Sire Catalogue

2024

There's always room for improvement

LIC®
LIVESTOCK IMPROVEMENT

Breed for Success!

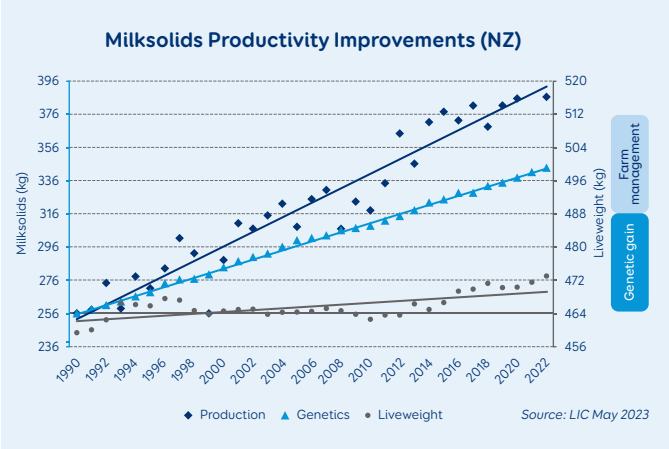
Hi, I'm Hilary! After nearly two years as the Gippsland District Manager and a long history at LIC in New Zealand, I am honoured to now lead the team here in Australia.

Welcome to your 2024 Sire Catalogue from LIC Australia, which showcases the best LIC breeding options from New Zealand. Selecting the right bulls for your farming business is crucial, and it involves a significant amount of work from a large team of dedicated individuals. We understand the importance of this decision and are committed to providing the best breeding options for your needs.

Our success is rooted in our relationships with New Zealand's premier breeders. These partnerships, coupled with LIC's genomic technology, allows us to select elite dams and sires that produce high calibre bulls for our Sire Proving Scheme. This ensures that we consistently offer sires that add value year-on-year across all major breeds. LIC's significant and ongoing investment in genomics helps fast-track genetic gain by identifying and providing access to elite young bulls from a younger age.

Genomics plays a pivotal role in our breeding programme, and we are delighted to see our farmers benefitting from this technology. Breeding the best cows faster is key to helping farmers achieve profitability and sustainability now and for future growth. We are proud to be part of this solution, and our new offering this year, the Fast Forward Team™, is a testament to our commitment to innovation and excellence in breeding.

The Fast Forward Team™ provides Australian farmers access to the highest quality genetics sooner than ever before, resulting in increased rates of genetic gain within a shorter generation interval. Our selection process focuses on bulls from proven cow families, emphasising high Breeding Worth, fertility, and conformation traits.



Hilary Lunn

Ultimately, our focus is on achieving a kilogram of milksolids per kilogram of liveweight derived from a mainly grazed grass diet and a 270-day lactation. This helps drive a high return for farmers, maximising production per kilogram of feed eaten and contributes to lowering harmful emissions. Our bulls are measured and selected against a criterion tailored to tackle the financial and environmental challenges that the industry is facing. Regardless of whether your cow preference leans toward black and white or browner in colour, our selection of bulls underscores an emphasis on fertility, high milksolids, longevity, lower emissions and reduced liveweights.

I trust you will find this catalogue informative and valuable as you create your own plan to breed the best cows for your farm. We are excited about the potential these bulls hold for your farming business in the years ahead, especially at a time when the production efficiency of every cow is paramount to success.

Best wishes for the season ahead.

Hilary Lunn
Country Manager - Australia

Contents

Holstein Friesian

Jersey

KiwiCross®

Ayrshire

Further Information

Limitations on the sale of and use for First Generation Male Offspring

The LIC genetics products available to you by Livestock Improvement Pty Ltd are subject to strict Terms and Conditions.

The sale of LIC genetic products (excluding short gestation length semen) to the customer must only be used to:

a) Inseminate animals ordinarily in the customers herd.

b) Generate replacement heifer calves for use within the customers herd or to sell as excess heifers.

c) Generate bull calves to be used for natural mating purposes only and for sale to third parties for natural mating purposes only with LIC's prior written approval.

Short Gestation Length Semen

Short Gestation Length semen must only be used for the purpose of facilitating short gestation length pregnancies to create animals which must not be used for any breeding purposes or for the collection of semen.

It is the responsibility of the purchaser to make themselves aware of the full Terms and Conditions, which are available to you on page 63.

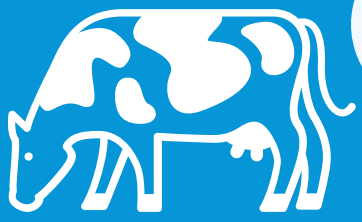
Our Genetics

LIC's breeding objective is to breed bulls that breed profitable cows - cows that are not only efficient converters of feed to milk, but cows that get back in calf easily each year and last many lactations within the herd.

Low Maintenance
NZ cows are bred for production efficiency, with lower maintenance requirements allowing greater partitioning of feed to milk production

Strong Udders
NZ cows complete 5 lactations on average in their lifetime, spending more years at peak lactation

Productive
NZ cows average 4.9% fat and 3.9% protein, with many achieving 1kg milk solids from 1 kg liveweight[1]



Efficient
NZ cows can efficiently convert feed into profit over a variety of systems

Long Living
NZ cows average close to 7 years of age, with good fertility and longevity allowing more voluntary culling on farm to drive herd quality

Robust
NZ cows are fit to walk to and from the milking shed every day, twice a day

Fertile
The NZ herd replacement rate is around 20% per season, which gives farmers a better chance to breed the right cows with the right genetics and improve their herds

Reliable
LIC bulls are proven across hundreds of commercial herds, producing highly efficient hard-working daughters

[1] New Zealand Dairy Statistics, 2022-2023

Artificial Insemination

DIY AI Certification

LIC offers a comprehensive AI training course to international participants wanting to gain valuable knowledge and practical skills. LIC's AI technician service has been around for more than 50 years and consistently achieves high conception rates. This course is taught by LIC's experienced trainers in modern facilities.

Course details:

Located in Hamilton, New Zealand

- Taught over six days
- Minimum of 100 inseminations at 90% correct placement on live animals in compliance with NZ animal ethics standards
- Use of LIC's life-like artificial training cow, Henryetta™
- Maximum of eight participants per course
- Courses run in late February / early March
- Those who pass are awarded a certificate from LIC

DIY AI Refresher or Introduction Course

LIC's AI refresher training is an interactive and hands-on course aimed at optimising the skills of DIY inseminators.

Course details:

- Uses LIC's life-like artificial training cow, Henryetta™
- Half day course
- Includes semen handling, liquid nitrogen safety and bovine anatomy
- Small groups of three to four participants
- Free samples and information packs to take away
- Lunch provided
- Dates and venues to be confirmed

For more information or to book contact our office on 1800 454 694 or admin@licaus.com.au

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, ten 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 four production traits and six robustness traits.

Other traits are measured, some of which contribute to gBW 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 ten 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. gBVs 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 and current milk price values are used in the calculation.

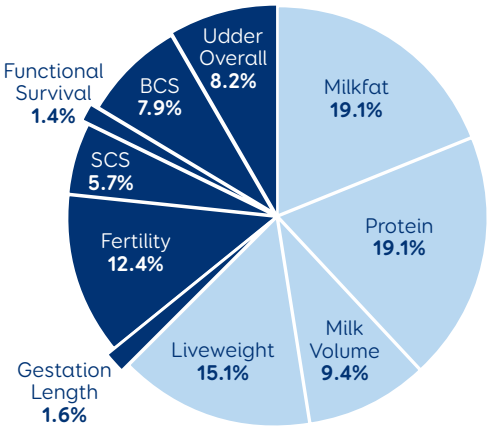
The resulting profit index is reported in relation to the animal, with **half** its value passed on to offspring.
For example; on average, the offspring of a bull with gBW $400 and cow with gBW $200 are expected to make $300 more profit per annum than offspring of the Base Cow would.

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

Effective emphasis on individual traits within gBW



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.

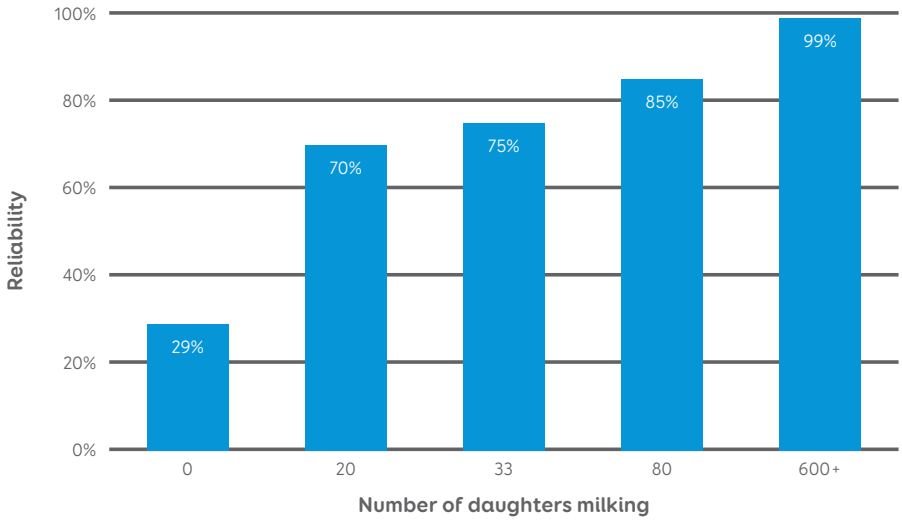
Gestation Length, Fertility, Somatic Cell Score (SCS), Functional Survival (FS), Body Condition Score (BCS) and Udder Overall (UO) are referred to as **Robustness** traits. These traits have moderate to low heritability, except for Gestation Length which is highly heritable. Robustness traits are important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

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 gBW prediction is the **Reliability** figure. Reliability indicates the confidence that an animal's gBW (or individual breeding values) are a measure of their true merit. The higher the reliability, the less likely the gBW will change with the addition of more information. Reliability is reported on a scale of 0 to 100%. It increases with the amount of information.

Information sources and gBW 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.



Expected maximum shift in gBW (+/-)	100	71	59	46	12

Dairy NZ 2023, https://www.dairynz.co.nz/animal/breeding-decisions/breeding-worth/

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
			← Low score	Average	High score →			

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 gBV of 0

How to Read a Sire Page

gBW/Rel

Using this bull at a gBW of 437 indicates that per 5T DM the replacements are expected to generate NZD 437 more net profit than using a sire with a gBW of 0.

The reliability of a sire is a measure of the amount of information behind the bull's gBW. The higher the reliability, the less movement is expected with his gBW.

Milk

A gBV of 738 litres indicates the bull daughters will on average produce 369 litres more than the base cow per 5T of dry matter consumed. Remember the gBV is across breeds so Jersey and Crossbred animals may show a negative gBV.

Protein and Milkfat

A gBV of 41 kg indicates that the bull will produce daughters which on average, are genetically superior to the base cow by 20 kg per 5T dry matter consumed.

Somatic Cell Count

A useful approximation for farmers to note, is that a difference between two sires of 0.5 in breeding value equates to a difference in expected daughter performance of 37,500 bulk milk count. The lower the SCC gBV the better as you want to reduce the bulk milk SCC.

Shed Temperament

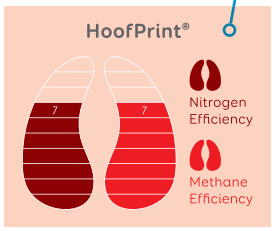
A gBV of 0.00 indicates that the bull will produce daughters which on average, are genetically the same as the base cow (for example by using a bull with a shed temperament of 0.33 the raw score for his daughters on average is expected to be 6.28 + 0.17 = 6.45 from a linear score of 9).

Stature

Again, as the gBV for a sire is comparing his progeny against the base cow which is across all breeds, stature for Jerseys is usually negative and Holsteins is usually positive.

120070 MEANDER TD
AERO-ET S1F

gBW $437/86% REL



Breeding Details	
NASIS	NZGAERO
Breed	F15J1
Pedigree	DARKSTAR x HOTHOUSE

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values			99 Daughters
Milk Volume (litres)	738	Fertility %	3.7
Fat kg	50	Body Condition Score	0.04
Fat %	5.0	Functional Survival	5.5
Protein kg	41	Calving Difficulty (cow)	1.2
Protein %	4.0	Calving Difficulty (heifer)	3.5
SCC	-0.09	Gestation Length (days)	-4.9
Liveweight	56	Beta-Casein	A2/A2

NZ Evaluation Data	Traits other than production				
Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.34				
Shed Temperament	0.33				
Milking Speed	0.47				
Overall Opinion	0.48				
Conformation (92 daughters TOP tested)					
Stature	0.63				
Capacity	0.12				
Rump Angle	-0.20				
Rump Width	0.00				
Legs	-0.32				
Udder Support	0.56				
Front Udder	0.58				
Rear Udder	0.21				
Front Teat Placement	0.32				
Rear Teat Placement	0.15				
Teat Length	-0.04				
Udder Overall	0.58				
Dairy Conformation	0.22				

19/01/2024

Australian Indices		Source: DataGene 05 Dec 2023	
BPI/REL %	246/63	Survival	99
ASI	187	Daughter Fertility	108
HWI	255	Calving Ease	103
Milk	-351	Overall Type	85
Fat kg	26	Protein kg	15

HoofPrint®

Environmental measure.
More info on pg 8.

Fertility

A gBV of 3.7% indicates that 1.8% more daughters are expected to calve in the first 42 days of a herds calving period, compared to a bull of 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 6 week calving pattern of 84%.

Highly fertile cows have been necessary to achieve this. It is generally accepted that the New Zealand base cow is far more fertile than any other country's genetic base.

Functional Survival

A gBV 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 5.5 should have 2.8% more daughters survive to the next lactation than a bull of gBV 0. The average number of lactations/cow in New Zealand is 5.

Calving Difficulty

Heifer & Cow CD gBVs 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.

Liveweight

A gBV of 56 kg indicates by using this sire over the average cow in New Zealand his daughters are expected to have a mature liveweight 28 kg heavier than the base cow of 500 kg. Because Breeding Values (gBV) are calculated across all breeds you would expect a Holstein Friesian to have a much higher (positive) gBV for liveweight and you would expect Jerseys to have a lower (negative) gBV.

gBW/gBV are calculated by LIC.

What is HoofPrint®?

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

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

How does the model work?

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

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

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

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

Reference Base population 2023

The HoofPrint® index ranking system has only been applied to dairy breeding bulls and therefore the base population too is only made up of dairy bulls. To ensure the values reflect the current genetic merit of the breeding animals available we have chosen to use a reference population of breeding bulls registered with NZAEL for AB service as of 1st February 2023, born since 1st January 2012 to 31st December 2021, excluding any beef and short gestation length dairy bulls. For 2023 this has created a reference population of 4318 bulls which are then rated based on their emission and excretion values per kilogram of milksolid.

Ranking system

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

HoofPrint®

Methane Efficiency

Nitrogen Efficiency

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 at 7 for both Methane Efficiency and Nitrogen Efficiency. It is in the top 32% of bulls born since 1st January 2012.

