2023 Sire Catalogue

There's always room for improvement

LIC®
LIVESTOCK IMPROVEMENT

GM INTRO

Mark Ryder

The past year has seen a return back to some level of normality as far as Covid goes, but some challenges are still being thrown our way through rising fertiliser, fuel and feed costs. I guess in our sector we know there will always be challenges. A year ago if someone had said there could be a war in continental Europe, we would have all thought Covid had impacted their mind! The other head wind we sail into is one of making sure we are aligning with best practice to limit and reduce the impact on the planet and maximise the value of the surplus calf from the dairy industry.

While we know they pose a major challenge for us all, we are pleased to think we have the front foot on all counts here from our experience in New Zealand and the solutions we have deployed and continue to develop there.

As far as fighting the rising costs noted above, systems where grazed pasture forms the greatest part of a cow's diet will provide sustainable profits even at low milk prices - they are good now, but for how long?

In terms of environmental impact, our cows are bred to maximise milk quality per unit of feed eaten and per kilogram of liveweight to maintain, while the Hoofprint® index on all our bulls predict which bulls generate daughters with a lower environmental impact.

Since we have the cow that produces high-quality milk and helps drive profit by maximizing the utilization of grass, we also need to ensure the surplus calf is as good as it can be without compromising the above.

With the use of your ICBF HerdPlus data supported by Co-op reports, we can help you develop a clear approach to improve your herd quickly and provide a complete breeding package to help build resilience into your business for many years to come. This is achieved by having access to sexed semen from the very best dairy bulls in New Zealand, and beef bulls with strong carcass characteristics and short gestation lengths.

To summarise the landscape, it is one driven by costs, environmental impacts and public perceptions. The greatest control you can have over this is by ensuring the highest percentage of grazed grass is in your cows' diet, and this will help deliver the most resilient and profitable outcome for you.

With the huge advances in genomic evaluation there has been increasing use of genomic sires in New Zealand, to the point that in 2021/22, more than 60% of LIC's New Zealand customers incorporated genomic bulls in their breeding plan. This is expected to increase further in 2022/23.

The past 12 months has seen a continued increase in the use of sexed semen in Ireland, as farmers gain confidence in this product when selecting the best heifers and cows in their herd to produce replacements and speed up the genetic improvement in their herds.

We are pleased to now be in our year-round collection model for Europe and have discontinued our previous just-in-time seasonal model. As a result, we already have good quantities to take us into Spring 2023, but still expect bulls to sell out, so keep in close contact with your Breeding Advisor.

Included in our sexed offering is The Forwards® bull team, born and bred in Ireland by LIC Premier Club members. These bulls are from daughters of outstanding LIC-bred Irish cows. This allows LIC to be able to offer our farmers a substantial sexed team with The Forwards® bringing in more diversity to the offering. These first entered the market in Spring 2021 and sales have exceeded our expectations to date.

The things we are doing here in Ireland combined with the massive investment back in NZ 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 you secure your business as an efficient and cost-effective operation.

Mark Ryder
General Manager

LIC Europe

CONTENTS

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.

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

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.

1	2	3	4	5	6	7	8	9
		⟵ Undesirable		Average		Desirable ⟶		

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	4.10*
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

*Teat length was first scored in 2018 so there is no phenotypic average for the Base cow, this average is calculated from raw scores, from daughters of bulls that have a BV of 0

HOW TO READ A SIRE PAGE

gBW/Rel

Using this bull at a gBW of 432 indicates that per 5T DM eaten, the offspring are expected to generate NZD 432 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 -120 litres indicates that his daughters will on average produce 60 litres less than a bull of gBV 0 litres. The gBV is across breeds, so Jersey and Crossbred animals may show a negative gBV.

Somatic Cell Score

The lower the SCS BV the better, as you want to reduce the bulk milk Somatic Cell Score. 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 5.8% indicates that 2.9% 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 GALLIVANT

JE6238 ULMARRA TT GALLIVANT EBI/REL **240/74%**

IRELAND VALUES			
Milk Prod SI	120	Calving Interval (days)	-3.35
Fertility SI	72	Survival	2.37
Carbon SI	28	Cow Calving Difficulty	2.02
Calving SI	32	Heifer Calving Difficulty	4.58
Beef SI	-71	Somatic Cell Count	-0.04
Health SI	5	Milk kg	-219
Maintenance SI	52	Fat kg/%	25/0.62
Management SI	3	Protein kg/%	8/0.28

NEW ZEALAND DETAILS **140 NZ Daughters**

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **432/93%**

Breeding Details	
Split	J16
Sire	THORNWOOD OLM THOR
MGS	MARSDEN NN EXCELL ET
MGGS	GLENHAVEN TGM GENIUS S3J

Volume	-120 l	Protein	17/4.3	Milkfat	48/5.9
Somatic Cell	-0.04	Cow CD	-0.5/96	Heifer CD	-2.3/97
Gestation Length	-0.3 days	Body Cond	0.06	Func Surv	2.7 %
Fertility	5.8 %	Liveweight	-4 kg	Udd Over	0.58

NZ Evaluation Data 117 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.31	
Shed Temperament	0.32	
Milking Speed	0.02	
Overall Opinion	0.38	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.32	
Capacity	0.62	
Rump Angle	-0.19	
Rump Width	-0.06	
Legs	0.10	
Udder Support	0.32	
Front Udder	0.70	
Rear Udder	0.71	
Front Teat Placement	0.09	
Rear Teat Placement	-0.06	
Teat Length	0.25	
Udder Overall	0.58	
Dairy Conformation	0.57	

LIC Initiatives	DP - INT
High Input	1393
VMSI	1343
A2 Protein	A1/A2

11/11/2022

icbf 11/2022

Protein and Milkfat

A bull gBV of 17 kg indicates that the bull will produce daughters which on average, are genetically superior by 8.5 kg per 5T dry matter consumed, compared to a bull of gBV 0kg.

Liveweight

A gBV of -4 kg indicates the sire's daughters are expected to have a mature liveweight -2 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.

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 -2.3 can expect to have 1.15% 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 2.7 should have 1.35% 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.

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 0.32 the raw score for his daughters on average is expected to be 6.28 + 0.16 = 6.44 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

Bopuru Bro SRM FR8244

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 54 FOR MORE INFORMATION.

BREEDING WORTH EXPLAINED

National Breeding Objective

The New Zealand dairy industry has a National Breeding Objective - 'to breed dairy cows that efficiently convert feed into profit'. To achieve this, nine key traits that contribute to the goal have been identified and included in a balanced breeding index.

- The index is called Breeding Worth (BW) and the unit of measurement is $
- It uses genetic merit breeding values (BV) and updated economic values (EV)
- As a balanced index, it combines 4 production traits and 5 robustness traits
- Other traits are measured, some of which contribute to BW as underlying predictor traits
- BW ranks bulls and cows according to the profit their offspring are expected to generate relative to a genetic reference point, the 'Base Cow', which is set at zero.

BW is calculated by summing the contribution to profit across the nine economically important traits. For each contributing trait the breeding value is multiplied by the economic value of that trait.

Breeding Worth (BW) = Breeding Value (BV) X 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.

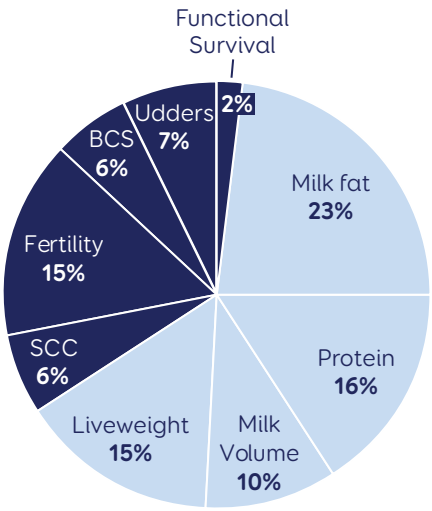
Economic Values (EV) represent the economic value of a trait to a dairy farmer and are usually updated annually. They are calculated using economic models accounting for revenue and costs on-farm. Because milk price fluctuates from year to year, a rolling average of historic, current, and forecast milk price values are used in the calculation.

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

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 Traits

The nine traits and their weightings that are included in Breeding Worth are as follows:



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.

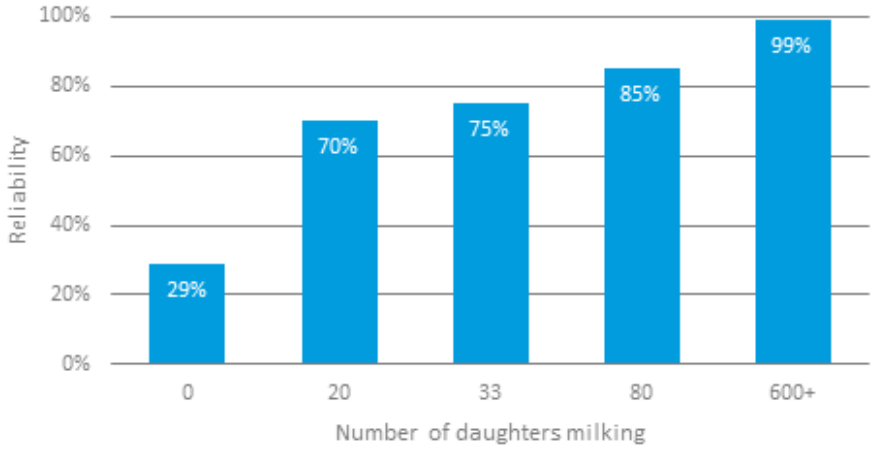
Fertility, Somatic Cell Score (SCS), Functional Survival (FS), Body Condition Score (BCS) and Udder Overall (UO) are referred to as Robustness traits. These traits have moderate to low heritability and are important for cow health and survival in the herd.

The 10-year average rate of genetic gain in NZ for Jersey, Friesian and FXJ breeds is >BW$13-16 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.

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 not change 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 100%. It increases with the amount of information.

Information sources and BW estimation reliabilities - no information (0%), ancestry information (20-30%), 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 2022, <https://www.dairynz.co.nz/animal/animal-evaluation/interpreting-the-info/all-about-bw/>)

WHAT IS THE BEEFPRINT® INDEX?

LIC's BeefPrint index provides an indication of the predicted environmental footprint of growing a beef bull's progeny to sell as prime beef, relative to other beef genetic products.

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

How does the model work?

The modelling uses six traits per bull to estimate the expected levels of meat yield, growth rates, and feed intake. These traits are outputs of the Leachman multi-breed evaluation. They are:

1. Birth weight
2. Weaning weight
3. Yearling weight
4. Mature weight
5. Feed intake
6. Retail product yield

The model's calculations for energy requirements, partitioning, and emissions are based on the 'Methodology for calculation of New Zealand's agricultural greenhouse gas emissions' (the inventory)*. An understanding of an animal's energy requirements was used to estimate dry matter intake, from which emissions and excretion were calculated. In the inventory, energy requirements refer to the amount of energy needed for an animal to survive (maintenance), and for liveweight gain (production). The inventory model currently assumes the animal's energy requirements are met by a pasture-only diet with no supplementary feed use.

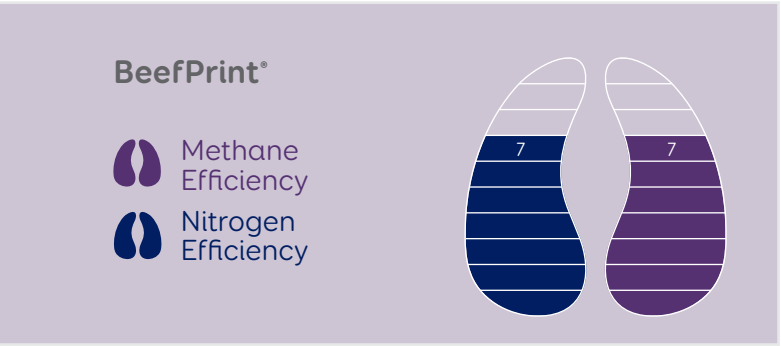
*Ministry for Primary Industries (2020). Methodology for calculation of New Zealand's agricultural greenhouse gas emissions.

Reference Base population:

The reference population is represented by a subset of over 2,000 Leachman-evaluated animals born from 2017 to 2020. The beef bulls are rated on their emission and excretion values per kg of meat relative to this reference population.

Ranking system:

The ranking system is from 10 to 1 with 10 being the best (lowest environmental impact per kg meat product) and 1 being the poorest ranking (highest environmental impact per kg meat 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.



10	Top 2 %
9	Top 7.5 %
8	Top 17.5 %
7	Top 32 %
6	Top 50 %
5	Bottom 50 %
4	Bottom 32 %
3	Bottom 17.5 %
2	Bottom 7.5 %
1	Bottom 2 %

In the example, this bull ranked 7 for Methane Efficiency (Top 32%) and 7 for Nitrogen Efficiency (Top 32%) of bulls born since 2017.

VARIABLE MILKING SELECTION INDEX (VMSI)

Variable milking regimes are gaining popularity as an efficient way of managing seasonal conditions and resources with benefits in reduction of farm working expenses and improved animal health. Variable milking regimes covers everything from VMSI (OAD) to 16 hours and 10 in 7.

Variable milking regimes may be used exclusively as the overall farming system, or strategically for part of the herd or for shorter periods during the season.

LIC's Variable Milking Selection Index (VMSI) has been developed to help farmers breed animals most suitable to their system.

Our goal is to support variable milking regime farmers in breeding cows that persist throughout the lactation and have longevity in the herd. The index has a strong correlation to Breeding Worth (gBW) but also combines the non-negotiable functional traits required for variable milking.

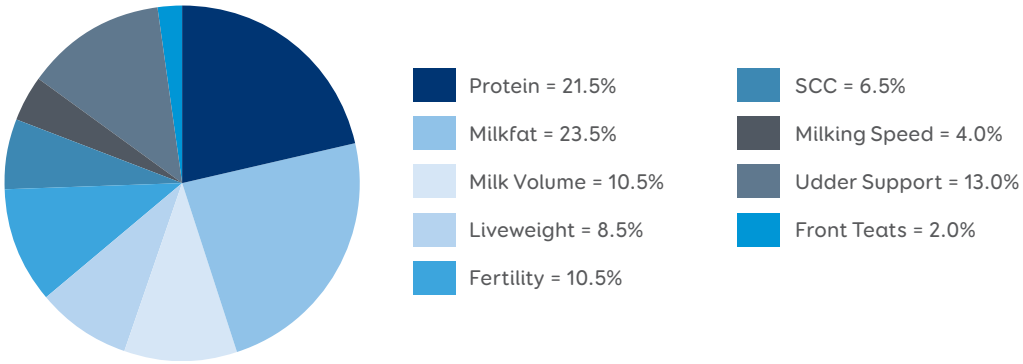
It reflects what farmers have told us is required in a desirable cow and takes into account the following traits:

- Udder support
- Front teat placement
- Milking speed

The index (VMSI) places less emphasis on Functional Survival and Fertility because these factors are less of an issue than in twice-a-day (TAD) herds.

What makes up LIC's VMSI?

The graph shows the weighting of the traits within the VMSI, in addition to the existing eight traits of gBW.



How do I interpret the Variable Milking Selection Index?

The VMSI allows animals to be compared based on their suitability for variable milking regimes. The index increases based on the animal's suitability.

Unlike gBW & PW, the VMSI does not represent an economic value of the animal's productive performance or ability to breed profitable replacements.

VMSI TEAMS

Bull Code	IRE AB Code	Bull Name	VMSI	gBW/Rel	Protein Kg	Fat Kg	Milk Kg	Fertility %	Somatic Cell Score	Capacity	Milking Speed	Udder Overall	Page
Holstein Friesian													
119014	FR7155	BUELIN BM EQUATOR S2F*	1418	458/84	40	68	1121	5.1	-0.19	0.36	0.15	0.42	18
119094	TBC	TRONNOCO BBV SNIPER	1376	367/81	46	63	1328	-1.0	-0.05	0.70	0.38	0.77	21
117057	FR6736	MAIRE GL GRADUATE-ET	1371	353/97	42	45	638	-3.0	0.16	0.04	0.08	0.72	14
120001	FR8772	MILL-RIDGE TS FINN-ET S1F	1347	435/55	32	58	537	8.5	-0.17	0.45	0.34	0.00	23
TBC	FR8244	BOPURU BRO*	1342	411/53	30	51	492	7.7	-0.24	0.06	-0.18	0.16	18
115021	FR5920	GORDONS AM LANCELOT S3F	1323	336/99	40	38	667	-1.1	0.03	0.62	0.16	0.38	24
119012	TBC	FANANA BM EXCELLENT S2F*	1315	294/83	19	30	420	4.7	-0.48	0.25	0.27	1.32	19
116118	FR5929	LIGHTBURN B MALBEC-ET S3F	1308	315/91	36	34	525	1.7	-0.20	0.77	-0.30	1.19	25
KiwiCross®													
519034	TBC	GORDONS FLASH-GORDON*	1516	573/85	61	71	1343	-0.4	0.12	0.41	0.09	0.46	44
519089	TBC	SCHRADERS TRADER*	1484	531/81	56	77	1401	3.2	0.35	1.09	0.45	0.16	44
518038	JEX143	WERDERS PREMONITION*	1445	494/97	28	65	91	-0.3	-0.35	0.65	0.31	0.64	43
517055	FR6733	TARAMONT SPRINGTIDE	1429	356/91	48	54	1032	-5.2	0.38	0.98	0.28	1.05	40
519069	TBC	VAN STRAALENS DEFENDER*	1422	441/82	43	58	808	3.0	0.23	0.45	-0.30	0.70	48
519010	TBC	BALANTIS TEMPEST-ET*	1403	458/84	40	64	802	0.4	0.22	1.01	-0.35	0.47	47
515062	JE5893	DUGGANS GAMEPLAN	1386	471/97	16	46	-385	6.3	0.22	0.25	0.21	0.60	52
Jersey													
318032	JE8751	SHELBY INTEG LABYRINTH ET*	1423	511/91	22	57	-19	-2.2	-0.47	0.78	0.05	0.32	31
318009	JE8088	TIRONUI SUPERMAN ET*	1401	452/97	22	53	-51	-1.0	-0.05	0.43	0.04	0.61	32
318021	JE8085	GLANTON DESI BANFF*	1395	516/97	17	51	-583	2.6	-0.39	0.66	0.06	0.34	32
318015	JE7998	GLENUI SUPER LAMAR*	1395	459/97	11	50	-46	2.2	-0.61	0.42	0.16	0.77	31
320020	TBC	THORNWOOD BANFF TITUS*	1369	480/57	15	36	-480	8.7	-0.41	0.52	0.09	0.69	34
319035	TBC	CAREYS CM LEXICON S2J*	1369	453/84	16	47	-506	-0.4	-0.09	0.86	0.05	0.62	33
318066	TBC	LITTLE RIVER OI SAMURAI	1346	437/89	17	41	-213	3.3	0.51	0.69	0.40	0.27	34
316039	JE6238	ULMARRA TT GALLIVANT*	1343	432/93	17	48	-120	5.8	-0.04	0.62	0.02	0.58	30

* Sexed semen is available for Single AI use only. See page 12 for more information.
Publishing Date: 20/12/2022

icbf 11/2022 11/11/2022

SGL DAIRY

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.

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.

SGL plus BW Team

Bull Code	IRE AB Code	Bull Name	Gestation Length (days)	gBW/Rel	Protein Kg	Fat Kg	Milk Kg	Fertility %	Cow Calving Difficulty	Somatic Cell Score	Capacity	Udder Overall	Page
Holstein Friesian													
119014	FR7155	BUELIN BM EQUATOR S2F*	-7.8	458/84	40	68	1121	5.1	0.5	-0.19	0.36	0.42	18
118061	FR8775	HALLVILLE AS COLA S2F*	-6.9	310/86	38	27	875	8.6	-0.7	0.07	0.17	0.76	22
116036	FR6730	ARKAN MGH BACKDROP-ET S2F*	-6.7	238/99	24	21	161	5.3	0.0	0.06	0.32	0.28	20
118071	FR7974	GLENMEAD SB TRAPEZE S1F*	-5.8	261/97	19	21	113	3.9	0.3	-0.07	0.54	0.60	20
120001	FR8772	MILL-RIDGE TS FINN-ET S1F	-5.5	435/55	32	58	537	8.5	-0.5	-0.17	0.45	0.00	23
115048	FR4977	ZINKS GFB BACHELOR-ET S1F	-5.4	243/92	34	32	899	4.6	-0.4	-0.15	0.62	0.23	14
117035	FR6742	BELLAMYS MH GAMBIT-ET S2F*	-4.1	223/98	30	27	698	2.9	2.3	0.22	0.18	0.53	25
KiwiCross®													
517055	FR6733	TARAMONT SPRINGTIDE	-10.4	356/91	48	54	1032	-5.2	-0.3	0.38	0.98	1.05	40
519089	TBC	SCHRADERS TRADER*	-10.3	531/81	56	77	1401	3.2	-0.5	0.35	1.09	0.16	44
518017	JEX182	HORIZON BARNSTORMER-ET *	-9.3	294/97	30	43	598	3.7	0.7	-0.07	0.94	0.13	50
518019	JEX152	DIGGS HARDCOPY*	-7.8	460/87	27	47	158	7.9	-0.9	-0.57	0.38	0.21	45
518038	JEX143	WERDERS PREMONITION*	-7.3	494/97	28	65	91	-0.3	-0.6	-0.35	0.65	0.64	43
518061	JEX191	INNOVATION HOMEBREW*	-7.2	363/97	18	40	-286	2.6	-0.2	0.12	0.68	0.59	49
515062	JE5893	DUGGANS GAMEPLAN	-6.7	471/97	16	46	-385	6.3	-0.6	0.22	0.25	0.60	52
511011	ZSP	PRIESTS SIERRA	-6.6	360/99	30	45	507	5.3	0.4	-0.17	0.55	0.43	46
519014	TBC	LYNBROOK KRYPTONITE*	-6.5	403/83	21	39	323	3.7	-1.2	-0.20	0.18	0.95	46
515066	JE6745	VAN STRAALENS DUEL	-6.4	288/91	17	35	-101	3.3	-0.4	0.04	0.74	0.50	40
517042	FR6793	LUCK-AT-LAST INSPIRED-ET*	-6.2	360/98	24	43	399	-1.6	-0.5	-0.06	0.73	0.73	40
518053	JEX203	PAYNES PROMINENCE-ET*	-6.0	405/89	41	43	780	2.4	-0.1	-0.29	0.50	0.35	49
Jersey													
318021	JE8085	GLANTON DESI BANFF*	-7.7	516/97	17	51	-583	2.6	-1.1	-0.39	0.66	0.34	32
317034	JE6721	HEUVEN SUPER WISEGUY*	-6.3	339/95	20	33	-185	3.0	-0.4	0.26	0.30	0.03	26
319035	TBC	CAREYS CM LEXICON S2J*	-4.5	453/84	16	47	-506	-0.4	-2.1	-0.09	0.86	0.62	33
319020	JE8757	GLENUI GB LUCIAN	-4.2	284/87	3	22	-720	5.5	-1.2	0.23	1.37	0.58	35
320020	TBC	THORNWOOD BANFF TITUS*	-4.1	480/57	15	36	-480	8.7	-0.8	-0.41	0.52	0.69	34

* Sexed semen is available for Single AI use only. See page 12 for more information.
Publishing Date: 20/12/2022

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SEXED BULLS

Bull Code	IRE AB Code	Bull Name	gBW/Rel	Milk Kg	Fat Kg	Protein Kg	Fat %	Protein %	Somatic Cell Score	Fertility %	Functional Survival	CDH/Rel%	CDC/Rel%	Liveweight	Capacity
Holstein Friesian															
119014	FR7155	BUELIN BM EQUATOR S2F	458/84	1121	68	40	5.0	3.8	-0.19	5.1	3.2	2.5/69	0.5/96	55	0.36
118023	FR7977	TRONNOCO INCA SHAKIR S3F	322/97	559	51	33	5.2	4.0	0.64	-0.5	3.5	1.7/67	0.4/86	48	0.32
119080	TBC	BUSY BROOK MAX BIGGIE S2F	318/79	690	42	33	4.9	3.9	-0.31	0.1	1.4	1.4/36	-0.4/68	22	-0.14
118061	FR8775	HALLVILLE AS COLA S2F	310/86	875	27	38	4.5	3.9	0.07	8.6	2.6	-0.7/17	-0.7/67	38	0.17
119012	TBC	FANANA BM EXCELLENT S2F	294/83	420	30	19	4.9	3.9	-0.48	4.7	6.4	1.5/34	0.8/76	21	0.25
115023	FR5902	TANGLEWOOD MT KAURI S2F	282/95	286	32	21	5.1	4.0	-0.25	7.8	3.3	1.6/37	1.2/75	56	0.22
118071	FR7974	GLENMEAD SB TRAPEZE S1F	261/97	113	21	19	5.1	4.1	-0.07	3.9	4.6	-1.1/82	0.3/94	8	0.54
116036	FR6730	ARKAN MGH BACKDROP-ET S2F	238/99	161	21	24	5.0	4.2	0.06	5.3	5.1	0.8/97	0/97	77	0.32
117035	FR6742	BELLAMYS MH GAMBIT-ET S2F	223/98	698	27	30	4.6	3.9	0.22	2.9	5.1	1.5/69	2.3/92	70	0.18
Jersey															
318021	JE8085	GLANTON DESI BANFF	516/97	-583	51	17	6.7	4.8	-0.39	2.6	2.5	-2.2/97	-1.1/97	-27	0.66
318032	JE8751	SHELBY INTEG LABYRINTH ET	511/91	-19	57	22	6.0	4.3	-0.47	-2.2	2.7	-2.3/51	-0.4/74	-37	0.78
320020	TBC	THORNWOOD BANFF TITUS	480/57	-480	36	15	6.2	4.6	-0.41	8.7	3.4	-0.9/87	-0.8/91	-30	0.52
318015	JE7998	GLENUI SUPER LAMAR	459/97	-46	50	11	5.9	4.1	-0.61	2.2	3.4	-1.9/91	-0.8/91	-48	0.42
319035	TBC	CAREYS CM LEXICON S2J	453/84	-506	47	16	6.5	4.6	-0.09	-0.4	3.2	-2.1/39	-2.1/71	-11	0.86
318009	JE8088	TIRONUI SUPERMAN ET	452/97	-51	53	22	6.0	4.3	-0.05	-1.0	1.3	-1.9/96	-0.1/96	-34	0.43
316039	JE6238	ULMARRA TT GALLIVANT	432/93	-120	48	17	5.9	4.3	-0.04	5.8	2.7	-2.3/97	-0.5/96	-4	0.62
315009	JE5061	RIVERVIEW AND DEXTER S2J	359/98	-62	31	19	5.5	4.3	-0.31	1.4	3.7	-1/97	-0.4/97	-9	0.78
317034	JE6721	HEUVEN SUPER WISEGUY	339/95	-185	33	20	5.7	4.4	0.26	3.0	1.3	-3.1/63	-0.4/81	-32	0.30
319009	JE8754	ARKAN BT ZAMBEZI S3J	337/83	-384	29	15	5.9	4.5	0.24	1.9	-1.5	-1.6/92	-2.3/90	-52	0.44
318029	JE8760	GLENUI BC LAREDO ET S3J	324/96	-17	16	18	5.1	4.2	0.29	4.8	4.7	-2.2/87	-0.6/88	-51	0.32
KiwiCross®															
518053	JEX203	PAYNES PROMINENCE-ET	405/89	780	43	41	4.9	4.0	-0.29	2.4	3.6	3.1/30	-0.1/86	23	0.50
519089	TBC	SCHRADERS TRADER	531/81	1401	77	56	4.9	3.8	0.35	3.2	2.6	-1.1/45	-0.5/68	41	1.09
518019	JEX152	DIGGS HARDCOPY	460/87	158	47	27	5.6	4.2	-0.57	7.9	2.2	-2.8/42	-0.9/66	15	0.38
519014	TBC	LYNBROOK KRYPTONITE	403/83	323	39	21	5.2	4.0	-0.20	3.7	1.9	0.3/42	-1.2/68	-38	0.18
517001	TBC	ARKANS PATRIARCH-ET	324/98	-135	32	11	5.6	4.2	0.14	2.1	3.0	-0.3/97	-0.9/94	-19	0.38
519069	TBC	VAN STRAALENS DEFENDER	441/82	808	58	43	5.1	4.0	0.23	3.0	1.4	-1.8/36	-0.4/67	26	0.45
520008	TBC	JULIAN MULTIPLIER-ET	416/58	288	45	31	5.4	4.2	0.12	2.9	3.3	-1.4/88	-0.1/89	9	0.66
519012	TBC	KOKOAMO K2	391/81	372	43	30	5.3	4.1	0.07	1.7	3.8	0.7/38	1.8/68	16	0.87
518061	JEX191	INNOVATION HOMEBREW	363/97	-286	40	18	6.0	4.4	0.12	2.6	5.4	0.5/97	-0.2/95	41	0.68
517042	FR6793	LUCK-AT-LAST INSPIRED-ET	360/98	399	43	24	5.2	4.0	-0.06	-1.6	2.1	0.2/99	-0.5/96	-8	0.73
519034	TBC	GORDONS FLASH-GORDON	573/85	1343	71	61	4.9	4.0	0.12	-0.4	3.9	-0.1/72	0.1/69	14	0.41
518038	JEX143	WERDERS PREMONITION	494/97	91	65	28	6.0	4.3	-0.35	-0.3	3.7	0.4/99	-0.6/96	24	0.65
519073	TBC	RHANTANA OLYMPIC -ET	391/80	64	46	28	5.7	4.3	0.18	2.9	1.7	1.3/64	0.4/60	27	1.01
518017	JEX182	HORIZON BARNSTORMER-ET	294/97	598	43	30	5.0	3.9	-0.07	3.7	2.9	2.7/91	0.7/95	56	0.94
519010	TBC	BALANTIS TEMPEST-ET	458/84	802	64	40	5.2	4.0	0.22	0.4	2.4	1.9/70	0/63	27	1.01
520033	JEX155	DOWSON HONENUI-ET	360/57	-225	38	22	5.9	4.5	0.31	3.1	2.8	-1.2/95	-0.2/95	23	0.45
518072	JEX140	DEANS PROFESSIONAL	353/97	585	42	25	5.0	3.9	-0.02	5.1	4.3	0/98	0.3/96	23	0.37
515017	JE6007	LYNBROOK KARTELL	291/98	109	27	24	5.2	4.2	0.37	3.9	0.9	-0.9/99	-0.8/95	-5	0.34
The Forwards®															
TBC	FR8244	BOPURU BRO	411/53	492	51	30	5.3	4.0	-0.24	7.7	3.4	0.8/31	-0.3/32	39	0.06
TBC	FR6892	LIC MOOREHILL MAX	428/52	739	51	37	5.0	4.0	-0.13	4.6	4.7	-0.1/31	-0.4/31	50	0.56
TBC	JEX125	LIC MUINEMOR DOWLIN	360/53	248	48	27	5.5	4.2	0.04	2.3	3.0	-0.4/32	-0.3/32	58	0.89
TBC	JEX122	LIC TINNASHRULE TROJAN	438/52	435	51	29	5.3	4.0	-0.19	8.8	3.0	-1.3/31	-0.4/31	28	0.37

Sexed semen is offered for Single AI use only.

