSES SPRINGFIELD	0.90	41

Heifer Calving Difficulty

New Zealand herd crossbred average 0.0

Bull Code	Name	Calving Difficulty	Page
518019	DIGGS HARDCOPY *	-2.9/42	39
520033	DOWSON HONENUI-ET	-2.8/75	45
515059	TAUNTS REVENGE	-2.4/53	34
515062	DUGGANS GAMEPLAN *	-2.3/94	34
JE6886	LIC KILVOIGE AARON *	-1.7/20	50

# KIWICROSS® - GRADUATION TIME

by Adrian Young, LIC senior sire analyst

The past two Animal Evaluation runs have been extremely satisfying for LIC’s livestock selection team.

In the KiwiCross space, we’ve seen some great performances in the daughters of our bulls. Of the top 20 crossbred graduates on BW, 18 have come from the LIC stable. Outlined below are a selection of outstanding graduates. Using the Forward Pack and Sexed teams is an excellent opportunity to access the bulls, which are especially chosen based on their genomic potential. Now that we have daughter proofs this simply reinforces the extra BW points that are on offer throughout these teams.

## 518038 Werders Premonition:

Topping the RAS List, and bred by Thomas & Courtney Werder of Patea, this bull was profiled in the last edition of The Bulletin, and it appears he’s come good on his potential. Now with 132 herd tested daughters and 87 TOP (traits other than production) daughter inspections done, Premonition has an udder overall gBV of 0.71 and capacity gBV of 0.62. Sitting at 441gBW, Premonition is part of the KiwiCross Forward Pack and KiwiCross yearling friendly team. A Priests Sierra son, he looks set for a considerable stint on the RAS list, with rock-solid cows in his back pedigree.



Homebrew has 90 daughters herd tested and 85 TOP tested daughters. At 66kgs of milksolids, he provides an excellent return, and this helps usher Homebrew into the Premier Club Team. Homebrew’s dam is now in her fifth lactation and during that time her Lactation Worth (LW) has not dipped below 420. She remains a contract mate cow and has two daughters who are also contracted for 2021. There have been great expectations of Homebrew, and they’ve never disappointed.

\* Sexed semen is offered for Single AI use only. See page 12 for more information.





Daughter of SIERRA

**ZSP PRIESTS  
SIERRA**

EBI/REL  
**173/95%**

**IRELAND VALUES**

Milk Prod SI	103	Survival	1.20
Fertility SI	43	Cow Calving Difficulty	2.40
Calving SI	42	Heifer Calving Difficulty	5.90
Beef SI	-31	Somatic Cell Count	0.02
Health SI	-7	Milk kg	20
Maintenance SI	17	Fat kg/%	20/0.34
Management SI	6	Protein kg/%	11/0.17
Calving Interval (days)	-2.24	Pedigree Status	SRM

**NEW ZEALAND DETAILS** 84038 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **329/98%**

**Breeding Details**

Split F11J5

Sire FAIRMONT MINT-EDITION

MGS INGRAMS RAMROD

MGGS AMADEUS JC12

Milk	316	Milkfat	42/5.3	Protein	27/4.1
Somatic Cell Count	-0.15	Cow Calving Diff	0.2/99	Heifer Calving Diff	2.4/99
Gestation Length	-6.5	Body Condition	0.05	Functional Survival	3.4
Fertility	5.2	Liveweight	36		

**NZ Evaluation Data** 548 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.59				
Shed Temperament	0.62				
Milking Speed	0.02				
Overall Opinion	0.51				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.57				
Capacity	0.51				
Rump Angle	-0.02				
Rump Width	0.05				
Legs	0.11				
Udder Support	0.53				
Front Udder	0.39				
Rear Udder	0.53				
Front Teat Placement	0.22				
Rear Teat Placement	1.03				
Teat Length	-0.77				
Udder Overall	0.48				
Dairy Conformation	0.61				

**LIC Initiatives**

High Input	Once-A-Day	A2 Protein
1305	1267	A2/A2



Half Sister of SAFARI

**TBC VAN STRAALENS  
SAFARI**

EBI/REL  
**206/55%**

**IRELAND VALUES**

Milk Prod SI	94	Survival	1.21
Fertility SI	50	Cow Calving Difficulty	1.89
Calving SI	40	Heifer Calving Difficulty	5.57
Beef SI	-53	Somatic Cell Count	-0.15
Health SI	13	Milk kg	6
Maintenance SI	53	Fat kg/%	14/0.24
Management SI	9	Protein kg/%	11/0.19
Calving Interval (days)	-2.78	Pedigree Status	-

**NEW ZEALAND DETAILS** 95 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **317/80%**

**Breeding Details**

Split F11J5

Sire MOORBYS FM GRANITE S2F

MGS ARKANS PROMOTER

MGGS EWINGS IMPERIAL

Milk	494	Milkfat	33/4.9	Protein	32/4.0
Somatic Cell Count	-0.25	Cow Calving Diff	-0.9/90	Heifer Calving Diff	0.4/79
Gestation Length	-0.7	Body Condition	0.13	Functional Survival	2.5
Fertility	-1.1	Liveweight	-5		

**NZ Evaluation Data** 93 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.22				
Shed Temperament	0.22				
Milking Speed	0.11				
Overall Opinion	0.31				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.36				
Capacity	0.71				
Rump Angle	-0.17				
Rump Width	0.56				
Legs	0.15				
Udder Support	0.64				
Front Udder	0.54				
Rear Udder	0.71				
Front Teat Placement	0.33				
Rear Teat Placement	0.38				
Teat Length	-0.87				
Udder Overall	0.76				
Dairy Conformation	0.67				

**LIC Initiatives**

High Input	Once-A-Day	A2 Protein
1305	1288	A2/A2



Daughter of PROCLAIMER

**FR6799 GLEN KORU  
PROCLAIMER-ET**

EBI/REL  
**183/62%**

**IRELAND VALUES**

Milk Prod SI	141	Survival	1.42
Fertility SI	24	Cow Calving Difficulty	2.50
Calving SI	31	Heifer Calving Difficulty	5.80
Beef SI	-35	Somatic Cell Count	0.13
Health SI	-4	Milk kg	101
Maintenance SI	23	Fat kg/%	26/0.38
Management SI	3	Protein kg/%	16/0.22
Calving Interval (days)	-0.50	Pedigree Status	-

**NEW ZEALAND DETAILS** 2191 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **378/91%**

**Breeding Details**

Split F11J5

Sire GYDELAND EXCEL INCA S3F

MGS NEVRON SHOWMAN

MGGS SCOTTS NORTHSEA

Milk	300	Milkfat	51/5.5	Protein	33/4.2
Somatic Cell Count	0.15	Cow Calving Diff	0/97	Heifer Calving Diff	1.3/88
Gestation Length	2.1	Body Condition	0.05	Functional Survival	2.9
Fertility	-5.2	Liveweight	1		

**NZ Evaluation Data** 113 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.43				
Shed Temperament	0.44				
Milking Speed	0.01				
Overall Opinion	0.52				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.11				
Capacity	0.54				
Rump Angle	0.11				
Rump Width	-0.47				
Legs	0.04				
Udder Support	0.21				
Front Udder	0.09				
Rear Udder	0.30				
Front Teat Placement	-0.03				
Rear Teat Placement	0.08				
Teat Length	-0.06				
Udder Overall	0.20				
Dairy Conformation	0.49				

**LIC Initiatives**

High Input	Once-A-Day	A2 Protein
1301	1310	A2/A2



Half Sister of HARDCOPY

**TBC DIGGS  
HARDCOPY**

EBI/REL  
**299/58%**

**IRELAND VALUES**

Milk Prod SI	81	Survival	2.32
Fertility SI	138	Cow Calving Difficulty	1.57
Calving SI	45	Heifer Calving Difficulty	4.43
Beef SI	-57	Somatic Cell Count	-0.13
Health SI	20	Milk kg	-357
Maintenance SI	61	Fat kg/%	14/0.52
Management SI	12	Protein kg/%	3/0.29
Calving Interval (days)	-8.69	Pedigree Status	-

**NEW ZEALAND DETAILS** 85 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **387/80%**

**Breeding Details**

Split F10J6

Sire DRYSDALES SOVEREIGN

MGS ANNALYSER

MGGS BAGWORTH LEADERSHIP

Milk	-157	Milkfat	35/5.7	Protein	18/4.3
Somatic Cell Count	-0.65	Cow Calving Diff	-0.7/68	Heifer Calving Diff	-2.9/42
Gestation Length	-7.5	Body Condition	0.16	Functional Survival	1.7
Fertility	7.9	Liveweight	-1		