Sexed Semen

LIC offers Ultraplus™ sexed semen across a selection of our top bulls. With greater than 90% bias to female offspring, targeted use of LIC sexed semen allows farmers to boost rates of genetic gain in their milking herd while simultaneously creating more opportunities with surplus stock. LIC recommends generating AI replacement heifers from the highest genetic merit animals while mating the lower end to other AI options, such as LIC short gestation Hereford, to maximise herd improvement and profits on farm.

Considerations for using Sexed Semen

When using sexed semen, it is important to keep some wider considerations in mind to optimise the outcome on farm. New Zealand and Irish trials showed sexed semen averaged lower conception rates compared to conventional semen. This can influence calving pattern, which is a key driver of herd profitability, especially in block calving systems. Trial information is available on request.

A planned approach can be implemented on farm to maximise the benefit of using sexed semen, including:

- mate yearling heifers to sexed semen, as they have higher conception rates than in-milk cows. Choose bulls suitable for yearling mating and pregnancy scan early to identify those in-calf to AI bulls
- mate heifers 10 days ahead of the main herd
- use strict cow selection criteria for sexed semen matings. For example, young, high genetic merit, healthy, early-calved and cycling cows
- mate selected cows ahead of the herd's mating start date, or move the mating start date of the herd forward a day or two if the impact suggests it is necessary
- ensure underlying herd fertility performance is at a high level before considering the use of sexed semen and that AI best practice is followed
- be certain the cow is on full standing heat. If you're unsure use a conventional straw
- have plenty of stock bulls on hand to cover returning cows. For example, two teams of one bull to 30 non-pregnant cows if using a two-year-old bull, plus spares
- closely follow ST Genetics handling and insemination instructions for Ultraplus™ sexed semen which can be found at licnz.com.au/products-services/sexed-semen

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

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.

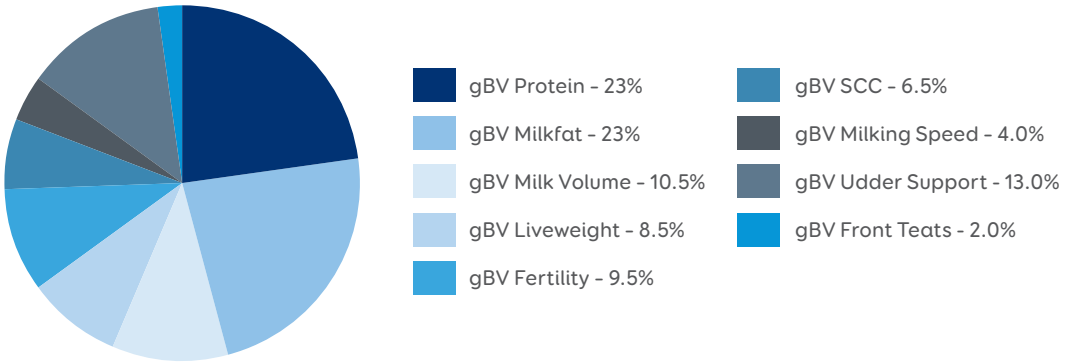
LIC's Variable Milking Selection Index (VMSI) has been developed to help farmers breed animals most suited to their system.

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 traits like udder support, front teat placement, and milking speed.

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

NZ AB Code	Name	VMSI	gBW	Rel %	Milk Volume (litres)	Fat kg	Protein kg	SCC	Fertility %	Heifer Calving Difficulty	Cow Calving Difficulty	Capacity	Udder Overall	Page Number
Holstein Friesian														
123087	BUSYBROOK S **SMOKIN GUN**-ET S1F	1595	500	48	550	55	42	-0.37	4.5	3.0	1.6	-0.03	0.83	31
120073	MEANDER TS **ALLOY**-ET S1F *	1578	536	90	704	76	42	-0.23	2.9	1.8	-0.2	-0.13	0.20	19
120003	SCOTTS BV **DARIUS**-ET	1573	496	86	1160	73	49	-0.21	1.6	2.8	-0.8	0.70	0.42	17
123058	WITTENHAM JACKPOT **AEGON**-ETS2F	1570	558	44	680	64	37	-0.39	8.1	3.7	0.7	0.59	0.58	31
122013	DICKSONS AR **MONOPOLL**-ET-P S2F	1548	513	56	466	47	37	0.18	7.3	1.7	-0.3	0.25	0.70	31
Jersey														
320029	ROCKLAND LQ **BERKLY**	1563	534	89	-145	61	24	0.01	1.6	-2.4	-0.6	0.28	0.86	34
318001	OKURA PEPPER **LUCCA**	1480	505	90	-31	57	19	-0.20	1.8	-1.6	-1.0	0.67	0.46	37
319030	GRANTZ BC **HENDRIX** ET S3J *	1442	470	90	122	44	24	0.18	10.4	-2.7	-0.6	0.08	0.47	38
318015	GLENUI SUPER **LAMAR** *	1435	444	98	-129	47	8	-0.50	2.3	-1.0	-0.7	0.46	0.78	40
323014	GLANTON BERKLY **PARKES**	1424	538	54	-360	51	19	-0.24	11.2	-2.1	-0.8	0.41	1.10	35
KiwiCross®														
523092	PLATEAU **DEMBE**	1677	599	46	499	67	40	-0.41	4.5	0.8	-0.1	0.62	0.98	60
523022	BUELIN **ORAN**	1673	615	53	433	69	44	-0.09	6.5	-0.6	-0.2	0.11	0.62	60
523004	PAYNES **SORCERER**-ET	1665	667	47	381	60	38	-0.39	7.0	-1.2	-1.2	0.45	0.61	60
523078	RHANTANA **ZEPPELIN**	1588	563	46	313	53	30	-0.48	10.3	-0.7	-0.3	0.49	1.05	60
519034	GORDONS **FLASH-GORDON** *	1586	569	91	996	59	52	0.03	2.8	-0.3	0.5	0.34	0.46	46

* Sexed semen is offered for Single AI use only. See page 9 for more information.

19/01/2024

SGL plus gBW

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

NZ 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 Number
Holstein Friesian												
120015	ASHDALE GE **HIGHRISE** S2F	-10.1	395 / 86	40	63	977	-5.3	0.9	-0.70	0.95	0.24	31
121011	LOMBARDI **MAVERICK** S3F	-8.6	403 / 55	40	36	872	8.8	0.8	-0.22	0.22	1.04	24
122058	TELESIS FLEX **THEODORE** S1F	-8.0	524 / 53	38	63	885	9.5	-0.6	0.06	0.47	0.36	31
119014	BUELIN BM **EQUATOR** S2F *	-7.9	392 / 98	30	61	888	4.3	0.9	0.03	0.38	0.25	18
Jersey												
312057	BELLS CM **CONRAD** S2J *	-6.7	349 / 99	15	26	-10	12.4	-1.4	0.40	0.40	0.17	40
315008	PUKEROA AND **BARATONE** ET	-5.0	416 / 99	11	31	-450	1.5	-0.5	0.05	0.41	0.31	41
KiwiCross®												
519089	SCHRADERS **TRADER** *	-11.3	489 / 88	51	66	1351	0.6	-0.4	0.38	1.12	0.05	47
517055	TARAMONT **SPRINGTIDE**	-10.4	390 / 98	46	49	935	-1.6	-0.3	0.46	0.97	0.94	60
520058	PAYNES **PASSENGER**-ET	-9.8	374 / 86	40	25	902	10.1	-0.6	-0.35	0.26	1.18	48
518017	HORIZON **BARNSTORMER**-ET	-9.4	309 / 98	33	42	694	0.7	0.8	-0.01	0.90	0.17	59

* Sexed semen is offered for Single AI use only. See page 9 for more information.

19/01/2024

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.

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.

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.

Speckle Park

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

Price per straw	
1-100	100+
$14.00	$12.00

RISSINGTON CATTLE COMPANY

SHRIMPTON'S HILL HEREFORDS

2024

Holstein Friesian

For updated bull information after each AE run, scan the QR code

Top 5 Performers

Breeding Worth

NZ Herd Average
NZ$169

NZ AB Code	Name	gBW/Rel%	Page
123058	WITTENHAM JACKPOT **AEGON**-ET S2F	558 / 44	31
120073	MEANDER TS **ALLOY**-ET S1F *	536 / 90	19
122058	TELESIS FLEX **THEODORE** S1F	524 / 53	31
122013	DICKSONS AR **MONOPOLL**-ET-P S2F	513 / 56	31
123005	PAYNES MJ **PROTECTIVE**-ET S2F	505 / 45	31

BPI

NZ AB Code	Name	BPI/Rel%	Page
120073	MEANDER TS **ALLOY**-ET S1F *	393 / 67	19
119002	BELLAMYS DM **GALANT**-ET S1F *	328 / 69	16
119034	TAFTS RHD **OFFICER**-ET S2F *	308 / 68	20
120003	SCOTTS BV **DARIUS**-ET	308 / 67	17
120065	CAVALIER SS **RIVAL**-ET S2F	291 / 60	21

Protein

NZ Herd Average
25kg/3.80%

NZ AB Code	Name	Protein (kg/%)	Page
119034	TAFTS RHD **OFFICER**-ET S2F *	60 / 3.8	20
123005	PAYNES MJ **PROTECTIVE**-ET S2F	53 / 3.7	31
120003	SCOTTS BV **DARIUS**-ET	49 / 3.9	17
117019	MCKENZIE GF **COMET** S3F	47 / 3.9	25
113086	MAIRE IG **GAUNTLET**-ET	45 / 3.7	27

Fat

NZ Herd Average
21kg/4.56%

NZ AB Code	Name	Fat (kg/%)	Page
120073	MEANDER TS **ALLOY**-ET S1F *	76 / 5.5	19
120003	SCOTTS BV **DARIUS**-ET	73 / 5.1	17
123058	WITTENHAM JACKPOT **AEGON**-ET S2F	64 / 5.3	31
122058	TELESIS FLEX **THEODORE** S1F	63 / 5.1	31
122056	MAH FINN **SAGE**-ET S1F	61 / 5.7	31

Fertility

NZ Herd Average
-0.8%

NZ AB Code	Name	Fertility (%)	Page
122058	TELESIS FLEX **THEODORE** S1F	9.5	31
121011	LOMBARDI **MAVERICK** S3F	8.8	24
123058	WITTENHAM JACKPOT **AEGON**-ET S2F	8.1	31
118061	TELESIS GI **ESQUIRE** S2F *	8.0	18
117044	HALLVILLE AS **COLA** S2F *	8.0	22

Milk Volume

NZ Herd Average
641 litres

NZ AB Code	Name	Volume (l)	Page
119034	TAFTS RHD **OFFICER**-ET S2F *	1522	20
123005	PAYNES MJ **PROTECTIVE**-ET S2F	1473	31
113086	MAIRE IG **GAUNTLET**-ET	1354	27
120003	SCOTTS BV **DARIUS**-ET	1160	17
120065	CAVALIER SS **RIVAL**-ET S2F	1080	21

SCC

NZ Herd Average
0.04

NZ AB Code	Name	SCC	Page
120065	CAVALIER SS **RIVAL**-ET S2F	-0.44	21
123058	WITTENHAM JACKPOT **AEGON**-ET S2F	-0.39	31
123087	BUSYBROOK S **SMOKIN GUN**-ET S1F	-0.37	31
119002	BELLAMYS DM **GALANT**-ET S1F *	-0.27	16
113117	GREENWELL SH **BOMBER** S1F	-0.25	29

Capacity

NZ Herd Average
0.19

NZ AB Code	Name	Capacity	Page
117019	MCKENZIE GF **COMET** S3F	1.12	25
113086	MAIRE IG **GAUNTLET**-ET	0.99	27
114007	BUSY BROOK WTP **VECTOR** S3F *	0.95	25
116078	MEANDER SB **ALAMO** S2F	0.81	28
119002	BELLAMYS DM **GALANT**-ET S1F *	0.75	16

Udder Overall

NZ Herd Average
0.29

NZ AB Code	Name	Udder Overall	Page
119012	FANANA BM **EXCELLENT** S2F *	1.28	22
123066	MEANDER BROKER **ALLEGRO**-ET S1F	1.10	31
121011	LOMBARDI **MAVERICK** S3F	1.04	24
119034	TAFTS RHD **OFFICER**-ET S2F *	1.03	20
113086	MAIRE IG **GAUNTLET**-ET	0.91	27

Heifer Calving Difficulty

NZ Herd Average
1.8%

NZ AB Code	Name	HCD/Rel%	Page
121011	LOMBARDI **MAVERICK** S3F	-2.7	24
118061	HALLVILLE AS **COLA** S2F *	-2.7	22
116060	ON-DER-REY MA **APPROVE** S2F	-0.5	30
119034	TAFTS RHD **OFFICER**-ET S2F *	0.3	20
120010	COSTERS P **POLLJUMP**-PP S2F	0.4	30

* Sexed semen is offered for Single AI use only. See page 9 for more information.

Source: DataGene 05/12/2023 19/01/2024

FAST FORWARD Team™

LIC's best available genetics earlier than before, fast-forwarding your herd's genetic gain.

The Fast Forward Team™ uses genomic technology to deliver high genetic merit sires with improved reliability at a younger age. Access the next generation of elite bulls earlier, and use a team approach for a balanced breeding strategy.

How it works

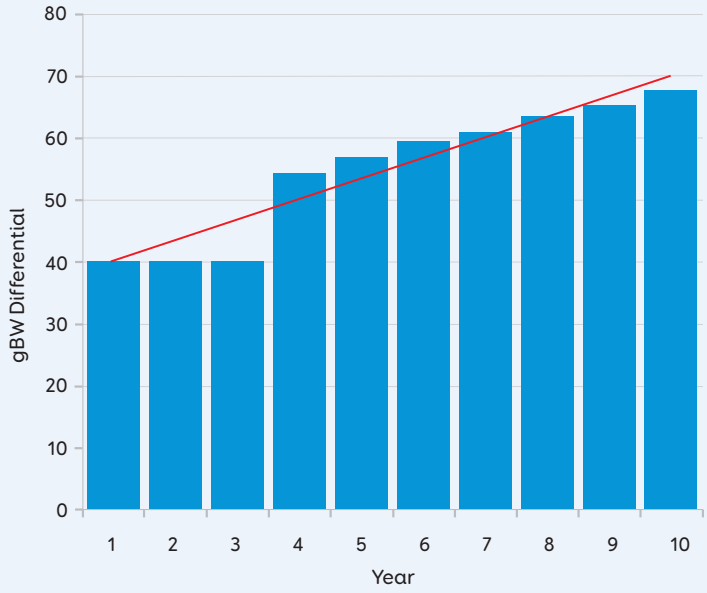
- A selection of LIC's elite genomic sires make up the Fast Forward Team
- A team of five to seven sires will be allocated
- The sires are hand-picked by LIC breeding managers to ensure high genetic merit, all-round performance and strong cow families
- An even spread of straws from bulls in the team will be supplied
- Minimum of 50 straws per order
- Available from spring 2024

Terms and conditions apply

$23 - Team price per straw

For more information talk to your District Manager.