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.

HF & JE bulls are ranked on Breeding Worth.

Kiwi Cross bulls are ranked on breed split

Publishing date 20/12/2022

Udder Support	Udder Overall	Dairy Confirmation	VMSI	High Input	EBI/Rel%	Milk Prod SI	Fertility SI	Carbon SI	Maintenance SI	Health SI	Milk Kg	Fat Kg	Protein Kg	Fat %	Protein %	Breed Split	A2/A2	Page
0.55	0.42	0.45	1418	1452	223/59	112	71	6	23	7	144	23	13	0.29	0.14	F16	A1/A2	18
0.45	0.35	0.40	1303	1334	166/54	99	34	-1	15	10	41	19	11	0.30	0.16	F16	A2/A2	23
0.21	0.21	-0.04	1289	1300	207/44	72	72	17	26	22	-136	12	6	0.32	0.19	F15J1	A1/A2	21
0.70	0.76	0.25	1288	1337	226/55	106	61	14	39	5	222	15	16	0.11	0.14	F16	A2/A2	22
1.26	1.32	0.29	1315	1344	170/44	55	50	21	33	13	-132	9	4	0.26	0.15	F16	A2/A2	19
0.30	0.31	0.29	1221	1263	264/68	106	135	16	23	-2	57	19	12	0.29	0.18	F16	A1/A2	19
0.58	0.60	0.34	1236	1265	246/40	87	101	27	33	2	-144	14	8	0.35	0.23	F15J1	A2/A2	20
0.24	0.28	0.17	1168	1215	269/71	112	91	11	17	9	32	17	14	0.27	0.22	F15J1	A1/A2	20
0.51	0.53	0.18	1191	1234	228/71	87	78	8	24	10	227	17	12	0.13	0.08	F16	A2/A2	25
0.09	0.34	0.58	1395	1433	247/55	113	57	29	48	14	-496	20	5	0.74	0.41	J16	A2/A2	32
0.30	0.32	0.64	1423	1444	249/47	158	45	18	48	4	-70	34	14	0.61	0.27	J16	A1/A2	31
0.45	0.69	0.63	1369	1423	112/45	68	-9	28	47	1	-395	9	2	0.46	0.29	J16	A2/A2	34
0.62	0.77	0.46	1395	1416	216/56	112	44	21	41	10	-184	25	8	0.58	0.25	J16	A2/A2	31
0.52	0.62	0.65	1369	1414	248/39	82	109	20	20	7	-544	13	1	0.66	0.38	J16	A2/A2	33
0.47	0.61	0.47	1401	1425	214/58	140	28	17	38	9	-260	27	10	0.68	0.35	J16	A2/A2	32
0.32	0.58	0.57	1343	1393	240/74	120	72	28	52	5	-219	25	8	0.62	0.28	J16	A1/A2	30
0.48	0.66	0.68	1309	1334	153/82	87	46	23	41	-1	-204	14	7	0.39	0.25	J16	A2/A2	37
0.01	0.03	0.32	1289	1302	233/75	124	60	22	44	-1	-195	20	11	0.50	0.32	J16	A2/A2	26
-0.26	0.07	0.43	1261	1279	245/57	95	77	34	46	4	-358	17	5	0.58	0.31	J16	A2/A2	36
0.51	0.69	0.39	1268	1304	237/47	131	52	20	41	2	2	24	14	0.40	0.23	J16	A2/A2	36
0.43	0.35	0.36	1362	1392	221/35	116	45	13	35	5	143	18	15	0.21	0.17	F12J4	A1/A2	49
0.24	0.16	0.98	1484	1521												F10J6	A2/A2	44
0.26	0.21	0.30	1372	1409	314/62	85	139	41	46	13	-328	15	4	0.52	0.28	F10J6	A2/A2	45
0.66	0.95	0.27	1368	1394	138/44	79	19	27	52	10	-54	18	6	0.35	0.14	F10J6	A1/A2	46
0.84	1.00	0.47	1294	1333	143/60	69	35	30	49	11	-109	13	6	0.30	0.17	F10J6	A1/A2	50
0.69	0.70	0.64	1422	1465	125/37	43	20	16	26	8	-283	10	-1	0.39	0.17	F9J7	A1/A2	48
0.62	0.76	0.70	1376	1419	228/25	98	62	18	36	34	3	18	10	0.32	0.19	F9J7	A2/A2	47
0.87	0.73	0.84	1367	1408	121/41	73	13	20	36	9	-196	13	5	0.37	0.21	F9J7	A1/A2	45
0.48	0.59	0.60	1286	1336	168/51	37	76	23	16	1	-418	6	-2	0.42	0.23	F9J7	A2/A2	49
0.76	0.73	0.66	1338	1368	216/70	113	74	12	29	-13	80	20	13	0.30	0.18	F9J7	A2/A2	40
0.40	0.46	0.64	1516	1551	179/52	131	32	-1	24	2	75	24	15	0.37	0.21	F8J8	A1/A2	44
0.59	0.64	0.71	1445	1469	178/48	111	23	5	25	4	-49	25	9	0.46	0.20	F8J8	A2/A2	43
0.69	0.53	0.86	1360	1405	139/39	56	30	-1	4	3	-203	11	3	0.34	0.17	F8J8	A2/A2	43
0.25	0.13	0.67	1268	1299	209/67	89	79	19	25	-8	-71	15	9	0.31	0.20	F8J8	A2/A2	50
0.46	0.47	0.89	1403	1456	280/43	100	115	6	15	3	-149	17	9	0.42	0.24	J9F7	A2/A2	47
0.95	1.05	0.53	1346	1395	51/14	56	-42	1	18	4	-289	10	2	0.39	0.21	J9F7	A2/A2	40
0.31	0.27	0.56	1287	1321	134/52	88	17	0	12	4	-159	18	6	0.44	0.21	J9F7	A2/A2	48
0.31	0.47	0.16	1264	1291	246/71	99	100	30	52	-5	-159	13	10	0.35	0.27	J8F7A1	A1/A2	51
0.38	0.16	0.23	1342	1382	316/63	121	142	13	24	23	91	25	13	0.36	0.17	F15J1	A1/A2	18
0.70	0.64	0.64	1362	1422	296/63	95	141	19	24	2	-21	18	9	0.33	0.18	F12J4	A2/A2	51
0.43	0.61	0.75	1300	1354	238/59	139	72	10	32	-13	19	29	14	0.50	0.22	J11F5	A1/A2	55
0.48	0.61	0.54	1379	1421	253/56	97	92	26	46	5	-194	20	7	0.49	0.24	J12F4	A1/A2	54

HOLSTEIN FRIESIAN

Bull Code	IRE AB Code	Bull Name	gBW/Rel	Fertility %	Milk Volume	Fat Kg	Protein Kg	Fat %	Protein %	Somatic Cell Score	Functional Survival	Heifer CD/ Rel%	Cow CD/Rel%	Liveweight	Body Condition Score	Capacity	Udder Overall
Holstein Friesian																	
119014	FR7155	BUELIN BM EQUATOR S2F*	458/84	5.1	1121	68	40	5.0	3.8	-0.19	3.2	2.5/69	0.5/96	55	0.07	0.36	0.42
120001	FR8772	MILL-RIDGE TS FINN-ET S1F	435/55	8.5	537	58	32	5.4	4.0	-0.17	3.1	-0.4/67	-0.5/94	61	0.26	0.45	0.00
119094	TBC	TRONNOCO BBV SNIPER	367/81	-1.0	1328	63	46	4.7	3.7	-0.05	3.2	2.2/34	-0.6/69	104	0.33	0.70	0.77
117057	FR6736	MAIRE GL GRADUATE-ET	353/97	-3.0	638	45	42	5.0	4.1	0.16	3.3	3.5/61	1.2/90	34	0.00	0.04	0.72
115021	FR5920	GORDONS AM LANCELOT S3F	336/99	-1.1	667	38	40	4.9	4.1	0.03	3.5	3.5/91	0.8/99	28	0.15	0.62	0.38
118023	FR7977	TRONNOCO INCA SHAKIR S3F*	322/97	-0.5	559	51	33	5.2	4.0	0.64	3.5	1.7/67	0.4/86	48	0.07	0.32	0.35
119080	TBC	BUSY BROOK MAX BIGGIE S2F*	318/79	0.1	690	42	33	4.9	3.9	-0.31	1.4	1.4/36	-0.4/68	22	-0.02	-0.14	0.21
116118	FR5929	LIGHTBURN B MALBEC-ET S3F	315/91	1.7	525	34	36	4.9	4.1	-0.20	3.0	2.6/43	5.1/91	66	0.28	0.77	1.19
118061	FR8775	HALLVILLE AS COLA S2F*	310/86	8.6	875	27	38	4.5	3.9	0.07	2.6	-0.7/17	-0.7/67	38	0.19	0.17	0.76
118068	FR5941	BAGWORTH GI ORIGINAL S3F	303/97	5.3	510	42	36	5.1	4.1	0.25	4.7	2/63	1/94	88	0.15	0.25	0.35
119012	TBC	FANANA BM EXCELLENT S2F*	294/83	4.7	420	30	19	4.9	3.9	-0.48	6.4	1.5/34	0.8/76	21	0.09	0.25	1.32
111036	FR2089	ARKAN FM BUSTER-ET S2F	284/99	2.5	408	39	24	5.1	4.0	0.29	1.6	1.1/99	0.4/99	25	0.08	0.49	0.34
115023	FR5902	TANGLEWOOD MT KAURI S2F*	282/95	7.8	286	32	21	5.1	4.0	-0.25	3.3	1.6/37	1.2/75	56	0.22	0.22	0.31
113042	FR4971	CHARLTONS FI FINALCUT S2F	263/99	5.2	200	38	17	5.3	4.0	-0.06	3.7	1.6/71	0.7/88	74	0.23	0.19	0.81
118071	FR7974	GLENMEAD SB TRAPEZE S1F*	261/97	3.9	113	21	19	5.1	4.1	-0.07	4.6	-1.1/82	0.3/94	8	0.11	0.54	0.60
115048	FR4977	ZINKS GFB BACHELOR-ET S1F	243/92	4.6	899	32	34	4.6	3.8	-0.15	2.5	3.5/33	-0.4/69	68	0.19	0.62	0.23
116036	FR6730	ARKAN MGH BACKDROP-ET S2F*	238/99	5.3	161	21	24	5.0	4.2	0.06	5.1	0.8/97	0/97	77	0.54	0.32	0.28
113046	FR5947	MEANDER ROCKETMAN-ET S1F	227/99	-1.5	181	28	20	5.1	4.1	-0.09	1.6	0.5/86	-0.1/83	26	0.10	0.31	0.51
117035	FR6742	BELLAMYS MH GAMBIT-ET S2F*	223/98	2.9	698	27	30	4.6	3.9	0.22	5.1	1.5/69	2.3/92	70	0.37	0.18	0.53
115017	FR5926	LANGEVELDS SRB VALOUR S2F	222/98	0.3	854	38	33	4.7	3.8	0.10	3.0	-0.7/71	0.4/86	81	0.20	0.52	0.47
The Forwards®																	
TBC	FR8244	BOPURU BRO*	411/53	7.7	492	51	30	5.3	4.0	-0.24	3.4	0.8/31	-0.3/32	39	0.14	0.06	0.16

*Sexed semen is offered for Single AI use only. See page 12 for more information.
Publishing Date: 20/12/2022

BUELIN BM EQUATOR S2F

MILL-RIDGE TS FINN-ET S1F

TRONNOCO BBV SNIPER

MAIRE GL GRADUATE-ET

HALLVILLE AS COLA S2F*

BAGWORTH GI ORIGINAL S3F

FANANA BM EXCELLENT S2F*

ARKAN FM BUSTER-ET S2F

ARKAN MGH BACKDROP-ET S2F*

MEANDER ROCKETMAN-ET S1F

BELLAMYS MH GAMBIT-ET S2F*

LANGEVELDS SRB VALOUR S2F

HoofPrint® Nitrogen/ Methane	EBI/Rel%	Milk Prod SI	Fertility SI	Carbon SI	Milk Kg	Fat Kg	Protein Kg	Fat %	Protein %	Dairy Heifer Calv Diff	Dairy Cow Calv Diff	Sire Name	Breed Split	VMSI	High Input	Gestation Length (days)	A2/A2	Page
8/9	223/59	112	71	6	144	23	13	0.29	0.14	4.73	2.05	BOTHWELL WT MAXIMA S2F	F16	1418	1452	-7.8	A1/A2	18
8/9	161/46	112	14	-5	158	24	13	0.30	0.13	5.72	2.15	TAFTS GR SUPERVISOR S1F	F16	1347	1389	-5.5	A2/A2	23
5/5	76/53	92	-27	-5	247	16	14	0.11	0.09	7.00	2.72	BUSY BROOK WTP VECTOR S3F	F16	1376	1414	-1.5	A1/A2	21
6/6	267/67	114	110	17	82	18	14	0.25	0.20	6.75	2.99	GORDONS AM LANCELOT S3F	F16	1371	1386	-0.3	A1/A1	14
7/6	232/72	111	74	19	88	17	14	0.24	0.19	8.37	3.29	ALJO TEF MAELSTROM-ET S3F	F16	1323	1347	-2.0	A1/A1	24
6/6	166/54	99	34	-1	41	19	11	0.30	0.16	6.50	2.98	GYDELAND EXCEL INCA S3F	F16	1303	1334	-1.5	A2/A2	23
6/6	207/44	72	72	17	-136	12	6	0.32	0.19	5.94	2.70	BOTHWELL WT MAXIMA S2F	F15J1	1289	1300	-1.0	A1/A2	21
6/6	166/73	104	67	4	45	16	13	0.25	0.19	10.67	3.72	SAN RAY FM BEAMER-ET S2F	F15J1	1308	1369	-0.3	A1/A2	25
9/8	226/55	106	61	14	222	15	16	0.11	0.14	4.28	1.58	ARON-AMY MH SALUTE-ET S2F	F16	1288	1337	-6.9	A2/A2	22
7/7	183/68	100	80	6	1	17	11	0.30	0.19	7.96	3.15	GYDELAND EXCEL INCA S3F	F16	1270	1312	-3.5	A1/A2	22
7/7	170/44	55	50	21	-132	9	4	0.26	0.15	6.54	2.90	BOTHWELL WT MAXIMA S2F	F16	1315	1344	-3.7	A2/A2	19
6/7	142/97	78	48	12	-110	14	7	0.33	0.18	4.90	2.32	FAIRMONT MINT-EDITION	F14J2	1272	1300	-2.2	A1/A2	14
6/7	264/68	106	135	16	57	19	12	0.29	0.18	7.31	2.69	MITCHELLS WT TYPHOON S2F	F16	1221	1263	-0.5	A1/A2	19
5/6	239/76	93	100	9	-70	20	8	0.40	0.18	5.45	2.25	FARSIDE M ILLUSTRIOUS S3F	F16	1249	1293	-3.4	A1/A2	24
8/7	246/40	87	101	27	-144	14	8	0.35	0.23	4.37	1.63	SPRING TRALEE BASS-ET S2F	F15J1	1236	1265	-5.8	A2/A2	20
6/6	210/81	78	88	7	101	12	11	0.13	0.12	5.10	2.11	GREENWELL FI BLADE S3F	F16	1221	1260	-5.4	A2/A2	14
6/6	269/71	112	91	11	32	17	14	0.27	0.22	5.33	2.21	MOURNE GROVE HOTHOUSE S2F	F15J1	1168	1215	-6.7	A1/A2	20
5/5	54/73	86	-43	6	-65	15	8	0.31	0.19	5.94	2.32	SAVANNAHS HF HAMMER S1F	F16	1223	1237	-0.6	A1/A2	14
6/6	228/71	87	78	8	227	17	12	0.13	0.08	6.29	2.16	MOURNE GROVE HOTHOUSE S2F	F16	1191	1234	-4.1	A2/A2	25
5/5	196/74	81	98	12	126	15	11	0.17	0.11	6.42	2.66	SAN RAY FM BEAMER-ET S2F	F15J1	1224	1249	-1.2	A1/A1	14
7/7	316/63	121	142	13	91	25	13	0.36	0.17	7.25	3.16	CARSONS FM CAIRO S3F	F15J1	1342	1382	-2.6	A1/A2	18

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GORDONS AM LANCELOT S3F

TRONNOCO INCA SHAKIR S3F*

BUSY BROOK MAX BIGGIE S2F*

LIGHTBURN B MALBEC-ET S3F

TANGLEWOOD MT KAURI S2F*

CHARLTONS FI FINALCUT S2F

GLENMEAD SB TRAPEZE S1F*

ZINKS GFB BACHELOR-ET S1F

BOPURU BRO*

TOP 5 PERFORMERS

Breeding Worth
NZ Herd Holstein Friesian Average NZD$128

Bull Code	Name	gBW/Rel%	Page
FR7155	BUELIN BM EQUATOR S2F *	458 / 84	18
FR8772	MILL-RIDGE TS FINN-ET S1F	435 / 55	23
FR8244	BOPURU BRO *	411 / 53	18
119094	TRONNOCO BBV SNIPER	367 / 81	21
FR6736	MAIRE GL GRADUATE-ET	353 / 97	14

EBI

Bull Code	Name	EBI (€)	Page
FR8244	BOPURU BRO *	316 / 63	18
FR6730	ARKAN MGH BACKDROP-ET S2F *	269 / 71	20
FR6736	MAIRE GL GRADUATE-ET	267 / 67	14
FR5902	TANGLEWOOD MT KAURI S2F *	264 / 68	19
FR7974	GLENMEAD SB TRAPEZE S1F *	246 / 40	20

Protein
NZ Herd Holstein Friesian Average 24kg/3.78%

Bull Code	Name	Protein (kg/%)	Page
119094	TRONNOCO BBV SNIPER	46 / 3.7	21
FR6736	MAIRE GL GRADUATE-ET	42 / 4.1	14
FR7155	BUELIN BM EQUATOR S2F *	40 / 3.8	18
FR5920	GORDONS AM LANCELOT S3F	40 / 4.1	24
FR8775	HALLVILLE AS COLA S2F *	38 / 3.9	22

Fat
NZ Herd Holstein Friesian Average 19kg/4.53%

Bull Code	Name	Fat (kg/%)	Page
FR7155	BUELIN BM EQUATOR S2F *	68 / 5.0	18
119094	TRONNOCO BBV SNIPER	63 / 4.7	21
FR8772	MILL-RIDGE TS FINN-ET S1F	58 / 5.4	23
FR7977	TRONNOCO INCA SHAKIR S3F *	51 / 5.2	23
FR8244	BOPURU BRO *	51 / 5.3	18

Fertility
NZ Herd Holstein Friesian Average -0.7%

Bull Code	Name	Fertility (%)	Page
FR8775	HALLVILLE AS COLA S2F *	8.6	22
FR8772	MILL-RIDGE TS FINN-ET S1F	8.5	23
FR5902	TANGLEWOOD MT KAURI S2F *	7.8	19
FR8244	BOPURU BRO *	7.7	18
FR5941	BAGWORTH GI ORIGINAL S3F	5.3	22

Milk Volume
NZ Herd Holstein Friesian Average 650 litres

Bull Code	Name	Volume (l)	Page
119094	TRONNOCO BBV SNIPER	1328	21
FR7155	BUELIN BM EQUATOR S2F *	1121	18
FR4977	ZINKS GFB BACHELOR-ET S1F	899	14
FR8775	HALLVILLE AS COLA S2F *	875	22
FR5926	LANGEVELDS SRB VALOUR S2F	854	14

SCC
NZ Herd Holstein Friesian Average 0.04

Bull Code	Name	SCC	Page
119012	FANANA BM EXCELLENT S2F *	-0.48	19
119080	BUSY BROOK MAX BIGGIE S2F *	-0.31	21
FR5902	TANGLEWOOD MT KAURI S2F *	-0.25	19
FR8244	BOPURU BRO *	-0.24	18
FR5929	LIGHTBURN B MALBEC-ET S3F	-0.20	25

Capacity
NZ Herd Holstein Friesian Average 0.19

Bull Code	Name	Capacity	Page
FR5929	LIGHTBURN B MALBEC-ET S3F	0.77	25
119094	TRONNOCO BBV SNIPER	0.70	21
FR4977	ZINKS GFB BACHELOR-ET S1F	0.62	14
FR5920	GORDONS AM LANCELOT S3F	0.62	24
FR7974	GLENMEAD SB TRAPEZE S1F *	0.54	20

Udder Overall
NZ Herd Holstein Friesian Average 0.25

Bull Code	Name	Udder Overall	Page
119012	FANANA BM EXCELLENT S2F *	1.32	19
FR5929	LIGHTBURN B MALBEC-ET S3F	1.19	25
FR4971	CHARLTONS FI FINALCUT S2F	0.81	24
119094	TRONNOCO BBV SNIPER	0.77	21
FR8775	HALLVILLE AS COLA S2F *	0.76	22

Heifer Calving Difficulty
NZ Herd Holstein Friesian Average 1.9%

Bull Code	Name	Calving Difficulty	Page
FR7974	GLENMEAD SB TRAPEZE S1F *	-1.1 / 82	20
FR8775	HALLVILLE AS COLA S2F *	-0.7 / 17	22
FR5926	LANGEVELDS SRB VALOUR S2F	-0.7 / 71	14
FR8772	MILL-RIDGE TS FINN-ET S1F	-0.4 / 67	23
FR5947	MEANDER ROCKETMAN-ET S1F	0.5 / 86	14

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

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I WANT IT ALL, AND I WANT IT NOW!

By Michele van der Aa, LIC sire analyst

I could be biased, but this must be one of the strongest line ups of Friesian graduates in quite some time! If choice is what you're after, we have it in abundance! No longer needing to choose one trait over another, for example fertility or udders, this line up of graduates offers the complete package..

119014 Buelin BM Equator:

If production, fertility & udders is what you're looking for, then Equator is the bull for you. Bred by Stefan Buehler in Taranaki, Equator's dam is an outstanding Mint-Edition cow with a PW of 754 over 6 lactations averaging 5.65% fat & 4% protein. Equator offers a massive, combined solids of 108kg with a fertility of 5.1%. On top of this, Equator is sired by Bothwell WT Maxima who was never available in Ireland, so Equator should offer an outcross option for many.

119012 Fanana BM Excellent:

With an udder overall BV of 1.26, the name Excellent really is fitting for this bull. With a gBW of $294 on top of his excellent udder BV, it's hard to ignore this easy calving Friesian. This Maxima son also has strong solids in his pedigree with his dam averaging 5.58% fat & 3.7% protein across 5 lactations.