**NZ Evaluation Data** 78 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.27				
Shed Temperament	0.28				
Milking Speed	-0.05				
Overall Opinion	0.30				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.36				
Capacity	0.39				
Rump Angle	-0.58				
Rump Width	-0.19				
Legs	0.09				
Udder Support	0.25				
Front Udder	0.14				
Rear Udder	0.10				
Front Teat Placement	-0.02				
Rear Teat Placement	-0.23				
Teat Length	0.42				
Udder Overall	0.20				
Dairy Conformation	0.34				

**LIC Initiatives**

High Input	Once-A-Day	A2 Protein
1312	1272	A2/A2







Daughter of CRITICAL

**FR5989** CROSSANS  
**CRITICAL-ET** EBI/REL  
**210/64%**

IRELAND VALUES

Milk Prod SI	105	Survival	2.79
Fertility SI	55	Cow Calving Difficulty	1.90
Calving SI	46	Heifer Calving Difficulty	4.30
Beef SI	-64	Somatic Cell Count	-0.05
Health SI	7	Milk kg	244
Maintenance SI	49	Fat kg/%	19/0.16
Management SI	13	Protein kg/%	15/0.11
Calving Interval (days)	-1.60	Pedigree Status	-

NEW ZEALAND DETAILS 2814 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **313/96%**

**Breeding Details**

Split	F10J6
Sire	KRAAKMANS JAYDIE
MGS	ALCAMEÑO COMMANDER
MGGS	DAYSH'S LANDMARK GR

Milk	904	Milkfat	37/4.6	Protein	39/3.9
Somatic Cell Count	-0.34	Cow Calving Diff	-0.2/97	Heifer Calving Diff	-0.9/99
Gestation Length	-7.7	Body Condition	0.10	Functional Survival	2.2
Fertility	-3.6	Liveweight	0		

NZ Evaluation Data 111 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.38				
Shed Temperament	0.39				
Milking Speed	0.13				
Overall Opinion	0.43				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.42				
Capacity	0.72				
Rump Angle	0.00				
Rump Width	-0.34				
Legs	0.17				
Udder Support	0.49				
Front Udder	0.47				
Rear Udder	0.42				
Front Teat Placement	0.40				
Rear Teat Placement	0.89				
Teat Length	0.06				
Udder Overall	0.54				
Dairy Conformation	0.55				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1288	1292	A2/A2



Daughter of REMARKABLE

**FR6748** KEGZY'S  
**REMARKABLE** EBI/REL  
**184/59%**

IRELAND VALUES

Milk Prod SI	85	Survival	0.73
Fertility SI	60	Cow Calving Difficulty	2.00
Calving SI	45	Heifer Calving Difficulty	4.20
Beef SI	-41	Somatic Cell Count	0.01
Health SI	-2	Milk kg	-219
Maintenance SI	33	Fat kg/%	15/0.42
Management SI	4	Protein kg/%	6/0.24
Calving Interval (days)	-4.06	Pedigree Status	-

NEW ZEALAND DETAILS 91 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **332/86%**

**Breeding Details**

Split	F10J6
Sire	DRYSDALES SOVEREIGN
MGS	FAIRMONT MINT-EDITION
MGGS	OKURA MANHATTAN ET SJ3

Milk	276	Milkfat	44/5.4	Protein	32/4.2
Somatic Cell Count	-0.10	Cow Calving Diff	0.1/81	Heifer Calving Diff	-0.5/45
Gestation Length	-1.3	Body Condition	0.02	Functional Survival	2.6
Fertility	-1.6	Liveweight	24		

NZ Evaluation Data 86 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.40				
Shed Temperament	0.41				
Milking Speed	0.07				
Overall Opinion	0.49				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.37				
Capacity	0.46				
Rump Angle	0.12				
Rump Width	0.36				
Legs	0.04				
Udder Support	0.75				
Front Udder	0.57				
Rear Udder	0.36				
Front Teat Placement	0.17				
Rear Teat Placement	0.24				
Teat Length	0.00				
Udder Overall	0.64				
Dairy Conformation	0.49				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1315	1305	A1/A2



Daughter of INFERNO

**JE6805** WALTON  
**INFERNO** EBI/REL  
**214/61%**

IRELAND VALUES

Milk Prod SI	92	Survival	3.21
Fertility SI	72	Cow Calving Difficulty	1.50
Calving SI	43	Heifer Calving Difficulty	4.20
Beef SI	-52	Somatic Cell Count	-0.09
Health SI	6	Milk kg	-177
Maintenance SI	40	Fat kg/%	12/0.34
Management SI	12	Protein kg/%	9/0.27
Calving Interval (days)	-2.54	Pedigree Status	-

NEW ZEALAND DETAILS 119 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **414/90%**

**Breeding Details**

Split	F9J7
Sire	PRIESTS SOLARIS-ET
MGS	HOWIES CHECKPOINT
MGGS	WOODCOTE TF MAXIMISER

Milk	117	Milkfat	38/5.4	Protein	31/4.3
Somatic Cell Count	-0.60	Cow Calving Diff	-0.8/98	Heifer Calving Diff	-1.4/99
Gestation Length	-8.3	Body Condition	0.10	Functional Survival	2.6
Fertility	4.3	Liveweight	-2		

NZ Evaluation Data 107 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.48				
Shed Temperament	0.50				
Milking Speed	0.12				
Overall Opinion	0.44				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.03				
Capacity	0.28				
Rump Angle	-0.14				
Rump Width	-0.26				
Legs	-0.06				
Udder Support	0.33				
Front Udder	0.35				
Rear Udder	0.04				
Front Teat Placement	0.52				
Rear Teat Placement	0.72				
Teat Length	-0.32				
Udder Overall	0.38				
Dairy Conformation	0.37				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1337	1325	A2/A2



Daughter of SPRINGFIELD

**FR6790** HOWSES  
**SPRINGFIELD** EBI/REL  
**236/60%**

IRELAND VALUES

Milk Prod SI	112	Survival	1.41
Fertility SI	67	Cow Calving Difficulty	1.90
Calving SI	48	Heifer Calving Difficulty	4.30
Beef SI	-48	Somatic Cell Count	-0.19
Health SI	15	Milk kg	-117
Maintenance SI	41	Fat kg/%	20/0.43
Management SI	2	Protein kg/%	10/0.25
Calving Interval (days)	-3.95	Pedigree Status	-

NEW ZEALAND DETAILS 1998 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **258/91%**

**Breeding Details**

Split	F9J7
Sire	DRYSDALES SOVEREIGN
MGS	ARKANS BOOMTOWN
MGGS	FAIRMONT MINT-EDITION

Milk	-526	Milkfat	27/6.0	Protein	11/4.5
Somatic Cell Count	-0.71	Cow Calving Diff	-0.8/96	Heifer Calving Diff	-0.9/98
Gestation Length	-2.1	Body Condition	0.11	Functional Survival	2.0
Fertility	-2.4	Liveweight	10		

NZ Evaluation Data 98 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.25				
Shed Temperament	0.25				
Milking Speed	0.09				
Overall Opinion	0.35				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.03				
Capacity	0.90				
Rump Angle	0.46				
Rump Width	0.22				
Legs	0.28				
Udder Support	0.62				
Front Udder	0.53				
Rear Udder	0.22				
Front Teat Placement	0.36				
Rear Teat Placement	0.78				
Teat Length	-0.83				
Udder Overall	0.53				
Dairy Conformation	0.60				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1250	1248	A2/A2





Daughter of INSPIRED

**FR6793 LUCK-AT-LAST** EBI/REL  
**INSPIRED-ET** **190/57%**

IRELAND VALUES

Milk Prod SI	106	Survival	1.52
Fertility SI	46	Cow Calving Difficulty	1.70
Calving SI	45	Heifer Calving Difficulty	5.50
Beef SI	-27	Somatic Cell Count	0.12
Health SI	-9	Milk kg	20
Maintenance SI	26	Fat kg/%	19/0.32
Management SI	2	Protein kg/%	12/0.19
Calving Interval (days)	-2.15	Pedigree Status	-

NEW ZEALAND DETAILS 1908 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **298/91%**

**Breeding Details**

Split F9J7

Sire SAN RAY FM BEAMER-ET S2F

MGS LYNBROOK RG TERRIFIC ET

MGGS SCOTTS NORTHSEA

Milk	295	Milkfat	38/5.2	Protein	23/4.0
Somatic Cell Count	0.08	Cow Calving Diff	-0.5/95	Heifer Calving Diff	0.1/98
Gestation Length	-6.1	Body Condition	0.10	Functional Survival	2.4
Fertility	-3.4	Liveweight	-16		