Predicted difference between gBW of replacements from using Fast Forward Team vs Daughter Proven Sires



Through strong investment into research and development, our genomic sires consistently deliver higher rates of genetic gain.

As a result, the gap between genomic and daughter proven sires is widening, and the variation within the genomic group is decreasing, therefore, providing farmers with greater confidence.

Genomic Breeding Values

NZ AB Code	Name	Breed 16th	Beta Casein	gBW	Rel	Fat kg	Fat %	Protein kg	Protein %	Milk Volume (litres)	Liveweight	Fertility	Functional Survival	Somatic Cell Count	Body Condition	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length (days)
123058	WITTENHAM JACKPOT **AEGON**-ET S2F	F16	A1/A2	558	44	64	5.3	37	4.0	680	55	8.1	6.7	-0.4	0.3	3.7	0.7	0.3
122058	TELESIS FLEX **THEODORE** S1F	F16	A2/A2	524	53	63	5.1	38	3.9	885	53	9.5	2.9	0.1	0.3	1.6	-0.6	-8.0
122013	DICKSONS AR **MONOPOLL**-ET-P S2F	F16	A2/A2	513	56	47	5.2	37	4.2	466	1	7.3	3.6	0.2	0.0	1.7	-0.3	-5.1
123005	PAYNES MJ **PROTECTIVE**-ET S2F	F16	A2/A2	505	45	53	4.5	53	3.7	1473	45	6.9	4.2	-0.2	0.1	4.9	0.8	-5.1
123087	BUSYBROOK S **SMOKIN GUN**-ET S1F	F16	A2/A2	500	48	55	5.3	42	4.2	550	49	4.5	3.6	-0.4	0.0	3.0	1.6	-4.8
123066	MEANDER BROKER **ALLEGRO**-ET S1F	F16	A2/A2	491	45	52	5.2	40	4.1	599	28	3.9	2.5	-0.2	0.0	2.7	1.0	-3.7
122056	MAH FINN **SAGE**-ET S1F	F16	A2/A2	491	54	61	5.7	31	4.2	265	30	3.1	2.2	0.1	0.0	6.0	-0.2	-5.4
	Team Average			**512**	**93**	**56**	**5.2**	**40**	**4.0**	**703**	**37**	**6.2**	**4.0**	**-0.1**	**0.1**	**3.4**	**0.4**	**-4.6**

19/01/2024

Traits other than production

NZ AB Code	Name	Adaptability to Milking	Shed Temperament	Milking Speed	Overall Opinion	Stature	Capacity	Rump Angle	Rump Width	Legs	Udder Support	Front Udder	Rear Udder	Front Teat Placement	Rear Teat Placement	Teat Length	Udder Overall	Dairy Conformation
123058	WITTENHAM JACKPOT **AEGON**-ET S2F	0.29	0.29	0.09	0.46	0.46	0.59	0.54	0.40	-0.08	0.52	0.77	0.29	0.19	0.05	-0.17	0.58	0.54
122058	TELESIS FLEX **THEODORE** S1F	0.19	0.19	0.06	0.33	0.38	0.47	-0.14	0.62	-0.08	0.47	0.57	0.09	0.02	0.10	0.08	0.36	0.55
122013	DICKSONS AR **MONOPOLL**-ET-P S2F	0.42	0.42	0.43	0.49	0.38	0.25	0.00	0.66	-0.02	0.69	0.90	0.50	0.11	0.23	-0.54	0.70	0.37
123005	PAYNES MJ **PROTECTIVE**-ET S2F	0.26	0.26	0.23	0.46	0.35	0.31	-0.31	0.44	-0.20	0.48	0.48	0.40	0.01	-0.11	-0.12	0.48	0.32
123087	BUSYBROOK S **SMOKIN GUN**-ET S1F	0.05	0.04	0.14	0.18	0.82	-0.03	0.17	0.90	-0.16	0.81	0.60	0.53	0.59	0.92	-0.33	0.83	0.28
123066	MEANDER BROKER **ALLEGRO**-ET S1F	0.20	0.19	0.23	0.36	0.70	0.22	0.16	0.30	-0.05	0.80	1.03	0.69	0.78	0.58	-0.37	1.10	0.39
122056	MAH FINN **SAGE**-ET S1F	0.35	0.34	0.32	0.55	0.29	0.22	-0.09	0.16	0.07	0.45	0.43	0.17	0.37	0.11	0.29	0.51	0.39
	Team Average	**0.25**	**0.25**	**0.21**	**0.40**	**0.48**	**0.29**	**0.05**	**0.50**	**-0.07**	**0.60**	**0.68**	**0.38**	**0.30**	**0.27**	**-0.17**	**0.65**	**0.40**

19/01/2024

Weighted Team Averages

Management	-0.5	0	0.5	1
Adapts to Milking	**0.25**			quickly
Shed Temperament	**0.25**			placid
Milking Speed	**0.21**			fast
Overall Opinion	**0.40**			desirable

Conformation	-0.5	0	0.5	1
Stature	**0.48**			tall
Capacity	**0.29**			capacious
Rump Angle	**0.05**			sloping
Rump Width	**0.50**			wide
Legs	**-0.07**			curved
Udder Support	**0.60**			strong
Front Udder	**0.68**			strong
Rear Udder	**0.38**			high
Front Teat Placement	**0.30**			close
Rear Teat Placement	**0.27**			close
Teat Length	**-0.17**			long
Udder Overall	**0.65**			desirable
Dairy Conformation	**0.40**			desirable

gBW/Rel%	$512/93%
Milkfat	**56 kgs**
Protein	**40 kgs**
Milk	**703 litres**
Liveweight	**37 kgs**
Functional Survival	**4%**
Milkfat %	**5.2%**
Protein %	**4.0%**
Heifer Calving Dif	**3.4%**
Cow Calving Dif	**0.4%**
Fertility	**6.2%**
SCC	**-0.1**
BCS	**0.1**

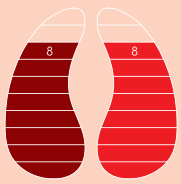
NB: the reliability of a team of bulls is always higher than using just one bull.

19/01/2024

HoofPrint®

Methane Efficiency

Nitrogen Efficiency



Ultraplus™

RETAIL $25.00
SEXED $54.00

Daughter of 119002 GALANT

119002 BELLAMYS DM GALANT-ET S1F

$421/98%
gBW REL

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

Breeding Details	
NASIS	NZGGALANT
Breed	F16
Pedigree	MANDATE x BEAMER

Daughter of 119002 GALANT

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			3443 Daughters
Milk Volume (litres)	110	Fertility %	5.4
Fat kg	48	Body Condition Score	0.12
Fat %	5.7	Functional Survival	2.6
Protein kg	28	Calving Difficulty (cow)	0.1
Protein %	4.3	Calving Difficulty (heifer)	5.1
SCC	-0.27	Gestation Length (days)	-2.2
Liveweight	54	Beta-Casein	A2/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.15	
Shed Temperament	0.14	
Milking Speed	0.23	
Overall Opinion	0.27	
Conformation (142 daughters TOP tested)		
Stature	0.75	
Capacity	0.75	
Rump Angle	0.13	
Rump Width	0.98	
Legs	0.09	
Udder Support	0.33	
Front Udder	0.43	
Rear Udder	0.32	
Front Teat Placement	0.00	
Rear Teat Placement	0.17	
Teat Length	-0.30	
Udder Overall	0.33	
Dairy Conformation	0.78	

19/01/2024

Australian Indices			Source: DataGene 05 Dec 2023
BPI/REL %	328/69	Survival	100
ASI	213	Daughter Fertility	112
HWI	350	Calving Ease	103
Milk	-812	Overall Type	90
Fat kg	35	Protein kg	11

Dam of 117068 ARROW

117068 MEANDER SB ARROW-ET S2F

$379/99%
gBW REL

HoofPrint®

Breeding Details	
NASIS	NZGMEARROW
Breed	F15J1
Pedigree	BEAMER x ILLUSTRIOUS

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			8721 Daughters
Milk Volume (litres)	350	Fertility %	3.2
Fat kg	41	Body Condition Score	0.04
Fat %	5.2	Functional Survival	3.4
Protein kg	31	Calving Difficulty (cow)	-0.2
Protein %	4.2	Calving Difficulty (heifer)	1.1
SCC	0.47	Gestation Length (days)	-7.0
Liveweight	31	Beta-Casein	A1/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.51	
Shed Temperament	0.50	
Milking Speed	0.43	
Overall Opinion	0.61	
Conformation (278 daughters TOP tested)		
Stature	0.44	
Capacity	0.32	
Rump Angle	-0.09	
Rump Width	0.87	
Legs	-0.11	
Udder Support	0.73	
Front Udder	0.60	
Rear Udder	0.75	
Front Teat Placement	0.14	
Rear Teat Placement	0.11	
Teat Length	-0.53	
Udder Overall	0.78	
Dairy Conformation	0.49	

19/01/2024

Australian Indices		Source: DataGene 05 Dec 2023	
BPI/REL %	284/74	Survival	102
ASI	217	Daughter Fertility	113
HWI	294	Calving Ease	103
Milk	-868	Overall Type	89
Fat kg	27	Protein kg	13

Daughter of 120003 DARIUS

120003 SCOTTS BV DARIUS-ET

$496/86%
gBW REL

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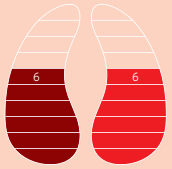


Breeding Details	
NASIS	NZGDARIUS
Breed	F16
Pedigree	VECTOR x FREEDOM

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			97 Daughters
Milk Volume (litres)	1160	Fertility %	1.6
Fat kg	73	Body Condition Score	0.24
Fat %	5.1	Functional Survival	2.6
Protein kg	49	Calving Difficulty (cow)	-0.8
Protein %	3.9	Calving Difficulty (heifer)	2.8
SCC	-0.21	Gestation Length (days)	-3.7
Liveweight	104	Beta-Casein	A1/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.71	
Shed Temperament	0.72	
Milking Speed	0.32	
Overall Opinion	0.79	
Conformation (89 daughters TOP tested)		
Stature	1.16	
Capacity	0.70	
Rump Angle	-0.22	
Rump Width	0.98	
Legs	-0.08	
Udder Support	0.47	
Front Udder	0.29	
Rear Udder	0.34	
Front Teat Placement	0.07	
Rear Teat Placement	0.15	
Teat Length	-0.44	
Udder Overall	0.42	
Dairy Conformation	0.78	

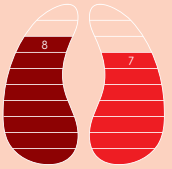
19/01/2024

Australian Indices		Source: DataGene 05 Dec 2023	
BPI/REL %	308/67	Survival	99
ASI	244	Daughter Fertility	111
HWI	313	Calving Ease	103
Milk	-290	Overall Type	93
Fat kg	49	Protein kg	17

117044 TELESIS GI ESQUIRE S2F

$361/98% gBW REL

HoofPrint®



Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGESQUIRE
Breed	F16
Pedigree	INCA x HAMMER

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			2172 Daughters
Milk Volume (litres)	832	Fertility %	8.0
Fat kg	26	Body Condition Score	0.18
Fat %	4.5	Functional Survival	3.8
Protein kg	36	Calving Difficulty (cow)	0.1
Protein %	3.9	Calving Difficulty (heifer)	2.1
SCC	0.04	Gestation Length (days)	-3.3
Liveweight	22	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.24	
Shed Temperament	0.24	
Milking Speed	0.16	
Overall Opinion	0.35	
Conformation (107 daughters TOP tested)		
Stature	0.07	
Capacity	0.40	
Rump Angle	0.29	
Rump Width	-0.05	
Legs	0.07	
Udder Support	0.52	
Front Udder	0.57	
Rear Udder	0.45	
Front Teat Placement	0.02	
Rear Teat Placement	0.43	
Teat Length	0.54	
Udder Overall	0.47	
Dairy Conformation	0.33	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	253/69	Survival	102
ASI	140	Daughter Fertility	112
HWI	327	Calving Ease	101
Milk	-369	Overall Type	87
Fat kg	11	Protein kg	13

Dam of 119014 EQUATOR

119014 BUELIN BM EQUATOR S2F

$392/98% gBW REL

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGEQUATOR
Breed	F16
Pedigree	MAXIMA x MINT-EDITION

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			3405 Daughters
Milk Volume (litres)	888	Fertility %	4.3
Fat kg	61	Body Condition Score	0.09
Fat %	5.1	Functional Survival	4.0
Protein kg	30	Calving Difficulty (cow)	0.9
Protein %	3.7	Calving Difficulty (heifer)	2.1
SCC	0.03	Gestation Length (days)	-7.9
Liveweight	55	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.57	
Shed Temperament	0.57	
Milking Speed	0.29	
Overall Opinion	0.65	
Conformation (135 daughters TOP tested)		
Stature	0.68	
Capacity	0.38	
Rump Angle	-0.07	
Rump Width	0.70	
Legs	-0.22	
Udder Support	0.42	
Front Udder	-0.10	
Rear Udder	0.29	
Front Teat Placement	-0.03	
Rear Teat Placement	0.20	
Teat Length	-0.17	
Udder Overall	0.25	
Dairy Conformation	0.44	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	253/69	Survival	99
ASI	198	Daughter Fertility	113
HWI	280	Calving Ease	104
Milk	-532	Overall Type	85
Fat kg	47	Protein kg	8

Ultraplus™

RETAIL $25.00
SEXED $54.00

Daughter of 120073 ALLOY

120073 MEANDER TS ALLOY-ET S1F

Daughter of 120073 ALLOY

Dam of 120073 ALLOY

$536/90% gBW REL

Breeding Details

NASIS	NZGALLOY
Breed	F16
Pedigree	SUPERVISOR x ILLUSTRIOUS

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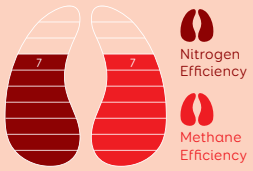


NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			195 Daughters
Milk Volume (litres)	704	Fertility %	2.9
Fat kg	76	Body Condition Score	0.15
Fat %	5.5	Functional Survival	3.0
Protein kg	42	Calving Difficulty (cow)	-0.2
Protein %	4.1	Calving Difficulty (heifer)	1.8
SCC	-0.23	Gestation Length (days)	-7.8
Liveweight	78	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.29				
Shed Temperament	0.28				
Milking Speed	0.30				
Overall Opinion	0.47				
Conformation (123 daughters TOP tested)					
Stature	0.54				
Capacity	-0.13				
Rump Angle	-0.33				
Rump Width	0.62				
Legs	-0.21				
Udder Support	0.21				
Front Udder	-0.06				
Rear Udder	0.39				
Front Teat Placement	-0.17				
Rear Teat Placement	-0.40				
Teat Length	0.05				
Udder Overall	0.20				
Dairy Conformation	-0.12				

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	393/67	Survival	100
ASI	285	Daughter Fertility	117
HWI	428	Calving Ease	104
Milk	-334	Overall Type	82
Fat kg	51	Protein kg	22