Dam of EQUATOR

FR7155 BUELIN BM EQUATOR S2F

EBI/REL **223/59%**

IRELAND VALUES

Milk Prod SI	112	Calving Interval (days)	-3.15
Fertility SI	71	Survival	2.52
Carbon SI	6	Cow Calving Difficulty	2.05
Calving SI	44	Heifer Calving Difficulty	4.73
Beef SI	-43	Somatic Cell Count	-0.02
Health SI	7	Milk kg	144
Maintenance SI	23	Fat kg/%	23/0.29
Management SI	4	Protein kg/%	13/0.14

NEW ZEALAND DETAILS — 121 NZ Daughters

HoofPrint®

gBW/Rel **458/84%**

Breeding Details

Split	F16
Sire	BOTHWELL WT MAXIMA S2F
MGS	FAIRMONT MINT-EDITION
MGGS	O-BEE MANFRED JUSTICE-ET

Volume	1121 l	Protein	40/3.8	Milkfat	68/5.0
Somatic Cell	-0.19	Cow CD	0.5/96	Heifer CD	2.5/69
Gestation Length	-7.8 days	Body Cond	0.07	Func Surv	3.2 %
Fertility	5.1 %	Liveweight	55 kg	Udd Over	0.42

NZ Evaluation Data — 53 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.53	
Shed Temperament	0.54	
Milking Speed	0.15	
Overall Opinion	0.56	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.77	
Capacity	0.36	
Rump Angle	-0.31	
Rump Width	0.61	
Legs	-0.24	
Udder Support	0.55	
Front Udder	0.05	
Rear Udder	0.43	
Front Teat Placement	0.07	
Rear Teat Placement	0.32	
Teat Length	-0.38	
Udder Overall	0.42	
Dairy Conformation	0.45	

LIC Initiatives — DP - INT

High Input	1452
VMSI	1418
A2 Protein	A1/A2

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Half Sister of BRO

FR8244 BOPURU BRO

EBI/REL **316/63%**

IRELAND VALUES

Milk Prod SI	121	Calving Interval (days)	-8.22
Fertility SI	142	Survival	3.13
Carbon SI	13	Cow Calving Difficulty	3.16
Calving SI	29	Heifer Calving Difficulty	7.25
Beef SI	-34	Somatic Cell Count	-0.19
Health SI	23	Milk kg	91
Maintenance SI	24	Fat kg/%	25/0.36
Management SI	-2	Protein kg/%	13/0.17

NEW ZEALAND DETAILS — 0 NZ Daughters

HoofPrint®

gBW/Rel **411/53%**

Breeding Details

Split	F15J1
Sire	CARSONS FM CAIRO S3F
MGS	SAVANNAHS HF HAMMER S1F
MGGS	BAGWORTH LANCE CAMELOT

Volume	492 l	Protein	30/4.0	Milkfat	51/5.3
Somatic Cell	-0.24	Cow CD	-0.3/32	Heifer CD	0.8/31
Gestation Length	-2.6 days	Body Cond	0.14	Func Surv	3.4 %
Fertility	7.7 %	Liveweight	39 kg	Udd Over	0.16

NZ Evaluation Data — 0 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.15	
Shed Temperament	0.16	
Milking Speed	-0.18	
Overall Opinion	0.28	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.61	
Capacity	0.06	
Rump Angle	-0.11	
Rump Width	0.11	
Legs	0.11	
Udder Support	0.38	
Front Udder	0.18	
Rear Udder	0.07	
Front Teat Placement	-0.08	
Rear Teat Placement	0.34	
Teat Length	-0.49	
Udder Overall	0.16	
Dairy Conformation	0.23	

LIC Initiatives

High Input	1382
VMSI	1342
A2 Protein	A1/A2

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Half Sister of EXCELLENT

TBC FANANA BM EXCELLENT S2F

EBI/REL **170/44%**

IRELAND VALUES

Milk Prod SI	55	Calving Interval (days)	-0.91
Fertility SI	50	Survival	3.14
Carbon SI	21	Cow Calving Difficulty	2.90
Calving SI	22	Heifer Calving Difficulty	6.54
Beef SI	-35	Somatic Cell Count	-0.09
Health SI	13	Milk kg	-132
Maintenance SI	33	Fat kg/%	9/0.26
Management SI	10	Protein kg/%	4/0.15

NEW ZEALAND DETAILS — 107 NZ Daughters

HoofPrint®

gBW/Rel **294/83%**

Breeding Details

Split	F16
Sire	BOTHWELL WT MAXIMA S2F
MGS	SPRING TRALEE BOSS-ET S3F
MGGS	WOODCOTE GR METEOR-ET S3F

Volume	420 l	Protein	19/3.9	Milkfat	30/4.9
Somatic Cell	-0.48	Cow CD	0.8/76	Heifer CD	1.5/34
Gestation Length	-3.7 days	Body Cond	0.09	Func Surv	6.4 %
Fertility	4.7 %	Liveweight	21 kg	Udd Over	1.32

NZ Evaluation Data — 49 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.51	
Shed Temperament	0.52	
Milking Speed	0.27	
Overall Opinion	0.51	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.37	
Capacity	0.25	
Rump Angle	-0.18	
Rump Width	-0.03	
Legs	-0.05	
Udder Support	1.26	
Front Udder	0.93	
Rear Udder	1.04	
Front Teat Placement	0.78	
Rear Teat Placement	1.41	
Teat Length	-0.20	
Udder Overall	1.32	
Dairy Conformation	0.29	

LIC Initiatives

High Input	1344
VMSI	1315
A2 Protein	A2/A2

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Daughter of KAURI

FR5902 TANGLEWOOD MT KAURI S2F

EBI/REL **264/68%**

IRELAND VALUES

Milk Prod SI	106	Calving Interval (days)	-8.07
Fertility SI	135	Survival	2.68
Carbon SI	16	Cow Calving Difficulty	2.69
Calving SI	24	Heifer Calving Difficulty	7.31
Beef SI	-40	Somatic Cell Count	-0.10
Health SI	-2	Milk kg	57
Maintenance SI	23	Fat kg/%	19/0.29
Management SI	1	Protein kg/%	12/0.18

NEW ZEALAND DETAILS — 516 NZ Daughters

HoofPrint®

gBW/Rel **282/95%**

Breeding Details

Split	F16
Sire	MITCHELLS WT TYPHOON S2F
MGS	SRC LAKESIDE DG MAGIC
MGGS	SRD JENERAYTIONS BANQUET

Volume	286 l	Protein	21/4.0	Milkfat	32/5.1
Somatic Cell	-0.25	Cow CD	1.2/75	Heifer CD	1.6/37
Gestation Length	-0.5 days	Body Cond	0.22	Func Surv	3.3 %
Fertility	7.8 %	Liveweight	56 kg	Udd Over	0.31

NZ Evaluation Data — 73 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.36	
Shed Temperament	0.37	
Milking Speed	0.04	
Overall Opinion	0.48	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.73	
Capacity	0.22	
Rump Angle	-0.69	
Rump Width	0.08	
Legs	-0.12	
Udder Support	0.30	
Front Udder	0.28	
Rear Udder	0.32	
Front Teat Placement	-0.04	
Rear Teat Placement	-0.14	
Teat Length	0.41	
Udder Overall	0.31	
Dairy Conformation	0.29	

LIC Initiatives

High Input	1263
VMSI	1221
A2 Protein	A1/A2

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Daughter of TRAPEZE

FR7974 GLENMEAD SB TRAPEZE S1F

EBI/REL **246/40%**

IRELAND VALUES

Milk Prod SI	87	Calving Interval (days)	-6.04
Fertility SI	101	Survival	1.98
Carbon SI	27	Cow Calving Difficulty	1.63
Calving SI	47	Heifer Calving Difficulty	4.37
Beef SI	-61	Somatic Cell Count	0.01
Health SI	2	Milk kg	-144
Maintenance SI	33	Fat kg/%	14/0.35
Management SI	10	Protein kg/%	8/0.23

NEW ZEALAND DETAILS — 2461 NZ Daughters

HoofPrint®

gBW/Rel **261/97%**

Breeding Details

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

Volume	113 l	Protein	19/4.1	Milkfat	21/5.1
Somatic Cell	-0.07	Cow CD	0.3/94	Heifer CD	-1.1/82
Gestation Length	-5.8 days	Body Cond	0.11	Func Surv	4.6 %
Fertility	3.9 %	Liveweight	8 kg	Udd Over	0.60

NZ Evaluation Data — 70 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.30	
Shed Temperament	0.30	
Milking Speed	0.15	
Overall Opinion	0.35	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.04	
Capacity	0.54	
Rump Angle	0.47	
Rump Width	0.20	
Legs	0.08	
Udder Support	0.58	
Front Udder	0.49	
Rear Udder	0.38	
Front Teat Placement	0.41	
Rear Teat Placement	0.64	
Teat Length	-1.02	
Udder Overall	0.60	
Dairy Conformation	0.34	

LIC Initiatives

High Input	1265
VMSI	1236
A2 Protein	A2/A2

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Dam of BACKDROP

FR6730 ARKAN MGH BACKDROP-ET S2F

EBI/REL **269/71%**

IRELAND VALUES

Milk Prod SI	112	Calving Interval (days)	-4.80
Fertility SI	91	Survival	2.47
Carbon SI	11	Cow Calving Difficulty	2.21
Calving SI	45	Heifer Calving Difficulty	5.33
Beef SI	-16	Somatic Cell Count	-0.04
Health SI	9	Milk kg	32
Maintenance SI	17	Fat kg/%	17/0.27
Management SI	1	Protein kg/%	14/0.22

NEW ZEALAND DETAILS — 6472 NZ Daughters

HoofPrint®

gBW/Rel **238/99%**

Breeding Details

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

Volume	161 l	Protein	24/4.2	Milkfat	21/5.0
Somatic Cell	0.06	Cow CD	0/97	Heifer CD	0.8/97
Gestation Length	-6.7 days	Body Cond	0.54	Func Surv	5.1 %
Fertility	5.3 %	Liveweight	77 kg	Udd Over	0.28

NZ Evaluation Data — 123 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.45	
Shed Temperament	0.46	
Milking Speed	0.23	
Overall Opinion	0.54	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.48	
Capacity	0.32	
Rump Angle	-0.08	
Rump Width	-0.12	
Legs	-0.05	
Udder Support	0.24	
Front Udder	0.34	
Rear Udder	-0.02	
Front Teat Placement	0.24	
Rear Teat Placement	-0.02	
Teat Length	0.40	
Udder Overall	0.28	
Dairy Conformation	0.17	

LIC Initiatives

High Input	1215
VMSI	1168
A2 Protein	A1/A2

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Half Sister of SNIPER

TBC TRONNOCO BBV SNIPER

EBI/REL **76/53%**

IRELAND VALUES

Milk Prod SI	92	Calving Interval (days)	1.65
Fertility SI	-27	Survival	-0.47
Carbon SI	-5	Cow Calving Difficulty	2.72
Calving SI	28	Heifer Calving Difficulty	7.00
Beef SI	-43	Somatic Cell Count	-0.05
Health SI	3	Milk kg	247
Maintenance SI	17	Fat kg/%	16/0.11
Management SI	11	Protein kg/%	14/0.09

NEW ZEALAND DETAILS — 74 NZ Daughters

HoofPrint®

gBW/Rel **367/81%**

Breeding Details

Split	F16
Sire	BUSY BROOK WTP VECTOR S3F
MGS	GREENWELL TF BLITZ-ET S3F
MGGS	FAIRMONT MINT-EDITION

Volume	1328 l	Protein	46/3.7	Milkfat	63/4.7
Somatic Cell	-0.05	Cow CD	-0.6/69	Heifer CD	2.2/34
Gestation Length	-1.5 days	Body Cond	0.33	Func Surv	3.2 %
Fertility	-1.0 %	Liveweight	104 kg	Udd Over	0.77

NZ Evaluation Data — 50 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.46				
Shed Temperament	0.45				
Milking Speed	0.38				
Overall Opinion	0.63				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	0.92				
Capacity	0.70				
Rump Angle	0.23				
Rump Width	0.41				
Legs	0.02				
Udder Support	0.96				
Front Udder	0.73				
Rear Udder	0.43				
Front Teat Placement	0.17				
Rear Teat Placement	0.48				
Teat Length	-0.09				
Udder Overall	0.77				
Dairy Conformation	0.79				

LIC Initiatives

High Input	1414
VMSI	1376
A2 Protein	A1/A2

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Half Sister of BIGGIE

TBC BUSY BROOK MAX BIGGIE S2F

EBI/REL **207/44%**

IRELAND VALUES

Milk Prod SI	72	Calving Interval (days)	-3.09
Fertility SI	72	Survival	2.70
Carbon SI	17	Cow Calving Difficulty	2.70
Calving SI	23	Heifer Calving Difficulty	5.94
Beef SI	-33	Somatic Cell Count	-0.12
Health SI	22	Milk kg	-136
Maintenance SI	26	Fat kg/%	12/0.32
Management SI	6	Protein kg/%	6/0.19

NEW ZEALAND DETAILS — 60 NZ Daughters

HoofPrint®

gBW/Rel **318/79%**

Breeding Details

Split	F15J1
Sire	BOTHWELL WT MAXIMA S2F
MGS	SAN RAY FM BEAMER-ET S2F
MGGS	SPELDHURST STATESMAN S2F

Volume	690 l	Protein	33/3.9	Milkfat	42/4.9
Somatic Cell	-0.31	Cow CD	-0.4/68	Heifer CD	1.4/36
Gestation Length	-1.0 days	Body Cond	-0.02	Func Surv	1.4 %
Fertility	0.1 %	Liveweight	22 kg	Udd Over	0.21

NZ Evaluation Data — 43 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.41				
Shed Temperament	0.44				
Milking Speed	-0.17				
Overall Opinion	0.36				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	0.51				
Capacity	-0.14				
Rump Angle	0.02				
Rump Width	0.59				
Legs	-0.11				
Udder Support	0.21				
Front Udder	0.19				
Rear Udder	0.03				
Front Teat Placement	0.02				
Rear Teat Placement	-0.38				
Teat Length	0.13				
Udder Overall	0.21				
Dairy Conformation	-0.04				

LIC Initiatives

High Input	1300
VMSI	1289
A2 Protein	A1/A2

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Daughter of ORIGINAL

FR5941 BAGWORTH GI ORIGINAL S3F

EBI/REL **183/68%**

IRELAND VALUES

Milk Prod SI	100	Calving Interval (days)	-5.09
Fertility SI	80	Survival	1.32
Carbon SI	6	Cow Calving Difficulty	3.15
Calving SI	22	Heifer Calving Difficulty	7.96
Beef SI	-29	Somatic Cell Count	-0.03
Health SI	-8	Milk kg	1
Maintenance SI	10	Fat kg/%	17/0.3
Management SI	2	Protein kg/%	11/0.19

NEW ZEALAND DETAILS — 1626 NZ Daughters

HoofPrint®

gBW/Rel **303/97%**

Breeding Details

Split	F16
Sire	GYDELAND EXCEL INCA S3F
MGS	FAIRMONT MINT-EDITION
MGGS	VALDEN HI APPLAUSE-ET S2F

Volume	510 l	Protein	36/4.1	Milkfat	42/5.1
Somatic Cell	0.25	Cow CD	1/94	Heifer CD	2/63
Gestation Length	-3.5 days	Body Cond	0.15	Func Surv	4.7 %
Fertility	5.3 %	Liveweight	88 kg	Udd Over	0.35

NZ Evaluation Data — 81 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.08				
Shed Temperament	0.07				
Milking Speed	0.14				
Overall Opinion	0.32				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	1.36				
Capacity	0.25				
Rump Angle	0.07				
Rump Width	0.40				
Legs	-0.09				
Udder Support	0.37				
Front Udder	0.23				
Rear Udder	0.43				
Front Teat Placement	-0.08				
Rear Teat Placement	-0.14				
Teat Length	0.68				
Udder Overall	0.35				
Dairy Conformation	0.49				

LIC Initiatives

High Input	1312
VMSI	1270
A2 Protein	A1/A2

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Daughter of COLA

FR8775 HALLVILLE AS COLA S2F

EBI/REL **226/55%**

IRELAND VALUES

Milk Prod SI	106	Calving Interval (days)	-4.41
Fertility SI	61	Survival	0.43
Carbon SI	14	Cow Calving Difficulty	1.58
Calving SI	42	Heifer Calving Difficulty	4.28
Beef SI	-50	Somatic Cell Count	-0.08
Health SI	5	Milk kg	222
Maintenance SI	39	Fat kg/%	15/0.11
Management SI	8	Protein kg/%	16/0.11

NEW ZEALAND DETAILS — 87 NZ Daughters

HoofPrint®

gBW/Rel **310/86%**

Breeding Details

Split	F16
Sire	ARON-AMY MH SALUTE-ET S2F
MGS	BAGWORTH SH KINGSTON S1F
MGGS	MACFARLANES DAUNTLESS

Volume	875 l	Protein	38/3.9	Milkfat	27/4.5
Somatic Cell	0.07	Cow CD	-0.7/67	Heifer CD	-0.7/17
Gestation Length	-6.9 days	Body Cond	0.19	Func Surv	2.6 %
Fertility	8.6 %	Liveweight	38 kg	Udd Over	0.76

NZ Evaluation Data — 81 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	-0.07				
Shed Temperament	-0.08				
Milking Speed	-0.02				
Overall Opinion	0.09				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	0.31				
Capacity	0.17				
Rump Angle	-0.06				
Rump Width	0.58				
Legs	0.05				
Udder Support	0.70				
Front Udder	0.63				
Rear Udder	0.39				
Front Teat Placement	0.38				
Rear Teat Placement	0.03				
Teat Length	-0.96				
Udder Overall	0.76				
Dairy Conformation	0.25				

LIC Initiatives

High Input	1337
VMSI	1288
A2 Protein	A2/A2

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Dam of FINN

FR8772 MILL-RIDGE TS FINN-ET S1F

EBI/REL **161/46%**

IRELAND VALUES

Milk Prod SI	112	Calving Interval (days)	-0.57
Fertility SI	14	Survival	0.54
Carbon SI	-5	Cow Calving Difficulty	2.15
Calving SI	41	Heifer Calving Difficulty	5.72
Beef SI	-32	Somatic Cell Count	-0.02
Health SI	3	Milk kg	158
Maintenance SI	21	Fat kg/%	24/0.30
Management SI	6	Protein kg/%	13/0.13

NEW ZEALAND DETAILS — 0 NZ Daughters

HoofPrint®

gBW/Rel **435/55%**

Breeding Details

Split	F16
Sire	TAFTS GR SUPERVISOR S1F
MGS	MURITAI MINTS WASEEM
MGGS	BLARIS BOGGOUN ROSCOE S2F

Volume	537 l	Protein	32/4.0	Milkfat	58/5.4
Somatic Cell	-0.17	Cow CD	-0.5/94	Heifer CD	-0.4/67
Gestation Length	-5.5 days	Body Cond	0.26	Func Surv	3.1 %
Fertility	8.5 %	Liveweight	61 kg	Udd Over	0.00

NZ Evaluation Data — 0 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.30	
Shed Temperament	0.29	
Milking Speed	0.34	
Overall Opinion	0.45	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.22	
Capacity	0.45	
Rump Angle	-0.10	
Rump Width	0.10	
Legs	-0.04	
Udder Support	0.04	
Front Udder	0.14	
Rear Udder	-0.07	
Front Teat Placement	-0.16	
Rear Teat Placement	-0.37	
Teat Length	-0.12	
Udder Overall	0.00	
Dairy Conformation	0.32	

LIC Initiatives

High Input	1389
VMSI	1347
A2 Protein	A2/A2

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Daughter of SHAKIR

FR7977 TRONNOCO INCA SHAKIR S3F

EBI/REL **166/54%**

IRELAND VALUES

Milk Prod SI	99	Calving Interval (days)	-0.90
Fertility SI	34	Survival	1.83
Carbon SI	-1	Cow Calving Difficulty	2.98
Calving SI	28	Heifer Calving Difficulty	6.50
Beef SI	-26	Somatic Cell Count	0.06
Health SI	10	Milk kg	41
Maintenance SI	15	Fat kg/%	19/0.30
Management SI	8	Protein kg/%	11/0.16

NEW ZEALAND DETAILS — 2081 NZ Daughters

HoofPrint®

gBW/Rel **322/97%**

Breeding Details

Split	F16
Sire	GYDELAND EXCEL INCA S3F
MGS	MOURNE GROVE HOTHOUSE S2F
MGGS	WESTLAND CL JASPER-ET S1F

Volume	559 l	Protein	33/4.0	Milkfat	51/5.2
Somatic Cell	0.64	Cow CD	0.4/86	Heifer CD	1.7/67
Gestation Length	-1.5 days	Body Cond	0.07	Func Surv	3.5 %
Fertility	-0.5 %	Liveweight	48 kg	Udd Over	0.35

NZ Evaluation Data — 98 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.25	
Shed Temperament	0.25	
Milking Speed	0.17	
Overall Opinion	0.43	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.64	
Capacity	0.32	
Rump Angle	0.09	
Rump Width	0.21	
Legs	-0.02	
Udder Support	0.45	
Front Udder	0.34	
Rear Udder	0.42	
Front Teat Placement	-0.09	
Rear Teat Placement	0.30	
Teat Length	-0.13	
Udder Overall	0.35	
Dairy Conformation	0.40	

LIC Initiatives

High Input	1334
VMSI	1303
A2 Protein	A2/A2

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Daughter of LANCELOT

FR5920 GORDONS AM LANCELOT S3F

EBI/REL **232/72%**

IRELAND VALUES

Milk Prod SI	111	Calving Interval (days)	-3.33
Fertility SI	74	Survival	2.62
Carbon SI	19	Cow Calving Difficulty	3.29
Calving SI	11	Heifer Calving Difficulty	8.37
Beef SI	-38	Somatic Cell Count	-0.03
Health SI	4	Milk kg	88
Maintenance SI	44	Fat kg/%	17/0.24
Management SI	6	Protein kg/%	14/0.19

NEW ZEALAND DETAILS — 12086 NZ Daughters

HoofPrint®

gBW/Rel **336/99%**

Breeding Details

Split	F16
Sire	ALJO TEF MAELSTROM-ET S3F
MGS	MACFARLANES DAUNTLESS
MGGS	MITCHELLS NOTEWORTHY S1F

Volume	667 l	Protein	40/4.1	Milkfat	38/4.9
Somatic Cell	0.03	Cow CD	0.8/99	Heifer CD	3.5/91
Gestation Length	-2.0 days	Body Cond	0.15	Func Surv	3.5 %
Fertility	-1.1 %	Liveweight	28 kg	Udd Over	0.38

NZ Evaluation Data — 206 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.22	
Shed Temperament	0.22	
Milking Speed	0.16	
Overall Opinion	0.18	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.56	
Capacity	0.62	
Rump Angle	0.20	
Rump Width	0.50	
Legs	-0.03	
Udder Support	0.54	
Front Udder	0.58	
Rear Udder	0.24	
Front Teat Placement	-0.02	
Rear Teat Placement	0.48	
Teat Length	-1.06	
Udder Overall	0.38	
Dairy Conformation	0.67	

LIC Initiatives

High Input	1347
VMSI	1323
A2 Protein	A1/A1

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Dam of FINALCUT

FR4971 CHARLTONS FI FINALCUT S2F

EBI/REL **239/76%**

IRELAND VALUES

Milk Prod SI	93	Calving Interval (days)	-5.58
Fertility SI	100	Survival	2.39
Carbon SI	9	Cow Calving Difficulty	2.25
Calving SI	40	Heifer Calving Difficulty	5.45
Beef SI	-26	Somatic Cell Count	-0.12
Health SI	6	Milk kg	-70
Maintenance SI	15	Fat kg/%	20/0.4
Management SI	2	Protein kg/%	8/0.18

NEW ZEALAND DETAILS — 4301 NZ Daughters

HoofPrint®

gBW/Rel **263/99%**

Breeding Details

Split	F16
Sire	FARSIDE M ILLUSTRIOUS S3F
MGS	PUKETIRO FROSTMAN S1F
MGGS	LAKESIDE S D MEADOWS

Volume	200 l	Protein	17/4.0	Milkfat	38/5.3
Somatic Cell	-0.06	Cow CD	0.7/88	Heifer CD	1.6/71
Gestation Length	-3.4 days	Body Cond	0.23	Func Surv	3.7 %
Fertility	5.2 %	Liveweight	74 kg	Udd Over	0.81

NZ Evaluation Data — 91 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.09	
Shed Temperament	0.07	
Milking Speed	0.23	
Overall Opinion	0.30	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.98	
Capacity	0.19	
Rump Angle	-0.69	
Rump Width	0.37	
Legs	-0.35	
Udder Support	0.92	
Front Udder	0.72	
Rear Udder	0.66	
Front Teat Placement	0.10	
Rear Teat Placement	0.40	
Teat Length	-0.52	
Udder Overall	0.81	
Dairy Conformation	0.32	

LIC Initiatives

High Input	1293
VMSI	1249
A2 Protein	A1/A2

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Daughter of GAMBIT

FR6742 BELLAMYS MH GAMBIT-ET S2F

EBI/REL **228/71%**

IRELAND VALUES

Milk Prod SI	87	Calving Interval (days)	-3.77
Fertility SI	78	Survival	2.46
Carbon SI	8	Cow Calving Difficulty	2.16
Calving SI	39	Heifer Calving Difficulty	6.29
Beef SI	-22	Somatic Cell Count	-0.02
Health SI	10	Milk kg	227
Maintenance SI	24	Fat kg/%	17/0.13
Management SI	4	Protein kg/%	12/0.08

NEW ZEALAND DETAILS — 2334 NZ Daughters

HoofPrint®

gBW/Rel **223/98%**

Breeding Details

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

Volume	698 l	Protein	30/3.9	Milkfat	27/4.6
Somatic Cell	0.22	Cow CD	2.3/92	Heifer CD	1.5/69
Gestation Length	-4.1 days	Body Cond	0.37	Func Surv	5.1 %
Fertility	2.9 %	Liveweight	70 kg	Udd Over	0.53

NZ Evaluation Data — 98 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.44	
Shed Temperament	0.45	
Milking Speed	0.09	
Overall Opinion	0.57	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.60	
Capacity	0.18	
Rump Angle	-0.12	
Rump Width	0.16	
Legs	-0.13	
Udder Support	0.51	
Front Udder	0.35	
Rear Udder	0.40	
Front Teat Placement	0.13	
Rear Teat Placement	-0.10	
Teat Length	0.02	
Udder Overall	0.53	
Dairy Conformation	0.18	

LIC Initiatives

High Input	1234
VMSI	1191
A2 Protein	A2/A2

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Daughter of MALBEC

FR5929 LIGHTBURN B MALBEC-ET S3F

EBI/REL **166/73%**

IRELAND VALUES

Milk Prod SI	104	Calving Interval (days)	-3
Fertility SI	67	Survival	2.27
Carbon SI	4	Cow Calving Difficulty	3.72
Calving SI	-5	Heifer Calving Difficulty	10.67
Beef SI	-31	Somatic Cell Count	-0.06
Health SI	6	Milk kg	45
Maintenance SI	15	Fat kg/%	16/0.25
Management SI	6	Protein kg/%	13/0.19

NEW ZEALAND DETAILS — 100 NZ Daughters

HoofPrint®

gBW/Rel **315/91%**

Breeding Details

Split	F15J1
Sire	SAN RAY FM BEAMER-ET S2F
MGS	WOODCOTE TF MAXIMISER
MGGS	SRD JENERAYTIONS BANQUET

Volume	525 l	Protein	36/4.1	Milkfat	34/4.9
Somatic Cell	-0.20	Cow CD	5.1/91	Heifer CD	2.6/43
Gestation Length	-0.3 days	Body Cond	0.28	Func Surv	3.0 %
Fertility	1.7 %	Liveweight	66 kg	Udd Over	1.19

NZ Evaluation Data — 92 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.37	
Shed Temperament	0.40	
Milking Speed	-0.30	
Overall Opinion	0.40	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.81	
Capacity	0.77	
Rump Angle	-0.23	
Rump Width	0.35	
Legs	-0.09	
Udder Support	0.96	
Front Udder	1.05	
Rear Udder	0.84	
Front Teat Placement	0.67	
Rear Teat Placement	0.50	
Teat Length	-0.27	
Udder Overall	1.19	
Dairy Conformation	0.85	