NZ Evaluation Data 104 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.22				
Shed Temperament	0.21				
Milking Speed	0.24				
Overall Opinion	0.36				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.52				
Capacity	0.71				
Rump Angle	0.27				
Rump Width	0.52				
Legs	0.34				
Udder Support	0.75				
Front Udder	0.52				
Rear Udder	1.01				
Front Teat Placement	-0.06				
Rear Teat Placement	0.44				
Teat Length	-0.29				
Udder Overall	0.73				
Dairy Conformation	0.63				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1291	1281	A2/A2



Daughter of SPOT ON

**FR4965 WOODWARDS** EBI/REL  
**SPOT ON** **196/64%**

IRELAND VALUES

Milk Prod SI	115	Survival	3.22
Fertility SI	66	Cow Calving Difficulty	2.30
Calving SI	20	Heifer Calving Difficulty	5.90
Beef SI	-45	Somatic Cell Count	0.04
Health SI	-3	Milk kg	24
Maintenance SI	42	Fat kg/%	22/0.36
Management SI	1	Protein kg/%	12/0.2
Calving Interval (days)	-2.09	Pedigree Status	-

NEW ZEALAND DETAILS 87 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **297/88%**

**Breeding Details**

Split F9J7

Sire VANSTRAALENS VIBE

MGS SCOTTS NORTHSEA

MGGS HAZAEL EMINENCE DANO-ET

Milk	80	Milkfat	35/5.4	Protein	20/4.1
Somatic Cell Count	0.01	Cow Calving Diff	-0.5/96	Heifer Calving Diff	-0.6/99
Gestation Length	2.0	Body Condition	0.15	Functional Survival	3.1
Fertility	1.2	Liveweight	7		

NZ Evaluation Data 85 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.29				
Shed Temperament	0.30				
Milking Speed	0.11				
Overall Opinion	0.33				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.18				
Capacity	1.17				
Rump Angle	-0.35				
Rump Width	0.09				
Legs	0.02				
Udder Support	0.32				
Front Udder	0.30				
Rear Udder	0.28				
Front Teat Placement	-0.10				
Rear Teat Placement	0.21				
Teat Length	0.05				
Udder Overall	0.24				
Dairy Conformation	0.88				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1275	1244	A2/A2



Dam of PREMONITION

**TBC WERDERS** EBI/REL  
**PREMONITION** **200/56%**

IRELAND VALUES

Milk Prod SI	108	Survival	1.54
Fertility SI	44	Cow Calving Difficulty	1.90
Calving SI	37	Heifer Calving Difficulty	4.94
Beef SI	-49	Somatic Cell Count	-0.03
Health SI	5	Milk kg	-102
Maintenance SI	49	Fat kg/%	25/0.52
Management SI	7	Protein kg/%	8/0.20
Calving Interval (days)	-2.01	Pedigree Status	-

NEW ZEALAND DETAILS 132 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **441/82%**

**Breeding Details**

Split J8F8

Sire PRIESTS SIERRA

MGS MARSDEN NN EXCELL ET

MGGS ADAMS ROCKHARD-ET

Milk	29	Milkfat	59/6.0	Protein	26/4.3
Somatic Cell Count	-0.40	Cow Calving Diff	-0.2/91	Heifer Calving Diff	-0.1/97
Gestation Length	-7.4	Body Condition	0.06	Functional Survival	4.2
Fertility	-1.5	Liveweight	13		

NZ Evaluation Data 87 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.62				
Shed Temperament	0.63				
Milking Speed	0.32				
Overall Opinion	0.71				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.14				
Capacity	0.62				
Rump Angle	-0.16				
Rump Width	-0.11				
Legs	0.01				
Udder Support	0.65				
Front Udder	0.67				
Rear Udder	0.68				
Front Teat Placement	0.33				
Rear Teat Placement	0.89				
Teat Length	-0.38				
Udder Overall	0.71				
Dairy Conformation	0.69				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1380	1380	A2/A2



Daughter of KARTELL

**JE6007 LYNBROOK** EBI/REL  
**KARTELL** **240/62%**

IRELAND VALUES

Milk Prod SI	106	Survival	2.90
Fertility SI	84	Cow Calving Difficulty	2.10
Calving SI	42	Heifer Calving Difficulty	4.40
Beef SI	-47	Somatic Cell Count	0.02
Health SI	0	Milk kg	-144
Maintenance SI	49	Fat kg/%	15/0.36
Management SI	7	Protein kg/%	11/0.28
Calving Interval (days)	-3.80	Pedigree Status	XSR

NEW ZEALAND DETAILS 80 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **282/88%**

**Breeding Details**

Split J8F7

Sire HOWIES ARKAN RAMADA ET

MGS OKURA LIKA MURMUR S3J

MGGS SCOTTS NORTHSEA

Milk	-2	Milkfat	26/5.3	Protein	23/4.3
Somatic Cell Count	0.24	Cow Calving Diff	-0.8/95	Heifer Calving Diff	-0.8/99
Gestation Length	-4.5	Body Condition	-0.03	Functional Survival	0.8
Fertility	2.6	Liveweight	-19		

NZ Evaluation Data 73 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.23				
Shed Temperament	0.22				
Milking Speed	0.33				
Overall Opinion	0.28				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.56				
Capacity	0.28				
Rump Angle	0.08				
Rump Width	0.41				
Legs	0.29				
Udder Support	0.35				
Front Udder	0.62				
Rear Udder	0.66				
Front Teat Placement	0.04				
Rear Teat Placement	-0.01				
Teat Length	-0.03				
Udder Overall	0.53				
Dairy Conformation	0.13				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1257	1240	A1/A2







**TBC DEANS PROFESSIONAL** EBI/REL  
**273/44%**

IRELAND VALUES

Milk Prod SI	105	Survival	7.70
Fertility SI	123	Cow Calving Difficulty	2.10
Calving SI	27	Heifer Calving Difficulty	6.67
Beef SI	0	Somatic Cell Count	-0.06
Health SI	12	Milk kg	-58
Maintenance SI	1	Fat kg/%	21/0.41
Management SI	5	Protein kg/%	10/0.20
Calving Interval (days)	-2.14	Pedigree Status	-

NEW ZEALAND DETAILS 96 NZ Daughters

HoofPrint®

gBW/Rel **354/80%**

Nitrogen Efficiency

Methane Efficiency

**Breeding Details**

Split J9F7

Sire TIRONUI LT BESIEGE ET

MGS WHINLEA PF ESTEEM-ET S2F

MGGS FAIRMONT MINT-EDITION

Milk	235	Milkfat	42/5.4	Protein	22/4.0
Somatic Cell Count	0.04	Cow Calving Diff	0.4/96	Heifer Calving Diff	-0.1/97
Gestation Length	-3.2	Body Condition	0.27	Functional Survival	4.2
Fertility	3.6	Liveweight	8		

NZ Evaluation Data 87 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.28				
Shed Temperament	0.27				
Milking Speed	0.35				
Overall Opinion	0.42				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.09				
Capacity	0.45				
Rump Angle	-0.08				
Rump Width	0.38				
Legs	-0.02				
Udder Support	0.28				
Front Udder	0.18				
Rear Udder	0.28				
Front Teat Placement	-0.10				
Rear Teat Placement	-0.14				
Teat Length	0.58				
Udder Overall	0.24				
Dairy Conformation	0.65				

LIC Initiatives		
High Input	Once-A-Day	A2 Protein
1286	1255	A2/A2



*Daughter of DUEL*  
**JE6745 VAN STRAALENS DUEL** EBI/REL  
**197/57%**

IRELAND VALUES

Milk Prod SI	122	Survival	1.35
Fertility SI	32	Cow Calving Difficulty	2.20
Calving SI	47	Heifer Calving Difficulty	4.70
Beef SI	-37	Somatic Cell Count	0.09
Health SI	-1	Milk kg	-160
Maintenance SI	25	Fat kg/%	22/0.5
Management SI	9	Protein kg/%	11/0.29
Calving Interval (days)	-1.22	Pedigree Status	XSR

NEW ZEALAND DETAILS 101 NZ Daughters

HoofPrint®

gBW/Rel **309/90%**

Nitrogen Efficiency

Methane Efficiency

**Breeding Details**

Split J10F6

Sire PILSENS TITAN

MGS KIRKS RI CHARISMA ET GR

MGGS SRB CORBOYS LIGHTENING

Milk	-81	Milkfat	38/5.7	Protein	20/4.3
Somatic Cell Count	0.06	Cow Calving Diff	-0.5/76	Heifer Calving Diff	0.1/61
Gestation Length	-6.4	Body Condition	0.12	Functional Survival	0.8
Fertility	2.7	Liveweight	17		