19/01/2024

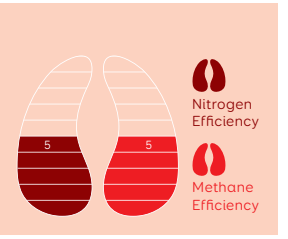
Ultraplus™

RETAIL $25.00
SEXED $54.00

Dam of 119034 OFFICER

119034 TAFTS RHD OFFICER-ET S2F

$428/97%
gBW REL



Breeding Details

NASIS	NZGOFFICER
Breed	F16
Pedigree	DUDE x BEAMER

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values		2288 Daughters	
Milk Volume (litres)	1522	Fertility %	2.0
Fat kg	54	Body Condition Score	0.37
Fat %	4.4	Functional Survival	3.1
Protein kg	60	Calving Difficulty (cow)	1.7
Protein %	3.8	Calving Difficulty (heifer)	0.3
SCC	0.15	Gestation Length (days)	-3.7
Liveweight	126	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.48				
Shed Temperament	0.51				
Milking Speed	-0.15				
Overall Opinion	0.55				
Conformation (112 daughters TOP tested)					
Stature	1.28				
Capacity	0.68				
Rump Angle	-0.19				
Rump Width	0.97				
Legs	-0.08				
Udder Support	0.83				
Front Udder	0.96				
Rear Udder	0.72				
Front Teat Placement	0.46				
Rear Teat Placement	0.13				
Teat Length	0.09				
Udder Overall	1.03				
Dairy Conformation	0.81				

19/01/2024

Daughter of 119034 OFFICER

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	308/68	Survival	100
ASI	266	Daughter Fertility	110
HWI	290	Calving Ease	0
Milk	83	Overall Type	95
Fat kg	36	Protein kg	29

120065 CAVALIER SS **RIVAL**-ET S2F


Daughter of 120065 RIVAL


Half Sister of 120065 RIVAL

gBW $411/85% REL

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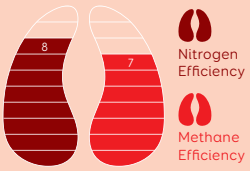

Breeding Details	
NASIS	NZGRIVAL
Breed	F16
Pedigree	SCOUT x PULSE

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			96 Daughters
Milk Volume (litres)	1080	Fertility %	4.6
Fat kg	38	Body Condition Score	0.00
Fat %	4.5	Functional Survival	5.3
Protein kg	44	Calving Difficulty (cow)	0.9
Protein %	3.8	Calving Difficulty (heifer)	1.6
SCC	-0.44	Gestation Length (days)	-6.5
Liveweight	40	Beta-Casein	A2/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.72	
Shed Temperament	0.73	
Milking Speed	0.57	
Overall Opinion	0.73	
Conformation (91 daughters TOP tested)		
Stature	0.37	
Capacity	0.38	
Rump Angle	-0.38	
Rump Width	0.06	
Legs	-0.07	
Udder Support	0.74	
Front Udder	0.63	
Rear Udder	0.59	
Front Teat Placement	0.18	
Rear Teat Placement	0.11	
Teat Length	0.06	
Udder Overall	0.75	
Dairy Conformation	0.21	

Australian Indices		Source: DataGene 05 Dec 2023	
BPI/REL %	291/60	Survival	99
ASI	142	Daughter Fertility	114
HWI	372	Calving Ease	102
Milk	-260	Overall Type	83
Fat kg	19	Protein kg	16

19/01/2024

118061 HALLVILLE AS COLA S2F

$350/89% gBW REL

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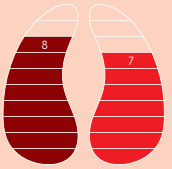

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGCOLA
Breed	F16
Pedigree	SALUTE x KINGSTON

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			89 Daughters
Milk Volume (litres)	887	Fertility %	8.0
Fat kg	24	Body Condition Score	0.20
Fat %	4.4	Functional Survival	3.4
Protein kg	38	Calving Difficulty (cow)	0.0
Protein %	3.9	Calving Difficulty (heifer)	-2.7
SCC	0.10	Gestation Length (days)	-7.2
Liveweight	36	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	-0.13	
Shed Temperament	-0.14	
Milking Speed	-0.07	
Overall Opinion	0.04	
Conformation (82 daughters TOP tested)		
Stature	0.30	
Capacity	0.15	
Rump Angle	-0.08	
Rump Width	0.56	
Legs	0.03	
Udder Support	0.72	
Front Udder	0.62	
Rear Udder	0.40	
Front Teat Placement	0.37	
Rear Teat Placement	0.01	
Teat Length	-1.00	
Udder Overall	0.77	
Dairy Conformation	0.24	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	184/64	Survival	97
ASI	163	Daughter Fertility	113
HWI	244	Calving Ease	102
Milk	-133	Overall Type	87
Fat kg	9	Protein kg	20

119012 FANANA BM EXCELLENT S2F

$319/90% gBW REL

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Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGFANEXCELL
Breed	F16
Pedigree	MAXIMA x BOSS

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			127 Daughters
Milk Volume (litres)	447	Fertility %	3.4
Fat kg	36	Body Condition Score	0.11
Fat %	5.0	Functional Survival	5.5
Protein kg	19	Calving Difficulty (cow)	0.3
Protein %	3.8	Calving Difficulty (heifer)	0.9
SCC	-0.18	Gestation Length (days)	-4.0
Liveweight	24	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.37	
Shed Temperament	0.38	
Milking Speed	0.11	
Overall Opinion	0.39	
Conformation (88 daughters TOP tested)		
Stature	0.38	
Capacity	0.38	
Rump Angle	-0.09	
Rump Width	-0.01	
Legs	0.05	
Udder Support	1.19	
Front Udder	0.95	
Rear Udder	0.98	
Front Teat Placement	0.77	
Rear Teat Placement	1.31	
Teat Length	-0.29	
Udder Overall	1.28	
Dairy Conformation	0.35	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	235/66	Survival	99
ASI	133	Daughter Fertility	115
HWI	312	Calving Ease	103
Milk	-855	Overall Type	93
Fat kg	27	Protein kg	1

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120070 MEANDER TD **AERO**-ET S1F

Daughter of 120070 AERO

Daughter of 120070 AERO

$437/86%
gBW REL

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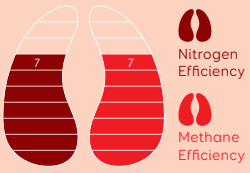


Breeding Details

NASIS	NZGAERO
Breed	F15J1
Pedigree	DARKSTAR x HOTHOUSE

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values		99 Daughters	
Milk Volume (litres)	738	Fertility %	3.7
Fat kg	50	Body Condition Score	0.04
Fat %	5.0	Functional Survival	5.5
Protein kg	41	Calving Difficulty (cow)	1.2
Protein %	4.0	Calving Difficulty (heifer)	3.5
SCC	-0.09	Gestation Length (days)	-4.9
Liveweight	56	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.34				
Shed Temperament	0.33				
Milking Speed	0.47				
Overall Opinion	0.48				
Conformation (92 daughters TOP tested)					
Stature	0.63				
Capacity	0.12				
Rump Angle	-0.20				
Rump Width	0.00				
Legs	-0.32				
Udder Support	0.56				
Front Udder	0.58				
Rear Udder	0.21				
Front Teat Placement	0.32				
Rear Teat Placement	0.15				
Teat Length	-0.04				
Udder Overall	0.58				
Dairy Conformation	0.22				

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	246/63	Survival	99
ASI	187	Daughter Fertility	108
HWI	255	Calving Ease	103
Milk	-351	Overall Type	85
Fat kg	26	Protein kg	15

19/01/2024

121011 LOMBARDI **MAVERICK** S3F

$403/55%
gBW REL

Breeding Details

NASIS	NZGMAVERICK
Breed	F16
Pedigree	CURRENCY x BEAMER

HoofPrint®

NEW ZEALAND DETAILS

Genomically Selected

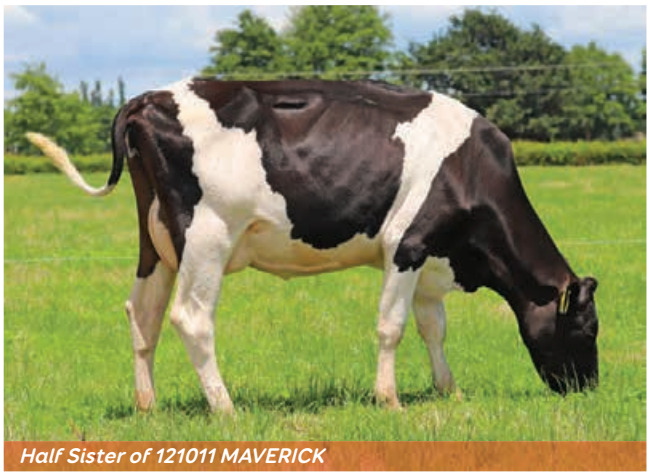
NZ Breeding Values			0 Daughters
Milk Volume (litres)	872	Fertility %	8.8
Fat kg	36	Body Condition Score	0.19
Fat %	4.7	Functional Survival	3.4
Protein kg	40	Calving Difficulty (cow)	0.8
Protein %	3.9	Calving Difficulty (heifer)	-2.7
SCC	-0.22	Gestation Length (days)	-8.6
Liveweight	63	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.59				
Shed Temperament	0.61				
Milking Speed	0.13				
Overall Opinion	0.57				
Conformation (0 daughters TOP tested)					
Stature	0.88				
Capacity	0.22				
Rump Angle	0.20				
Rump Width	1.03				
Legs	-0.11				
Udder Support	0.86				
Front Udder	1.17				
Rear Udder	0.85				
Front Teat Placement	0.34				
Rear Teat Placement	0.32				
Teat Length	-0.83				
Udder Overall	1.04				
Dairy Conformation	0.43				

19/01/2024



Half Sister of 121011 MAVERICK

Aunty of 121011 MAVERICK

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	275/57	Survival	100
ASI	165	Daughter Fertility	116
HWI	341	Calving Ease	101
Milk	-339	Overall Type	86
Fat kg	13	Protein kg	16

114007 BUSY BROOK WTP VECTOR S3F

$327/99% gBW REL

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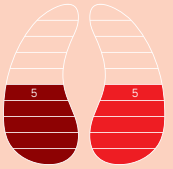

Breeding Details

NASIS	NZGBBVECTR
Breed	F16
Pedigree	TE POI x GOLDEN BOY

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			38273 Daughters
Milk Volume (litres)	971	Fertility %	5.3
Fat kg	40	Body Condition Score	0.45
Fat %	4.6	Functional Survival	3.3
Protein kg	39	Calving Difficulty (cow)	0.0
Protein %	3.8	Calving Difficulty (heifer)	0.6
SCC	-0.19	Gestation Length (days)	-2.2
Liveweight	114	Beta-Casein	A1/A1

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.51				
Shed Temperament	0.51				
Milking Speed	0.27				
Overall Opinion	0.66				
Conformation (424 daughters TOP tested)					
Stature	0.81				
Capacity	0.95				
Rump Angle	0.29				
Rump Width	0.58				
Legs	0.06				
Udder Support	0.50				
Front Udder	0.53				
Rear Udder	0.32				
Front Teat Placement	0.11				
Rear Teat Placement	-0.29				
Teat Length	-0.12				
Udder Overall	0.54				
Dairy Conformation	0.93				

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	265/87	Survival	103
ASI	123	Daughter Fertility	113
HWI	327	Calving Ease	102
Milk	-326	Overall Type	94
Fat kg	16	Protein kg	9

Paternal Grand Dam of 117019 COMET

117019 MCKENZIE GF COMET S3F

$299/89% gBW REL

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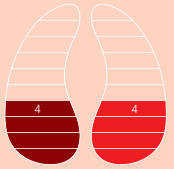

Breeding Details

NASIS	NZGCOMET
Breed	F16
Pedigree	FORAY x MINT-EDITION

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			84 Daughters
Milk Volume (litres)	1047	Fertility %	-2.6
Fat kg	37	Body Condition Score	0.14
Fat %	4.5	Functional Survival	-0.5
Protein kg	47	Calving Difficulty (cow)	0.5
Protein %	3.9	Calving Difficulty (heifer)	3.3
SCC	-0.23	Gestation Length (days)	-4.7
Liveweight	94	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.64				
Shed Temperament	0.67				
Milking Speed	-0.07				
Overall Opinion	0.66				
Conformation (73 daughters TOP tested)					
Stature	0.93				
Capacity	1.12				
Rump Angle	0.16				
Rump Width	0.80				
Legs	0.01				
Udder Support	0.62				
Front Udder	0.82				
Rear Udder	0.53				
Front Teat Placement	0.48				
Rear Teat Placement	0.87				
Teat Length	-0.65				
Udder Overall	0.74				
Dairy Conformation	1.31				

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	266/66	Survival	99
ASI	198	Daughter Fertility	110
HWI	269	Calving Ease	102
Milk	-83	Overall Type	99
Fat kg	19	Protein kg	23

117090 TRONNOCO MH SAMBA-ET S3F

$300/97% gBW REL

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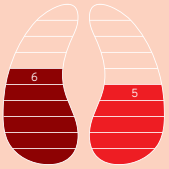

Breeding Details	
NASIS	NZGSAMBA
Breed	F16
Pedigree	HOTHOUSE x MAXIMISER

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			1367 Daughters
Milk Volume (litres)	1047	Fertility %	-0.1
Fat kg	29	Body Condition Score	0.01
Fat %	4.4	Functional Survival	2.4
Protein kg	42	Calving Difficulty (cow)	1.3
Protein %	3.8	Calving Difficulty (heifer)	5.7
SCC	0.26	Gestation Length (days)	-1.9
Liveweight	31	Beta-Casein	A2/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.35	
Shed Temperament	0.36	
Milking Speed	0.00	
Overall Opinion	0.52	
Conformation (111 daughters TOP tested)		
Stature	0.77	
Capacity	0.11	
Rump Angle	-0.33	
Rump Width	0.07	
Legs	-0.21	
Udder Support	0.70	
Front Udder	1.06	
Rear Udder	0.44	
Front Teat Placement	0.41	
Rear Teat Placement	0.09	
Teat Length	-0.12	
Udder Overall	0.87	
Dairy Conformation	0.35	

19/01/2024

Australian Indices		Source: DataGene 05 Dec 2023	
BPI/REL %	171/69	Survival	99
ASI	161	Daughter Fertility	104
HWI	167	Calving Ease	101
Milk	270	Overall Type	91
Fat kg	11	Protein kg	24

118034 PAYNES TT PASTIME-ET S2F

$206/91% gBW REL

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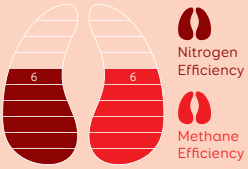