LIC Initiatives

High Input	1369
VMSI	1308
A2 Protein	A1/A2

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JERSEY

Bull Code	IRE AB Code	Bull Name	gBW/Rel	Fertility %	Milk Volume	Fat Kg	Protein Kg	Fat %	Protein %	Somatic Cell Score	Functional Survival	Heifer CD/ Rel%	Cow CD/Rel%	Liveweight	Body Condition Score	Capacity	Udder Overall
Jersey																	
318021	JE8085	GLANTON DESI BANFF*	516/97	2.6	-583	51	17	6.7	4.8	-0.39	2.5	-2.2/97	-1.1/97	-27	0.13	0.66	0.34
318032	JE8751	SHELBY INTEG LABYRINTH ET*	511/91	-2.2	-19	57	22	6.0	4.3	-0.47	2.7	-2.3/51	-0.4/74	-37	0.14	0.78	0.32
320020	TBC	THORNWOOD BANFF TITUS*	480/57	8.7	-480	36	15	6.2	4.6	-0.41	3.4	-0.9/87	-0.8/91	-30	0.19	0.52	0.69
318015	JE7998	GLENUI SUPER LAMAR*	459/97	2.2	-46	50	11	5.9	4.1	-0.61	3.4	-1.9/91	-0.8/91	-48	-0.03	0.42	0.77
319035	TBC	CAREYS CM LEXICON S2J*	453/84	-0.4	-506	47	16	6.5	4.6	-0.09	3.2	-2.1/39	-2.1/71	-11	0.23	0.86	0.62
318009	JE8088	TIRONUI SUPERMAN ET*	452/97	-1.0	-51	53	22	6.0	4.3	-0.05	1.3	-1.9/96	-0.1/96	-34	-0.09	0.43	0.61
318066	JE8853	LITTLE RIVER OI SAMURAI	437/89	3.3	-213	41	17	5.9	4.4	0.51	4.2	-1.9/50	-1.8/69	-57	0.11	0.69	0.27
316039	JE6238	ULMARRA TT GALLIVANT*	432/93	5.8	-120	48	17	5.9	4.3	-0.04	2.7	-2.3/97	-0.5/96	-4	0.06	0.62	0.58
319037	TBC	OKURA TIRONUI BT MARCO ET	421/88	0.4	-303	50	16	6.2	4.4	0.16	1.3	-0.4/76	-0.6/86	-11	0.18	0.72	0.30
319066	JE8859	TIRONUI GB MONTAGE-ET	412/85	0.1	46	41	22	5.6	4.2	-0.20	2.6	-3.1/73	-0.9/79	-14	0.25	1.08	0.54
318035	JE8763	SHELBY BC LOTTO ET S3J	411/96	4.6	-122	37	22	5.7	4.4	0.04	2.7	-2.2/96	-0.5/94	-31	0.00	0.12	0.31
315009	JE5061	RIVERVIEW AND DEXTER S2J*	359/98	1.4	-62	31	19	5.5	4.3	-0.31	3.7	-1/97	-0.4/97	-9	0.19	0.78	0.66
317034	JE6721	HEUVEN SUPER WISEGUY*	339/95	3.0	-185	33	20	5.7	4.4	0.26	1.3	-3.1/63	-0.4/81	-32	-0.06	0.30	0.03
319009	JE8754	ARKAN BT ZAMBEZI S3J*	337/83	1.9	-384	29	15	5.9	4.5	0.24	-1.5	-1.6/92	-2.3/90	-52	0.00	0.44	0.07
314004	JE5992	BELLS OI FLOYD S3J	332/99	0.6	177	33	21	5.3	4.1	-0.26	3.4	-1.8/99	-1.5/98	5	0.28	0.59	0.34
315045	JE4989	GLENUI DEGREE HOSS ET	325/99	1.7	-510	25	5	5.9	4.4	-0.41	2.5	-1.7/99	-0.9/99	-32	0.18	0.37	0.52
318029	JE8760	GLENUI BC LAREDO ET S3J*	324/96	4.8	-17	16	18	5.1	4.2	0.29	4.7	-2.2/87	-0.6/88	-51	0.14	0.32	0.69
319020	JE8757	GLENUI GB LUCIAN	284/87	5.5	-720	22	3	6.2	4.6	0.23	5.5	-2.2/93	-1.2/93	16	0.37	1.37	0.58

*Sexed semen is offered for Single AI use only. See page 12 for more information.
Publishing Date: 20/12/2022

GLANTON DESI BANFF*

SHELBY INTEG LABYRINTH ET*

THORNWOOD BANFF TITUS*

LITTLE RIVER OI SAMURAI

ULMARRA TT GALLIVANT*

OKURA TIRONUI BT MARCO ET*

HEUVEN SUPER WISEGUY*

ARKAN BT ZAMBEZI S3J*

BELLS OI FLOYD S3J

HoofPrint® Nitrogen/ Methane	EBI/Rel%	Milk Prod SI	Fertility SI	Carbon SI	Milk Kg	Fat Kg	Protein Kg	Fat %	Protein %	Dairy Heifer Calv Diff	Dairy Cow Calv Diff	Sire Name	Breed Split	VMSI	High Input	Gestation Length (days)	A2/A2	Page
10/10	247/55	113	57	29	-496	20	5	0.74	0.41	4.15	1.75	ARRIETA TERRIFIC DESI ET	J16	1395	1433	-7.7	A2/A2	32
8/8	249/47	158	45	18	-70	34	14	0.61	0.27	3.75	1.71	OKURA LT INTEGRITY	J16	1423	1444	-0.8	A1/A2	31
10/10	112/45	68	-9	28	-395	9	2	0.46	0.29	3.39	1.63	GLANTON DESI BANFF	J16	1369	1423	-4.1	A2/A2	34
8/9	216/56	112	44	21	-184	25	8	0.58	0.25	3.45	1.47	PUKETAWA AD SUPERSTITION	J16	1395	1416	-2.6	A2/A2	31
8/8	248/39	82	109	20	-544	13	1	0.66	0.38	6.99	3.10	CRESCENT EXCELL MONOPOLY	J16	1369	1414	-4.5	A2/A2	33
8/8	214/58	140	28	17	-260	27	10	0.68	0.35	5.13	2.12	PUKETAWA AD SUPERSTITION	J16	1401	1425	-2.4	A2/A2	32
10/10	248/46	144	46	27	-189	28	12	0.60	0.31	3.71	1.65	OKURA LT INTEGRITY	J16	1346	1378	-1.0	A2/A2	34
8/9	240/74	120	72	28	-219	25	8	0.62	0.28	4.58	2.02	THORNWOOD OLM THOR	J16	1343	1393	-0.3	A1/A2	30
7/7	269/58	135	90	27	-282	24	10	0.64	0.36	4.51	2.26	BRAEDENE PAS TRIPLESTAR	J16	1327	1367	1.5	A2/A2	33
7/7	252/43	68	126	25	-457	14	0	0.61	0.28	7.17	3.51	GLANTON SS BASTILLE S3J	J16	1330	1371	1.7	A2/A2	30
9/9	251/47	149	53	15	-49	26	15	0.47	0.28	3.70	1.65	BELLS CM CONRAD S2J	J16	1341	1359	-0.4	A2/A2	35
7/7	153/82	87	46	23	-204	14	7	0.39	0.25	5.39	2.22	ARRIETA NN DEGREE ET	J16	1309	1334	-1.5	A2/A2	37
9/9	233/75	124	60	22	-195	20	11	0.50	0.32	5.27	2.17	PUKETAWA AD SUPERSTITION	J16	1289	1302	-6.3	A2/A2	26
8/8	245/57	95	77	34	-358	17	5	0.58	0.31	3.52	1.28	BRAEDENE PAS TRIPLESTAR	J16	1261	1279	-1.3	A2/A2	36
6/7	263/76	144	65	19	60	29	15	0.46	0.23	4.62	2.05	OKURA LT INTEGRITY	J15F1	1262	1301	-2.2	A2/A2	37
7/7	224/82	87	89	30	-437	17	2	0.63	0.32	4.57	2.05	ARRIETA NN DEGREE ET	J16	1244	1272	2.2	A2/A2	26
10/9	237/47	131	52	20	2	24	14	0.40	0.23	3.63	1.64	BELLS CM CONRAD S2J	J16	1268	1304	-2.9	A2/A2	36
7/7	155/38	32	32	20	-389	6	-3	0.40	0.19	5.74	2.28	GLANTON SS BALTIC ET S3J	J16	1209	1270	-4.2	A2/A2	35

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GLENUI SUPER LAMAR*

CAREYS CM LEXICON S2J*

TIRONUI SUPERMAN ET*

TIRONUI GB MONTAGE-ET

SHELBY BC LOTTO ET S3J

RIVERVIEW AND DEXTER S2J*

GLENUI DEGREE HOSS ET

GLENUI BC LAREDO ET S3J*

GLENUI GB LUCIAN

TOP 5 PERFORMERS

Breeding Worth
New Zealand Herd Jersey Average NZD$208

Bull Code	Name	gBW/Rel%	Page
JE8085	GLANTON DESI BANFF *	516 / 97	32
JE8751	SHELBY INTEG LABYRINTH ET *	511 / 91	31
320020	THORNWOOD BANFF TITUS *	480 / 57	34
JE7998	GLENUI SUPER LAMAR *	459 / 97	31
319035	CAREYS CM LEXICON S2J *	453 / 84	33

EBI

Bull Code	Name	EBI (€)	Page
319037	OKURA TIRONUI BT MARCO ET	269 / 58	33
JE5992	BELLS OI FLOYD S3J	263 / 76	37
319066	TIRONUI GB MONTAGE-ET	252 / 43	30
JE8763	SHELBY BC LOTTO ET S3J	251 / 47	35
JE8751	SHELBY INTEG LABYRINTH ET *	185 / 62	31

Protein
New Zealand Herd Jersey Average 2kg/4.13%

Bull Code	Name	Protein (kg/%)	Page
319066	TIRONUI GB MONTAGE-ET	22 / 4.2	30
JE8763	SHELBY BC LOTTO ET S3J	22 / 4.4	35
JE8751	SHELBY INTEG LABYRINTH ET *	22 / 4.3	31
JE8088	TIRONUI SUPERMAN ET *	22 / 4.3	32
JE5992	BELLS OI FLOYD S3J	21 / 4.1	37

Fat
New Zealand Herd Jersey Average 13kg/5.42%

Bull Code	Name	Fat (kg/%)	Page
JE8751	SHELBY INTEG LABYRINTH ET *	57 / 6.0	31
JE8088	TIRONUI SUPERMAN ET *	53 / 6.0	32
JE8085	GLANTON DESI BANFF *	51 / 6.7	32
319037	OKURA TIRONUI BT MARCO ET	50 / 6.2	33
JE7998	GLENUI SUPER LAMAR *	50 / 5.9	31

Fertility
New Zealand Herd Jersey Average 1.2%

Bull Code	Name	Fertility (%)	Page
320020	THORNWOOD BANFF TITUS *	8.7	34
JE6238	ULMARRA TT GALLIVANT *	5.8	30
JE8757	GLENUI GB LUCIAN	5.5	35
JE8760	GLENUI BC LAREDO ET S3J *	4.8	36
JE8763	SHELBY BC LOTTO ET S3J	4.6	35

Milk Volume
New Zealand Herd Jersey Average -328 litres

Bull Code	Name	Volume (l)	Page
JE5992	BELLS OI FLOYD S3J	177	37
319066	TIRONUI GB MONTAGE-ET	46	30
JE8760	GLENUI BC LAREDO ET S3J *	-17	36
JE8751	SHELBY INTEG LABYRINTH ET *	-19	31
JE7998	GLENUI SUPER LAMAR *	-46	31

SCC
New Zealand Herd Jersey Average -0.09

Bull Code	Name	SCC	Page
JE7998	GLENUI SUPER LAMAR *	-0.61	31
JE8751	SHELBY INTEG LABYRINTH ET *	-0.47	31
320020	THORNWOOD BANFF TITUS *	-0.41	34
JE4989	GLENUI DEGREE HOSS ET	-0.41	26
JE8085	GLANTON DESI BANFF *	-0.39	32

Capacity
New Zealand Herd Jersey Average 0.22

Bull Code	Name	Capacity	Page
JE8757	GLENUI GB LUCIAN	1.37	35
319066	TIRONUI GB MONTAGE-ET	1.08	30
319035	CAREYS CM LEXICON S2J *	0.86	33
JE8751	SHELBY INTEG LABYRINTH ET *	0.78	31
JE5061	RIVERVIEW AND DEXTER S2J *	0.78	37

Udder Overall
New Zealand Herd Jersey Average 0.27

Bull Code	Name	Udder Overall	Page
JE7998	GLENUI SUPER LAMAR *	0.77	31
320020	THORNWOOD BANFF TITUS *	0.69	34
JE8760	GLENUI BC LAREDO ET S3J *	0.69	36
JE5061	RIVERVIEW AND DEXTER S2J *	0.66	37
319035	CAREYS CM LEXICON S2J *	0.62	33

Liveweight
New Zealand Herd Jersey Average -43kg

Bull Code	Name	Liveweight	Page
JE8757	GLENUI GB LUCIAN	16	35
JE5992	BELLS OI FLOYD S3J	5	37
JE6238	ULMARRA TT GALLIVANT *	-4	30
JE5061	RIVERVIEW AND DEXTER S2J *	-9	37
319035	CAREYS CM LEXICON S2J *	-11	33

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

NEW GRADUATES FROM GREAT COW FAMILIES

by Danie Swart, LIC bull acquisition manager

From a breeding perspective, nothing provides more of a buzz than seeing a top line of great new heifers with good udders and conformation walking to the shed. Last year, LIC saw a tremendous team of 2018 Sire Proving Scheme graduates, and although it's early days, there are great signs this season of some exciting 2019 graduates out of good cow families. It's my privilege to profile three proven 19-code bulls, together with the top-ranked Jersey bull:

319035 Careys CM Lexicon S2J:

Lexicon's dam was farmed by Okura, but owned by Gavin and Kathryne Carey. Sired by Monopoly, his dam is out of the LIC Hall Of Fame bull Integrity. By adding a good number of herd test daughters, Lexicon has had a significant improvement in BW, mainly increasing his Protein and Fat gBVs. With a well-balanced TOP profile, he is surely a great allrounder with big production, and good stature, capacity, and udder overall BVs. His maternal line exhibits high production with PWs consistently greater than 400.

319037 Okura Tironui BT Marco ET:

Lyna Beehre from the Okura stud was spot-on in selecting Triplestar as the ET sire when she flushed the well-proven, high profile cow Tironui Integ Meg, owned by the Tironui stud of Murray and Janet Gibb. Meg is also the dam of Montage (profiled below), and she is currently one of the most prominent cows in the Jersey breed. Big production and good liveweight are standouts for Marco. Production in this pedigree is phenomenal, with PWs exceeding 600.

319066 Tironui GB Montage ET:

The legacy of Tironui Integ Meg continues with another of her sons from the Tironui stud, Montage, sired by the great bull Glanton SS Bastille. Montage's pedigree is a combination of two of the very best cow families in the industry, from Tironui and Glanton. He's also a good allrounder, with high production, and excellent liveweight, capacity, dairy conformation and udder overall gBVs.

318021 Glanton Desi Banff:

The highest-ranking proven Jersey sire at LIC, Banff is well-liked by farmers. Out of the well-proven B family from the Glanton Stud of Rob and Alison Thwaites, Banff added 1,666 herd tested daughters in October & November (for a total of 2042). Many farmers comment that Banff daughters are the standout production two year-old daughters in their herds; this comes as no surprise with his combined protein and fat gBV of 69kgs.

Some of the best cow families are behind these bulls, and many genomic young sires of these cows are currently being used in contract mating and LIC's embryo transfer programme. The legacy of these great cows will continue, we await with excitement the proofs of their future sons over the next few years. These bulls graduating emphasise the importance of generations of great cow families.

Daughter of GALLIVANT

JE6238 ULMARRA TT GALLIVANT

EBI/REL **240/74%**

IRELAND VALUES

Milk Prod SI	120	Calving Interval (days)	-3.35
Fertility SI	72	Survival	2.37
Carbon SI	28	Cow Calving Difficulty	2.02
Calving SI	32	Heifer Calving Difficulty	4.58
Beef SI	-71	Somatic Cell Count	-0.04
Health SI	5	Milk kg	-219
Maintenance SI	52	Fat kg/%	25/0.62
Management SI	3	Protein kg/%	8/0.28

NEW ZEALAND DETAILS — 140 NZ Daughters

HoofPrint®

gBW/Rel **432/93%**

Breeding Details

Split	J16
Sire	THORNWOOD OLM THOR
MGS	MARSDEN NN EXCELL ET
MGGS	GLENHAVEN TGM GENIUS S3J

Volume	-120 l	Protein	17/4.3	Milkfat	48/5.9
Somatic Cell	-0.04	Cow CD	-0.5/96	Heifer CD	-2.3/97
Gestation Length	-0.3 days	Body Cond	0.06	Func Surv	2.7 %
Fertility	5.8 %	Liveweight	-4 kg	Udd Over	0.58

NZ Evaluation Data — 117 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.31	
Shed Temperament	0.32	
Milking Speed	0.02	
Overall Opinion	0.38	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.32	
Capacity	0.62	
Rump Angle	-0.19	
Rump Width	-0.06	
Legs	0.10	
Udder Support	0.32	
Front Udder	0.70	
Rear Udder	0.71	
Front Teat Placement	0.09	
Rear Teat Placement	-0.06	
Teat Length	0.25	
Udder Overall	0.58	
Dairy Conformation	0.57	

LIC Initiatives — DP - INT

High Input	1393
VMSI	1343
A2 Protein	A1/A2

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Dam of MONTAGE

JE8859 TIRONUI GB MONTAGE-ET

EBI/REL **252/43%**

IRELAND VALUES

Milk Prod SI	68	Calving Interval (days)	-3.46
Fertility SI	126	Survival	6.67
Carbon SI	25	Cow Calving Difficulty	3.51
Calving SI	5	Heifer Calving Difficulty	7.17
Beef SI	-18	Somatic Cell Count	-0.02
Health SI	15	Milk kg	-457
Maintenance SI	26	Fat kg/%	14/0.61
Management SI	3	Protein kg/%	0/0.28

NEW ZEALAND DETAILS — 140 NZ Daughters

HoofPrint®

gBW/Rel **412/85%**

Breeding Details

Split	J16
Sire	GLANTON SS BASTILLE S3J
MGS	OKURA LT INTEGRITY
MGGS	NOAKES NEVVY S3J

Volume	46 l	Protein	22/4.2	Milkfat	41/5.6
Somatic Cell	-0.20	Cow CD	-0.9/79	Heifer CD	-3.1/73
Gestation Length	1.7 days	Body Cond	0.25	Func Surv	2.6 %
Fertility	0.1 %	Liveweight	-14 kg	Udd Over	0.54

NZ Evaluation Data — 40 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.26	
Shed Temperament	0.25	
Milking Speed	0.11	
Overall Opinion	0.46	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.36	
Capacity	1.08	
Rump Angle	-0.18	
Rump Width	-0.07	
Legs	0.09	
Udder Support	0.29	
Front Udder	0.41	
Rear Udder	0.51	
Front Teat Placement	0.31	
Rear Teat Placement	-0.01	
Teat Length	0.32	
Udder Overall	0.54	
Dairy Conformation	0.94	

LIC Initiatives

High Input	1371
VMSI	1330
A2 Protein	A2/A2

11/11/2022

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Daughter of LAMAR

JE7998 GLENUI SUPER LAMAR

EBI/REL **216/68%**

IRELAND VALUES

Milk Prod SI	112	Calving Interval (days)	-2.03
Fertility SI	44	Survival	1.51
Carbon SI	21	Cow Calving Difficulty	1.47
Calving SI	47	Heifer Calving Difficulty	3.45
Beef SI	-69	Somatic Cell Count	-0.08
Health SI	10	Milk kg	-184
Maintenance SI	41	Fat kg/%	25/0.58
Management SI	9	Protein kg/%	8/0.25

NEW ZEALAND DETAILS — 1462 NZ Daughters

HoofPrint®

gBW/Rel **459/97%**

Breeding Details

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

Volume	-46 l	Protein	11/4.1	Milkfat	50/5.9
Somatic Cell	-0.61	Cow CD	-0.8/91	Heifer CD	-1.9/91
Gestation Length	-2.6 days	Body Cond	-0.03	Func Surv	3.4 %
Fertility	2.2 %	Liveweight	-48 kg	Udd Over	0.77

NZ Evaluation Data — 137 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.32				
Shed Temperament	0.32				
Milking Speed	0.16				
Overall Opinion	0.33				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.77				
Capacity	0.42				
Rump Angle	-0.59				
Rump Width	0.53				
Legs	0.12				
Udder Support	0.62				
Front Udder	0.53				
Rear Udder	0.84				
Front Teat Placement	0.32				
Rear Teat Placement	0.54				
Teat Length	-0.69				
Udder Overall	0.77				
Dairy Conformation	0.46				

LIC Initiatives

High Input	1416
VMSI	1395
A2 Protein	A2/A2

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Daughter of LABYRINTH

JE8751 SHELBY INTEG LABYRINTH ET

EBI/REL **185/62%**

IRELAND VALUES

Milk Prod SI	158	Calving Interval (days)	-1.94
Fertility SI	45	Survival	1.62
Carbon SI	18	Cow Calving Difficulty	1.71
Calving SI	36	Heifer Calving Difficulty	3.75
Beef SI	-63	Somatic Cell Count	-0.01
Health SI	4	Milk kg	-70
Maintenance SI	48	Fat kg/%	34/0.61
Management SI	3	Protein kg/%	14/0.27

NEW ZEALAND DETAILS — 142 NZ Daughters

HoofPrint®

gBW/Rel **511/91%**

Breeding Details

Split	J16
Sire	OKURA LT INTEGRITY
MGS	ARRIETA NN DEGREE ET
MGGS	OKURA MANHATTEN ET SJ3

Volume	-19 l	Protein	22/4.3	Milkfat	57/6.0
Somatic Cell	-0.47	Cow CD	-0.4/74	Heifer CD	-2.3/51
Gestation Length	-0.8 days	Body Cond	0.14	Func Surv	2.7 %
Fertility	-2.2 %	Liveweight	-37 kg	Udd Over	0.32

NZ Evaluation Data — 104 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.06				
Shed Temperament	0.05				
Milking Speed	0.05				
Overall Opinion	0.24				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-1.04				
Capacity	0.78				
Rump Angle	-0.20				
Rump Width	0.03				
Legs	0.13				
Udder Support	0.30				
Front Udder	0.12				
Rear Udder	0.41				
Front Teat Placement	0.14				
Rear Teat Placement	0.43				
Teat Length	-0.47				
Udder Overall	0.32				
Dairy Conformation	0.64				

LIC Initiatives

High Input	1444
VMSI	1423
A2 Protein	A1/A2

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Daughter of SUPERMAN

JE8088 TIRONUI SUPERMAN ET

EBI/REL **214/68%**

IRELAND VALUES

Milk Prod SI	140	Calving Interval (days)	-0.78
Fertility SI	28	Survival	1.50
Carbon SI	17	Cow Calving Difficulty	2.12
Calving SI	42	Heifer Calving Difficulty	5.13
Beef SI	-65	Somatic Cell Count	-0.05
Health SI	9	Milk kg	-260
Maintenance SI	38	Fat kg/%	27/0.68
Management SI	6	Protein kg/%	10/0.35

NEW ZEALAND DETAILS — 2030 NZ Daughters

HoofPrint®

gBW/Rel **452/97%**

Breeding Details

Split	J16
Sire	PUKETAWA AD SUPERSTITION
MGS	OKURA LT INTEGRITY
MGGS	NOAKES NEVVY S3J

Volume	-51 l	Protein	22/4.3	Milkfat	53/6.0
Somatic Cell	-0.05	Cow CD	-0.1/96	Heifer CD	-1.9/96
Gestation Length	-2.4 days	Body Cond	-0.09	Func Surv	1.3 %
Fertility	-1.0 %	Liveweight	-34 kg	Udd Over	0.61

NZ Evaluation Data — 112 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.15				
Shed Temperament	0.15				
Milking Speed	0.04				
Overall Opinion	0.29				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.53				
Capacity	0.43				
Rump Angle	-0.90				
Rump Width	0.49				
Legs	0.07				
Udder Support	0.47				
Front Udder	0.44				
Rear Udder	0.77				
Front Teat Placement	0.07				
Rear Teat Placement	0.03				
Teat Length	0.02				
Udder Overall	0.61				
Dairy Conformation	0.47				

LIC Initiatives

High Input	1425
VMSI	1401
A2 Protein	A2/A2

11/11/2022

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Daughter of BANFF

JE8085 GLANTON DESI BANFF

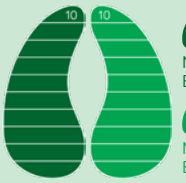
EBI/REL **247/67%**

IRELAND VALUES

Milk Prod SI	113	Calving Interval (days)	-3.41
Fertility SI	57	Survival	1.16
Carbon SI	29	Cow Calving Difficulty	1.75
Calving SI	38	Heifer Calving Difficulty	4.15
Beef SI	-66	Somatic Cell Count	-0.11
Health SI	14	Milk kg	-496
Maintenance SI	48	Fat kg/%	20/0.74
Management SI	14	Protein kg/%	5/0.41

NEW ZEALAND DETAILS — 2042 NZ Daughters

HoofPrint®



gBW/Rel **516/97%**

Breeding Details

Split	J16
Sire	ARRIETA TERRIFIC DESI ET
MGS	TAWA GROVE KRC TANA
MGGS	OKURA MANHATTEN ET SJ3

Volume	-583 l	Protein	17/4.8	Milkfat	51/6.7
Somatic Cell	-0.39	Cow CD	-1.1/97	Heifer CD	-2.2/97
Gestation Length	-7.7 days	Body Cond	0.13	Func Surv	2.5 %
Fertility	2.6 %	Liveweight	-27 kg	Udd Over	0.34

NZ Evaluation Data — 152 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.40				
Shed Temperament	0.42				
Milking Speed	0.06				
Overall Opinion	0.43				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.75				
Capacity	0.66				
Rump Angle	-0.35				
Rump Width	0.37				
Legs	0.08				
Udder Support	0.09				
Front Udder	0.36				
Rear Udder	0.45				
Front Teat Placement	-0.02				
Rear Teat Placement	-0.61				
Teat Length	-0.14				
Udder Overall	0.34				
Dairy Conformation	0.58				

LIC Initiatives

High Input	1433
VMSI	1395
A2 Protein	A2/A2

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Dam of MARCO

TBC OKURA TIRONUI BT MARCO ET

EBI/REL **269/58%**

IRELAND VALUES

Milk Prod SI	135	Calving Interval (days)	-2.33
Fertility SI	90	Survival	4.92
Carbon SI	27	Cow Calving Difficulty	2.26
Calving SI	34	Heifer Calving Difficulty	4.51
Beef SI	-71	Somatic Cell Count	0.02
Health SI	4	Milk kg	-282
Maintenance SI	45	Fat kg/%	24/0.64
Management SI	5	Protein kg/%	10/0.36