NZ Evaluation Data 97 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.21				
Shed Temperament	0.21				
Milking Speed	0.06				
Overall Opinion	0.24				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.07				
Capacity	0.78				
Rump Angle	-0.21				
Rump Width	-0.08				
Legs	0.28				
Udder Support	0.62				
Front Udder	0.67				
Rear Udder	0.59				
Front Teat Placement	-0.17				
Rear Teat Placement	0.37				
Teat Length	-0.37				
Udder Overall	0.51				
Dairy Conformation	0.66				

LIC Initiatives		
High Input	Once-A-Day	A2 Protein
1303	1261	A1/A2



*Half Sister of TOUCHDOWN*  
**TBC BALDRICKS TOUCHDOWN** EBI/REL  
**172/45%**

IRELAND VALUES

Milk Prod SI	121	Survival	1.75
Fertility SI	20	Cow Calving Difficulty	2.12
Calving SI	31	Heifer Calving Difficulty	5.84
Beef SI	-47	Somatic Cell Count	0.06
Health SI	3	Milk kg	-74
Maintenance SI	43	Fat kg/%	22/0.45
Management SI	1	Protein kg/%	11/0.25
Calving Interval (days)	0.12	Pedigree Status	-

NEW ZEALAND DETAILS 0 NZ Daughters

HoofPrint®

gBW/Rel **409/60%**

Nitrogen Efficiency

Methane Efficiency

**Breeding Details**

Split F9J7

Sire GLEN KORU PROCLAIMER-ET

MGS LYNBROOK RG TERRIFIC ET

MGGS HOWIES ARKAN RAMADA ET

Milk	-154	Milkfat	43/5.9	Protein	24/4.5
Somatic Cell Count	-0.22	Cow Calving Diff	-0.8/69	Heifer Calving Diff	1.5/34
Gestation Length	1.6	Body Condition	0.18	Functional Survival	2.7
Fertility	-0.3	Liveweight	-13		

NZ Evaluation Data 0 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.31				
Shed Temperament	0.32				
Milking Speed	0.06				
Overall Opinion	0.34				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.26				
Capacity	0.62				
Rump Angle	-0.16				
Rump Width	-0.07				
Legs	0.05				
Udder Support	0.50				
Front Udder	0.35				
Rear Udder	0.61				
Front Teat Placement	0.15				
Rear Teat Placement	0.13				
Teat Length	-0.03				
Udder Overall	0.57				
Dairy Conformation	0.62				

LIC Initiatives		
High Input	Once-A-Day	A2 Protein
1349	1330	A1/A2



*Dam of HONENUI*  
**TBC DOWSON HONENUI-ET** EBI/REL  
**120/34%**

IRELAND VALUES

Milk Prod SI	44	Survival	1.75
Fertility SI	41	Cow Calving Difficulty	1.95
Calving SI	24	Heifer Calving Difficulty	5.30
Beef SI	-1	Somatic Cell Count	-0.03
Health SI	8	Milk kg	-273
Maintenance SI	3	Fat kg/%	9/0.35
Management SI	1	Protein kg/%	0/0.18
Calving Interval (days)	-1.56	Pedigree Status	-

NEW ZEALAND DETAILS 0 NZ Daughters

HoofPrint®

gBW/Rel **330/56%**

Nitrogen Efficiency

Methane Efficiency

**Breeding Details**

Split J9F7

Sire GREENWELL BLACKHAWK

MGS BRADENE MANZ TRUMPET-ET

MGGS TIRONUI MUR KELSTON S3J

Milk	-412	Milkfat	35/6.1	Protein	20/4.6
Somatic Cell Count	0.26	Cow Calving Diff	-1.5/86	Heifer Calving Diff	-2.8/75
Gestation Length	0.6	Body Condition	0.09	Functional Survival	3.8
Fertility	4.2	Liveweight	20		

NZ Evaluation Data 0 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.28				
Shed Temperament	0.28				
Milking Speed	0.07				
Overall Opinion	0.36				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.26				
Capacity	0.55				
Rump Angle	0.21				
Rump Width	0.09				
Legs	0.04				
Udder Support	0.92				
Front Udder	1.04				
Rear Udder	0.75				
Front Teat Placement	0.44				
Rear Teat Placement	0.63				
Teat Length	0.22				
Udder Overall	1.02				
Dairy Conformation	0.59				

LIC Initiatives		
High Input	Once-A-Day	A2 Protein
1339	1288	A2/A2





Half Sister of BENJI

TBC SNOWLINE  
BENJI

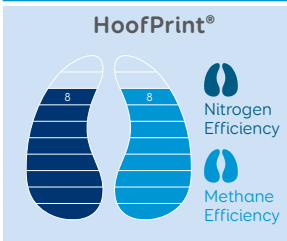
EBI/REL  
199/48%

IRELAND VALUES

Milk Prod SI	99	Survival	0.36
Fertility SI	48	Cow Calving Difficulty	2.41
Calving SI	45	Heifer Calving Difficulty	4.19
Beef SI	-45	Somatic Cell Count	0.05
Health SI	-2	Milk kg	-77
Maintenance SI	43	Fat kg/%	18/0.38
Management SI	12	Protein kg/%	9/0.21
Calving Interval (days)	-3.47	Pedigree Status	-

NEW ZEALAND DETAILS

0 NZ Daughters



gBW/Rel  
422/62%

Breeding Details

Split	F12J4
Sire	GLEN KORU ETHOS-ET S1F
MGS	ARKANS PERSPECTIVE-ET
MGGS	MAIRE PF GOLDEN BOY S2F

Milk	40	Milkfat	53/5.8	Protein	27/4.3
Somatic Cell Count	-0.09	Cow Calving Diff	0.3/74	Heifer Calving Diff	0.5/38
Gestation Length	-5.9	Body Condition	0.19	Functional Survival	2.3
Fertility	3.6	Liveweight	28		

NZ Evaluation Data

0 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.01				
Shed Temperament	0.01				
Milking Speed	-0.01				
Overall Opinion	-0.03				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.30				
Capacity	0.38				
Rump Angle	0.65				
Rump Width	0.05				
Legs	-0.07				
Udder Support	0.18				
Front Udder	0.25				
Rear Udder	0.21				
Front Teat Placement	0.02				
Rear Teat Placement	0.07				
Teat Length	0.02				
Udder Overall	0.21				
Dairy Conformation	0.44				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1332	1300	A1/A2



Sire of STRAIGHT UP

TBC JULIAN  
STRAIGHT UP

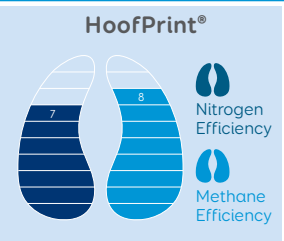
EBI/REL  
155/51%

IRELAND VALUES

Milk Prod SI	68	Survival	1.97
Fertility SI	63	Cow Calving Difficulty	1.99
Calving SI	30	Heifer Calving Difficulty	6.03
Beef SI	-29	Somatic Cell Count	0.02
Health SI	3	Milk kg	-321
Maintenance SI	21	Fat kg/%	14/0.50
Management SI	0	Protein kg/%	2/0.23
Calving Interval (days)	-3.07	Pedigree Status	-

NEW ZEALAND DETAILS

0 NZ Daughters



gBW/Rel  
379/61%

Breeding Details

Split	J11F5
Sire	CRESCENT EXCELL MISTY ET
MGS	SAN RAY FM BEAMER S2F
MGGS	OKURA LIKA MURMUR S3J

Milk	-508	Milkfat	45/6.4	Protein	8/4.4
Somatic Cell Count	-0.10	Cow Calving Diff	-0.6/72	Heifer Calving Diff	-1.4/34
Gestation Length	0.2	Body Condition	0.33	Functional Survival	3.3
Fertility	3.1	Liveweight	4		

NZ Evaluation Data

0 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.06				
Shed Temperament	0.06				
Milking Speed	0.06				
Overall Opinion	0.17				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-0.28				
Capacity	1.26				
Rump Angle	0.35				
Rump Width	0.00				
Legs	0.23				
Udder Support	0.32				
Front Udder	0.54				
Rear Udder	0.56				
Front Teat Placement	0.03				
Rear Teat Placement	-0.22				
Teat Length	0.19				
Udder Overall	0.49				
Dairy Conformation	0.89				

LIC Initiatives

High Input	Once-A-Day	A2 Protein
1332	1278	A2/A2

# CLASSIC BULLS

NZ Bull Code	IREAI Code	Bull Name	EBI/Rel%	Milk Prod SI	Fertility SI	Maintenance SI	Health SI	Milk kg	Fat kg	Fat %	Protein kg	Protein %	Dairy Heifer Calv Diff	Dairy Cow Calv Diff	High Input	A2/A2	gBW/Rel
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Holstein Friesian