Breeding Details	
NASIS	NZGPASTIME
Breed	F16
Pedigree	TECHNICIAN x PULSE

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			116 Daughters
Milk Volume (litres)	521	Fertility %	5.7
Fat kg	16	Body Condition Score	0.04
Fat %	4.6	Functional Survival	2.7
Protein kg	20	Calving Difficulty (cow)	1.3
Protein %	3.8	Calving Difficulty (heifer)	3.9
SCC	0.13	Gestation Length (days)	-5.9
Liveweight	21	Beta-Casein	A1/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.12	
Shed Temperament	0.11	
Milking Speed	0.18	
Overall Opinion	0.23	
Conformation (105 daughters TOP tested)		
Stature	0.03	
Capacity	-0.07	
Rump Angle	-0.41	
Rump Width	0.29	
Legs	-0.13	
Udder Support	0.55	
Front Udder	0.80	
Rear Udder	0.16	
Front Teat Placement	0.61	
Rear Teat Placement	0.19	
Teat Length	-0.28	
Udder Overall	0.72	
Dairy Conformation	-0.01	

19/01/2024

Australian Indices		Source: DataGene 05 Dec 2023	
BPI/REL %	185/66	Survival	99
ASI	40	Daughter Fertility	121
HWI	351	Calving Ease	101
Milk	-739	Overall Type	85
Fat kg	0	Protein kg	-3

Daughter of 113086 GAUNTLET

113086 MAIRE IG GAUNTLET-ET

$192/99% gBW REL

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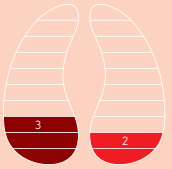


Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGMAIRGAUNT
Breed	F16
Pedigree	IGNITION x SPICY

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			28839 Daughters
Milk Volume (litres)	1354	Fertility %	-7.4
Fat kg	28	Body Condition Score	0.23
Fat %	4.1	Functional Survival	-2.3
Protein kg	45	Calving Difficulty (cow)	2.4
Protein %	3.7	Calving Difficulty (heifer)	4.1
SCC	0.07	Gestation Length (days)	0.1
Liveweight	84	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.65	
Shed Temperament	0.65	
Milking Speed	0.52	
Overall Opinion	0.80	
Conformation (1278 daughters TOP tested)		
Stature	0.79	
Capacity	0.99	
Rump Angle	-0.34	
Rump Width	0.51	
Legs	0.09	
Udder Support	0.75	
Front Udder	0.98	
Rear Udder	0.49	
Front Teat Placement	0.58	
Rear Teat Placement	0.57	
Teat Length	-0.47	
Udder Overall	0.91	
Dairy Conformation	0.93	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

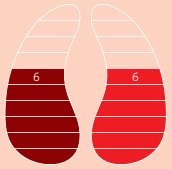
BPI/REL %	197/86	Survival	103
ASI	128	Daughter Fertility	106
HWI	199	Calving Ease	97
Milk	395	Overall Type	98
Fat kg	7	Protein kg	22

Paternal Grand Dam of 119008 CHOICE

119008 POTO GR CHOICE S1F

$279/89% gBW REL

HoofPrint®



Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGCHOICE
Breed	F15J1
Pedigree	REGIMENT x HAMMER

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			110 Daughters
Milk Volume (litres)	473	Fertility %	6.2
Fat kg	28	Body Condition Score	0.18
Fat %	4.9	Functional Survival	2.7
Protein kg	22	Calving Difficulty (cow)	0.1
Protein %	3.9	Calving Difficulty (heifer)	2.2
SCC	-0.24	Gestation Length (days)	-2.8
Liveweight	39	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.07	
Shed Temperament	0.05	
Milking Speed	0.31	
Overall Opinion	0.25	
Conformation (103 daughters TOP tested)		
Stature	0.73	
Capacity	0.11	
Rump Angle	-0.15	
Rump Width	0.46	
Legs	-0.13	
Udder Support	0.32	
Front Udder	0.28	
Rear Udder	0.02	
Front Teat Placement	0.22	
Rear Teat Placement	0.11	
Teat Length	-0.02	
Udder Overall	0.30	
Dairy Conformation	0.22	

19/01/2024

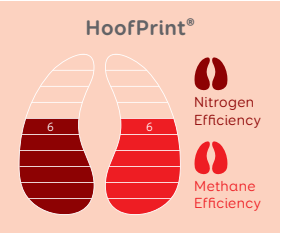
Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	162/65	Survival	98
ASI	83	Daughter Fertility	115
HWI	243	Calving Ease	102
Milk	-552	Overall Type	82
Fat kg	11	Protein kg	2

113120 BOTHWELL WT MAXIMA S2F

$318/99% gBW REL



Breeding Details

NASIS	NZGBOMAXIMA
Breed	F15J1
Pedigree	TOMMO x ECLIPSE

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			21092 Daughters
Milk Volume (litres)	591	Fertility %	2.1
Fat kg	35	Body Condition Score	0.03
Fat %	4.9	Functional Survival	3.8
Protein kg	26	Calving Difficulty (cow)	0.8
Protein %	3.8	Calving Difficulty (heifer)	2.1
SCC	-0.15	Gestation Length (days)	-1.6
Liveweight	19	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.42	
Shed Temperament	0.43	
Milking Speed	0.08	
Overall Opinion	0.47	
Conformation (416 daughters TOP tested)		
Stature	0.03	
Capacity	0.23	
Rump Angle	-0.06	
Rump Width	0.40	
Legs	-0.05	
Udder Support	0.85	
Front Udder	0.77	
Rear Udder	0.40	
Front Teat Placement	0.61	
Rear Teat Placement	0.89	
Teat Length	-0.22	
Udder Overall	0.85	
Dairy Conformation	0.32	

19/01/2024

Australian Indices

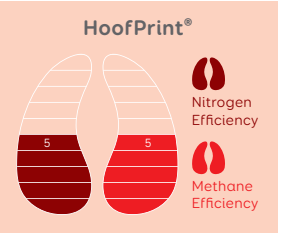
Source: DataGene 05 Dec 2023

BPI/REL %	247/85	Survival	103
ASI	155	Daughter Fertility	110
HWI	285	Calving Ease	102
Milk	-658	Overall Type	90
Fat kg	26	Protein kg	7

Daughter of 116078 ALAMO

116078 MEANDER SB ALAMO S2F

$268/98% gBW REL



Breeding Details

NASIS	NZGMEALAMO
Breed	F15J1
Pedigree	BEAMER x DAUNTLESS

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			2847 Daughters
Milk Volume (litres)	843	Fertility %	3.5
Fat kg	27	Body Condition Score	0.24
Fat %	4.5	Functional Survival	2.5
Protein kg	41	Calving Difficulty (cow)	1.3
Protein %	4.0	Calving Difficulty (heifer)	2.9
SCC	0.24	Gestation Length (days)	-0.1
Liveweight	75	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.25	
Shed Temperament	0.24	
Milking Speed	0.43	
Overall Opinion	0.38	
Conformation (136 daughters TOP tested)		
Stature	1.19	
Capacity	0.81	
Rump Angle	0.33	
Rump Width	0.86	
Legs	0.09	
Udder Support	0.20	
Front Udder	0.22	
Rear Udder	-0.17	
Front Teat Placement	0.16	
Rear Teat Placement	0.16	
Teat Length	-0.16	
Udder Overall	0.13	
Dairy Conformation	0.91	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	215/70	Survival	99
ASI	175	Daughter Fertility	112
HWI	232	Calving Ease	102
Milk	-307	Overall Type	89
Fat kg	10	Protein kg	19

113117 GREENWELL SH BOMBER S1F

$245/99% gBW REL

NASIS	NZGGREENBOMB
Breed	F16
Pedigree	HAMMER x MINT-EDITION

NZ Breeding Values — 5107 Daughters

Milk Volume (litres)	499	Fertility %	4.4
Fat kg/%	17/4.6	Functional Survival	3.7
Protein kg/%	26/3.9	Calving Difficulty (cow)	1.4
SCC	-0.25	Gestation Length (days)	0.4
Liveweight	25	Beta-Casein	A1/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	0.16				
Conformation (124 daughters TOP tested)					
Udder Overall	0.89				
Dairy Conformation	0.12				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	198/71	ASI	101

116019 WERDERS DE OVERTIME S1F

Daughter of 116019 OVERTIME

$343/99% gBW REL

NASIS	NZGOVERTIME
Breed	F16
Pedigree	EMPIRE x ILLUSTRIOUS

NZ Breeding Values — 21410 Daughters

Milk Volume (litres)	266	Fertility %	-2.4
Fat kg/%	41/5.3	Functional Survival	2.4
Protein kg/%	29/4.2	Calving Difficulty (cow)	1.3
SCC	0.74	Gestation Length (days)	-7.8
Liveweight	0	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	0.35				
Conformation (226 daughters TOP tested)					
Udder Overall	0.51				
Dairy Conformation	0.16				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	195/67	ASI	222

118068 BAGWORTH GI ORIGINAL S3F

Half Sister of 118068 ORIGINAL

$317/98% gBW REL

NASIS	NZGORIGINAL
Breed	F16
Pedigree	INCA x MINT-EDITION

NZ Breeding Values — 4603 Daughters

Milk Volume (litres)	549	Fertility %	4.9
Fat kg/%	44/5.1	Functional Survival	3.1
Protein kg/%	34/4.1	Calving Difficulty (cow)	2.2
SCC	0.17	Gestation Length (days)	-3.7
Liveweight	88	Beta-Casein	A1/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	0.26				
Conformation (89 daughters TOP tested)					
Udder Overall	0.28				
Dairy Conformation	0.36				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	237/69	ASI	161

120063 MATTAJUDE VR BRUTE-ET S1F

$327/85% gBW REL

NASIS	NZGBRUTE
Breed	F16
Pedigree	REMEDY x FREEDOM

NZ Breeding Values — 81 Daughters

Milk Volume (litres)	874	Fertility %	-3.9
Fat kg/%	43/4.8	Functional Survival	3.1
Protein kg/%	42/4.0	Calving Difficulty (cow)	1.2
SCC	0.19	Gestation Length (days)	-4.6
Liveweight	76	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

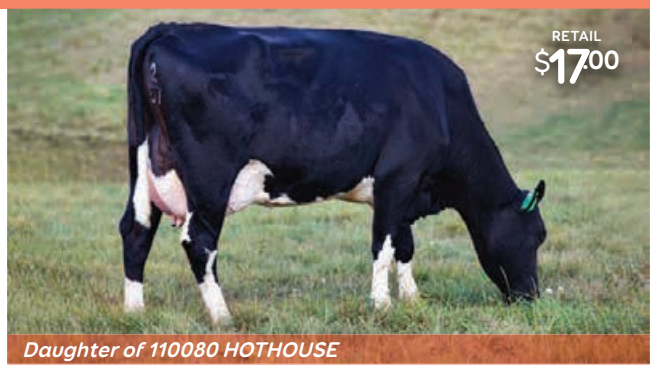
Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	0.35				
Conformation (73 daughters TOP tested)					
Udder Overall	0.56				
Dairy Conformation	0.44				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	217/64	ASI	232

19/01/2024

110080 MOURNE GROVE HOTHOUSE S2F



Daughter of 110080 HOTHOUSE

$277/99% gBW REL

NASIS	NZGHOTHOUSE
Breed	F16
Pedigree	ROCKSOLID x LEOPARD

NZ Breeding Values — 65109 Daughters

Milk Volume (litres)	**1069**	Fertility %	**3.4**
Fat kg/%	**23/4.2**	Functional Survival	**4.5**
Protein kg/%	**40/3.8**	Calving Difficulty (cow)	**0.3**
SCC	**0.03**	Gestation Length (days)	**-4.4**
Liveweight	**51**	Beta-Casein	**A2/A2**

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	**0.41**				
Conformation (1151 daughters TOP tested)					
Udder Overall	**0.77**				
Dairy Conformation	**-0.01**				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	**203/88**	ASI	**128**

114041 MITCHELLS KE HUSTLER S2F

Daughter of 114041 HUSTLER

$270/99% gBW REL

NASIS	NZGHUSTLER
Breed	F15J1
Pedigree	EARNIE x MONARCH

NZ Breeding Values — 8176 Daughters

Milk Volume (litres)	**634**	Fertility %	**2.8**
Fat kg/%	**30/4.7**	Functional Survival	**3.3**
Protein kg/%	**30/3.9**	Calving Difficulty (cow)	**-0.2**
SCC	**0.26**	Gestation Length (days)	**-2.8**
Liveweight	**45**	Beta-Casein	**A2/A2**

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	**0.52**				
Conformation (177 daughters TOP tested)					
Udder Overall	**0.23**				
Dairy Conformation	**0.27**				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	**141/78**	ASI	**102**

116060 ON-DER-REY MA APPROVE S2F

Daughter of 116060 APPROVE

$242/96% gBW REL

NASIS	NZGREAPPROVE
Breed	F15J1
Pedigree	APOLLO x OVATION

NZ Breeding Values — 622 Daughters

Milk Volume (litres)	**905**	Fertility %	**-1.2**
Fat kg/%	**13/4.2**	Functional Survival	**2.2**
Protein kg/%	**38/3.9**	Calving Difficulty (cow)	**0.8**
SCC	**-0.02**	Gestation Length (days)	**2.3**
Liveweight	**25**	Beta-Casein	**A2/A2**

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	**0.31**				
Conformation (86 daughters TOP tested)					
Udder Overall	**0.29**				
Dairy Conformation	**0.59**				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	**187/66**	ASI	**148**

120010 COSTERS P POLLJUMP-PP S2F

Maternal Grand Sire of 120010 POLLJUMP

$218/64% gBW REL

NASIS	NZGPOLLJUMP
Breed	F16
Pedigree	POLLICY x POLARISE

NZ Breeding Values — 9 Daughters

Milk Volume (litres)	**334**	Fertility %	**5.3**
Fat kg/%	**24/4.9**	Functional Survival	**4.3**
Protein kg/%	**18/3.9**	Calving Difficulty (cow)	**-0.6**
SCC	**-0.19**	Gestation Length (days)	**1.5**
Liveweight	**58**	Beta-Casein	**A1/A1**

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	**0.63**				
Conformation (8 daughters TOP tested)					
Udder Overall	**0.28**				
Dairy Conformation	**0.21**				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	**135/51**	ASI	**74**