NEW ZEALAND DETAILS — 183 NZ Daughters

HoofPrint®

gBW/Rel **421/88%**

Breeding Details

Split	J16
Sire	BRAEDENE PAS TRIPLESTAR
MGS	OKURA LT INTEGRITY
MGGS	NOAKES NEVVY S3J

Volume	-303 l	Protein	16/4.4	Milkfat	50/6.2
Somatic Cell	0.16	Cow CD	-0.6/86	Heifer CD	-0.4/76
Gestation Length	1.5 days	Body Cond	0.18	Func Surv	1.3 %
Fertility	0.4 %	Liveweight	-11 kg	Udd Over	0.30

NZ Evaluation Data — 88 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.14				
Shed Temperament	0.14				
Milking Speed	-0.04				
Overall Opinion	0.21				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.59				
Capacity	0.72				
Rump Angle	-0.51				
Rump Width	0.27				
Legs	0.08				
Udder Support	0.13				
Front Udder	0.19				
Rear Udder	0.30				
Front Teat Placement	0.21				
Rear Teat Placement	-0.03				
Teat Length	0.57				
Udder Overall	0.30				
Dairy Conformation	0.55				

LIC Initiatives

High Input	1367
VMSI	1327
A2 Protein	A2/A2

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Half Sister of LEXICON

TBC CAREYS CM LEXICON S2J

EBI/REL **248/39%**

IRELAND VALUES

Milk Prod SI	82	Calving Interval (days)	-1.56
Fertility SI	109	Survival	7.16
Carbon SI	20	Cow Calving Difficulty	3.10
Calving SI	9	Heifer Calving Difficulty	6.99
Beef SI	4	Somatic Cell Count	-0.02
Health SI	7	Milk kg	-544
Maintenance SI	20	Fat kg/%	13/0.66
Management SI	-4	Protein kg/%	1/0.38

NEW ZEALAND DETAILS — 99 NZ Daughters

HoofPrint®

gBW/Rel **453/84%**

Breeding Details

Split	J16
Sire	CRESCENT EXCELL MONOPOLY
MGS	OKURA LT INTEGRITY
MGGS	PUKEROA TGM MANZELLO

Volume	-506 l	Protein	16/4.6	Milkfat	47/6.5
Somatic Cell	-0.09	Cow CD	-2.1/71	Heifer CD	-2.1/39
Gestation Length	-4.5 days	Body Cond	0.23	Func Surv	3.2 %
Fertility	-0.4 %	Liveweight	-11 kg	Udd Over	0.62

NZ Evaluation Data — 68 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.12				
Shed Temperament	0.12				
Milking Speed	0.05				
Overall Opinion	0.35				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.79				
Capacity	0.86				
Rump Angle	0.05				
Rump Width	-0.28				
Legs	0.09				
Udder Support	0.52				
Front Udder	0.62				
Rear Udder	0.58				
Front Teat Placement	0.13				
Rear Teat Placement	0.08				
Teat Length	-0.32				
Udder Overall	0.62				
Dairy Conformation	0.65				

LIC Initiatives

High Input	1414
VMSI	1369
A2 Protein	A2/A2

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Daughter of SAMURAI

JE8853 LITTLE RIVER OI SAMURAI

EBI/REL 221/61%

IRELAND VALUES

Milk Prod SI	144	Calving Interval (days)	-2.24
Fertility SI	46	Survival	1.45
Carbon SI	27	Cow Calving Difficulty	1.65
Calving SI	36	Heifer Calving Difficulty	3.71
Beef SI	-67	Somatic Cell Count	0.08
Health SI	4	Milk kg	-189
Maintenance SI	53	Fat kg/%	28/0.60
Management SI	5	Protein kg/%	12/0.31

NEW ZEALAND DETAILS — 123 NZ Daughters

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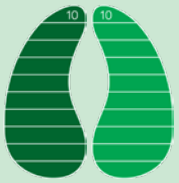

gBW/Rel 437/89%

Breeding Details

Split	J16
Sire	OKURA LT INTEGRITY
MGS	GLENHAVEN TGM GENIUS S3J
MGGS	OKURA MANHATTEN ET SJ3

Volume	-213 l	Protein	17/4.4	Milkfat	41/5.9
Somatic Cell	0.51	Cow CD	-1.8/69	Heifer CD	-1.9/50
Gestation Length	-1.0 days	Body Cond	0.11	Func Surv	4.2 %
Fertility	3.3 %	Liveweight	-57 kg	Udd Over	0.27

NZ Evaluation Data — 70 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.50				
Shed Temperament	0.50				
Milking Speed	0.40				
Overall Opinion	0.60				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.96				
Capacity	0.69				
Rump Angle	0.07				
Rump Width	-0.38				
Legs	0.17				
Udder Support	0.14				
Front Udder	0.40				
Rear Udder	0.15				
Front Teat Placement	0.18				
Rear Teat Placement	0.07				
Teat Length	-0.13				
Udder Overall	0.27				
Dairy Conformation	0.55				

LIC Initiatives

High Input	1378
VMSI	1346
A2 Protein	A2/A2

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Dam of TITUS

TBC THORNWOOD BANFF TITUS

EBI/REL 112/45%

IRELAND VALUES

Milk Prod SI	68	Calving Interval (days)	0.55
Fertility SI	-9	Survival	-0.18
Carbon SI	28	Cow Calving Difficulty	1.63
Calving SI	37	Heifer Calving Difficulty	3.39
Beef SI	-69	Somatic Cell Count	-0.10
Health SI	1	Milk kg	-395
Maintenance SI	47	Fat kg/%	9/0.46
Management SI	9	Protein kg/%	2/0.29

NEW ZEALAND DETAILS — 0 NZ Daughters

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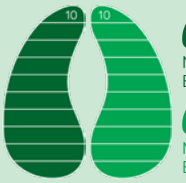

gBW/Rel 480/57%

Breeding Details

Split	J16
Sire	GLANTON DESI BANFF
MGS	PUHIPUHI CAPS GOLDIE S3J
MGGS	ARRIETA NN DEGREE ET

Volume	-480 l	Protein	15/4.6	Milkfat	36/6.2
Somatic Cell	-0.41	Cow CD	-0.8/91	Heifer CD	-0.9/87
Gestation Length	-4.1 days	Body Cond	0.19	Func Surv	3.4 %
Fertility	8.7 %	Liveweight	-30 kg	Udd Over	0.69

NZ Evaluation Data — 0 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.52				
Shed Temperament	0.54				
Milking Speed	0.09				
Overall Opinion	0.48				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.57				
Capacity	0.52				
Rump Angle	-0.20				
Rump Width	0.33				
Legs	-0.01				
Udder Support	0.45				
Front Udder	0.50				
Rear Udder	0.97				
Front Teat Placement	0.03				
Rear Teat Placement	-0.17				
Teat Length	-0.12				
Udder Overall	0.69				
Dairy Conformation	0.63				

LIC Initiatives

High Input	1423
VMSI	1369
A2 Protein	A2/A2

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Daughter of LOTTO

JE8763 SHELBY BC LOTTO ET S3J

EBI/REL **206/63%**

IRELAND VALUES

Milk Prod SI	149	Calving Interval (days)	-3.11
Fertility SI	53	Survival	1.10
Carbon SI	15	Cow Calving Difficulty	1.65
Calving SI	46	Heifer Calving Difficulty	3.70
Beef SI	-54	Somatic Cell Count	0.04
Health SI	-2	Milk kg	-49
Maintenance SI	38	Fat kg/%	26/0.47
Management SI	6	Protein kg/%	15/0.28

NEW ZEALAND DETAILS — 1324 NZ Daughters

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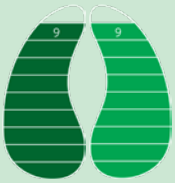

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **411/96%**

Breeding Details

Split	J16
Sire	BELLS CM CONRAD S2J
MGS	ARRIETA NN DEGREE ET
MGGS	OKURA MANHATTEN ET SJ3

Volume	-122 l	Protein	22/4.4	Milkfat	37/5.7
Somatic Cell	0.04	Cow CD	-0.5/94	Heifer CD	-2.2/96
Gestation Length	-0.4 days	Body Cond	0.00	Func Surv	2.7 %
Fertility	4.6 %	Liveweight	-31 kg	Udd Over	0.31

NZ Evaluation Data — 119 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.05				
Shed Temperament	0.03				
Milking Speed	0.26				
Overall Opinion	0.15				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.55				
Capacity	0.12				
Rump Angle	-0.68				
Rump Width	0.15				
Legs	0.14				
Udder Support	0.14				
Front Udder	0.33				
Rear Udder	0.12				
Front Teat Placement	0.32				
Rear Teat Placement	-0.02				
Teat Length	0.45				
Udder Overall	0.31				
Dairy Conformation	0.20				

LIC Initiatives

High Input	1359
VMSI	1341
A2 Protein	A2/A2

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Daughter of LAREDO

JE8760 GLENUI BC LAREDO ET S3J

EBI/REL **202/64%**

IRELAND VALUES

Milk Prod SI	131	Calving Interval (days)	-3.27
Fertility SI	52	Survival	0.86
Carbon SI	20	Cow Calving Difficulty	1.64
Calving SI	45	Heifer Calving Difficulty	3.63
Beef SI	-60	Somatic Cell Count	0.05
Health SI	2	Milk kg	2
Maintenance SI	41	Fat kg/%	24/0.40
Management SI	7	Protein kg/%	14/0.23

NEW ZEALAND DETAILS — 1003 NZ Daughters

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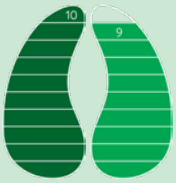

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **324/96%**

Breeding Details

Split	J16
Sire	BELLS CM CONRAD S2J
MGS	OKURA LT INTEGRITY
MGGS	NOAKES NEVVY S3J

Volume	-17 l	Protein	18/4.2	Milkfat	16/5.1
Somatic Cell	0.29	Cow CD	-0.6/88	Heifer CD	-2.2/87
Gestation Length	-2.9 days	Body Cond	0.14	Func Surv	4.7 %
Fertility	4.8 %	Liveweight	-51 kg	Udd Over	0.69

NZ Evaluation Data — 108 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.45				
Shed Temperament	0.46				
Milking Speed	0.21				
Overall Opinion	0.59				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.97				
Capacity	0.32				
Rump Angle	-0.20				
Rump Width	-0.05				
Legs	0.01				
Udder Support	0.51				
Front Udder	0.36				
Rear Udder	0.73				
Front Teat Placement	0.34				
Rear Teat Placement	0.25				
Teat Length	-0.02				
Udder Overall	0.69				
Dairy Conformation	0.39				

LIC Initiatives

High Input	1304
VMSI	1268
A2 Protein	A2/A2

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Dam of LUCIAN

JE8757 GLENUI GB LUCIAN

EBI/REL **155/38%**

IRELAND VALUES

Milk Prod SI	32	Calving Interval (days)	-0.97
Fertility SI	32	Survival	1.60
Carbon SI	20	Cow Calving Difficulty	2.28
Calving SI	24	Heifer Calving Difficulty	5.74
Beef SI	4	Somatic Cell Count	-0.12
Health SI	14	Milk kg	-389
Maintenance SI	29	Fat kg/%	6/0.40
Management SI	1	Protein kg/%	-3/0.19

NEW ZEALAND DETAILS — 172 NZ Daughters

HoofPrint®

gBW/Rel **284/87%**

Breeding Details

Split	J16
Sire	GLANTON SS BALTIC ET S3J
MGS	PUHIPUHI CAPS GOLDIE S3J
MGGS	OKURA LT INTEGRITY

Volume	-720 l	Protein	3/4.6	Milkfat	22/6.2
Somatic Cell	0.23	Cow CD	-1.2/93	Heifer CD	-2.2/93
Gestation Length	-4.2 days	Body Cond	0.37	Func Surv	5.5 %
Fertility	5.5 %	Liveweight	16 kg	Udd Over	0.58

NZ Evaluation Data — 79 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.20	
Shed Temperament	0.18	
Milking Speed	0.37	
Overall Opinion	0.39	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.60	
Capacity	1.37	
Rump Angle	-0.47	
Rump Width	0.37	
Legs	0.01	
Udder Support	0.56	
Front Udder	0.39	
Rear Udder	0.69	
Front Teat Placement	0.12	
Rear Teat Placement	0.48	
Teat Length	-0.45	
Udder Overall	0.58	
Dairy Conformation	1.07	

LIC Initiatives

High Input	1270
VMSI	1209
A2 Protein	A2/A2

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Dam of ZAMBEZI

JE8754 ARKAN BT ZAMBEZI S3J

EBI/REL **245/57%**

IRELAND VALUES

Milk Prod SI	95	Calving Interval (days)	-3.78
Fertility SI	77	Survival	2.37
Carbon SI	34	Cow Calving Difficulty	1.28
Calving SI	50	Heifer Calving Difficulty	3.52
Beef SI	-73	Somatic Cell Count	-0.02
Health SI	4	Milk kg	-358
Maintenance SI	46	Fat kg/%	17/0.58
Management SI	11	Protein kg/%	5/0.31

NEW ZEALAND DETAILS — 100 NZ Daughters

HoofPrint®

gBW/Rel **337/83%**

Breeding Details

Split	J16
Sire	BRAEDENE PAS TRIPLESTAR
MGS	SOUTH LAND CAPSTAN SJ3
MGGS	VAN DER FITS FJORD GR

Volume	-384 l	Protein	15/4.5	Milkfat	29/5.9
Somatic Cell	0.24	Cow CD	-2.3/90	Heifer CD	-1.6/92
Gestation Length	-1.3 days	Body Cond	0.00	Func Surv	-1.5 %
Fertility	1.9 %	Liveweight	-52 kg	Udd Over	0.07

NZ Evaluation Data — 52 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.01	
Shed Temperament	0.00	
Milking Speed	0.20	
Overall Opinion	0.10	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.98	
Capacity	0.44	
Rump Angle	-0.40	
Rump Width	0.37	
Legs	0.36	
Udder Support	-0.26	
Front Udder	0.10	
Rear Udder	0.20	
Front Teat Placement	0.15	
Rear Teat Placement	-0.30	
Teat Length	0.35	
Udder Overall	0.07	
Dairy Conformation	0.43	

LIC Initiatives

High Input	1279
VMSI	1261
A2 Protein	A2/A2

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Daughter of DEXTER

JE5061 RIVERVIEW AND DEXTER S2J

EBI/REL **153/82%**

IRELAND VALUES

Milk Prod SI	87	Calving Interval (days)	-0.86
Fertility SI	46	Survival	2.83
Carbon SI	23	Cow Calving Difficulty	2.22
Calving SI	22	Heifer Calving Difficulty	5.39
Beef SI	-64	Somatic Cell Count	-0.06
Health SI	-1	Milk kg	-204
Maintenance SI	41	Fat kg/%	14/0.39
Management SI	-2	Protein kg/%	7/0.25

NEW ZEALAND DETAILS 3022 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **359/98%**

Breeding Details

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

Volume	-62 l	Protein	19/4.3	Milkfat	31/5.5
Somatic Cell	-0.31	Cow CD	-0.4/97	Heifer CD	-1/97
Gestation Length	-1.5 days	Body Cond	0.19	Func Surv	3.7 %
Fertility	1.4 %	Liveweight	-9 kg	Udd Over	0.66

NZ Evaluation Data 145 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.18				
Shed Temperament	0.17				
Milking Speed	0.24				
Overall Opinion	0.37				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.48				
Capacity	0.78				
Rump Angle	-0.07				
Rump Width	0.34				
Legs	-0.02				
Udder Support	0.48				
Front Udder	0.63				
Rear Udder	0.20				
Front Teat Placement	0.73				
Rear Teat Placement	0.68				
Teat Length	0.27				
Udder Overall	0.66				
Dairy Conformation	0.68				

LIC Initiatives

High Input	1334
VMSI	1309
A2 Protein	A2/A2

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Daughter of FLOYD

JE5992 BELLS OI FLOYD S3J

EBI/REL **263/76%**

IRELAND VALUES

Milk Prod SI	144	Calving Interval (days)	-2.77
Fertility SI	65	Survival	2.46
Carbon SI	19	Cow Calving Difficulty	2.05
Calving SI	41	Heifer Calving Difficulty	4.62
Beef SI	-78	Somatic Cell Count	-0.05
Health SI	12	Milk kg	60
Maintenance SI	53	Fat kg/%	29/0.46
Management SI	8	Protein kg/%	15/0.23

NEW ZEALAND DETAILS 11590 NZ Daughters

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

gBW/Rel **332/99%**

Breeding Details

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

Volume	177 l	Protein	21/4.1	Milkfat	33/5.3
Somatic Cell	-0.26	Cow CD	-1.5/98	Heifer CD	-1.8/99
Gestation Length	-2.2 days	Body Cond	0.28	Func Surv	3.4 %
Fertility	0.6 %	Liveweight	5 kg	Udd Over	0.34

NZ Evaluation Data 468 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.14				
Shed Temperament	0.14				
Milking Speed	-0.08				
Overall Opinion	0.33				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.13				
Capacity	0.59				
Rump Angle	0.24				
Rump Width	0.42				
Legs	-0.09				
Udder Support	0.38				
Front Udder	0.18				
Rear Udder	0.58				
Front Teat Placement	-0.24				
Rear Teat Placement	-0.14				
Teat Length	-0.07				
Udder Overall	0.34				
Dairy Conformation	0.57				

LIC Initiatives

High Input	1301
VMSI	1262
A2 Protein	A2/A2

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WHAT'S NEW IN BREEDING WORTH?

The latest on NZ animal evaluation enhancements.

BW traits are divided into **Production Efficiency** and **Robustness** traits.

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. These traits have moderate to low heritability and are important for cow health and survival in the herd. Refer to Page 7 for trait weightings.

Technological advances are enabling enhanced animal evaluation worldwide, and BW is no exception. Dec 2021 and April 2022 saw significant changes to the NZAEL 3.0 model[1], including changes to Fertility and Liveweight BV calculations, the swapping out of Residual Survival and Total Longevity for a new trait called Functional Survival (FS), and addition of another new trait, Udder Overall, (UO). Enhancements to body condition score and milk production estimation have increased the accuracy of predictions. Teat Length BVs are also now available in the TOP conformation traits.

Udder Overall (UO) BV

Udder conformation is important for good udder health and to help reduce the risk of udder failure.

A new trait, Udder Overall was added to BW in April 2022. The trait combines 6 udder conformation traits relating to teat placement, teat length, front and rear udder attachment, suspensory ligament strength and udder depth.

The Economic Value (EV) for UO is the first non-linear EV in BW, reflecting the greater cost of poor udders and the diminishing returns for improving udder conformation BV beyond +0.25.

The LIC breeding scheme's historic focus on udder traits means LIC bulls, on average, received a BW boost from the inclusion of UO.

Fertility BV enhancements

A revamp of the fertility model has changed the estimation of fertility BV by putting more focus on how early in the herd's calving block a cow calves. It uses Calving Season Day, the day on which the cow calved relative to her herd's planned start of calving.

This enhanced fertility index awards a higher fertility score to the cow who calved earlier in the calving block than a cow that calved later. It utilises key fertility phenotypes, including calving and insemination data recorded on first-calving to fourth-calving cows, and has less reliance on the predictor traits.

A greater spread of Fertility BVs can be seen since the change was incorporated in Dec 2021, See Figure1.

The definition for fertility BV remains as CR42 (% calving within 42 days from the planned start of calving). More enhancements to Fertility BV are under investigation.

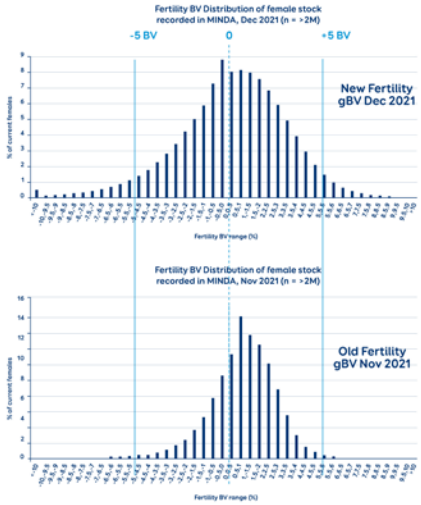

Figure1. Distribution of Fertility gBV under old and new model, as at Dec 2021 for >2 M current females recorded in MINDA®.
Source: LIC,2022

Functional Survival (FS) BV

A new trait 'Functional Survival' (FS) replaced Residual Survival (RS) and Total Longevity in Dec 2021.

FS estimates the 'likely percentage of cows surviving to the next lactation, independent of culling for low fertility or production'[2], compared to the genetic base. It uses new calculation methods and cow phenotypic information from herds with high-quality culling records.

Given the length of time it takes to obtain phenotypic records for survival, predictor traits are used to provide an early indication of FS. The predictor traits are: body condition score, legs, udder-overall, and milking speed.

Liveweight (Lwt) BV

Liveweight BV calculations now exclude TOP weight estimates and only use static weights. This change has resulted in more BV variation within breed. On average, Jerseys have increased in Lwt BV more than Friesians. Increased liveweight comes at a cost to production efficiency, which is reflected in BW.

Teat Length BV

Teat length is important for milking ease. For several years, phenotypic data has been collected on the teat length of sire-proving first-lactation heifers. This information, plus a desire to put more focus on teat length, has led to the release of the teat length breeding value. Teat length is moderately heritable in cattle, with 35% of the observed variation in teat length due to additive genetic merit. The new trait allows farmers to assess teat length BV and breed towards their ideal length. The trait is assessed in 2-year-old lactating cows. The rear teat length is scored on a scale of 1-9, where each increment equates to approximately 1 cm in teat length. A breeding value of 0 equates to a raw score of around 4. The recommended ideal length is TOP score 4-5.

A study of >3500 daughters of LIC bulls of BV -1, 0 and +1 showed an average phenotypic teat length difference of about 5-6 mm per 1 BV (Figure 2).

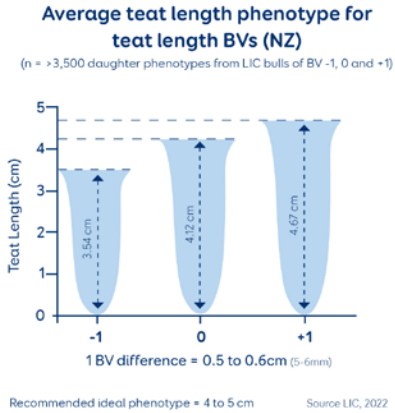

Figure 2. Average teat length phenotype for 2-year-old daughters of LIC bulls of BV -1, 0, and +1

References: 1.www.dairynz.co.nz/animal/animal-evaluation/the-nzael-30-launch/ 2.www.dairynz.co.nz/animal/animal-evaluation/interpreting-the-info/breeding-values/ Accessed Oct 2022

THE CREAM OF THE CROP RISES TO THE TOP!

by Adrian Young, LIC senior sire analyst

In the KiwiCross® space, we've seen some great performances in the daughters of our bulls. Of the top 50 crossbred bulls available on the New Zealand RAS list, 48 have come from the LIC stable. Outlined below are a selection of outstanding graduates.

518038 Werders Premonition:

Bred by Thomas & Courtney Werder of Patea, this bull was profiled in last year's catalogue, and it appears he's improved on his potential after adding over 2,500 daughters to his proof. This Sierra son is now sitting at $494 gBW with a combined 93kg solids at 6% fat & 4.3% protein. Add in his udder overall of 0.64, it's hard to ignore this bull in any bull team.

519073 Rhantana Olympic:

Bred from the Rhantana stud outside Paeroa, Olympic really brings conformation traits to the fore. With a capacity of 1.01 & an udder overall BV of 0.53, he really ranks in the top end of dairy conformation. With a combined solids of 74kg at 5.7% fat & 4.3% protein, this easy calving, outcross bull should be in every bull team.

519069 Van Straalens Defender:

With Defender we add another outcross to the bull team for the coming year. A Marshalls Silver Lining son bred from an outstanding Speed Dial dam with a massive PW of 840. Defender clearly brings his dam's production to the table with a massive 101kg of solids, a fertility BV of 3.0 & an udder overall of 0.7.