108235	MWV	MORTENSENS WE AWE-ET S3F	238/96	62	110	32	8	220	9	0.00	11	0.06	6.10	2.40	1093	A1/A1	104/99
112005	GGP	GOINGS MECCA PRIDE S1F	238/95	86	84	26	4	236	10	0.01	15	0.12	4.50	2.00	1126	A1/A2	150/98
110006	BGJ	BAGWORTH PF GRANDEUR S1F	233/98	69	100	21	10	124	16	0.19	8	0.07	5.20	2.20	1206	A2/A2	195/99
111050	LKL	LASHS MS LEGION S1F	224/86	78	108	11	-2	280	11	0.00	14	0.07	4.30	1.90	1098	A2/A2	81/62
108214	BGU	BAGWORTH RM ARASMUS S2F	202/93	66	88	19	4	136	7	0.04	11	0.10	5.80	2.20	1121	A2/A2	129/90
110063	GFS	MAIRE PF GOLDEN BOY S2F	182/95	73	58	29	10	224	14	0.09	11	0.05	5.00	2.00	1165	A1/A2	169/99
111038	AKZ	ARKAN GH HORIZON S2F	178/96	90	51	9	3	-23	14	0.26	10	0.19	6.80	2.80	1177	A2/A2	139/98
106219	WDS	WHINLEA DAN SUPERSONIC-ET	175/98	83	72	7	6	404	13	-0.05	16	0.03	6.00	2.50	1121	A2/A2	77/99
112050	DGW	VOWLES DREAM GLIDER S2F	152/89	76	43	18	-11	50	18	0.28	7	0.10	5.80	2.00	1187	A1/A2	201/72

Jersey

312059	JE2454	LYNBROOK GG QUICKSILVER	227/70	98	71	59	10	-516	19	0.74	2	0.38	3.20	1.60	1269	A2/A2	329/99
313055	JE2049	GLENUI 5-STAR HARRY ET	222/85	92	74	46	15	-423	16	0.60	4	0.34	2.80	1.40	1236	A2/A2	255/95
313017	JE4502	BONACORD MURMURS BOSWELL	211/67	75	55	67	9	-348	16	0.54	2	0.25	2.90	1.40	1209	A2/A2	277/90
311019	JJS	SOUTH LAND JERICHO ET S3J	192/92	79	59	48	5	-180	10	0.30	7	0.24	3.00	1.40	1128	A2/A2	152/99
312014	YKF	CHARDONNAY FRANKIE	182/87	94	55	44	10	-323	13	0.48	6	0.32	4.30	1.90	1183	A2/A2	261/99
313020	JE4504	CRESCENT OLM ROSCO ET	145/69	76	16	62	7	-136	14	0.34	6	0.19	2.40	1.40	1109	A2/A2	125/96
311022	FCW	HILLSTAR TERRIFIC 5-STAR	134/85	83	1	53	6	-137	11	0.29	8	0.23	3.60	1.70	1163	A2/A2	156/99

KiwiCross®

508140	HOW	HOWIES EASYRIDER	204/96	84	59	45	6	-250	17	0.49	5	0.24	3.30	1.60	1240	A1/A2	285/99
511041	APW	IL VERO AMORE POWER	181/95	105	40	26	-8	114	14	0.15	15	0.18	4.40	1.90	1182	A1/A2	168/99
511007	OKA	CASTLEGRACE MAKO	172/96	87	41	29	1	-264	11	0.39	7	0.29	4.80	2.00	1149	A2/A2	158/99
511052	YMD	MOODYS EXECUTIVE	163/97	89	28	35	1	105	12	0.13	13	0.16	4.68	2.07	1169	A2/A2	196/99
514001	FR2467	OKURA ZIPPA	152/78	93	41	44	0	16	15	0.26	11	0.18	4.90	2.10	1167	A2/A2	230/89



# THE FORWARDS® SIRE TEAM: GOING FROM STRENGTH TO STRENGTH



We are now in the fourth year of the Irish Bull Breeding (IBB) program and have been working with farmers all over Ireland to produce the next generation of The Forwards® bulls. During this time, we have seen a lot of exceptional cows doing in excess of 600-700kg milk solids from less than 0.5T of meal. These cows are still calving down in the first 3 weeks giving the holy grail of fertility and milk with no compromise.

Breeding these proven cows with top-ranked proven sires gives the best chance of producing some very good young bulls for selection as sires.

IBB genomic bulls stand out from the others:

- The Forwards bulls are a genomic team sired by top LIC daughter-proven bulls.

- Genomic selection advances in New Zealand allow us to screen the DNA of our Irish bulls against the NZ reference population in a single step model to obtain a unique genomic BW (gBW). This gives us confidence in the bulls we secure for our program.
- gBW assesses fertility differently, using phenotypes that are more relevant in seasonal calving

systems, where early-calving cows are highly valued. Instead of calving interval, the 6-week calving rate (CR42) is currently used and further enhancements to fertility genetic evaluation are coming soon. This is more appropriate because calving interval can potentially penalise the early-calved fertile cow.<sup>1</sup>

Bull Name	IRE AI code	EBI/Rel%	Milk SI	Fertility SI	Calving	Milk kg	Fat kg/%	Protein kg/%	Dairy Heifer Calv Diff	Dairy Cow Calv Diff
LIC BOPURU BRO	-	278/55	113	124	28	129	25/0.33	12/0.14	7.4	3.0
LIC CLOHANE CRACKER	JEX128	272/54	99	116	28	-186	20/0.49	7/0.24	6.6	2.6
LIC MOOREHILL KAIA	-	263/53	74	126	48	-169	12/0.33	6/0.21	4.4	2.3
LIC MOOREHILL EUPHORIA	-	253/51	95	102	45	-110	18/0.41	8/0.21	3.9	1.8
LIC NEXT GEN IMPOSSIBLE	JE7971	251/55	106	100	29	-248	20/0.54	7/0.28	3.3	1.4
LIC BROOKLAWN TORNADO EX	-	247/55	101	122	36	-28	20/0.37	10/0.19	5.2	2.7
LIC TINNASHRULE TROJAN	JEX122	239/50	97	87	36	-237	20/0.53	6/0.25	5.4	2.4
LIC MUINEMOR DOWLIN	JEX125	238/53	140	66	42	23	30/0.51	14/0.22	5.0	1.3
LIC HILLCAP REBEL	JE7845	214/52	98	78	26	-353	22/0.66	4/0.29	2.9	2.0

Stachowicz, Berry, Cromie and others addressed this issue in their 2018 paper 'Changes to the Genetic Evaluation of Fertility in Irish Dairy Cattle', which concluded - 'For seasonal herds, the introduction of calving rate and conception rate traits offers an opportunity to further enhance the fertility evaluation by better extracting information from calving and mating date phenotypes in seasonal calving herds.'

- gBW includes NZ genomic information, which increases reliability of later-expressed traits such as fertility and longevity.
- LIC breeding experts examine the candidate bull's pedigree, physical attributes and cow family information to increase the accuracy of delivering genetics to further improve the genetic merit of your herd.

## The 2020 intake:

The 2020 intake of bulls has been well received by farmers not just in Ireland but also the UK, France and beyond. Farmers are showing confidence in our genomic evaluation and selection process via demand for The Forwards sexed semen product.

In 2022, The Forwards bull team will be available in sexed for the Irish market, including Moorehill Max (F12J4) with 391 gBW and 277 gEBI. Max is sired by the well-known Carsons FM Cairo (FR4507), he is impressive on fertility at 5.1 gBV. His dam's six-year CI average is 371 days. In addition, we will be providing data profiles of other bulls from The Forwards team on pages 50 & 51 including Kilvoige Aaron, Newbawn Lily, Brooklawn M Eclipse,

Kilvoige Stephen and Moorehill Galaxy.

LIC Ireland proudly presents the latest test bulls to join The Forwards team with this year's new recruits shaping up nicely and some exciting new bulls are coming on-stream. For the first time the 2021 intake will have something for everyone, offering Holstein Friesian, Jersey and KiwiCross sires to choose from. Again, these bulls are from herds that are doing the business on farms reflective of the typical grass-based, spring calving herds of Ireland and New Zealand.

So, let's take a look at these bulls:

## Holstein Friesian:

Martin Kinane's herd outside Tipp town has been the home to the one of the highest EBI herds in Ireland for a long number of years. Martin Kinane has been using LIC genetics for decades, so it is no wonder he has a bull like LIC Bopuru Bro coming through. The prefix for this bull is what The Forwards and Martin's herd are all about. Bopuru is made of Bo (Irish for cow) and Puru (Maori for bull). The dam itself is Martin's favourite cow and he calls her "superb". This cow has achieved 645kgms/yr and 359-day CI over 8 lactations. Bopuru Bro himself sired by Cairo has an €278 gEBI with Milk €113 and Fert €124 and \$383 gBW with a 7.5 Fert BV. Solids are high for the F15 bull. At 540kg liveweight, this bull will fit into any breeding program.