All Bulls

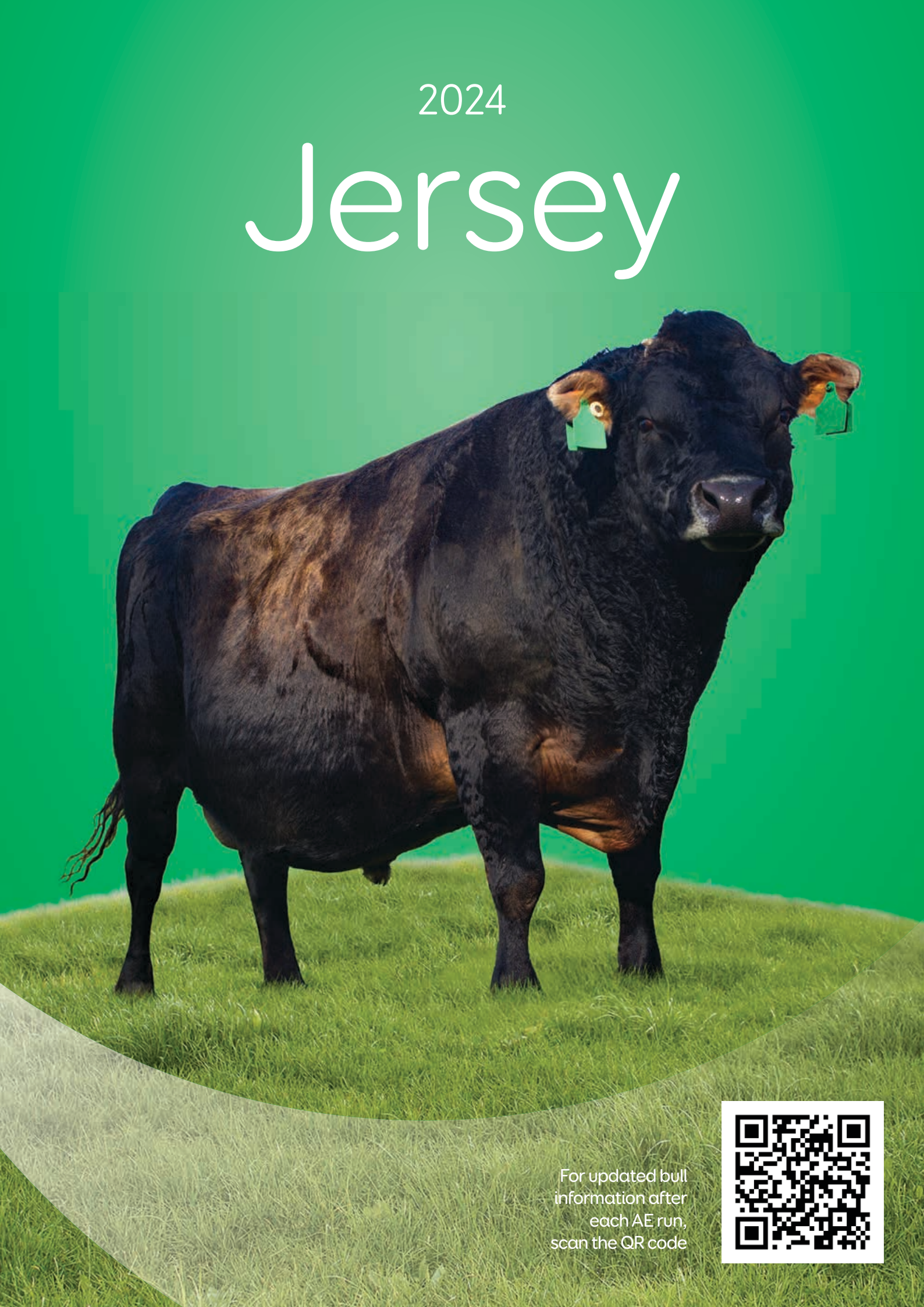
Page Number	NZ AB Code	Bull Name	Price Retail	Beta Casein	gBW/Rel %	Milk Volume (litres)	Fat kg	Protein kg	SCC	Fertility %	Functional Survival	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length (days)	Liveweight	Overall Opinion	Stature	Capacity	Udder Overall	Dairy Conformation	VMSI
Holstein Friesian																					
	123058	WITTENHAM JACKPOT **AEGON**-ETS2F	$27	A1/A2	558 / 44	680	64	37	-0.39	8.1	6.7	3.7	0.7	0.3	55	0.47	0.46	0.59	0.58	0.54	1570
19	120073	MEANDER TS **ALLOY**-ET S1F *	$25	A1/A2	536 / 90	704	76	42	-0.23	2.9	3.0	1.8	-0.2	-7.8	78	0.47	0.54	-0.13	0.20	-0.12	1578
	122058	TELESIS FLEX **THEODORE** S1F	$27	A2/A2	524 / 53	885	63	38	0.06	9.5	2.9	1.6	-0.6	-8.0	53	0.33	0.38	0.47	0.36	0.55	1541
	122013	DICKSONS AR **MONOPOLL**-ET-P S2F	$27	A2/A2	513 / 56	466	47	37	0.18	7.3	3.6	1.7	-0.3	-5.1	1	0.49	0.38	0.25	0.70	0.37	1548
	123005	PAYNES MJ **PROTECTIVE**-ET S2F	$27	A2/A2	505 / 45	1473	53	53	-0.15	6.9	4.2	4.9	0.8	-5.1	45	0.46	0.35	0.31	0.48	0.32	1544
	123087	BUSYBROOK S **SMOKIN GUN**-ET S1F	$27	A2/A2	500 / 48	550	55	42	-0.37	4.5	3.6	3.0	1.6	-4.8	49	0.18	0.82	-0.03	0.83	0.28	1595
17	120003	SCOTTS BV **DARIUS**-ET	$25	A1/A2	496 / 86	1160	73	49	-0.21	1.6	2.6	2.8	-0.8	-3.7	104	0.79	1.16	0.70	0.42	0.78	1573
	122056	MAH FINN **SAGE**-ET S1F	$27	A2/A2	491 / 54	265	61	31	0.07	3.1	2.2	6.0	-0.2	-5.4	30	0.55	0.29	0.22	0.51	0.39	1531
	123066	MEANDER BROKER **ALLEGRO**-ET S1F	$27	A2/A2	491 / 45	599	52	40	-0.20	3.9	2.5	2.7	1.0	-3.7	28	0.36	0.70	0.22	1.10	0.39	1436
23	120070	MEANDER TD **AERO**-ET S1F *	$25	A2/A2	437 / 86	738	50	41	-0.09	3.7	5.5	3.5	1.2	-4.9	56	0.48	0.63	0.12	0.58	0.22	1507
20	119034	TAFTS RHD **OFFICER**-ET S2F *	$25	A2/A2	428 / 97	1522	54	60	0.15	2.0	3.1	0.3	1.7	-3.7	126	0.55	1.28	0.68	1.03	0.81	1523
16	119002	BELLAMYS DM **GALANT**-ET S1F *	$25	A2/A2	421 / 98	110	48	28	-0.27	5.4	2.6	5.1	0.1	-2.2	54	0.27	0.75	0.75	0.33	0.78	1454
21	120065	CAVALIER SS **RIVAL**-ET S2F	$25	A2/A2	411 / 85	1080	38	44	-0.44	4.6	5.3	1.6	0.9	-6.5	40	0.73	0.37	0.38	0.75	0.21	1490
24	121011	LOMBARDI **MAVERICK** S3F	$23	A1/A2	403 / 55	872	36	40	-0.22	8.8	3.4	-2.7	0.8	-8.6	63	0.57	0.88	0.22	1.04	0.43	1469
18	119014	BUELIN BM **EQUATOR** S2F *	$21	A1/A2	392 / 98	888	61	30	0.03	4.3	4.0	2.1	0.9	-7.9	55	0.65	0.68	0.38	0.25	0.44	1444
17	117068	MEANDER SB **ARROW**-ET S2F	$21	A1/A2	379 / 99	350	41	31	0.47	3.2	3.4	1.1	-0.2	-7.0	31	0.61	0.44	0.32	0.78	0.49	1438
18	117044	TELESIS GI **ESQUIRE** S2F *	$21	A2/A2	361 / 98	832	26	36	0.04	8.0	3.8	2.1	0.1	-3.3	22	0.35	0.07	0.40	0.47	0.33	1370
22	118061	HALLVILLE AS **COLA** S2F *	$21	A2/A2	350 / 89	887	24	38	0.10	8.0	3.4	-2.7	0.0	-7.2	36	0.04	0.30	0.15	0.77	0.24	1377
29	116019	WERDERS DE **OVERTIME** S1F	$17	A2/A2	343 / 99	266	41	29	0.74	-2.4	2.4	8.2	1.3	-7.8	0	0.35	-0.23	0.10	0.51	0.16	1391
25	114007	BUSY BROOK WTP **VECTOR** S3F *	$19	A1/A1	327 / 99	971	40	39	-0.19	5.3	3.3	0.6	0.0	-2.2	114	0.66	0.81	0.95	0.54	0.93	1374
29	120063	MATTAJUDE VR **BRUTE**-ET S1F	$17	A2/A2	327 / 85	874	43	42	0.19	-3.9	3.1	3.1	1.2	-4.6	76	0.35	0.55	0.59	0.56	0.44	1409
22	119012	FANANA BM **EXCELLENT** S2F *	$21	A2/A2	319 / 90	447	36	19	-0.18	3.4	5.5	0.9	0.3	-4.0	24	0.39	0.38	0.38	1.28	0.35	1403
28	113120	BOTHWELL WT **MAXIMA** S2F	$17	A1/A2	318 / 99	591	35	26	-0.15	2.1	3.8	2.1	0.8	-1.6	19	0.47	0.03	0.23	0.85	0.32	1384
29	118068	BAGWORTH GI **ORIGINAL** S3F	$17	A1/A2	317 / 98	549	44	34	0.17	4.9	3.1	3.8	2.2	-3.7	88	0.26	1.27	0.15	0.28	0.36	1377
26	117090	TRONNOCO MH **SAMBA**-ET S3F	$19	A2/A2	300 / 97	1047	29	42	0.26	-0.1	2.4	5.7	1.3	-1.9	31	0.52	0.77	0.11	0.87	0.35	1368
25	117019	MCKENZIE GF **COMET** S3F	$19	A2/A2	299 / 89	1047	37	47	-0.23	-2.6	-0.5	3.3	0.5	-4.7	94	0.66	0.93	1.12	0.74	1.31	1392
27	119008	POTO GR **CHOICE** S1F	$19	A2/A2	279 / 89	473	28	22	-0.24	6.2	2.7	2.2	0.1	-2.8	39	0.25	0.73	0.11	0.30	0.22	1299
30	110080	MOURNE GROVE **HOTHOUSE** S2F	$17	A2/A2	277 / 99	1069	23	40	0.03	3.4	4.5	0.6	0.3	-4.4	51	0.41	0.70	-0.19	0.77	-0.01	1330
30	114041	MITCHELLS KE **HUSTLER** S2F	$17	A2/A2	270 / 99	634	30	30	0.26	2.8	3.3	2.0	-0.2	-2.8	45	0.52	0.54	0.26	0.23	0.27	1299
28	116078	MEANDER SB **ALAMO** S2F	$17	A1/A2	268 / 98	843	27	41	0.24	3.5	2.5	2.9	1.3	-0.1	75	0.38	1.19	0.81	0.13	0.91	1318
29	113117	GREENWELL SH **BOMBER** S1F	$17	A1/A2	245 / 99	499	17	26	-0.25	4.4	3.7	1.8	1.4	0.4	25	0.16	0.39	0.07	0.89	0.12	1326
30	116060	ON-DER-REY MA **APPROVE** S2F	$17	A2/A2	242 / 96	905	13	38	-0.02	-1.2	2.2	-0.5	0.8	2.3	25	0.31	0.38	0.58	0.29	0.59	1262
30	120010	COSTERS P **POLLJUMP**-PP S2F	$17	A1/A1	218 / 64	334	24	18	-0.19	5.3	4.3	0.4	-0.6	1.5	58	0.63	0.34	0.28	0.28	0.21	1227
26	118034	PAYNES TT **PASTIME**-ET S2F	$19	A1/A2	206 / 91	521	16	20	0.13	5.7	2.7	3.9	1.3	-5.9	21	0.23	0.03	-0.07	0.72	-0.01	1241
27	113086	MAIRE IG **GAUNTLET**-ET	$19	A2/A2	192 / 99	1354	28	45	0.07	-7.4	-2.3	4.1	2.4	0.1	84	0.80	0.79	0.99	0.91	0.93	1310
Holstein Friesian also available																					
	117015	DICKSONS GF **GO-GETTER**-ET	$15	A2/A2	410 / 90	1309	62	56	-0.10	-6.1	2.4	4.2	3.8	2.2	104	0.41	0.92	1.38	0.53	1.28	1518
	115080	WESTEDGE VHR **SWEET AS** S2F	$15	A2/A2	403 / 99	759	53	39	0.17	1.0	2.3	1.9	1.0	-6.0	40	0.28	0.43	0.05	0.29	0.04	1472
	120015	ASHDALE GE **HIGHRISE** S2F	$19	A2/A2	395 / 86	977	63	40	-0.70	-5.3	1.5	5.3	0.9	-10.1	89	0.39	0.75	0.95	0.24	1.05	1451
	114023	ARKAN RAN **BANDITO** S3F	$15	A1/A2	297 / 99	471	26	29	-0.19	0.8	1.7	0.0	0.1	-3.4	37	0.38	0.44	0.61	0.39	0.46	1318
	115054	MEANDER SB **WINGMAN**-ET S3F	$15	A1/A2	290 / 98	581	32	26	-0.10	-1.4	2.7	2.7	1.7	-4.1	-2	0.19	0.46	-0.04	1.22	0.09	1396
	117088	SPRING RIVER OL **SCOUT** S2F	$15	A2/A2	280 / 98	1318	35	40	0.20	2.0	4.2	4.8	0.9	2.1	48	0.67	0.67	0.40	0.60	0.35	1371
	115084	GREENWELL SB **FORAY**-ET S3F	$15	A2/A2	276 / 98	1177	30	47	-0.18	-6.1	1.2	5.4	2.5	-0.9	40	0.21	0.60	0.99	1.17	1.12	1414
	114057	MAIRE FI **GOLDDIGGER**	$12	A1/A2	268 / 99	883	37	34	-0.19	-4.7	2.4	3.2	1.3	-4.5	71	0.73	0.80	0.84	0.84	0.82	1353
	112063	PADRUTTS GB **TOPNOTCH** S2F	$13	A1/A2	229 / 99	856	18	33	0.00	-0.3	2.7	0.6	-0.8	0.6	17	0.57	0.32	0.52	0.27	0.49	1252
	117035	BELLAMYS MH **GAMBIT**-ET S2F	$13	A2/A2	222 / 98	667	23	27	0.12	1.6	5.5	2.7	2.2	-4.1	70	0.63	0.55	0.16	0.44	0.13	1236
	111057	OAKLINE DI **LEGACY** S2F	$13	A1/A2	212 / 99	1263	14	39	0.03	2.5	2.5	0.0	-0.3	-1.1	58	0.23	0.62	0.51	0.29	0.40	1217
	113014	SPRING TRALEE **BOSS**-ET S3F	$13	A2/A2	192 / 99	689	7	28	-0.18	1.0	2.2	0.5	0.8	-0.5	4	0.14	0.19	0.42	1.28	0.51	1287
	113053	MITCHELLS WT **TYPHOON** S2F	$12	A1/A2	192 / 99	371	23	21	-0.38	-0.6	2.4	3.4	0.4	-2.6	51	0.39	0.88	0.48	0.49	0.51	1254
	112049	KAIMORE HERO **EARNIE** S2F	$12	A1/A2	121 / 98	540	6	20	0.02	0.4	2.2	1.4	1.5	-1.3	43	0.33	0.25	0.48	0.75	0.44	1159

* Sexed semen is offered for Single AI use only. See page 9 for more information.