Dam of 519069 Defender

KIWICROSS®

Bull Code	IRE AB Code	Bull Name	Breed Split	gBW/Rel	Fertility %	Milk Volume	Fat Kg	Protein Kg	Fat %	Protein %	Somatic Cell Score	Functional Survival	Heifer CD/ Rel%	Cow CD/Rel%	Liveweight	Body Condition Score	Capacity
KiwiCross®																	
518053	JEX203	PAYNES PROMINENCE-ET*	F12J4	405/89	2.4	780	43	41	4.9	4.0	-0.29	3.6	3.1/30	-0.1/86	23	0.14	0.50
511011	ZSP	PRIESTS SIERRA	F11J5	360/99	5.3	507	45	30	5.2	4.0	-0.17	3.1	2.6/99	0.4/99	40	0.06	0.55
518063	JEX170	VAN STRAALENS SAFARI	F11J5	335/97	-0.1	444	32	28	5.0	4.0	-0.17	2.6	-0.9/84	-1/89	-6	0.15	0.78
519089	TBC	SCHRADERS TRADER*	F10J6	531/81	3.2	1401	77	56	4.9	3.8	0.35	2.6	-1.1/45	-0.5/68	41	0.10	1.09
518019	JEX152	DIGGS HARDCOPY*	F10J6	460/87	7.9	158	47	27	5.6	4.2	-0.57	2.2	-2.8/42	-0.9/66	15	0.16	0.38
519014	TBC	LYNBROOK KRYPTONITE*	F10J6	403/83	3.7	323	39	21	5.2	4.0	-0.20	1.9	0.3/42	-1.2/68	-38	-0.03	0.18
517055	FR6733	TARAMONT SPRINGTIDE	F10J6	356/91	-5.2	1032	54	48	4.8	3.9	0.38	0.6	1.1/87	-0.3/93	43	0.00	0.98
517001	TBC	ARKANS PATRIARCH-ET*	F10J6	324/98	2.1	-135	32	11	5.6	4.2	0.14	3.0	-0.3/97	-0.9/94	-19	0.13	0.38
519069	TBC	VAN STRAALENS DEFENDER*	F9J7	441/82	3.0	808	58	43	5.1	4.0	0.23	1.4	-1.8/36	-0.4/67	26	-0.07	0.45
520008	TBC	JULIAN MULTIPLIER-ET*	F9J7	416/58	2.9	288	45	31	5.4	4.2	0.12	3.3	-1.4/88	-0.1/89	9	0.07	0.66
519012	TBC	KOKOAMO K2*	F9J7	391/81	1.7	372	43	30	5.3	4.1	0.07	3.8	0.7/38	1.8/68	16	0.19	0.87
518061	JEX191	INNOVATION HOMEBREW*	F9J7	363/97	2.6	-286	40	18	6.0	4.4	0.12	5.4	0.5/97	-0.2/95	41	0.36	0.68
517042	FR6793	LUCK-AT-LAST INSPIRED-ET*	F9J7	360/98	-1.6	399	43	24	5.2	4.0	-0.06	2.1	0.2/99	-0.5/96	-8	0.11	0.73
515068	FR4965	WOODWARDS SPOT ON	F9J7	279/98	1.5	210	34	22	5.2	4.1	0.02	1.9	-0.7/99	-0.6/97	25	0.15	1.14
519034	TBC	GORDONS FLASH-GORDON*	F8J8	573/85	-0.4	1343	71	61	4.9	4.0	0.12	3.9	-0.1/72	0.1/69	14	0.08	0.41
518038	JEX143	WERDERS PREMONITION*	F8J8	494/97	-0.3	91	65	28	6.0	4.3	-0.35	3.7	0.4/99	-0.6/96	24	0.06	0.65
519073	TBC	RHANTANA OLYMPIC -ET*	F8J8	391/80	2.9	64	46	28	5.7	4.3	0.18	1.7	1.3/64	0.4/60	27	0.12	1.01
518017	JEX182	HORIZON BARNSTORMER-ET *	F8J8	294/97	3.7	598	43	30	5.0	3.9	-0.07	2.9	2.7/91	0.7/95	56	0.05	0.94
519010	TBC	BALANTIS TEMPEST-ET*	J9F7	458/84	0.4	802	64	40	5.2	4.0	0.22	2.4	1.9/70	0/63	27	0.10	1.01
520033	JEX155	DOWSON HONENUI-ET*	J9F7	360/57	3.1	-225	38	22	5.9	4.5	0.31	2.8	-1.2/95	-0.2/95	23	0.06	0.45
518072	JEX140	DEANS PROFESSIONAL*	J9F7	353/97	5.1	585	42	25	5.0	3.9	-0.02	4.3	0/98	0.3/96	23	0.27	0.37
515028	JE5896	ZONA CROSSFIRE	J9F7	348/92	10.3	260	23	20	5.0	4.0	-0.79	5.5	-1.8/41	-1.1/68	2	0.24	0.76
514018	JE4509	GLEN KORU EPIC	J9F7	234/99	-1.7	86	20	25	5.1	4.2	-0.08	1.0	-0.9/95	-0.9/96	-1	-0.02	0.37
515017	JE6007	LYNBROOK KARTELL*	J8F7A1	291/98	3.9	109	27	24	5.2	4.2	0.37	0.9	-0.9/99	-0.8/95	-5	-0.03	0.34
515025	JE6787	SPEAKES SLIPSTREAM	J10F6	341/98	3.5	-116	35	13	5.7	4.2	0.09	3.3	0.3/100	-0.1/99	-8	0.09	0.58
515059	JE5001	TAUNTS REVENGE	J10F6	304/92	6.3	196	40	25	5.4	4.2	0.52	0.3	-2.4/54	0.8/66	40	0.02	0.70
515066	JE6745	VAN STRAALENS DUEL	J10F6	288/91	3.3	-101	35	17	5.6	4.3	0.04	1.9	0.1/61	-0.4/75	37	0.12	0.74
515062	JE5893	DUGGANS GAMEPLAN	J12F4	471/97	6.3	-385	46	16	6.3	4.5	0.22	0.9	-2.4/95	-0.6/93	-40	0.02	0.25
The Forwards®																	
TBC	FR6892	LIC MOOREHILL MAX*	F12J4	428/52	4.6	739	51	37	5.0	4.0	-0.13	4.7	-0.1/31	-0.4/31	50	0.35	0.56
TBC	JEX197	LIC MOOREHILL EUPHORIA	F9J7	345/53	3.6	101	35	17	5.4	4.1	0.08	1.1	-1/30	-0.6/29	-29	-0.03	0.17
TBC	JEX161	LIC BROOKLAWN TORNADO EX	F9J7	283/54	1.9	312	32	20	5.1	4.0	-0.36	4.2	1.3/32	0.1/31	46	0.31	0.37
TBC	JE6898	LIC MOOREHILL GALAXY	F9J5	230/52	7.1	1	14	18	5.0	4.2	0.03	3.0	-0.2/28	-0.3/29	9	0.14	0.32
TBC	JE6895	LIC BROOKLAWN MOONLIGHT ECLIPSE	F8J8	286/53	1.2	34	22	22	5.2	4.2	-0.43	-0.1	-0.5/31	-0.6/31	-23	0.00	0.33
TBC	JE7194	LIC NEWBAWN LILY	F8J8	156/48	-1.1	133	28	11	5.2	3.9	-0.20	1.1	0.2/26	0.2/26	71	0.33	0.76
TBC	JE6886	LIC KILVOIGE AARON	J10F6	336/51	3.1	-141	42	11	5.8	4.2	0.17	2.6	-1.7/20	-0.5/23	2	0.17	0.62
TBC	JEX125	LIC MUINEMOR DOWLIN*	J11F5	360/53	2.3	248	48	27	5.5	4.2	0.04	3.0	-0.4/32	-0.3/32	58	0.27	0.89
TBC	JEX122	LIC TINNASHRULE TROJAN*	J12F4	438/52	8.8	435	51	29	5.3	4.0	-0.19	3.0	-1.3/31	-0.4/31	28	0.06	0.37

*Sexed semen is offered for Single AI use only. See page 12 for more information.
Kiwicross bulls are ranked on breed split
Publishing Date: 20/12/2022


PAYNES PROMINENCE-ET*


PRIESTS SIERRA


VAN STRAALENS SAFARI


SCHRADERS TRADER*


DIGGS HARDCOPY*


KOKOAMO K2*


INNOVATION HOMEBREW*


LUCK-AT-LAST INSPIRED-ET*


WOODWARDS SPOT ON


GORDONS FLASH-GORDON*


DEANS PROFESSIONAL*


ZONA CROSSFIRE


GLEN KORU EPIC


LYNBROOK KARTELL*


SPEAKES SLIPSTREAM

Udder Overall	HoofPrint® Nitrogen/ Methane	EBI/Rel%	Milk Prod SI	Fertility SI	Carbon SI	Milk Kg	Fat Kg	Protein Kg	Fat %	Protein %	Dairy Heifer Calv Diff	Dairy Cow Calv Diff	Sire Name	VMSI	High Input	Gestation Length (days)	A2/A2	Page
0.35	9/8	221/35	116	45	13	143	18	15	0.21	0.17	5.19	2.12	TREGARON TECHNICIAN S2F	1362	1392	-6.0	A1/A2	49
0.43	8/8	170/96	100	52	7	9	19	10	0.33	0.17	6.00	2.34	FAIRMONT MINT-EDITION	1327	1361	-6.6	A2/A2	46
0.73	7/7	214/45	109	41	15	52	17	13	0.26	0.20	5.75	1.88	MOORBYS FM GRANITE S2F	1306	1338	-0.9	A2/A2	40
0.16	10/10												MARSHALLS SILVER LINING	1484	1521	-10.3	A2/A2	44
0.21	10/10	314/62	85	139	41	-328	15	4	0.52	0.28	5.29	1.74	DRYSDALES SOVEREIGN	1372	1409	-7.8	A2/A2	45
0.95	9/9	138/44	79	19	27	-54	18	6	0.35	0.14	4.54	2.44	ARKANS PATRIARCH-ET	1368	1394	-6.5	A1/A2	46
1.05	6/6	123/69	119	7	5	202	18	17	0.17	0.17	5.30	2.35	DRYSDALES SOVEREIGN	1429	1455	-10.4	A2/A2	40
1.00	7/8	143/60	69	35	30	-109	13	6	0.30	0.17	4.29	2.03	KRAAKMANS JAYDIE	1294	1333	-4.1	A1/A2	50
0.70	9/8	125/37	43	20	16	-283	10	-1	0.39	0.17	5.12	1.93	MARSHALLS SILVER LINING	1422	1465	-5.4	A1/A2	48
0.76	8/8	228/25	98	62	18	3	18	10	0.32	0.19	5.22	2.12	GLEN KORU PROCLAIMER-ET	1376	1419	-2.0	A2/A2	47
0.73	7/7	121/41	73	13	20	-196	13	5	0.37	0.21	5.91	2.45	ARKANS BOUNTY	1367	1408	-1.4	A1/A2	45
0.59	7/8	168/51	37	76	23	-418	6	-2	0.42	0.23	4.71	1.96	ARRIETA BRANSON-ET	1286	1336	-7.2	A2/A2	49
0.73	7/7	216/70	113	74	12	80	20	13	0.30	0.18	5.86	2.23	SAN RAY FM BEAMER-ET S2F	1338	1368	-6.2	A2/A2	40
0.23	6/6	149/83	67	62	21	-177	12	5	0.33	0.19	5.87	2.13	VANSTRAALENS VIBE	1238	1278	2.0	A2/A2	40
0.46	9/9	179/52	131	32	-1	75	24	15	0.37	0.21	6.30	2.31	LINAN INTEGRITY WINSTON	1516	1551	3.3	A1/A2	44
0.64	8/8	178/48	111	23	5	-49	25	9	0.46	0.20	4.14	1.84	PRIESTS SIERRA	1445	1469	-7.3	A2/A2	43
0.53	8/8	139/39	56	30	-1	-203	11	3	0.34	0.17	7.27	2.60	BURMEISTERS HARDCORE	1360	1405	-4.2	A2/A2	43
0.13	7/7	209/67	89	79	19	-71	15	9	0.31	0.20	5.40	2.26	PRIESTS SIERRA	1268	1299	-9.3	A2/A2	50
0.47	7/8	280/43	100	115	6	-149	17	9	0.42	0.24	3.24	1.47	ARKANS BOUNTY	1403	1456	-3.0	A2/A2	47
1.05	7/7	51/14	56	-42	1	-289	10	2	0.39	0.21	5.89	1.82	GREENWELL BLACKHAWK	1346	1395	0.0	A2/A2	40
0.27	8/8	134/52	88	17	0	-159	18	6	0.44	0.21	6.47	2.00	TIRONUI LT BESIEGE ET	1287	1321	-3.4	A2/A2	48
0.12	9/9	277/75	76	118	30	-57	14	7	0.28	0.16	4.65	1.88	PRIESTS SOLARIS-ET	1252	1288	-2.7	A2/A2	52
0.30	6/6	172/93	96	64	17	-25	13	11	0.24	0.22	5.19	2.05	SERPENTINE CRUSADER	1233	1235	1.0	A2/A2	40
0.47	8/8	246/71	99	100	30	-159	13	10	0.35	0.27	4.22	2.01	HOWIES ARKAN RAMADA ET	1264	1291	-4.5	A1/A2	51
0.96	7/8	213/74	100	78	25	-213	19	7	0.49	0.26	5.58	2.44	PUKEROA TGM MANZELLO	1313	1354	1.1	A2/A2	40
0.40	7/7	247/81	139	60	6	-18	24	15	0.43	0.27	4.82	2.17	PUKEROA TGM MANZELLO	1272	1317	-3.5	A2/A2	40
0.50	7/7	198/67	116	34	17	-166	21	10	0.50	0.27	5.22	2.30	PILSENS TITAN	1255	1300	-6.4	A1/A2	40
0.60	10/10	230/77	116	38	33	-372	19	7	0.63	0.37	4.77	2.00	PUKEROA TGM MANZELLO	1386	1430	-6.7	A2/A2	52
0.64	6/6	296/63	95	141	19	-21	18	9	0.33	0.18	4.48	1.76	CARSONS FM CAIRO S3F	1362	1422	-4.9	A2/A2	51
0.59	7/7	259/40	92	118	30	-100	17	8	0.38	0.20	4.00	1.91	LYNBROOK KARTELL	1305	1333	-3.1	A1/A2	54
0.93	5/6	238/59	88	124	23	-82	18	7	0.37	0.18	5.00	2.69	HYJINKS SNAPPER	1270	1318	-1.4	A2/A2	55
0.20	6/6	196/45	92	74	15	-39	13	10	0.26	0.21	5.00	1.84	GLEN KORU EPIC	1182	1212	-1.2	A2/A2	40
0.07	5/5	262/48	107	90	23	17	16	13	0.27	0.21	4.60	1.97	GLEN KORU EPIC	1248	1256	-0.4	A2/A2	40
0.51	3/3	256/48	98	102	14	-123	22	7	0.48	0.20	6.24	2.24	CRESCENT EXCELL MISTY ET	1128	1168	-1.0	A2/A2	40
0.19	6/6	271/47	101	110	30	-239	20	7	0.53	0.27	4.99	2.00	VAN STRAALENS G-FORCE	1256	1293	-1.9	A1/A2	40
0.61	7/7	238/59	139	72	10	19	29	14	0.50	0.22	4.25	1.47	ULMARRA TT GALLIVANT	1300	1354	-2.5	A1/A2	55
0.61	8/8	253/56	97	92	26	-194	20	7	0.49	0.24	5.06	2.39	ULMARRA TT GALLIVANT	1379	1421	-0.7	A1/A2	54

icbf 11/2022 11/11/2022


LYNBROOK KRYPTONITE*


TARAMONT SPRINGTIDE


ARKANS PATRIARCH-ET*


VAN STRAALENS DEFENDER*


JULIAN MULTIPLIER-ET*


WERDERS PREMONITION*


RHANTANA OLYMPIC -ET*


HORIZON BARNSTORMER-ET *


BALANTIS TEMPEST-ET*


DOWSON HONENUI-ET*


TAUNTS REVENGE


VAN STRAALENS DUEL


DUGGANS GAMEPLAN

TOP 5 PERFORMERS

Breeding Worth
New Zealand herd crossbred average NZD$177

Bull Code	Name	gBW/Rel%	Page
519034	GORDONS FLASH-GORDON *	573 / 85	44
519089	SCHRADERS TRADER *	531 / 81	44
JEX143	WERDERS PREMONITION *	494 / 97	43
JE5893	DUGGANS GAMEPLAN	471 / 97	52
JEX152	DIGGS HARDCOPY *	460 / 87	45

EBI

Bull Code	Name	EBI (€)	Page
JEX152	DIGGS HARDCOPY *	314 / 62	45
FR6892	LIC MOOREHILL MAX *	296 / 63	51
519010	BALANTIS TEMPEST-ET *	280 / 43	47
JE5896	ZONA CROSSFIRE	277 / 75	52
JE6886	LIC KILVOIGE AARON	271 / 47	40

Protein
New Zealand herd crossbred average 18kg/3.93%

Bull Code	Name	Protein (kg/%)	Page
519034	GORDONS FLASH-GORDON *	61 / 4.0	44
519089	SCHRADERS TRADER *	56 / 3.8	44
FR6733	TARAMONT SPRINGTIDE	48 / 3.9	40
519069	VAN STRAALENS DEFENDER *	43 / 4.0	48
JEX203	PAYNES PROMINENCE-ET *	41 / 4.0	49

Fat
New Zealand herd crossbred average 19kg/4.87%

Bull Code	Name	Fat (kg/%)	Page
519089	SCHRADERS TRADER *	77 / 4.9	44
519034	GORDONS FLASH-GORDON *	71 / 4.9	44
JEX143	WERDERS PREMONITION *	65 / 6.0	43
519010	BALANTIS TEMPEST-ET *	64 / 5.2	47
519069	VAN STRAALENS DEFENDER *	58 / 5.1	48

Fertility
New Zealand herd crossbred average 0.3%

Bull Code	Name	Fertility (%)	Page
JE5896	ZONA CROSSFIRE	10.3	52
JEX122	LIC TINNASHRULE TROJAN *	8.8	54
JEX152	DIGGS HARDCOPY *	7.9	45
JE6898	LIC MOOREHILL GALAXY	7.1	40
JE5001	TAUNTS REVENGE	6.3	40

Milk Volume
New Zealand herd crossbred average 280 litres

Bull Code	Name	Volume (l)	Page
519089	SCHRADERS TRADER *	1401	44
519034	GORDONS FLASH-GORDON *	1343	44
FR6733	TARAMONT SPRINGTIDE	1032	40
519069	VAN STRAALENS DEFENDER *	808	48
519010	BALANTIS TEMPEST-ET *	802	47

SCC
New Zealand herd crossbred average -0.01

Bull Code	Name	SCC	Page
JE5896	ZONA CROSSFIRE	-0.79	52
JEX152	DIGGS HARDCOPY *	-0.57	45
JE6895	LIC BROOKLAWN MOONLIGHT ECLIPS	-0.43	40
JEX161	LIC BROOKLAWN TORNADO EX	-0.36	55
JEX143	WERDERS PREMONITION *	-0.35	43

Capacity
New Zealand herd crossbred average 0.24

Bull Code	Name	Capacity	Page
FR4965	WOODWARDS SPOT ON	1.14	40
519089	SCHRADERS TRADER *	1.09	44
519073	RHANTANA OLYMPIC -ET *	1.01	43
519010	BALANTIS TEMPEST-ET *	1.01	47
FR6733	TARAMONT SPRINGTIDE	0.98	40

Udder Overall
New Zealand herd crossbred average 0.21

Bull Code	Name	Udder Overall	Page
FR6733	TARAMONT SPRINGTIDE	1.05	40
JEX155	DOWSON HONENUI-ET *	1.05	40
517001	ARKANS PATRIARCH-ET *	1.00	50
JE6787	SPEAKES SLIPSTREAM	0.96	40
519014	LYNBROOK KRYPTONITE *	0.95	46

Heifer Calving Difficulty
New Zealand herd crossbred average 0.1

Bull Code	Name	Calving Difficulty	Page
JEX152	DIGGS HARDCOPY *	-2.8 / 42	45
JE5893	DUGGANS GAMEPLAN	-2.4 / 95	52
JE5001	TAUNTS REVENGE	-2.4 / 54	40
519069	VAN STRAALENS DEFENDER *	-1.8 / 36	48
JE5896	ZONA CROSSFIRE	-1.8 / 41	52

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

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Daughter of PREMONITION

JEX143 WERDERS PREMONITION

EBI/REL **178/62%**

IRELAND VALUES

Milk Prod SI	111	Calving Interval (days)	-0.49
Fertility SI	23	Survival	1.39
Carbon SI	5	Cow Calving Difficulty	1.84
Calving SI	42	Heifer Calving Difficulty	4.14
Beef SI	-39	Somatic Cell Count	-0.13
Health SI	4	Milk kg	-49
Maintenance SI	25	Fat kg/%	25/0.46
Management SI	6	Protein kg/%	9/0.2

NEW ZEALAND DETAILS — 3244 NZ Daughters

HoofPrint®

gBW/Rel **494/97%**

Breeding Details

Split	F8J8
Sire	PRIESTS SIERRA
MGS	MARSDEN NN EXCELL ET
MGGS	ADAMS ROCKHARD-ET

Volume	91 l	Protein	28/4.3	Milkfat	65/6.0
Somatic Cell	-0.35	Cow CD	-0.6/96	Heifer CD	0.4/99
Gestation Length	-7.3 days	Body Cond	0.06	Func Surv	3.7 %
Fertility	-0.3 %	Liveweight	24 kg	Udd Over	0.64

NZ Evaluation Data — 89 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.55				
Shed Temperament	0.55				
Milking Speed	0.31				
Overall Opinion	0.66				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.17				
Capacity	0.65				
Rump Angle	-0.17				
Rump Width	-0.10				
Legs	0.01				
Udder Support	0.59				
Front Udder	0.63				
Rear Udder	0.61				
Front Teat Placement	0.29				
Rear Teat Placement	0.85				
Teat Length	-0.27				
Udder Overall	0.64				
Dairy Conformation	0.71				

LIC Initiatives

High Input	1469
VMSI	1445
A2 Protein	A2/A2

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TBC RHANTANA OLYMPIC-ET

EBI/REL **139/39%**

IRELAND VALUES

Milk Prod SI	56	Calving Interval (days)	-0.70
Fertility SI	30	Survival	1.74
Carbon SI	-1	Cow Calving Difficulty	2.60
Calving SI	24	Heifer Calving Difficulty	7.27
Beef SI	17	Somatic Cell Count	-0.10
Health SI	3	Milk kg	-203
Maintenance SI	4	Fat kg/%	11/0.34
Management SI	7	Protein kg/%	3/0.17

NEW ZEALAND DETAILS — 70 NZ Daughters

HoofPrint®

gBW/Rel **391/80%**

Breeding Details

Split	F8J8
Sire	BURMEISTERS HARDCORE
MGS	BROWNS WILDFIRE
MGGS	CASTLEGRACE DAREDEVIL

Volume	64 l	Protein	28/4.3	Milkfat	46/5.7
Somatic Cell	0.18	Cow CD	0.4/60	Heifer CD	1.3/64
Gestation Length	-4.2 days	Body Cond	0.12	Func Surv	1.7 %
Fertility	2.9 %	Liveweight	27 kg	Udd Over	0.53

NZ Evaluation Data — 44 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.34				
Shed Temperament	0.34				
Milking Speed	0.17				
Overall Opinion	0.40				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	0.12				
Capacity	1.01				
Rump Angle	0.34				
Rump Width	0.56				
Legs	0.17				
Udder Support	0.69				
Front Udder	0.14				
Rear Udder	0.66				
Front Teat Placement	0.03				
Rear Teat Placement	0.60				
Teat Length	-0.25				
Udder Overall	0.53				
Dairy Conformation	0.86				

LIC Initiatives

High Input	1405
VMSI	1360
A2 Protein	A2/A2

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Half Sister of TRADER

TBC SCHRADERS TRADER

EBI/REL **%**

IRELAND VALUES

Milk Prod SI		Calving Interval (days)	
Fertility SI		Survival	
Carbon SI		Cow Calving Difficulty	
Calving SI		Heifer Calving Difficulty	
Beef SI		Somatic Cell Count	
Health SI		Milk kg	
Maintenance SI		Fat kg/%	
Management SI		Protein kg/%	

NEW ZEALAND DETAILS — 71 NZ Daughters

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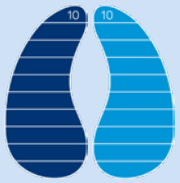

gBW/Rel **531/81%**

Breeding Details

Split	F10J6
Sire	MARSHALLS SILVER LINING
MGS	ARKANS ATHLETE ET
MGGS	SCOTTS NORTHSEA

Volume	1401 l	**Protein**	56/3.8	**Milkfat**	77/4.9
Somatic Cell	0.35	**Cow CD**	-0.5/68	**Heifer CD**	-1.1/45
Gestation Length	-10.3 days	**Body Cond**	0.10	**Func Surv**	2.6 %
Fertility	3.2 %	**Liveweight**	41 kg	**Udd Over**	0.16

NZ Evaluation Data — 48 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.01	
Shed Temperament	-0.02	
Milking Speed	0.45	
Overall Opinion	0.22	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.46	
Capacity	1.09	
Rump Angle	0.22	
Rump Width	0.11	
Legs	-0.04	
Udder Support	0.24	
Front Udder	0.05	
Rear Udder	0.17	
Front Teat Placement	0.01	
Rear Teat Placement	0.24	
Teat Length	0.28	
Udder Overall	0.16	
Dairy Conformation	0.98	

LIC Initiatives

High Input	1521
VMSI	1484
A2 Protein	A2/A2

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Half Sister of FLASH-GORDON

TBC GORDONS FLASH-GORDON

EBI/REL **179/52%**

IRELAND VALUES

Milk Prod SI	131	Calving Interval (days)	-0.69
Fertility SI	32	Survival	1.89
Carbon SI	-1	Cow Calving Difficulty	2.31
Calving SI	16	Heifer Calving Difficulty	6.30
Beef SI	-33	Somatic Cell Count	-0.05
Health SI	2	Milk kg	75
Maintenance SI	24	Fat kg/%	24/.037
Management SI	8	Protein kg/%	15/0.21

NEW ZEALAND DETAILS — 121 NZ Daughters

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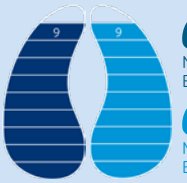

gBW/Rel **573/85%**

Breeding Details

Split	F8J8
Sire	LINAN INTEGRITY WINSTON
MGS	GYDELAND EXCEL INCA S3F
MGGS	MACFARLANES DAUNTLESS

Volume	1343 l	**Protein**	61/4.0	**Milkfat**	71/4.9
Somatic Cell	0.12	**Cow CD**	0.1/69	**Heifer CD**	-0.1/72
Gestation Length	3.3 days	**Body Cond**	0.08	**Func Surv**	3.9 %
Fertility	-0.4 %	**Liveweight**	14 kg	**Udd Over**	0.46

NZ Evaluation Data — 55 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.09	
Shed Temperament	0.08	
Milking Speed	0.09	
Overall Opinion	0.33	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.25	
Capacity	0.41	
Rump Angle	-0.06	
Rump Width	-0.02	
Legs	-0.05	
Udder Support	0.40	
Front Udder	0.34	
Rear Udder	0.83	
Front Teat Placement	-0.29	
Rear Teat Placement	-0.31	
Teat Length	-0.19	
Udder Overall	0.46	
Dairy Conformation	0.64	

LIC Initiatives

High Input	1551
VMSI	1516
A2 Protein	A1/A2

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Daughter of HARDCOPY

JEX152 DIGGS HARDCOPY

EBI/REL **314/62%**

IRELAND VALUES

Milk Prod SI	85	Calving Interval (days)	-9.03
Fertility SI	139	Survival	2.03
Carbon SI	41	Cow Calving Difficulty	1.74
Calving SI	40	Heifer Calving Difficulty	5.29
Beef SI	-63	Somatic Cell Count	-0.16
Health SI	13	Milk kg	-328
Maintenance SI	46	Fat kg/%	15/0.52
Management SI	13	Protein kg/%	4/0.28

NEW ZEALAND DETAILS — 88 NZ Daughters

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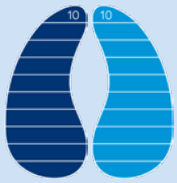

gBW/Rel **460/87%**

Breeding Details

Split	F10J6
Sire	DRYSDALES SOVEREIGN
MGS	ANNALYSER
MGGS	BAGWORTH LEADERSHIP

Volume	158 l	Protein	27/4.2	Milkfat	47/5.6
Somatic Cell	-0.57	Cow CD	-0.9/66	Heifer CD	-2.8/42
Gestation Length	-7.8 days	Body Cond	0.16	Func Surv	2.2 %
Fertility	7.9 %	Liveweight	15 kg	Udd Over	0.21

NZ Evaluation Data — 78 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.30	
Shed Temperament	0.31	
Milking Speed	0.01	
Overall Opinion	0.33	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.38	
Capacity	0.38	
Rump Angle	-0.61	
Rump Width	-0.20	
Legs	0.10	
Udder Support	0.26	
Front Udder	0.16	
Rear Udder	0.10	
Front Teat Placement	-0.02	
Rear Teat Placement	-0.24	
Teat Length	0.43	
Udder Overall	0.21	
Dairy Conformation	0.30	

LIC Initiatives

High Input	1409
VMSI	1372
A2 Protein	A2/A2

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Half Sister of K2

TBC KOKOAMO K2

EBI/REL **121/41%**

IRELAND VALUES

Milk Prod SI	73	Calving Interval (days)	0.86
Fertility SI	13	Survival	1.91
Carbon SI	20	Cow Calving Difficulty	2.45
Calving SI	20	Heifer Calving Difficulty	5.91
Beef SI	-53	Somatic Cell Count	-0.12
Health SI	9	Milk kg	-196
Maintenance SI	36	Fat kg/%	13/0.37
Management SI	3	Protein kg/%	5/0.21

NEW ZEALAND DETAILS — 87 NZ Daughters

HoofPrint®

gBW/Rel **391/81%**

Breeding Details

Split	F9J7
Sire	ARKANS BOUNTY
MGS	ARKAN FM BUSTER-ET S2F
MGGS	GLENMEAD FREEZE-ET

Volume	372 l	Protein	30/4.1	Milkfat	43/5.3
Somatic Cell	0.07	Cow CD	1.8/68	Heifer CD	0.7/38
Gestation Length	-1.4 days	Body Cond	0.19	Func Surv	3.8 %
Fertility	1.7 %	Liveweight	16 kg	Udd Over	0.73