## KiwiCross®:

LIC Clohane Cracker's dam has been on the radar for the last two years, as she had all the attributes of a bull mother that you would like to see. She is a hardworking cow in a large commercial herd and doing

the production with no special treatment. The 536kg liveweight dam is producing 600kgms/lactation on average over the last 6 lactations, while still achieving 364 CI. And now to top it off, this West Cork cow has bred Clohane Cracker. Sired by Riverview and Dexter, Cracker has an €272 gEBI with Milk €99 and Fert €116, and \$318 gBW with 3.4 Fert gBV.

## Jersey:

The NZ Jerseys have been making noise since they arrived in Moorepark in 2018. Nextgen Hillstar Penny is the dam of LIC Next Gen Impossible. Penny by name but pounds by production, Penny has produced 505kgms/lactation as a mature 454kg cow while holding onto a 369-day CI. Impossible will increase your solids without increasing litres over the Irish base cow and is ideal for farmers who want more solids but want to supply less litres. Sired by Irish favourite Gallivant.

Just a taste of the bulls coming through our breeding programme and the values that drive our selection process.

For advice on how to use The Forwards bulls as part of your breeding programme or to order, contact your LIC Ireland breeding advisor.

1. Stachowicz, K., Jenkins, G.M., Amer, P.R., Berry, D.P., Kelleher, M.M., Kearney, F.F., Evans, R.D., and Cromie, A.R. 2018. Changes to Genetic evaluation of Fertility in Irish Dairy Cattle. Proceedings of the Interbull Meeting in Auckland, New Zealand. February 10-12 2018. Interbull Bulletin 53, 57-62

gBW/Rel%	Fertility BV	Milk Volume BV (l)	Fat BV (kg/%)	Protein (kg/%)	SCC BV	Heifer Calving Diff BV	Cow Calving Diff BV	Functional Survival	Liveweight BV	Sire Name	A2 Status
383/59	7.5	404	47/5.3	28/4.0	-0.27	0.5	-0.1	3.1	38	CARSONS FM CAIRO S3F	A1/A2
318/57	3.4	135	36/5.4	21/4.1	-0.36	0.2	0.2	4.3	21	RIVERVIEW AND DEXTER	A2/A2
251/54	4.8	-8	20/5.2	18/4.2	-0.18	-1.0	-0.7	1.0	4	LYNBROOK KARTELL	A2/A2
288/56	0.7	12	31/5.4	16/4.1	0.13	-1.0	-0.6	1.0	-34	LYNBROOK KARTELL	A1/A2
273/57	6.0	-391	22/5.7	8/4.3	0.29	-2.2	-1.0	-0.6	-35	ULMARRA TT GALLIVANT	A2/A2
238/59	1.2	163	30/5.2	17/4.0	-0.34	1.2	0.1	4.0	39	HYJINKS SNAPPER	A2/A2
378/56	8.1	220	46/5.5	24/4.1	-0.21	-1.6	-0.4	2.5	28	ULMARRA TT GALLIVANT	A1/A2
328/58	3.1	25	42/5.6	21/4.2	0.09	-0.6	-0.5	3.2	33	ULMARRA TT GALLIVANT	A1/A2
318/56	5.6	-279	32/5.8	8/4.2	0.19	-1.9	-0.9	1.7	-31	ULMARRA TT GALLIVANT	A2/A2





**FR6892 LIC MOOREHILL MAX** EBI/REL **277/54%**

IRELAND VALUES				
Milk Prod SI	97	Survival	2.91	
Fertility SI	127	Cow Calving Difficulty	1.70	
Calving SI	52	Heifer Calving Difficulty	4.30	
Beef SI	-29	Somatic Cell Count	-0.09	
Health SI	3	Milk kg	-2	
Maintenance SI	24	Fat kg/%	18/0.32	
Management SI	2	Protein kg/%	10/0.18	
Calving Interval (days)	-7.19	Pedigree Status	-	

NEW ZEALAND DETAILS 0 NZ Daughters

HoofPrint®

8

8

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **391/59%**

Breeding Details

Split

F12J4

Sire

CARSONS FM CAIRO S3F

MGS

ST PETERS OBSIDIAN

MGGS

SHALENDY ABRAXAS

Milk	547	Milkfat	47/5.2	Protein	32/4.0
Somatic Cell Count	-0.10	Cow Calving Diff	-0.1/31	Heifer Calving Diff	-0.4/31
Gestation Length	-4.9	Body Condition	0.33	Functional Survival	3.9
Fertility	5.1	Liveweight	38		

NZ Evaluation Data 0 Daughters TOP Inspected					
Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.29				
Shed Temperament	0.30				
Milking Speed	-0.13				
Overall Opinion	0.34				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.31				
Capacity	0.60				
Rump Angle	-0.21				
Rump Width	0.25				
Legs	-0.02				
Udder Support	0.65				
Front Udder	0.51				
Rear Udder	0.67				
Front Teat Placement	0.01				
Rear Teat Placement	0.63				
Teat Length	-0.22				
Udder Overall	0.57				
Dairy Conformation	0.64				

LIC Initiatives		
High Input	Once-A-Day	A2 Protein
1344	1284	A2/A2



**JE6886 LIC KILVOIGE AARON** EBI/REL **248/53%**

IRELAND VALUES				
Milk Prod SI	95	Survival	3.06	
Fertility SI	103	Cow Calving Difficulty	2.20	
Calving SI	43	Heifer Calving Difficulty	5.80	
Beef SI	-43	Somatic Cell Count	-0.01	
Health SI	7	Milk kg	-324	
Maintenance SI	40	Fat kg/%	19/0.58	
Management SI	3	Protein kg/%	5/0.29	
Calving Interval (days)	-5.13	Pedigree Status	XSR	

NEW ZEALAND DETAILS 0 NZ Daughters

HoofPrint®

7

8

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **332/56%**

Breeding Details

Split

J10F6

Sire

VAN STRAALENS G-FORCE

MGS

BRADENE PAS TRIPLESTAR

MGGS

CURRA ALLSTAR

Milk	-150	Milkfat	41/5.8	Protein	12/4.2
Somatic Cell Count	0.22	Cow Calving Diff	-0.5/24	Heifer Calving Diff	-1.7/20
Gestation Length	-1.9	Body Condition	0.20	Functional Survival	3.2
Fertility	3.6	Liveweight	2		

NZ Evaluation Data 0 Daughters TOP Inspected					
Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.27				
Shed Temperament	0.27				
Milking Speed	0.12				
Overall Opinion	0.36				
Conformation	BV	-0.5	0	0.5	1.0
Stature	0.01				
Capacity	0.65				
Rump Angle	0.32				
Rump Width	0.15				
Legs	0.15				
Udder Support	0.19				
Front Udder	0.34				
Rear Udder	0.26				
Front Teat Placement	-0.01				
Rear Teat Placement	-0.14				
Teat Length	-0.11				
Udder Overall	0.26				
Dairy Conformation	0.45				

LIC Initiatives		
High Input	Once-A-Day	A2 Protein
1289	1240	A1/A2

**JE7194 LIC NEWBAWN LILY** EBI/REL **265/54%**



Breeding Details	
Split	F8J8
Sire	CRESCENT EXCELL MISTY ET
MGS	(IG) KNOCKCAIS TOSSY
MGGS	LISDUFF MANFRED ET

IRELAND VALUES			
Milk Prod SI	111	Survival	2.57
Fertility SI	102	Cow Calving Difficulty	1.90
Calving SI	34	Heifer Calving Difficulty	5.30
Beef SI	-24	Somatic Cell Count	-0.12
Health SI	12	Milk kg	-53
Maintenance SI	26	Fat kg/%	25/0.48
Management SI	4	Protein kg/%	9/0.19
Calving Interval (days)	-5.59	Pedigree Status	-

NZ Evaluation Data			0 Daughters TOP Inspected		
Milk	207	Milkfat	30/5.2	Protein	15/3.9
Somatic Cell Count	-0.28	Cow Calving Diff	0.2/26	Heifer Calving Diff	0.2/25
Gestation Length	-1.0	Body Condition	0.36	Functional Survival	1.7
Fertility	-0.4	Liveweight	66		

TOP traits	BV	-0.5	0	0.5	1.0
Overall Opinion	0.19				
Capacity	0.77				
Udder Overall	0.53				
Dairy Conformation	0.72				

**FR6823 LIC KILVOIGE STEPHEN** EBI/REL **231/60%**



Breeding Details	
Split	F12J4
Sire	PRIESTS SIERRA
MGS	PARKDUV MARK
MGGS	ABR TUNGSTEN STEEL S3J