19/01/2024

2024

Jersey



For updated bull information after each AE run, scan the QR code

Top 5 Performers

Breeding Worth

NZ Herd Average
NZ$255

NZ AB Code	Name	gBW/Rel%	Page
323014	GLANTON BERKLY **PARKES**	538 / 54	35
320029	ROCKLAND LQ **BERKLY**	534 / 89	34
318001	OKURA PEPPER **LUCCA**	505 / 90	37
319030	GRANTZ BC **HENDRIX** ET S3J *	470 / 90	38
318015	GLENUI SUPER **LAMAR** *	444 / 98	40

BPI

NZ AB Code	Name	BPI/Rel%	Page
320029	ROCKLAND LQ **BERKLY**	309 / 67	34
315045	GLENUI DEGREE **HOSS** ET *	273 / 70	39
320020	THORNWOOD BANFF **TITUS**	273 / 61	35
318001	OKURA PEPPER **LUCCA**	272 / 67	37
318015	GLENUI SUPER **LAMAR** *	243 / 71	40

Protein

NZ Herd Average
4kg/4.14%

NZ AB Code	Name	Protein (kg/%)	Page
320029	ROCKLAND LQ **BERKLY**	24 / 4.4	34
319030	GRANTZ BC **HENDRIX** ET S3J *	24 / 4.2	38
318035	SHELBY BC **LOTTO** ET S3J *	21 / 4.4	39
323014	OKURA PEPPER **LUCCA**	19 / 4.2	37
318001	GLANTON BERKLY **PARKES**	19 / 4.6	35

Fat

NZ Herd Average
16kg/5.44%

NZ AB Code	Name	Fat (kg/%)	Page
320029	ROCKLAND LQ **BERKLY**	61 / 6.3	34
318001	OKURA PEPPER **LUCCA**	57 / 6.0	37
323014	GLANTON BERKLY **PARKES**	51 / 6.3	35
318015	GLENUI SUPER **LAMAR** *	47 / 5.9	40
319030	GRANTZ BC **HENDRIX** ET S3J *	44 / 5.6	38

Fertility

NZ Herd Average
3.4%

NZ AB Code	Name	Fertility (%)	Page
312057	BELLS CM **CONRAD** S2J *	12.4	40
323014	GLANTON BERKLY **PARKES**	11.2	35
319030	GRANTZ BC **HENDRIX** ET S3J *	10.4	38
320020	THORNWOOD BANFF **TITUS**	8.0	35
322034	SCOTTSDALE KP **CALVARY**-ET *	7.7	36

Milk Volume

NZ Herd Average
-294 litres

NZ AB Code	Name	Volume (l)	Page
319030	GRANTZ BC **HENDRIX** ET S3J *	122	38
312057	BELLS CM **CONRAD** S2J *	-10	40
318029	GLENUI BC **LAREDO** ET S3J *	-21	36
318001	OKURA PEPPER **LUCCA**	-31	37
318015	GLENUI SUPER **LAMAR** *	-129	40

SCC

NZ Herd Average
-0.09

NZ AB Code	Name	SCC	Page
318015	GLENUI SUPER **LAMAR** *	-0.50	40
315045	GLENUI DEGREE **HOSS** ET *	-0.48	39
323014	GLANTON BERKLY **PARKES**	-0.24	35
320020	THORNWOOD BANFF **TITUS**	-0.22	35
318001	OKURA PEPPER **LUCCA**	-0.20	37

Capacity

NZ Herd Average
0.25

NZ AB Code	Name	Capacity	Page
322034	SCOTTSDALE KP **CALVARY**-ET *	1.05	36
320020	THORNWOOD BANFF **TITUS**	0.77	35
316039	ULMARRA TT **GALLIVANT** S2J *	0.68	38
318001	OKURA PEPPER **LUCCA**	0.67	37
318015	GLENUI SUPER **LAMAR** *	0.46	40

Udder Overall

NZ Herd Average
0.29

NZ AB Code	Name	Udder Overall	Page
323014	GLANTON BERKLY **PARKES**	1.10	35
320020	THORNWOOD BANFF **TITUS**	0.89	35
320029	ROCKLAND LQ **BERKLY**	0.86	34
318015	GLENUI SUPER **LAMAR** *	0.78	40
322034	SCOTTSDALE KP **CALVARY**-ET *	0.70	36

Liveweight

NZ Herd Average
-42 kg

NZ AB Code	Name	Liveweight	Page
322034	SCOTTSDALE KP **CALVARY**-ET *	10.0	36
323014	GLANTON BERKLY **PARKES**	7.5	35
319030	GRANTZ BC **HENDRIX** ET S3J *	4.0	38
320020	THORNWOOD BANFF **TITUS**	-4.0	35
316039	ULMARRA TT **GALLIVANT** S2J *	-4.0	38

* Sexed semen is offered for Single AI use only. See page 9 for more information.

Source: DataGene 05/12/2023 19/01/2024

RETAIL
$25.00

320029 ROCKLAND LQ BERKLY

$534/89%
gBW REL

Breeding Details

NASIS	NZGBERKLEY
Breed	J16
Pedigree	QUADRANT x LARSON

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Nitrogen Efficiency

Methane Efficiency

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			162 Daughters
Milk Volume (litres)	-145	Fertility %	1.6
Fat kg	61	Body Condition Score	-0.06
Fat %	6.3	Functional Survival	3.0
Protein kg	24	Calving Difficulty (cow)	-0.6
Protein %	4.4	Calving Difficulty (heifer)	-2.4
SCC	0.01	Gestation Length (days)	0.3
Liveweight	-16	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.55				
Shed Temperament	0.55				
Milking Speed	0.37				
Overall Opinion	0.71				
Conformation (128 daughters TOP tested)					
Stature	-0.14				
Capacity	0.28				
Rump Angle	-0.27				
Rump Width	-0.25				
Legs	-0.05				
Udder Support	0.63				
Front Udder	0.63				
Rear Udder	1.13				
Front Teat Placement	0.08				
Rear Teat Placement	-0.02				
Teat Length	0.50				
Udder Overall	0.86				
Dairy Conformation	0.34				

19/01/2024

Daughter of 320029 BERKLY

Daughter of 320029 BERKLY

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	309/47	Survival	99
ASI	326	Daughter Fertility	101
HWI	181	Liveweight	104
Milk	195	Overall Type	95
Fat kg	60	Protein kg	32

323014 GLANTON BERKLY **PARKES**

$538/54% gBW REL

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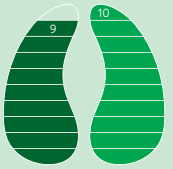

Breeding Details

NASIS	NZGPARKES
Breed	J16
Pedigree	BERKLY x CONRAD

NEW ZEALAND DETAILS — Genomically Selected

NZ Breeding Values — 0 Daughters

Milk Volume (litres)	-360	Fertility %	11.2
Fat kg	51	Body Condition Score	0.13
Fat %	6.3	Functional Survival	5.0
Protein kg	19	Calving Difficulty (cow)	-0.8
Protein %	4.6	Calving Difficulty (heifer)	-2.1
SCC	-0.24	Gestation Length (days)	-0.5
Liveweight	7.5	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.44				
Shed Temperament	0.45				
Milking Speed	0.25				
Overall Opinion	0.52				
Conformation (0 daughters TOP tested)					
Stature	-0.02				
Capacity	0.41				
Rump Angle	-0.28				
Rump Width	-0.17				
Legs	-0.10				
Udder Support	0.88				
Front Udder	0.95				
Rear Udder	1.25				
Front Teat Placement	0.16				
Rear Teat Placement	0.10				
Teat Length	0.16				
Udder Overall	1.10				
Dairy Conformation	0.58				

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

Data not yet available

BPI/REL %	-	Survival	-
ASI	-	Daughter Fertility	-
HWI	-	Liveweight	-
Milk	-	Overall Type	-
Fat kg	-	Protein kg	-

Dam of 320020 TITUS

320020 THORNWOOD BANFF **TITUS**

$403/91% gBW REL

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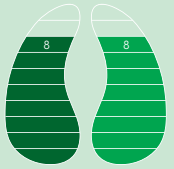

Breeding Details

NASIS	NZGTITUS
Breed	J16
Pedigree	BANFF x GOLDIE

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values — 223 Daughters

Milk Volume (litres)	-742	Fertility %	8.0
Fat kg	27	Body Condition Score	0.32
Fat %	6.3	Functional Survival	5.1
Protein kg	5	Calving Difficulty (cow)	-1.3
Protein %	4.7	Calving Difficulty (heifer)	-2.4
SCC	-0.22	Gestation Length (days)	-4.2
Liveweight	-4	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.24				
Shed Temperament	0.24				
Milking Speed	0.28				
Overall Opinion	0.30				
Conformation (140 daughters TOP tested)					
Stature	-0.61				
Capacity	0.77				
Rump Angle	-0.19				
Rump Width	0.36				
Legs	0.02				
Udder Support	0.73				
Front Udder	0.78				
Rear Udder	1.17				
Front Teat Placement	-0.15				
Rear Teat Placement	-0.30				
Teat Length	0.16				
Udder Overall	0.89				
Dairy Conformation	0.80				

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	273/61	Survival	101
ASI	207	Daughter Fertility	102
HWI	180	Liveweight	106
Milk	-697	Overall Type	100
Fat kg	33	Protein kg	12

322034 SCOTTSDALE KP CALVARY-ET

$415/54% gBW REL

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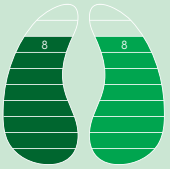

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGCALVARY
Breed	J16
Pedigree	POPEYE x FLOYD

NEW ZEALAND DETAILS

Genomically Selected

NZ Breeding Values — 0 Daughters

Milk Volume (litres)	-314	Fertility %	7.7
Fat kg	37	Body Condition Score	0.32
Fat %	6.0	Functional Survival	3.8
Protein kg	13	Calving Difficulty (cow)	-1.4
Protein %	4.4	Calving Difficulty (heifer)	-2.3
SCC	0.09	Gestation Length (days)	-3.1
Liveweight	10	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.58				
Shed Temperament	0.59				
Milking Speed	0.23				
Overall Opinion	0.63				
Conformation (0 daughters TOP tested)					
Stature	-0.24				
Capacity	1.05				
Rump Angle	0.08				
Rump Width	0.41				
Legs	0.11				
Udder Support	0.62				
Front Udder	0.45				
Rear Udder	0.82				
Front Teat Placement	0.22				
Rear Teat Placement	0.56				
Teat Length	0.11				
Udder Overall	0.70				
Dairy Conformation	0.97				

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	119/49	Survival	101
ASI	129	Daughter Fertility	103
HWI	79	Liveweight	102
Milk	-243	Overall Type	90
Fat kg	26	Protein kg	8

Daughter of 318029 LAREDO

318029 GLENUI BC LAREDO ET S3J

$370/98% gBW REL

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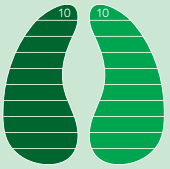


Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGLAREDO
Breed	J16
Pedigree	CONRAD x INTEGRITY

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values — 1326 Daughters

Milk Volume (litres)	-21	Fertility %	7.7
Fat kg	17	Body Condition Score	0.14
Fat %	5.1	Functional Survival	6.4
Protein kg	16	Calving Difficulty (cow)	-0.9
Protein %	4.1	Calving Difficulty (heifer)	-2.1
SCC	0.33	Gestation Length (days)	-2.8
Liveweight	-53	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.37				
Shed Temperament	0.38				
Milking Speed	0.19				
Overall Opinion	0.51				
Conformation (126 daughters TOP tested)					
Stature	-1.05				
Capacity	0.30				
Rump Angle	-0.15				
Rump Width	0.00				
Legs	0.08				
Udder Support	0.47				
Front Udder	0.27				
Rear Udder	0.76				
Front Teat Placement	0.25				
Rear Teat Placement	0.11				
Teat Length	0.11				
Udder Overall	0.64				
Dairy Conformation	0.36				

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

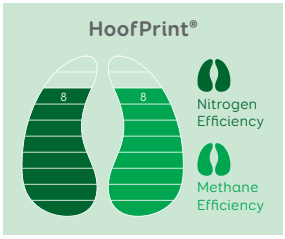
BPI/REL %	158/66	Survival	101
ASI	171	Daughter Fertility	102
HWI	124	Liveweight	98
Milk	88	Overall Type	93
Fat kg	20	Protein kg	20

318001 OKURA PEPPER LUCCA

Dam of 318001 LUCCA

Daughter of 318001 LUCCA

$505/90%
gBW REL



Breeding Details

NASIS	NZGLUCCA
Breed	J16
Pedigree	PEPPER x INTEGRITY

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			90 Daughters
Milk Volume (litres)	-31	Fertility %	1.8
Fat kg	57	Body Condition Score	0.05
Fat %	6.0	Functional Survival	2.8
Protein kg	19	Calving Difficulty (cow)	-1.0
Protein %	4.2	Calving Difficulty (heifer)	-1.6
SCC	-0.20	Gestation Length (days)	4.4
Liveweight	-33	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.75				
Shed Temperament	0.77				
Milking Speed	0.26				
Overall Opinion	0.67				
Conformation (83 daughters TOP tested)					
Stature	-0.58				
Capacity	0.67				
Rump Angle	-0.16				
Rump Width	0.27				
Legs	0.18				
Udder Support	0.25				
Front Udder	0.40				
Rear Udder	0.57				
Front Teat Placement	0.07				
Rear Teat Placement	-0.25				
Teat Length	0.00				
Udder Overall	0.46				
Dairy Conformation	0.62				

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	272/67	Survival	100
ASI	261	Daughter Fertility	99
HWI	141	Liveweight	106
Milk	-27	Overall Type	94
Fat kg	51	Protein kg	23

19/01/2024

Daughter of 316039 GALLIVANT

316039 ULMARRA TT GALLIVANT S2J

$398/98% gBW REL

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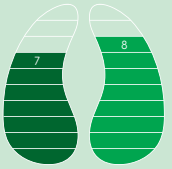

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGGALLIVANT
Breed	J16
Pedigree	THOR x EXCELL

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values			3072 Daughters
Milk Volume (litres)	-262	Fertility %	4.8
Fat kg	41	Body Condition Score	0.08
Fat %	6.0	Functional Survival	3.0
Protein kg	13	Calving Difficulty (cow)	-0.7
Protein %	4.3	Calving Difficulty (heifer)	-2.2
SCC	-0.10	Gestation Length (days)	-0.5
Liveweight	-4	Beta-Casein	A1/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.50	
Shed Temperament	0.52	
Milking Speed	0.03	
Overall Opinion	0.54	
Conformation (244 daughters TOP tested)		
Stature	-0.36	
Capacity	0.68	
Rump Angle	-0.14	
Rump Width	-0.04	
Legs	0.06	
Udder Support	0.38	
Front Udder	0.70	
Rear Udder	0.85	
Front Teat Placement	0.06	
Rear Teat Placement	-0.06	
Teat Length	0.33	
Udder Overall	0.65	
Dairy Conformation	0.73	

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	224/66	Survival	100
ASI	229	Daughter Fertility	102
HWI	125	Liveweight	106
Milk	-305	Overall Type	95
Fat kg	44	Protein kg	17

319030 GRANTZ BC HENDRIX ET S3J

$470/90% gBW REL

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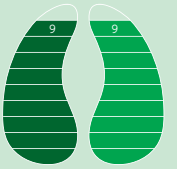