NZ Evaluation Data — 51 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.56	
Shed Temperament	0.58	
Milking Speed	0.16	
Overall Opinion	0.55	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.07	
Capacity	0.87	
Rump Angle	-0.27	
Rump Width	0.42	
Legs	-0.03	
Udder Support	0.87	
Front Udder	0.50	
Rear Udder	0.68	
Front Teat Placement	0.30	
Rear Teat Placement	1.26	
Teat Length	-0.95	
Udder Overall	0.73	
Dairy Conformation	0.84	

LIC Initiatives

High Input	1408
VMSI	1367
A2 Protein	A1/A2

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Daughter of SIERRA

ZSP PRIESTS SIERRA

EBI/REL **170/96%**

IRELAND VALUES

Milk Prod SI	100	Calving Interval (days)	-2.50
Fertility SI	52	Survival	1.62
Carbon SI	7	Cow Calving Difficulty	2.34
Calving SI	42	Heifer Calving Difficulty	6.00
Beef SI	-43	Somatic Cell Count	-0.08
Health SI	-11	Milk kg	9
Maintenance SI	17	Fat kg/%	19/0.33
Management SI	7	Protein kg/%	10/0.17

NEW ZEALAND DETAILS 102744 NZ Daughters

HoofPrint®

gBW/Rel **360/99%**

Breeding Details

Split	F11J5
Sire	FAIRMONT MINT-EDITION
MGS	INGRAMS RAMROD
MGGS	AMADEUS JC12

Volume	507 l	Protein	30/4.0	Milkfat	45/5.2
Somatic Cell	-0.17	Cow CD	0.4/99	Heifer CD	2.6/99
Gestation Length	-6.6 days	Body Cond	0.06	Func Surv	3.1 %
Fertility	5.3 %	Liveweight	40 kg	Udd Over	0.43

NZ Evaluation Data 624 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.56	
Shed Temperament	0.59	
Milking Speed	0.08	
Overall Opinion	0.54	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.52	
Capacity	0.55	
Rump Angle	0.00	
Rump Width	0.02	
Legs	0.10	
Udder Support	0.50	
Front Udder	0.38	
Rear Udder	0.44	
Front Teat Placement	0.24	
Rear Teat Placement	1.04	
Teat Length	-0.73	
Udder Overall	0.43	
Dairy Conformation	0.63	

LIC Initiatives

High Input	1361
VMSI	1327
A2 Protein	A2/A2

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Half Sister of KRYPTONITE

TBC LYNBROOK KRYPTONITE

EBI/REL **138/44%**

IRELAND VALUES

Milk Prod SI	79	Calving Interval (days)	0.50
Fertility SI	19	Survival	2.07
Carbon SI	27	Cow Calving Difficulty	2.44
Calving SI	34	Heifer Calving Difficulty	4.54
Beef SI	-83	Somatic Cell Count	-0.19
Health SI	10	Milk kg	-54
Maintenance SI	52	Fat kg/%	18/0.35
Management SI	0	Protein kg/%	6/0.14

NEW ZEALAND DETAILS 95 NZ Daughters

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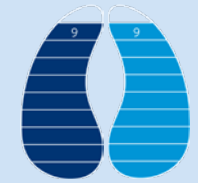

gBW/Rel **403/83%**

Breeding Details

Split	F10J6
Sire	ARKANS PATRIARCH-ET
MGS	SAN RAY FM BEAMER-ET S2F
MGGS	OKURA LIKA MURMUR S3J

Volume	323 l	Protein	21/4.0	Milkfat	39/5.2
Somatic Cell	-0.20	Cow CD	-1.2/68	Heifer CD	0.3/42
Gestation Length	-6.5 days	Body Cond	-0.03	Func Surv	1.9 %
Fertility	3.7 %	Liveweight	-38 kg	Udd Over	0.95

NZ Evaluation Data 66 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.40	
Shed Temperament	0.40	
Milking Speed	0.22	
Overall Opinion	0.53	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.48	
Capacity	0.18	
Rump Angle	0.08	
Rump Width	0.06	
Legs	0.01	
Udder Support	0.66	
Front Udder	0.77	
Rear Udder	1.08	
Front Teat Placement	0.48	
Rear Teat Placement	0.84	
Teat Length	-0.86	
Udder Overall	0.95	
Dairy Conformation	0.27	

LIC Initiatives

High Input	1394
VMSI	1368
A2 Protein	A1/A2

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Half Sister of MULTIPLIER

TBC JULIAN MULTIPLIER-ET

EBI/REL **228/25%**

IRELAND VALUES

Milk Prod SI	98	Calving Interval (days)	-2.05
Fertility SI	62	Survival	2.91
Carbon SI	18	Cow Calving Difficulty	2.12
Calving SI	27	Heifer Calving Difficulty	5.22
Beef SI	-49	Somatic Cell Count	-0.02
Health SI	34	Milk kg	3
Maintenance SI	36	Fat kg/%	18/0.32
Management SI	2	Protein kg/%	10/0.19

NEW ZEALAND DETAILS — 0 NZ Daughters

HoofPrint®

gBW/Rel **416/58%**

Breeding Details

Split	F9J7
Sire	GLEN KORU PROCLAIMER-ET
MGS	OKURA LIKA MURMUR S3J
MGGS	PUKETIRO FROSTMAN S1F

Volume	288 l	Protein	31/4.2	Milkfat	45/5.4
Somatic Cell	0.12	Cow CD	-0.1/89	Heifer CD	-1.4/88
Gestation Length	-2.0 days	Body Cond	0.07	Func Surv	3.3 %
Fertility	2.9 %	Liveweight	9 kg	Udd Over	0.76

NZ Evaluation Data — 0 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.02				
Shed Temperament	0.02				
Milking Speed	-0.05				
Overall Opinion	0.15				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.29				
Capacity	0.66				
Rump Angle	-0.03				
Rump Width	-0.32				
Legs	0.02				
Udder Support	0.62				
Front Udder	0.67				
Rear Udder	0.86				
Front Teat Placement	0.12				
Rear Teat Placement	0.20				
Teat Length	-0.62				
Udder Overall	0.76				
Dairy Conformation	0.70				

LIC Initiatives

High Input	1419
VMSI	1376
A2 Protein	A2/A2

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Half Sister of TEMPEST

TBC BALANTIS TEMPEST-ET

EBI/REL **280/43%**

IRELAND VALUES

Milk Prod SI	100	Calving Interval (days)	-1.72
Fertility SI	115	Survival	7.53
Carbon SI	6	Cow Calving Difficulty	1.47
Calving SI	37	Heifer Calving Difficulty	3.24
Beef SI	0	Somatic Cell Count	0.00
Health SI	3	Milk kg	-149
Maintenance SI	15	Fat kg/%	17/0.42
Management SI	5	Protein kg/%	9/0.24

NEW ZEALAND DETAILS — 106 NZ Daughters

HoofPrint®

gBW/Rel **458/84%**

Breeding Details

Split	J9F7
Sire	ARKANS BOUNTY
MGS	SCOTTS NORTHSEA
MGGS	HAZAEL EMINENCE DANO-ET

Volume	802 l	Protein	40/4.0	Milkfat	64/5.2
Somatic Cell	0.22	Cow CD	0/63	Heifer CD	1.9/70
Gestation Length	-3.0 days	Body Cond	0.10	Func Surv	2.4 %
Fertility	0.4 %	Liveweight	27 kg	Udd Over	0.47

NZ Evaluation Data — 53 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.12				
Shed Temperament	0.14				
Milking Speed	-0.35				
Overall Opinion	0.18				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-0.27				
Capacity	1.01				
Rump Angle	-0.18				
Rump Width	0.56				
Legs	0.06				
Udder Support	0.46				
Front Udder	0.51				
Rear Udder	0.47				
Front Teat Placement	0.22				
Rear Teat Placement	0.84				
Teat Length	0.27				
Udder Overall	0.47				
Dairy Conformation	0.89				

LIC Initiatives — DP - INT

High Input	1456
VMSI	1403
A2 Protein	A2/A2

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Daughter of PROFESSIONAL

JEX140 DEANS PROFESSIONAL

EBI/REL **134/52%**

IRELAND VALUES

Milk Prod SI	88	Calving Interval (days)	0.30
Fertility SI	17	Survival	1.67
Carbon SI	0	Cow Calving Difficulty	2.00
Calving SI	26	Heifer Calving Difficulty	6.47
Beef SI	-19	Somatic Cell Count	-0.11
Health SI	4	Milk kg	-159
Maintenance SI	12	Fat kg/%	18/0.44
Management SI	7	Protein kg/%	6/0.21

NEW ZEALAND DETAILS — 3758 NZ Daughters

HoofPrint®

gBW/Rel **353/97%**

Breeding Details

Split	J9F7
Sire	TIRONUI LT BESIEGE ET
MGS	WHINLEA PF ESTEEM-ET S2F
MGGS	FAIRMONT MINT-EDITION

Volume	585 l	Protein	25/3.9	Milkfat	42/5.0
Somatic Cell	-0.02	Cow CD	0.3/96	Heifer CD	0/98
Gestation Length	-3.4 days	Body Cond	0.27	Func Surv	4.3 %
Fertility	5.1 %	Liveweight	23 kg	Udd Over	0.27

NZ Evaluation Data — 93 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.26	
Shed Temperament	0.25	
Milking Speed	0.35	
Overall Opinion	0.44	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.17	
Capacity	0.37	
Rump Angle	-0.12	
Rump Width	0.32	
Legs	-0.02	
Udder Support	0.31	
Front Udder	0.20	
Rear Udder	0.27	
Front Teat Placement	-0.05	
Rear Teat Placement	-0.08	
Teat Length	0.55	
Udder Overall	0.27	
Dairy Conformation	0.56	

LIC Initiatives

High Input	1321
VMSI	1287
A2 Protein	A2/A2

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Dam of DEFENDER

TBC VAN STRAALENS DEFENDER

EBI/REL **125/37%**

IRELAND VALUES

Milk Prod SI	43	Calving Interval (days)	-0.07
Fertility SI	20	Survival	1.54
Carbon SI	16	Cow Calving Difficulty	1.93
Calving SI	31	Heifer Calving Difficulty	5.12
Beef SI	-18	Somatic Cell Count	0.00
Health SI	8	Milk kg	-283
Maintenance SI	26	Fat kg/%	10/0.39
Management SI	-1	Protein kg/%	-1/0.17

NEW ZEALAND DETAILS — 94 NZ Daughters

HoofPrint®

gBW/Rel **441/82%**

Breeding Details

Split	F9J7
Sire	MARSHALLS SILVER LINING
MGS	WOODHEYS SPEED DIAL
MGGS	SCOTTS NORTHSEA

Volume	808 l	Protein	43/4.0	Milkfat	58/5.1
Somatic Cell	0.23	Cow CD	-0.4/67	Heifer CD	-1.8/36
Gestation Length	-5.4 days	Body Cond	-0.07	Func Surv	1.4 %
Fertility	3.0 %	Liveweight	26 kg	Udd Over	0.70

NZ Evaluation Data — 72 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.04	
Shed Temperament	0.05	
Milking Speed	-0.30	
Overall Opinion	0.04	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.50	
Capacity	0.45	
Rump Angle	0.33	
Rump Width	0.16	
Legs	-0.07	
Udder Support	0.69	
Front Udder	0.25	
Rear Udder	0.81	
Front Teat Placement	0.37	
Rear Teat Placement	1.01	
Teat Length	-0.09	
Udder Overall	0.70	
Dairy Conformation	0.64	

LIC Initiatives

High Input	1465
VMSI	1422
A2 Protein	A1/A2

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Dam of HOMEBREW

JEX191 INNOVATION HOMEBREW

EBI/REL **168/51%**

IRELAND VALUES

Milk Prod SI	37	Calving Interval (days)	-4.57
Fertility SI	76	Survival	1.52
Carbon SI	23	Cow Calving Difficulty	1.96
Calving SI	29	Heifer Calving Difficulty	4.71
Beef SI	-17	Somatic Cell Count	-0.03
Health SI	1	Milk kg	-418
Maintenance SI	16	Fat kg/%	6/0.42
Management SI	3	Protein kg/%	-2/0.23

NEW ZEALAND DETAILS — 3325 NZ Daughters

HoofPrint®

gBW/Rel **363/97%**

Breeding Details

Split	F9J7
Sire	ARRIETA BRANSON-ET
MGS	ARKANS BEAUT ET
MGGS	ST PETERS OBSIDIAN

Volume	-286 l	Protein	18/4.4	Milkfat	40/6.0
Somatic Cell	0.12	Cow CD	-0.2/95	Heifer CD	0.5/97
Gestation Length	-7.2 days	Body Cond	0.36	Func Surv	5.4 %
Fertility	2.6 %	Liveweight	41 kg	Udd Over	0.59

NZ Evaluation Data — 88 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.37	
Shed Temperament	0.36	
Milking Speed	0.34	
Overall Opinion	0.48	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.05	
Capacity	0.68	
Rump Angle	-0.04	
Rump Width	0.22	
Legs	-0.03	
Udder Support	0.48	
Front Udder	0.66	
Rear Udder	0.49	
Front Teat Placement	0.08	
Rear Teat Placement	-0.26	
Teat Length	0.12	
Udder Overall	0.59	
Dairy Conformation	0.60	

LIC Initiatives

High Input	1336
VMSI	1286
A2 Protein	A2/A2

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Daughter of PROMINENCE

JEX203 PAYNES PROMINENCE-ET

EBI/REL **222/55%**

IRELAND VALUES

Milk Prod SI	116	Calving Interval (days)	-2.33
Fertility SI	45	Survival	1.23
Carbon SI	13	Cow Calving Difficulty	2.12
Calving SI	43	Heifer Calving Difficulty	5.19
Beef SI	-42	Somatic Cell Count	-0.09
Health SI	5	Milk kg	143
Maintenance SI	35	Fat kg/%	18/0.21
Management SI	6	Protein kg/%	15/0.17

NEW ZEALAND DETAILS — 109 NZ Daughters

HoofPrint®

gBW/Rel **405/89%**

Breeding Details

Split	F12J4
Sire	TREGARON TECHNICIAN S2F
MGS	CASTLEGRACE DAREDEVIL
MGGS	ST PETERS OBSIDIAN

Volume	780 l	Protein	41/4.0	Milkfat	43/4.9
Somatic Cell	-0.29	Cow CD	-0.1/86	Heifer CD	3.1/30
Gestation Length	-6.0 days	Body Cond	0.14	Func Surv	3.6 %
Fertility	2.4 %	Liveweight	23 kg	Udd Over	0.35

NZ Evaluation Data — 98 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.19	
Shed Temperament	0.19	
Milking Speed	0.08	
Overall Opinion	0.36	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.12	
Capacity	0.50	
Rump Angle	0.83	
Rump Width	0.15	
Legs	0.12	
Udder Support	0.43	
Front Udder	0.17	
Rear Udder	0.60	
Front Teat Placement	-0.18	
Rear Teat Placement	0.19	
Teat Length	-0.06	
Udder Overall	0.35	
Dairy Conformation	0.36	

LIC Initiatives

High Input	1392
VMSI	1362
A2 Protein	A1/A2

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Dam of PATRIARCH

TBC ARKANS PATRIARCH-ET

EBI/REL **143/60%**

IRELAND VALUES

Milk Prod SI	69	Calving Interval (days)	-0.59
Fertility SI	35	Survival	2.25
Carbon SI	30	Cow Calving Difficulty	2.03
Calving SI	31	Heifer Calving Difficulty	4.29
Beef SI	-91	Somatic Cell Count	-0.90
Health SI	11	Milk kg	-109
Maintenance SI	49	Fat kg/%	13/0.30
Management SI	8	Protein kg/%	6/0.17

NEW ZEALAND DETAILS — 1654 NZ Daughters

HoofPrint®

gBW/Rel **324/98%**

Breeding Details

Split	F10J6
Sire	KRAAKMANS JAYDIE
MGS	FAIRMONT MINT-EDITION
MGGS	TAWA GROVE MAUNGA ET SJ3

Volume	-135 l	Protein	11/4.2	Milkfat	32/5.6
Somatic Cell	0.14	Cow CD	-0.9/94	Heifer CD	-0.3/97
Gestation Length	-4.1 days	Body Cond	0.13	Func Surv	3.0 %
Fertility	2.1 %	Liveweight	-19 kg	Udd Over	1.00

NZ Evaluation Data — 106 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.21	
Shed Temperament	0.20	
Milking Speed	0.33	
Overall Opinion	0.40	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.38	
Capacity	0.38	
Rump Angle	-0.31	
Rump Width	0.15	
Legs	-0.01	
Udder Support	0.84	
Front Udder	1.11	
Rear Udder	1.08	
Front Teat Placement	0.15	
Rear Teat Placement	0.55	
Teat Length	-0.68	
Udder Overall	1.00	
Dairy Conformation	0.47	

LIC Initiatives

High Input	1333
VMSI	1294
A2 Protein	A1/A2

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Dam of BARNSTORMER

JEX182 HORIZON BARNSTORMER-ET

EBI/REL **209/67%**

IRELAND VALUES

Milk Prod SI	89	Calving Interval (days)	-5.20
Fertility SI	79	Survival	1.06
Carbon SI	19	Cow Calving Difficulty	2.26
Calving SI	48	Heifer Calving Difficulty	5.40
Beef SI	-52	Somatic Cell Count	-0.01
Health SI	-8	Milk kg	-71
Maintenance SI	25	Fat kg/%	15/0.31
Management SI	10	Protein kg/%	9/0.2

NEW ZEALAND DETAILS — 2074 NZ Daughters

HoofPrint®

gBW/Rel **294/97%**

Breeding Details

Split	F8J8
Sire	PRIESTS SIERRA
MGS	PUKETAWA AD SUPERSTITION
MGGS	VALDEN HI APPLAUSE-ET S2F

Volume	598 l	Protein	30/3.9	Milkfat	43/5.0
Somatic Cell	-0.07	Cow CD	0.7/95	Heifer CD	2.7/91
Gestation Length	-9.3 days	Body Cond	0.05	Func Surv	2.9 %
Fertility	3.7 %	Liveweight	56 kg	Udd Over	0.13

NZ Evaluation Data — 78 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.43	
Shed Temperament	0.44	
Milking Speed	0.14	
Overall Opinion	0.51	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.33	
Capacity	0.94	
Rump Angle	0.18	
Rump Width	0.37	
Legs	0.20	
Udder Support	0.25	
Front Udder	0.16	
Rear Udder	0.12	
Front Teat Placement	-0.06	
Rear Teat Placement	0.31	
Teat Length	-0.14	
Udder Overall	0.13	
Dairy Conformation	0.67	

LIC Initiatives

High Input	1299
VMSI	1268
A2 Protein	A2/A2

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Dam of MAX

FR6892 LIC MOOREHILL MAX

EBI/REL **296/63%**

IRELAND VALUES

Milk Prod SI	95	Calving Interval (days)	-8.12
Fertility SI	141	Survival	3.10
Carbon SI	19	Cow Calving Difficulty	1.76
Calving SI	48	Heifer Calving Difficulty	4.48
Beef SI	-40	Somatic Cell Count	-0.12
Health SI	2	Milk kg	-21
Maintenance SI	24	Fat kg/%	18/0.33
Management SI	8	Protein kg/%	9/0.18

NEW ZEALAND DETAILS — 0 NZ Daughters

HoofPrint®

gBW/Rel **428/52%**

Breeding Details

Split	F12J4
Sire	CARSONS FM CAIRO S3F
MGS	ST PETERS OBSIDIAN
MGGS	SHALENDY ABRAXAS

Volume	739 l	Protein	37/4.0	Milkfat	51/5.0
Somatic Cell	-0.13	Cow CD	-0.4/31	Heifer CD	-0.1/31
Gestation Length	-4.9 days	Body Cond	0.35	Func Surv	4.7 %
Fertility	4.6 %	Liveweight	50 kg	Udd Over	0.64

NZ Evaluation Data — 0 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.34	
Shed Temperament	0.36	
Milking Speed	-0.14	
Overall Opinion	0.40	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	0.31	
Capacity	0.56	
Rump Angle	-0.15	
Rump Width	0.19	
Legs	0.00	
Udder Support	0.70	
Front Udder	0.56	
Rear Udder	0.69	
Front Teat Placement	0.08	
Rear Teat Placement	0.69	
Teat Length	-0.44	
Udder Overall	0.64	
Dairy Conformation	0.64	

LIC Initiatives

High Input	1422
VMSI	1362
A2 Protein	A2/A2

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Daughter of KARTELL

JE6007 LYNBROOK KARTELL

EBI/REL **246/71%**

IRELAND VALUES

Milk Prod SI	99	Calving Interval (days)	-5.72
Fertility SI	100	Survival	2.24
Carbon SI	30	Cow Calving Difficulty	2.01
Calving SI	40	Heifer Calving Difficulty	4.22
Beef SI	-77	Somatic Cell Count	-0.02
Health SI	-5	Milk kg	-159
Maintenance SI	52	Fat kg/%	13/0.35
Management SI	7	Protein kg/%	10/0.27

NEW ZEALAND DETAILS — 9405 NZ Daughters

HoofPrint®

gBW/Rel **291/98%**

Breeding Details

Split	J8F7A1
Sire	HOWIES ARKAN RAMADA ET
MGS	OKURA LIKA MURMUR S3J
MGGS	SCOTTS NORTHSEA

Volume	109 l	Protein	24/4.2	Milkfat	27/5.2
Somatic Cell	0.37	Cow CD	-0.8/95	Heifer CD	-0.9/99
Gestation Length	-4.5 days	Body Cond	-0.03	Func Surv	0.9 %
Fertility	3.9 %	Liveweight	-5 kg	Udd Over	0.47

NZ Evaluation Data — 96 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.19	
Shed Temperament	0.18	
Milking Speed	0.28	
Overall Opinion	0.23	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.54	
Capacity	0.34	
Rump Angle	0.15	
Rump Width	0.39	
Legs	0.33	
Udder Support	0.31	
Front Udder	0.59	
Rear Udder	0.51	
Front Teat Placement	0.08	
Rear Teat Placement	0.02	
Teat Length	-0.05	
Udder Overall	0.47	
Dairy Conformation	0.16	

LIC Initiatives

High Input	1291
VMSI	1264
A2 Protein	A1/A2

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Daughter of CROSSFIRE

JE5896 ZONA CROSSFIRE

EBI/REL **277/75%**

IRELAND VALUES

Milk Prod SI	76	Calving Interval (days)	-6.64
Fertility SI	118	Survival	2.76
Carbon SI	30	Cow Calving Difficulty	1.88
Calving SI	41	Heifer Calving Difficulty	4.65
Beef SI	-54	Somatic Cell Count	-0.14
Health SI	18	Milk kg	-57
Maintenance SI	38	Fat kg/%	14/0.28
Management SI	12	Protein kg/%	7/0.16

NEW ZEALAND DETAILS — 175 NZ Daughters

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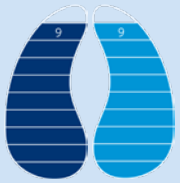

gBW/Rel **348/92%**

Breeding Details

Split	J9F7
Sire	PRIESTS SOLARIS-ET
MGS	OKURA LIKA MURMUR S3J
MGGS	SRB COLLINS ROYAL HUGO

Volume	260 l	Protein	20/4.0	Milkfat	23/5.0
Somatic Cell	-0.79	Cow CD	-1.1/68	Heifer CD	-1.8/41
Gestation Length	-2.7 days	Body Cond	0.24	Func Surv	5.5 %
Fertility	10.3 %	Liveweight	2 kg	Udd Over	0.12

NZ Evaluation Data — 74 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.33	
Shed Temperament	0.34	
Milking Speed	0.16	
Overall Opinion	0.29	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.09	
Capacity	0.76	
Rump Angle	-0.52	
Rump Width	-0.09	
Legs	-0.07	
Udder Support	0.06	
Front Udder	0.19	
Rear Udder	0.00	
Front Teat Placement	0.13	
Rear Teat Placement	-0.02	
Teat Length	-0.18	
Udder Overall	0.12	
Dairy Conformation	0.59	

LIC Initiatives

High Input	1288
VMSI	1252
A2 Protein	A2/A2

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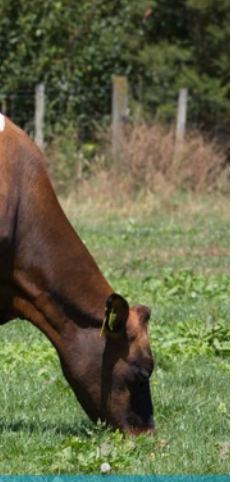

Daughter of GAMEPLAN

JE5893 DUGGANS GAMEPLAN

EBI/REL **230/77%**

IRELAND VALUES

Milk Prod SI	116	Calving Interval (days)	-1
Fertility SI	38	Survival	1.61
Carbon SI	33	Cow Calving Difficulty	2.00
Calving SI	47	Heifer Calving Difficulty	4.77
Beef SI	-70	Somatic Cell Count	0.00
Health SI	2	Milk kg	-372
Maintenance SI	59	Fat kg/%	19/0.63
Management SI	6	Protein kg/%	7/0.37

NEW ZEALAND DETAILS — 1654 NZ Daughters

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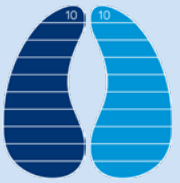

gBW/Rel **471/97%**

Breeding Details

Split	J12F4
Sire	PUKEROA TGM MANZELLO
MGS	SCOTTS NORTHSEA
MGGS	JUDDS ADMIRAL

Volume	-385 l	Protein	16/4.5	Milkfat	46/6.3
Somatic Cell	0.22	Cow CD	-0.6/93	Heifer CD	-2.4/95
Gestation Length	-6.7 days	Body Cond	0.02	Func Surv	0.9 %
Fertility	6.3 %	Liveweight	-40 kg	Udd Over	0.60

NZ Evaluation Data — 99 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	0.51	
Shed Temperament	0.53	
Milking Speed	0.21	
Overall Opinion	0.42	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-0.54	
Capacity	0.25	
Rump Angle	-0.28	
Rump Width	0.18	
Legs	-0.05	
Udder Support	0.43	
Front Udder	0.55	
Rear Udder	0.84	
Front Teat Placement	-0.16	
Rear Teat Placement	-0.44	
Teat Length	-0.15	
Udder Overall	0.60	
Dairy Conformation	0.27	