IRELAND VALUES			
Milk Prod SI	104	Survival	2.53
Fertility SI	82	Cow Calving Difficulty	2.50
Calving SI	38	Heifer Calving Difficulty	5.40
Beef SI	-30	Somatic Cell Count	-0.03
Health SI	1	Milk kg	-92
Maintenance SI	26	Fat kg/%	21/0.43
Management SI	10	Protein kg/%	9/0.21
Calving Interval (days)	-3.98	Pedigree Status	-

NZ Evaluation Data			0 Daughters TOP Inspected		
Milk	427	Milkfat	37/5.1	Protein	22/3.9
Somatic Cell Count	0.05	Cow Calving Diff	0.1/27	Heifer Calving Diff	1.7/27
Gestation Length	-4.1	Body Condition	-0.02	Functional Survival	0.8
Fertility	1.3	Liveweight	44		

TOP traits	BV	-0.5	0	0.5	1.0
Overall Opinion	0.20				
Capacity	0.30				
Udder Overall	0.15				
Dairy Conformation	0.32				

**JE6895 LIC BROOKLAWN MOONLIGHT ECLIPSE** EBI/REL **245/54%**



Breeding Details	
Split	F8J8
Sire	GLEN KORU EPIC
MGS	MOODYS EXECUTIVE
MGGS	OSULLIVANS WIZARD

IRELAND VALUES			
Milk Prod SI	107	Survival	2.60
Fertility SI	81	Cow Calving Difficulty	2.10
Calving SI	35	Heifer Calving Difficulty	4.10
Beef SI	-42	Somatic Cell Count	-0.07
Health SI	10	Milk kg	29
Maintenance SI	50	Fat kg/%	16/0.25
Management SI	4	Protein kg/%	13/0.21
Calving Interval (days)	-3.90	Pedigree Status	-

NZ Evaluation Data			0 Daughters TOP Inspected		
Milk	2	Milkfat	22/5.2	Protein	23/4.3
Somatic Cell Count	-0.49	Cow Calving Diff	-0.5/32	Heifer Calving Diff	-0.7/31
Gestation Length	-0.3	Body Condition	0.00	Functional Survival	0.4
Fertility	2.0	Liveweight	-13		

TOP traits	BV	-0.5	0	0.5	1.0
Overall Opinion	0.26				
Capacity	0.30				
Udder Overall	0.15				
Dairy Conformation	0.03				

**JE6898 LIC MOOREHILL GALAXY** EBI/REL **225/53%**



Breeding Details	
Split	F9J5
Sire	GLEN KORU EPIC
MGS	GOINGS MECCA PRIDE S1F
MGGS	VELSVIK

IRELAND VALUES			
Milk Prod SI	99	Survival	2.83
Fertility SI	86	Cow Calving Difficulty	2.00
Calving SI	35	Heifer Calving Difficulty	5.60
Beef SI	-37	Somatic Cell Count	0.06
Health SI	-2	Milk kg	-61
Maintenance SI	33	Fat kg/%	16/0.32
Management SI	10	Protein kg/%	10/0.22
Calving Interval (days)	-4.00	Pedigree Status	-

NZ Evaluation Data			0 Daughters TOP Inspected		
Milk	15	Milkfat	12/5.0	Protein	18/4.2
Somatic Cell Count	-0.04	Cow Calving Diff	0/30	Heifer Calving Diff	-0.5/28
Gestation Length	-1.1	Body Condition	0.15	Functional Survival	2.8
Fertility	8.6	Liveweight	12		

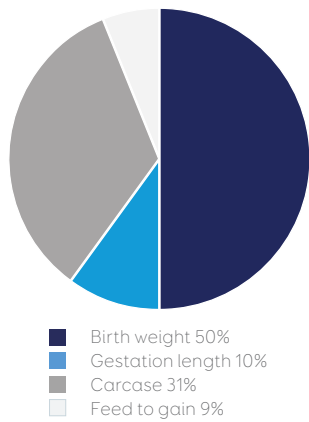
TOP traits	BV	-0.5	0	0.5	1.0
Overall Opinion	0.26				
Capacity	0.32				
Udder Overall	0.13				
Dairy Conformation	0.16				



# BEEF SELECTION INDEX (BSI)

Selection indices simplify sire selection by combining a number of key traits into one value - higher values indicating more suitable sires.

LIC's BSI places emphasis on traits that are relevant to the dairy-beef supply chain, from the dairy farmer through to the consumer. The power in this index is that it can be compared across a number of beef breeds - Angus, Simmental, Charolais, and the composite Profit Maker.



Trait	Weightings	
Birth weight	50%	50%
Gestation length	10%	10%
Weaning weight	3%	31%
Yearling weight	3%	
Eye muscle area	3%	
Intramuscular fat	3%	
Retail product	10%	
Carcase weight	9%	9%
Feed to gain	9%	
	100%	

BSI is a selection index, not an economic index



Bulls in Rissington Cattle Company's GrowSafe system

Across-breed or multi-breed evaluations are superior to within-breed analyses because direct comparisons between bulls of different breeds become possible. NZAEL operates a multi-breed evaluation for its dairy sires which allows Friesian, Crossbred, and Jersey sires to be directly compared with each other. Multi-breed analyses are uncommon in the beef world, which has historically made it difficult for dairy farmers trying to pick the easiest calving or highest growth rate beef sires irrespective of breed.

## Global multi-breed beef evaluation:

LIC's BSI traits are outputs from a global multi-breed, genomically-enhanced evaluation run by Leachman Cattle of Colorado and Zoetis. With over 1 million animals globally across different operating systems, climates, and pressures, the combination of phenotype and genotype information in the evaluation produces robust, applicable outputs that beef seedstock producers are applying worldwide to fine tune their breeding programmes.

The New Zealand arm of the Leachman multi-breed evaluation is operated by Rissington Cattle Company in Hawkes Bay, who have been partners and close friends of the Leachman operation for over 30 years. LIC's ongoing collaboration with Rissington Cattle Company enables the publishing of the analysis' outputs and use of it to source beef bulls that are suitable for dairy use.

A unique output from the multi-breed evaluation is the trait 'feed to gain'. This trait is an indicator of feed efficiency, which is highly relevant with respect to environmental pressures and operating costs. Natural variation within the feed to gain trait has enabled selection for improved feed efficiency, and Rissington Cattle Company have increased their accuracy of selection by installing a GrowSafe system to measure feed intake and weight gain for their bulls.



# BEEF OPTIONS

## Short Gestation Length (SGL) Hereford

Supplied exclusively from the South Island, New Zealand stud Shrimpton's Hill Herefords are the trait leaders for short gestation length across Australasia.

Shrimpton's Hill Hereford stud have dedicated the last 20 years to breeding the dairy farmer must have - short gestation length and calving ease.

The bonus of utilising SGL Hereford as opposed to the average Hereford bull is additional days in milk while still delivering a well marked, saleable beef calf.



Code	Name	Calving Ease DIR	Birth Weight	Gestation Length	Yearling Weight	Carcase Weight
HE7317	SHRIMPTONS HILL 180034	11.5	1.8	-10.4	39	35
		Top 5%	Top 15%	Top 1%	Top 95%	Top 95%
HE7314	SHRIMPTONS HILL 180038	11.3	2.2	-9.0	44	41
		Top 5%	Top 20%	Top 1%	Top 85%	Top 80%

## SGL Angus

Rissington Cattle Company's Angus semen is selected for known traits that can make a real difference in cow herd profitability. All animals are recorded on Breedplan and Leachman multibreed database of over one million animals.

Rissington herd was the first Angus herd in New Zealand to be fully genotyped, enhancing the accuracy of information. A number of the Rissington Cattle Company Angus sires have performed at the top of the Beef+Lamb NZ Progeny test scheme against the best Angus bulls from USA, Australia and New Zealand.



Code	Name	Calving Ease DIR	Birth Weight	Gestation Length	Yearling Weight	Carcase Weight
AA7662	RISSINGTON ADVANCE P117	6.5	0.6	-8.2	85	56
		Top 20%	Top 5%	Top 5%	Top 25%	Top 30%
AA7596	RISSINGTON 180073	7.4	1.5	-7.2	82	64
		Top 15%	Top 10%	Top 10%	Top 30%	Top 15%
AA7935	RISSINGTON 180091	9.3	-0.2	-6.8	78	55
		Top 5%	Top 1%	Top 10%	Top 45%	Top 35%



## Speckle Park

Speckle Park originates from British White Park crossed with a Shorthorn/Angus, with over 60 years of breeding.