LIC Initiatives

High Input	1430
VMSI	1386
A2 Protein	A2/A2

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CLASSIC BULLS

Bull Code	IRE AB Code	Bull Name	EBI/Rel%	Milk Prod SI	Fertility SI	Carbon SI	Maintenance SI	Health SI	Milk Kg	Fat Kg	Fat %	Protein Kg	Protein %	Dairy Heifer Calv Diff	DairyCow Calv Diff	High Input	A2/A2	gBW/Rel
Holstein Friesian																		
108235	MWW	MORTENSENS WE AWE-ET S3F	268/96	59	113	17	33	20	214	8	0.00	10	0.05	6.04	2.32	1120	A1/A1	127/99
110006	BGJ	BAGWORTH PF GRANDEUR S1F	244/98	68	100	10	23	16	125	16	0.18	8	0.06	5.26	2.15	1260	A2/A2	237/99
112005	GGP	GOINGS MECCA PRIDE S1F	227/95	87	78	9	26	1	246	10	0.00	15	0.11	4.72	2.05	1155	A1/A2	172/99
111050	LKL	LASHS MS LEGION S1F	218/88	77	92	-2	12	1	278	11	0.00	13	0.07	4.28	1.80	1115	A2/A2	100/57
108214	BGU	BAGWORTH RM ARASMUS S2F	209/94	66	84	11	18	2	136	8	0.04	11	0.10	5.76	2.07	1143	A2/A2	147/91
113009	FR4543	HAZAEL SH DISTINCT-ET S1F	208/83	90	61	6	22	16	33	13	0.20	11	0.18	4.95	2.04	1262	A1/A2	268/99
110063	GFS	MAIRE PF GOLDEN BOY S2F	206/95	72	59	12	31	15	213	14	0.10	11	0.06	4.89	1.97	1215	A1/A2	223/99
112063	FR4501	PADRUTTS GB TOPNOTCH S2F	203/85	79	80	10	24	0	210	9	0.02	13	0.10	6.81	2.35	1195	A1/A2	181/99
111038	AKZ	ARKAN GH HORIZON S2F	181/96	90	45	2	10	7	-24	14	0.26	10	0.19	7.11	2.74	1203	A2/A2	167/98
106219	WDS	WHINLEA DAN SUPERSONIC-ET	178/99	82	70	-5	8	10	399	13	-0.05	15	0.03	6.10	2.41	1133	A2/A2	109/99
110049	SFZ	SAVANNAHS HF HAMMER S1F	140/97	83	3	2	27	14	153	12	0.10	12	0.12	5.52	2.12	1269	A2/A2	265/99
Jersey																		
313017	JE4502	BONACORD MURMURS BOSWELL	254/73	67	63	45	69	16	-335	14	0.49	1	0.24	3.06	1.35	1221	A2/A2	299/91
313055	JE2049	GLENUI 5-STAR HARRY ET	246/88	89	79	35	45	12	-437	15	0.61	3	0.34	3.38	1.61	1250	A2/A2	281/96
312059	JE2454	LYNBROOK GG QUICKSILVER	218/75	96	59	37	59	13	-478	18	0.70	3	0.36	3.71	1.72	1296	A2/A2	343/99
311019	JJS	SOUTH LAND JERICHO ET S3J	196/94	75	67	31	49	10	-199	9	0.30	6	0.24	3.10	1.42	1132	A2/A2	180/99
312014	YKF	CHARDONNAY FRANKIE	189/90	86	61	33	45	11	-331	12	0.47	5	0.30	4.25	1.82	1226	A2/A2	299/99
313020	JE4504	CRESCENT OLM ROSCO ET	154/69	71	16	36	62	18	-183	12	0.35	5	0.20	2.37	1.21	1126	A2/A2	157/96
311022	FCW	HILLSTAR TERRIFIC 5-STAR	141/88	79	15	30	55	2	-157	10	0.28	8	0.23	4.11	1.67	1184	A2/A2	186/99
313040	JE4526	FICHTL 5-STAR SULTAN S3J	128/89	83	29	28	38	-1	-319	13	0.47	5	0.29	4.39	2.02	1163	A2/A2	173/99
KiwiCross®																		
512005	FR2440	JUST ONCE COOPER	239/90	96	54	27	48	-2	-157	18	0.43	8	0.23	4.29	1.94	1285	A2/A2	283/99
508140	HOW	HOWIES EASYRIDER	237/96	84	72	29	46	17	-248	17	0.48	5	0.24	3.39	1.59	1263	A1/A2	301/99
513016	FR4529	HORIZON BLAZER ET	198/87	77	69	20	30	-7	-68	12	0.26	8	0.18	4.80	2.12	1250	A1/A2	259/99
511052	YMD	MOODYS EXECUTIVE	177/97	88	34	15	38	8	101	11	0.13	12	0.15	4.72	2.03	1200	A2/A2	223/99
511026	JE4270	ARKANS BEAUT ET	166/95	90	42	16	29	-8	-15	11	0.21	11	0.20	4.75	2.11	1261	A1/A2	277/99

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Half Sister of TROJAN

JEX122 LIC TINNASHRULE TROJAN

EBI/REL 253/56%

IRELAND VALUES

Milk Prod SI	97	Calving Interval (days)	-4.40
Fertility SI	92	Survival	2.98
Carbon SI	26	Cow Calving Difficulty	2.39
Calving SI	33	Heifer Calving Difficulty	5.06
Beef SI	-51	Somatic Cell Score	-0.06
Health SI	5	Milk kg	-194
Maintenance SI	46	Fat kg/%	20/0.49
Management SI	5	Protein kg/%	7/0.24

NEW ZEALAND DETAILS — 0 NZ Daughters

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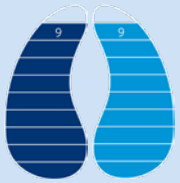

gBW/Rel 438/52%

Breeding Details

Split	J12F4
Sire	ULMARRA TT GALLIVANT
MGS	ARKANS GURKHA J9F7
MGGS	WAIWIRA PRINCE-HAL-ET

Milk	435	Protein	29/4.0	Milkfat	51/5.3
Somatic Cell Count	-0.19	Cow Calving Diff	-0.4/31	Heifer Calving Diff	-1.3/31
Gestation Length	-0.7	Body Condition	0.06	Functional Survival	3.0
Fertility	8.8	Liveweight	28	Udder Overall	0.61

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.53				
Shed Temperament	0.37				
Milking Speed	0.61				
Overall Opinion	0.54				

Half Sister of EUPHORIA

JEX197 LIC MOOREHILL EUPHORIA

EBI/REL 259/59%

IRELAND VALUES

Milk Prod SI	92	Calving Interval (days)	-7.70
Fertility SI	118	Survival	1.68
Carbon SI	30	Cow Calving Difficulty	1.91
Calving SI	46	Heifer Calving Difficulty	4.00
Beef SI	-69	Somatic Cell Score	-0.06
Health SI	-10	Milk kg	-100
Maintenance SI	44	Fat kg/%	17/0.38
Management SI	9	Protein kg/%	8/0.2

NEW ZEALAND DETAILS — 0 NZ Daughters

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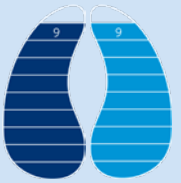

gBW/Rel 345/53%

Breeding Details

Split	F9J7
Sire	LYNBROOK KARTELL
MGS	JERSEYDALE NO2WAYS
MGGS	WHINLEA PALAD ECKLAND-ET

Milk	101	Protein	17/4.1	Milkfat	35/5.4
Somatic Cell Count	0.08	Cow Calving Diff	-0.6/29	Heifer Calving Diff	-1/30
Gestation Length	-3.1	Body Condition	-0.03	Functional Survival	1.1
Fertility	3.6	Liveweight	-29	Udder Overall	0.59

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.10				
Shed Temperament	0.17				
Milking Speed	0.59				
Overall Opinion	0.11				

2022 INTAKE

Name	National ID	IRE AI code	EBI/Rel%	Milk SI	Fertility SI	Carbon SI	Calving SI	Milk kg	Fat kg/%	Protein kg/%	Dairy Heifer Calv Diff	Dairy Cow Calv Diff
LIC BOPURU PAL	372219169941420	TBC	373 / 59	131	180	20	29	109	24 / 0.34	15 / 0.20	6.99	2.15
LIC KILLINGLEY HUSTLER	372219455396647	TBC	310 / 61	124	125	20	62	-65	23 / 0.46	12 / 0.25	4.06	1.45
LIC NODSTOWN HAWK	372224024851233	TBC	303 / 57	102	126	24	50	-157	17 / 0.41	9 / 0.25	5.08	1.71
LIC BOPURU LAD	372219169911418	TBC	290 / 57	120	138	12	41	117	22 / 0.30	14 / 0.18	4.86	1.91
MUINEMOR TANAVALLA	372223058726667	TBC	260 / 59	94	104	24	30	-305	15 / 0.50	6 / 0.30	4.22	2.15
LAURAGH MARTY	372226695576760	TBC	234 / 29	116	70	19	32	-67	22 / 0.44	11 / 0.23	5.11	2.22

Half Sister of DOWLIN

JEX125 LIC MUINEMOR DOWLIN

EBI/REL 238/59%

IRELAND VALUES

Milk Prod SI	139	Calving Interval (days)	-3.38
Fertility SI	72	Survival	2.40
Carbon SI	10	Cow Calving Difficulty	1.47
Calving SI	41	Heifer Calving Difficulty	4.25
Beef SI	-50	Somatic Cell Score	-0.01
Health SI	-13	Milk kg	19
Maintenance SI	32	Fat kg/%	29/0.5
Management SI	6	Protein kg/%	14/0.22

NEW ZEALAND DETAILS — 0 NZ Daughters

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Nitrogen Efficiency

Methane Efficiency

gBW/Rel 360/53%

Breeding Details

Split	J11F5
Sire	ULMARRA TT GALLIVANT
MGS	PRIESTS SIERRA
MGGS	PRIESTS SOLARIS-ET

Milk	248	Protein	27/4.2	Milkfat	48/5.5
Somatic Cell Count	0.04	Cow Calving Diff	-0.3/32	Heifer Calving Diff	-0.4/32
Gestation Length	-2.5	Body Condition	0.27	Functional Survival	3.0
Fertility	2.3	Liveweight	58	Udder Overall	0.61

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.70				
Shed Temperament	0.89				
Milking Speed	0.61				
Overall Opinion	0.75				

Half Sister of TORNADO

JEX161 LIC BROOKLAWN TORNADO

EBI/REL 238/59%

IRELAND VALUES

Milk Prod SI	88	Calving Interval (days)	-7.85
Fertility SI	124	Survival	2.05
Carbon SI	23	Cow Calving Difficulty	2.69
Calving SI	35	Heifer Calving Difficulty	5.00
Beef SI	-62	Somatic Cell Score	-0.03
Health SI	-3	Milk kg	-82
Maintenance SI	26	Fat kg/%	18/0.37
Management SI	7	Protein kg/%	7/0.18

NEW ZEALAND DETAILS — 0 NZ Daughters

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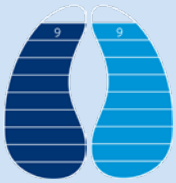

Nitrogen Efficiency

Methane Efficiency

gBW/Rel 283/54%

Breeding Details

Split	F9J7
Sire	HYJINKS SNAPPER
MGS	PRIESTS SIERRA
MGGS	PRIESTS SONSHINE-ET

Milk	312	Protein	20/4.0	Milkfat	32/5.1
Somatic Cell Count	-0.36	Cow Calving Diff	0.1/31	Heifer Calving Diff	1.3/32
Gestation Length	-1.4	Body Condition	0.31	Functional Survival	4.2
Fertility	1.9	Liveweight	46	Udder Overall	0.93

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.38				
Shed Temperament	0.37				
Milking Speed	0.93				
Overall Opinion	0.49				

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
265 / 52	4.0	429	33 / 5.0	26 / 4.0	-0.03	1.6	1.1	1.5	35	TANGLEWOOD MT KAURI S2F	A2/A2
456 / 53	4.7	346	49 / 5.4	32 / 4.2	0.00	1.6	0.0	3.0	2	MITCHELLS KE HUSTLER S2F	A2/A2
455 / 52	8.3	174	40 / 5.4	26 / 4.2	-0.60	-0.2	-0.1	4.6	-11	WALTON INFERNO	A2/A2
238 / 52	6.0	524	26 / 4.8	25 / 3.9	-0.06	1.7	0.8	2.7	44	TANGLEWOOD MT KAURI S2F	A1/A2
337 / 54	3.2	-10	31 / 5.4	21 / 4.3	-0.30	-0.2	-0.2	1.4	4	GLENUI DEGREE HOSS ET	A2/A2
327 / 54	0.8	367	49 / 5.4	22 / 4.0	0.51	0.8	0.1	4.0	31	SPEAKES SLIPSTREAM ET	A2/A2

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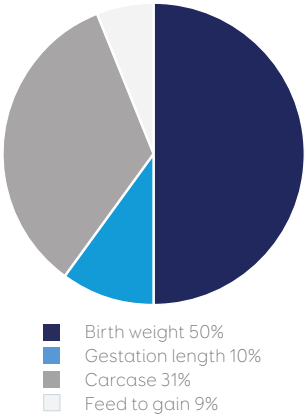
BEEF SELECTION INDEX (BSI)

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%	
Feed to gain	9%	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

SGL Angus Beef

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.

Code	Name	Calving Ease DIR	Birth Weight	Gestation Length	Yearling Weight	Carcass Weight	Nitrogen Efficiency	Methane Efficiency
AA7596	RISSINGTON 180073	+6.3 Top 20%	+1.9 Top 10%	-6.9 Top 20%	+79 Top 80%	+50 Top 90%	5	5
AA7935	RISSINGTON 180091	+ 9.2 Top 5%	-0.5 Top 1%	-6.5 Top 20%	+74 Top 90%	+43 Top 95%	8	8

Mid December 2022 TransTasman Angus Cattle Evaluation

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.

Code	Name	Calving Ease DIR	Birth Weight	Gestation Length	Yearling Weight	Carcass Weight
HE7317	SHRIMPTONS HILL 180034	+11.4 Top 5%	+1.6 Top 15%	-10.5 Top 1%	+41 Top 90%	+41 Top 85%
HE7314	SHRIMPTONS HILL 180038	+11.1 Top 5%	+2.1 Top 20%	-8.9 Top 1%	+43 Top 90%	+39 Top 90%
820124	SHRIMPTONS HILL 190085 (EZI)	+13.9 Top 1%	-1.7 Top 1%	-9.3 Top 1%	+52 Top 60%	+51 Top 50%

15 Dec 2022 Hereford BREEDPLAN

Charolais Beef

All LIC Charolais are homozygous polled and are a great marking option. The breed adds muscle and conformation to a dairy beef carcass and are a commonly used terminal sire in commercial beef operations.

Code	Name	Calving Ease DIR	Birth Weight	Gestation Length	Yearling Weight	Carcass Weight
722402	KAKAHU 200801	+12.1 Top 5%	-2.9 Top 5%	-5.2 Top 10%	+35 Top 15%	+28 Top 15%
722403	KAKAHU 200802	+8.9 Top 10%	-3.3 Top 5%	-5.4 Top 10%	+32 Top 20%	+27 Top 15%

15 Dec 2022 Charolais BREEDPLAN

Speckle Park

Speckle Park are polled, medium framed (mature cow 650-800kg and mature bull 1000-1200kg) animals. They mature early and have an incredible yielding carcass.

Code	Name	Dairy Beef Index (€)	Dairy Cow Calving Difficulty (%)	Dairy Heifer Calving Difficulty (%)	Gestation Length (days)	Carcass Weight (kg)
SP6394	KILBARRY FREDDY FLINT	35	2.8	8.3	-1.79	-7.50

Source: ICBF November 2022

Belgian Blue

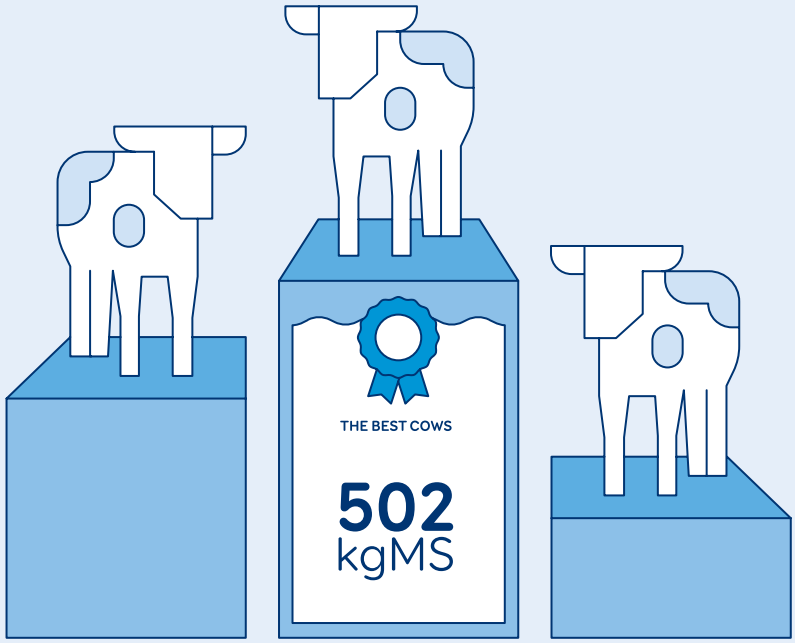
Belgian Blues over any other dairy breed, can enhance the carcass quality of your calf, and will also colour mark progeny.

Code	Name	Dairy Beef Index (€)	Dairy Cow Calving Difficulty (%)	Dairy Heifer Calving Difficulty (%)	Gestation Length (days)	Carcass Weight (kg)
BB5584	KILMAINHAM MITCH ET	102	10.7	7.4	0.67	25.90
BB5587	KILMAINHAM MADMAN ET	-8	16.2	10.8	-0.31	17.50

Source: ICBF November 2022

THE FUTURE LOOKS BRIGHT

By Joyce Voogt, Technical Manager, LIC



"There will always be change facing the dairy industry but the thing that will give us a competitive edge, is our ability to respond to that change in a positive way; to find the opportunity to grow and innovate."

That's the challenge LIC CEO, David Chin, recently laid down to LIC staff as we work to assist our customers to capture the opportunities that arise alongside the changes ahead. While the detail of future regulatory requirements and their impact on farm may still be unknown, farmers are making breeding decisions today with the future firmly in their sights. What's good for the pocket can also be good for the environment when it comes to the type of cows we milk. Farmers will be deciding exactly what that longterm sustainable and profitable cow looks like using their experience in animal breeding in the context of their individual farm situation.

Chances are, most people can point out the 'ideal cow' within their herd already, and common themes are likely to emerge.

- A highly efficient producer in kg milk solids per kg of body weight
- A trouble-free, 'invisible' cow who never calls attention to herself
- Long-lived, healthy cows, staying around for more than five lactations
- A fertile cow with long lactations, calving down early and getting back in calf quickly each year
- Easy care and adaptable, she quickly gets to work whether housed or grazing
- Body condition stability, without excessive weight loss in early lactation nor being overly fat
- Great workability, with strong udders, good feet and legs and a sweet temperament for milking.

The ideal cow, in a nutshell, is highly efficient at turning feed into profit, turns up to work every day, has short annual leave breaks and doesn't exit the workforce early! With high production, long lactations and herd life, she lowers replacement costs and has a lower environmental footprint per kg of lifetime milksolids. This is exactly the sort of cow LIC is breeding bulls to deliver, using our internal selection index.

These traits are also reflected in the enhancements to Breeding Worth (BW) over the last year. The recent changes, on average gave a lift to LIC bulls' BW figures, reflecting the fact that the breeding scheme has long recognised the value of these traits to farmers.

So how are NZ herds tracking?

A recent LIC study revealed some exciting insights from NZ herd records. These included pleasing rates of genetic gain in herds using LIC sires, a noticeable lift in rates of gain since 2017, and substantial cow quality opportunity still available. The study of 3,374 herds with comprehensive records in LIC's herd recording software confirmed a positive genetic gain trend in the female population. Herds with more than 80% of progeny sired by LIC sires over a 10-year period had greater rates of gain than herds with less than 20% sired by LIC sires over the same period. Their genetic gain was 40% higher between 2012-2016, and the gap widened to almost double that of 'non-LIC' herds between 2017-2021, despite both showing increases. See Figure 1.

Genetic merit translated into greater production efficiency. In a similar study, the data of >865,000 milk recorded cows aged 4-8 years old was analysed, revealing huge opportunity for future dairy herds.

The top quartile of cows on BW across HF, J and FxJ breeds averaged 502 kg MS production, 65kg MS ahead of the bottom quartile, see Figure 2.

They were lighter, with an average liveweight BV 10 kg lower than that of the bottom quartile. Their production efficiency averaged 1kg milksolids/kg liveweight, compared to 0.85 for the bottom quartile cows. Their BW averaged $BW 162 higher, and their fertility BV was a full 2% ahead.

The dataset by deciles displays the relationship between genetic merit and production efficiency, see Figure 3. The top BW cows across all breed categories were producing around 1kgMS per kg liveweight on average. The relationship between production efficiency and genetic merit was clear across all the breed mixes investigated.

On average an increase of 0.4 kgMS/gBW was seen in mature cows.

This is cause for optimism amongst farmers facing the possibility of constraints on cow numbers. Genetic and performance data shows how cow quality will undoubtedly make a significant contribution to meeting future global food and environmental needs. The ideal cow of the future is arguably already here in our herds. Targeting these cows in a solid breeding plan sets up a strong foundation for your herd of the future.

Genetics provides one of the tools to help us dairy farm into the future, and it's a big one. LIC believes the future is bright for pastoral dairy farmers. We are rising to David's challenge to help make that bright future happen.

Figure 1
Genetic gain in New Zealand dairy herds ($BW)

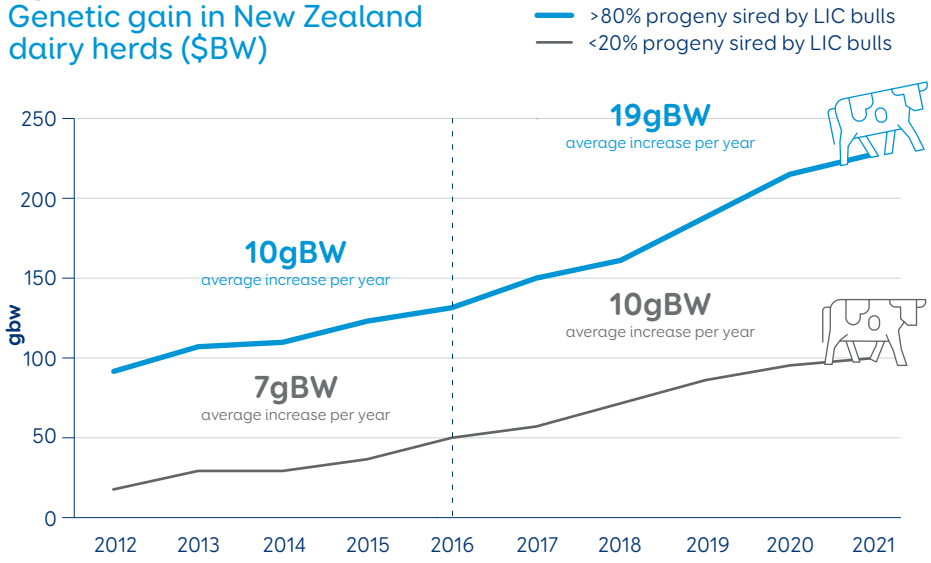
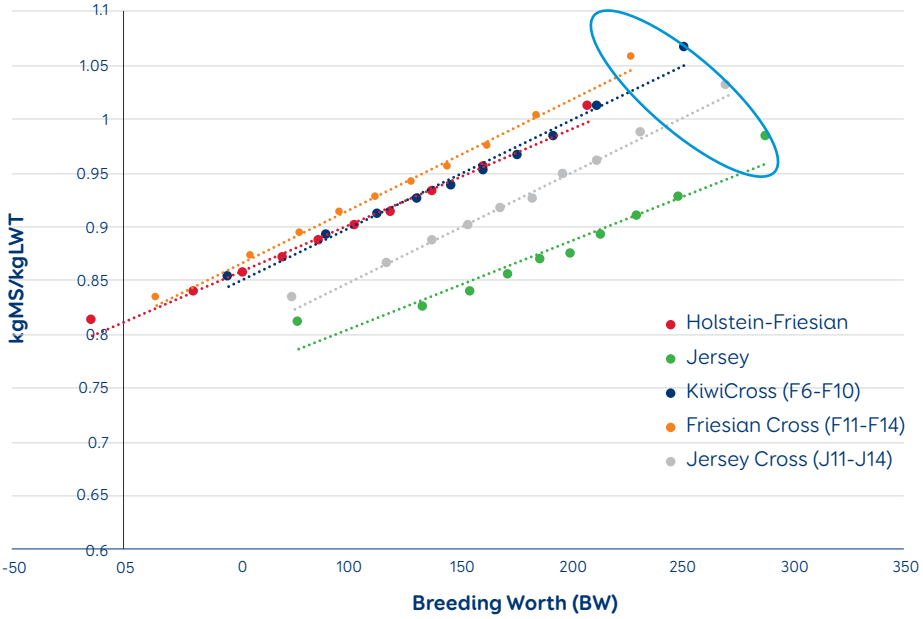


Figure 2
Weighted Averages across the three breeds
Comparison of performance by genetic merit of 865,650 mature cows in NZ, MINDA™, LIC 2022

BW Quartile	Animal Count	Average gBW	Average KGMS	Average LWGT gBV	Average FERT gBV
Q1	216,413	201	502	2	1
Q2	216,413	145	473	5	0
Q3	216,413	103	458	8	0
Q4	216,411	39	437	12	-1

Figure 3
Relationship between kgMS per Kg Lwt and BW by breed mix
NZ 4-8 years old cows recorded in MINDA™, 2021 (n=865652)



Source: LIC 2022

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EUROGENE
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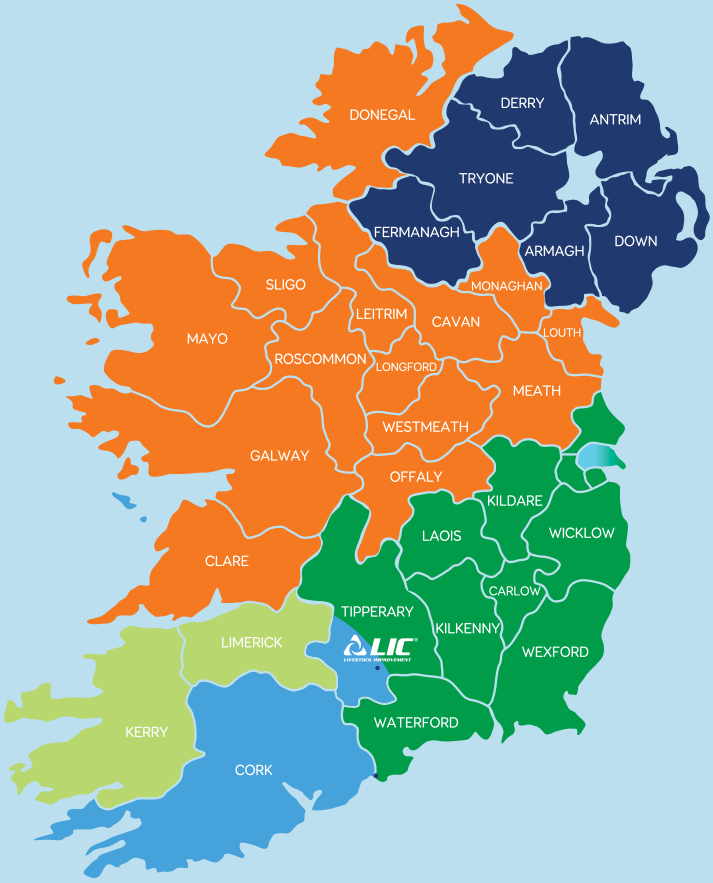

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