They are polled, medium framed (mature cow 650-800kg and mature bull 1000-1200kg) animals. Speckle Park mature early and have an incredible yielding carcass with impressive weight gains targeting 18 month markets. Freddy Flint is from the Kilbarry Speckle Park herd in Co. Cork.

Code	Name	DBI Dairy Beef Index (€)	Dairy Cow Calving - Difficulty %	Dairy Heifer Calving - Difficulty %t	Gestation - Days	Carcase Weights - Kgs
SP6394	KILBARRY FREDDY FLINT	9	4.3	9.0	0.53	-5



## Belgian Blue

Originating in Belgium during the 19th Century, the Belgian Blues are from the Kilmainham herd in Co. Laois.

Belgian Blues over any other dairy breed, can enhance the carcass quality of your calf, and will also colour mark progeny.

Code	Name	DBI Dairy Beef Index (€)	Dairy Cow Calving - Difficulty %	Dairy Heifer Calving - Difficulty %t	Gestation - Days	Carcase Weights - Kgs
BB5584	KILMAINHAM MITCH	83	8.2	11.7	0.78	26.2
BB5587	KILMAINHAM MADMAN	33	9.7	15.1	0.25	23.8



# ENVIRONMENTAL EFFICIENCY ON DAIRY FARMS

Are you concerned about the footprint your dairy cows are leaving on the environment? LIC has been working hard to develop a modelling system that can be used to quantify emissions and excretion, the result is their HoofPrint® index.

**Tony Fransen, environment and welfare manager, explains how it works:**

Enteric methane and urinary nitrogen loss from a dairy farm to the environment is inefficient. It can be damaging to water courses, contributes to greenhouse gas emissions and has a negative impact on the community and consumer perception of agriculture, wherever you farm in the world.

Enteric methane makes up around three quarters of agricultural greenhouse gas emissions on a pastoral dairy farm.

Enteric methane is directly proportional to the amount of feed consumed by the animal. This means to drive efficiency for methane, we want to maximise milk production for every kilogram of feed consumed on farm.

Managing nitrogen, particularly in a high quality, high nitrogen pasture diet enjoyed by cattle in Ireland, the UK or in New Zealand for example, has challenges. There are times of the year when the high nitrogen content of pasture means that the cow's nitrogen intake significantly exceeds her physiological demands, and the excess is excreted, primarily through her urine.

Nitrogen cannot be created or destroyed by the cow, whatever she ingests must be either partitioned into productive outputs or excreted. Nitrogen enters the cow through her diet. Over a full season, a lactating cow on average partitions approximately 50% in urine, 20% in milk and 30% in her dung.

Across the year the daily level of nitrogen intake and output will change as pasture protein and cow milk production levels fluctuate.



Maintaining the balance between N in and N out is important.

Increasing N use efficiency and reducing urinary nitrogen leaching is a key goal for the dairy sector, and much current research, including Dairy NZ's seven-year Low Nitrogen Livestock programme is looking at ways to help achieve this.

The main focus areas for NZ research are:

- Dietary changes to balance nitrogen intake
- Breed to partition or distribute nitrogen with lower risk to the environment
- Methods to manage the urine patch after deposition

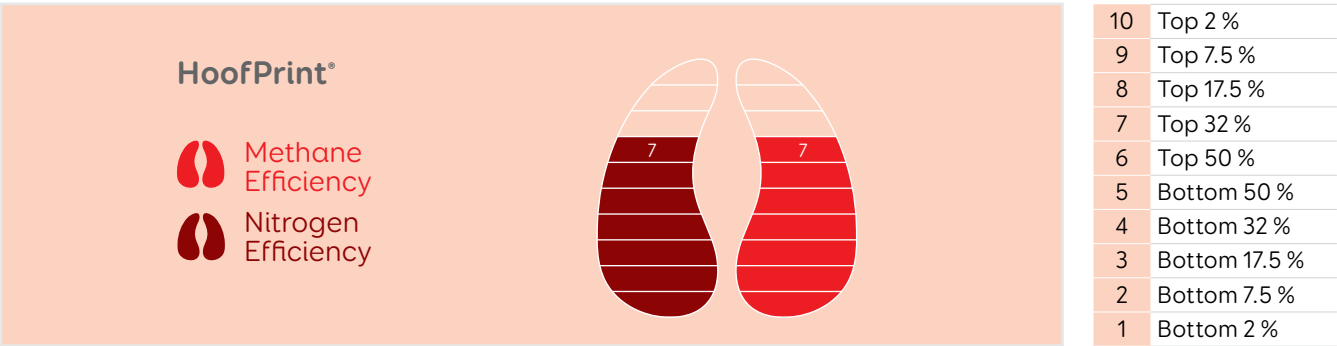
LIC's new HoofPrint® index will, for the first time, provide farmers with accurate insights for bulls on the relative lifetime urinary nitrogen and



enteric methane efficiency of their progeny. This index was included in the European bull catalogue for the first time in 2021 and was an exciting development.

Using genetic information and recognised agricultural greenhouse gas emissions modelling methodology, LIC can assess and rank bulls for the expected environmental impact of their progeny in this index. This will, alongside LIC's leading genetic options and management tools, help farmers to reduce their environmental impact per kg of milk solids while maintaining productivity.

It's a 10-point rating system based on the modelled lifetime production, relative to lifetime emissions and excretion generated.



This system models the predicted lifetime environmental footprint for all AE enrolled AI dairy bulls born since 1 January 2009. In 2020 this represents 4415 bulls.

Working across all dairy breeds, it gives accurate insights to help farmers breed cows with a lighter environmental footprint, and to produce less methane and nitrogen per kg milk solids.

Six individual breeding values are used to calculate the expected levels of production, growth, calving events, and the removal of each animal. These are liveweight, milk volume, milkfat, protein, fertility and total longevity.

Higher genetic merit animals, on average, perform better when ranked under the HoofPrint® index and the modelling has been based on the 'Methodology for calculation of New Zealand's agricultural greenhouse gas emissions' developed by NZ scientists in line with the Kyoto protocol requirements.

The ranking system is from 10 to 1 with 10 being the highest ranking (lowest environmental impact per kg product) and 1 being the lowest (highest environmental impact per kg product). And to ensure only the very best bulls are able to achieve a 10 point ranking, only 2% of all bulls in this elite reference population can be awarded a 10 point rating at any one time.

It's worth pointing out that increases in BW correlate with lower methane and urinary nitrogen output per kg of milk solids produced. Genetic gain has already delivered significant environmental efficiency benefits to the sector. For example, every NZ\$10BW increase gives 1.7g less urinary N/KgMS and 2.0g less methane/KgMS.

Over 30 years of LIC Premier Sires has created a 13% reduction in methane/KgMS and 16% reduction in urinary N/KgMS.





# CONTACTS

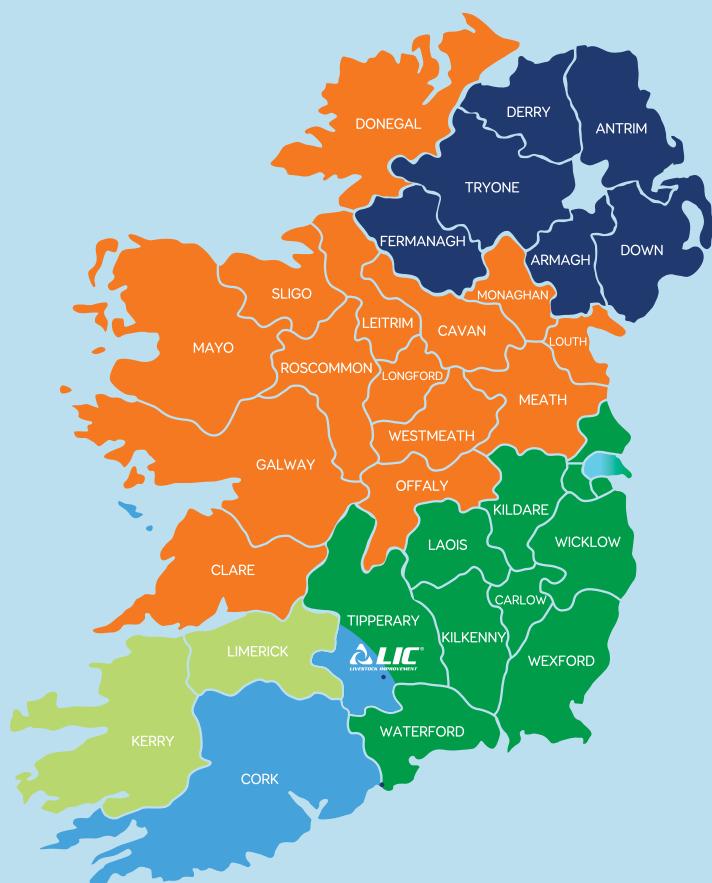
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