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGHENDRIX
Breed	J16
Pedigree	CONRAD x DEGREE

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values			108 Daughters
Milk Volume (litres)	122	Fertility %	10.4
Fat kg	44	Body Condition Score	0.15
Fat %	5.6	Functional Survival	1.6
Protein kg	24	Calving Difficulty (cow)	-0.6
Protein %	4.2	Calving Difficulty (heifer)	-2.7
SCC	0.18	Gestation Length (days)	-3.3
Liveweight	4	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.19	
Shed Temperament	0.20	
Milking Speed	0.09	
Overall Opinion	0.19	
Conformation (98 daughters TOP tested)		
Stature	-0.21	
Capacity	0.08	
Rump Angle	0.21	
Rump Width	-0.24	
Legs	0.10	
Udder Support	0.28	
Front Udder	0.41	
Rear Udder	0.52	
Front Teat Placement	0.08	
Rear Teat Placement	-0.29	
Teat Length	0.28	
Udder Overall	0.47	
Dairy Conformation	0.13	

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	213/62	Survival	101
ASI	207	Daughter Fertility	104
HWI	137	Liveweight	104
Milk	-38	Overall Type	89
Fat kg	33	Protein kg	20

Dam of 315045 HOSS

315045 GLENUI DEGREE HOSS ET

$437/99% gBW REL

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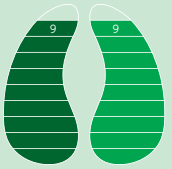

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGGLENHOSS
Breed	J16
Pedigree	DEGREE x BOWIE

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values — 15910 Daughters

Milk Volume (litres)	-385	Fertility %	6.9
Fat kg	31	Body Condition Score	0.16
Fat %	5.9	Functional Survival	3.3
Protein kg	11	Calving Difficulty (cow)	-0.9
Protein %	4.4	Calving Difficulty (heifer)	-1.6
SCC	-0.48	Gestation Length (days)	1.9
Liveweight	-37	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	-0.18	
Shed Temperament	-0.21	
Milking Speed	0.23	
Overall Opinion	0.09	
Conformation (927 daughters TOP tested)		
Stature	-0.59	
Capacity	0.38	
Rump Angle	0.08	
Rump Width	-0.19	
Legs	0.04	
Udder Support	0.27	
Front Udder	0.36	
Rear Udder	0.60	
Front Teat Placement	0.09	
Rear Teat Placement	-0.28	
Teat Length	-0.16	
Udder Overall	0.49	
Dairy Conformation	0.38	

Registrable 19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	273/70	Survival	100
ASI	202	Daughter Fertility	104
HWI	211	Liveweight	101
Milk	-437	Overall Type	95
Fat kg	34	Protein kg	14

Dam of 318035 LOTTO

318035 SHELBY BC LOTTO ET S3J

$442/98% gBW REL

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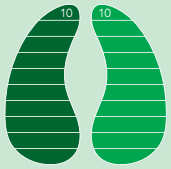

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGLOTTO
Breed	J16
Pedigree	CONRAD x DEGREE

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values — 3280 Daughters

Milk Volume (litres)	-186	Fertility %	6.6
Fat kg	35	Body Condition Score	-0.02
Fat %	5.7	Functional Survival	3.0
Protein kg	21	Calving Difficulty (cow)	-0.9
Protein %	4.4	Calving Difficulty (heifer)	-1.7
SCC	-0.07	Gestation Length (days)	-0.5
Liveweight	-32	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.07	
Shed Temperament	0.06	
Milking Speed	0.25	
Overall Opinion	0.13	
Conformation (143 daughters TOP tested)		
Stature	-0.59	
Capacity	0.09	
Rump Angle	-0.63	
Rump Width	0.24	
Legs	0.21	
Udder Support	0.11	
Front Udder	0.31	
Rear Udder	0.05	
Front Teat Placement	0.31	
Rear Teat Placement	-0.03	
Teat Length	0.35	
Udder Overall	0.27	
Dairy Conformation	0.20	

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	200/66	Survival	99
ASI	222	Daughter Fertility	102
HWI	126	Liveweight	101
Milk	-64	Overall Type	88
Fat kg	30	Protein kg	23

312057 BELLS CM CONRAD S2J

$349/99% gBW REL

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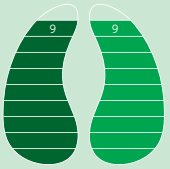

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGBELCONRAD
Breed	J15F1
Pedigree	MARVEL x MINSTREL

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			26259 Daughters
Milk Volume (litres)	-10	Fertility %	12.4
Fat kg	26	Body Condition Score	0.19
Fat %	5.3	Functional Survival	2.1
Protein kg	15	Calving Difficulty (cow)	-1.4
Protein %	4.1	Calving Difficulty (heifer)	-2.0
SCC	0.40	Gestation Length (days)	-6.7
Liveweight	-4	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.07	
Shed Temperament	0.07	
Milking Speed	0.13	
Overall Opinion	0.10	
Conformation (626 daughters TOP tested)		
Stature	-0.45	
Capacity	0.40	
Rump Angle	-0.40	
Rump Width	-0.12	
Legs	0.04	
Udder Support	0.02	
Front Udder	0.24	
Rear Udder	0.33	
Front Teat Placement	-0.03	
Rear Teat Placement	-0.13	
Teat Length	-0.03	
Udder Overall	0.17	
Dairy Conformation	0.33	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	143/67	Survival	99
ASI	207	Daughter Fertility	104
HWI	71	Liveweight	104
Milk	167	Overall Type	89
Fat kg	31	Protein kg	23

318015 GLENUI SUPER LAMAR

$444/98% gBW REL

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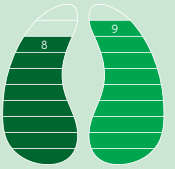


Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGLAMAR
Breed	J16
Pedigree	SUPERSTITION x GOLDIE

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			1853 Daughters
Milk Volume (litres)	-129	Fertility %	2.3
Fat kg	47	Body Condition Score	-0.04
Fat %	5.9	Functional Survival	3.1
Protein kg	8	Calving Difficulty (cow)	-0.7
Protein %	4.1	Calving Difficulty (heifer)	-1.0
SCC	-0.50	Gestation Length (days)	-2.7
Liveweight	-46	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.25	
Shed Temperament	0.24	
Milking Speed	0.21	
Overall Opinion	0.30	
Conformation (159 daughters TOP tested)		
Stature	-0.77	
Capacity	0.46	
Rump Angle	-0.56	
Rump Width	0.62	
Legs	0.17	
Udder Support	0.60	
Front Udder	0.52	
Rear Udder	0.84	
Front Teat Placement	0.35	
Rear Teat Placement	0.50	
Teat Length	-0.61	
Udder Overall	0.78	
Dairy Conformation	0.48	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	243/71	Survival	100
ASI	209	Daughter Fertility	102
HWI	188	Liveweight	99
Milk	-213	Overall Type	94
Fat kg	46	Protein kg	14

All Bulls

Page Number	NZAB Code	Bull Name	Price Retail	Beta Casein	gBW/Rel %	Milk Volume (litres)	Fat kg	Protein kg	SCC	Fertility %	Functional Survival	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length (days)	Liveweight	Overall Opinion	Stature	Capacity	Udder Overall	Dairy Conformation	VMSI
Jersey																					
35	323014	GLANTON BERKLY **PARKES**	$25	A2/A2	538 / 54	-360	51	19	-0.24	11.2	5.0	-2.1	-0.8	-0.5	7.5	0.52	-0.02	0.41	1.10	0.58	1424
34	320029	ROCKLAND LQ **BERKLY**	$25	A2/A2	534 / 89	-145	61	24	0.01	1.6	3.0	-2.4	-0.6	0.3	-16	0.71	-0.14	0.28	0.86	0.34	1563
37	318001	OKURA PEPPER **LUCCA**	$23	A1/A2	505 / 90	-31	57	19	-0.20	1.8	2.8	-1.6	-1.0	4.4	-33	0.67	-0.58	0.67	0.46	0.62	1480
38	319030	GRANTZ BC **HENDRIX** ET S3J *	$21	A2/A2	470 / 90	122	44	24	0.18	10.4	1.6	-2.7	-0.6	-3.3	4	0.19	-0.21	0.08	0.47	0.13	1442
40	318015	GLENUI SUPER **LAMAR** *	$19	A2/A2	444 / 98	-129	47	8	-0.50	2.3	3.1	-1.0	-0.7	-2.7	-46	0.30	-0.77	0.46	0.78	0.48	1435
39	318035	SHELBY BC **LOTTO** ET S3J *	$21	A2/A2	442 / 98	-186	35	21	-0.07	6.6	3.0	-1.7	-0.9	-0.5	-32	0.13	-0.59	0.09	0.27	0.20	1414
39	315045	GLENUI DEGREE **HOSS** ET *	$21	A2/A2	437 / 99	-385	31	11	-0.48	6.9	3.3	-1.6	-0.9	1.9	-37	0.09	-0.59	0.38	0.49	0.38	1378
36	322034	SCOTTSDALE KP **CALVARY**-ET *	$21	A2/A2	415 / 54	-314	37	13	0.09	7.7	3.8	-2.3	-1.4	-3.1	10	0.63	-0.24	1.05	0.70	0.97	1390
35	320020	THORNWOOD BANFF **TITUS**	$23	A2/A2	403 / 91	-742	27	5	-0.22	8.0	5.1	-2.4	-1.3	-4.2	-4	0.30	-0.61	0.77	0.89	0.80	1361
38	316039	ULMARRA TT **GALLIVANT** S2J *	$21	A1/A2	398 / 98	-262	41	13	-0.10	4.8	3.0	-2.2	-0.7	-0.5	-4	0.54	-0.36	0.68	0.65	0.73	1380
36	318029	GLENUI BC **LAREDO** ET S3J *	$21	A2/A2	370 / 98	-21	17	16	0.33	7.7	6.4	-2.1	-0.9	-2.8	-53	0.51	-1.05	0.30	0.64	0.36	1308
40	312057	BELLS CM **CONRAD** S2J *	$19	A2/A2	349 / 99	-10	26	15	0.40	12.4	2.1	-2.0	-1.4	-6.7	-4	0.10	-0.45	0.40	0.17	0.33	1287
Jersey also available																					
	315008	PUKEROA AND **BARATONE** ET	$15	A2/A2	416 / 99	-450	31	11	0.05	1.5	2.4	-0.4	-0.5	-5.0	-57	0.16	-1.31	0.41	0.31	0.13	1329
	315009	RIVERVIEW AND **DEXTER** S2J	$17	A2/A2	416 / 99	-66	30	19	-0.31	4.5	3.0	-1.0	-0.5	-1.8	-17	0.25	-0.60	0.77	0.64	0.65	1390
	313023	CRESCENT EXCELL **MONOPOLY**	$17	A2/A2	407 / 99	-472	37	10	-0.06	1.3	3.2	-1.3	-1.0	-1.6	-44	0.38	-0.80	0.42	0.44	0.32	1377
	315029	THORNWOOD DEGREE **TRIGGER**	$17	A2/A2	400 / 99	-237	35	14	-0.11	1.6	2.7	-2.7	-1.3	-4.3	-25	0.01	-0.78	0.64	1.09	0.67	1401
	312004	GLANTON LT **BRAHMS**	$12	A2/A2	370 / 99	-216	41	20	0.27	-7.0	-0.4	-0.8	0.2	-2.6	-21	0.41	-0.58	0.72	0.39	0.81	1353
	312014	CHARDONNAY **FRANKIE**	$12	A2/A2	356 / 99	-249	15	11	-0.41	7.0	2.4	-1.6	-0.1	0.1	-63	0.34	-1.21	0.44	0.03	0.22	1260
	314012	KAITAKA OI **LEOPARD** ET	$17	A2/A2	335 / 99	-534	23	2	-0.19	5.6	2.1	-2.0	-0.9	-4.5	-61	0.28	-0.97	-0.28	0.63	-0.03	1310
	315059	BONACORD AND **BERNARD** S2J	$13	A2/A2	333 / 98	-703	17	-2	-0.26	8.4	1.9	0.2	-1.0	-1.1	-89	0.03	-1.46	-0.44	0.44	-0.34	1302
	308128	HILLSTAR LOT **JESTER** S3J	$12	A1/A2	331 / 99	-250	19	9	-0.38	7.6	1.5	-2.0	-0.9	0.7	-25	0.25	-0.56	0.51	0.57	0.47	1286
	313016	BONACORD MURMUR **BOLT**	$13	A2/A2	312 / 99	-237	22	4	-0.40	6.0	0.1	-1.1	-0.9	0.8	-67	0.07	-1.20	0.04	0.30	0.10	1273
	317006	WILLIAMS PCG **TENOR**	$13	A2/A2	275 / 95	-53	15	9	0.14	4.8	4.0	-2.2	-1.7	0.2	-48	0.39	-1.02	0.36	0.43	0.43	1227

* Sexed semen is offered for Single AI use only. See page 9 for more information.

19/01/2024

2024

KiwiCross®

For updated bull information after each AE run, scan the QR code

Top 5 Performers

Breeding Worth

NZ Herd Average
NZ$224

NZ AB Code	Name	gBW/Rel%	Page
523004	PAYNES **SORCERER**-ET	667 / 47	60
523022	BUELIN **ORAN**	615 / 53	60
523092	PLATEAU **DEMBE**	599 / 46	60
523075	ARKANS **GAMBLER**	591 / 47	60
519034	GORDONS **FLASH-GORDON** *	569 / 91	46

BPI

NZ AB Code	Name	BPI/Rel%	Page
518053	PAYNES **PROMINENCE**-ET *	336 / 64	59
519034	GORDONS **FLASH-GORDON** *	333 / 55	46
518068	MORGANS **MOONSHINE** *	305 / 66	56
519020	PAYNES **PROFESSOR**-ET *	296 / 64	53
519023	PAYNES **PUBLISHER**-ET *	291 / 66	49

Protein

NZ Herd Average
19kg/3.95%

NZ AB Code	Name	Protein (kg/%)	Page
519020	PAYNES **PROFESSOR**-ET *	54 / 3.8	53
519034	GORDONS **FLASH-GORDON** *	52 / 4.0	46
519072	RHANTANA **OUTLOOK**-ET *	52 / 4.3	52
519023	PAYNES **PUBLISHER**-ET *	51 / 4.2	49
519089	SCHRADERS **TRADER** *	51 / 3.8	47

Fat

NZ Herd Average
21kg/4.90%

NZ AB Code	Name	Fat (kg/%)	Page
523022	BUELIN **ORAN**	69 / 5.7	60
522069	BENTONS **SECOND-CHANCE**	67 / 5.6	60
523092	PLATEAU **DEMBE**	67 / 5.6	60
519089	SCHRADERS **TRADER** *	66 / 4.8	47
520068	MORGANS **MALAWI**	64 / 5.2	51

Fertility

NZ Herd Average
1.2%

NZ AB Code	Name	Fertility (%)	Page
519061	ARKANS **BAILIFF** *	10.6	54
523078	RHANTANA **ZEPPELIN**	10.3	60
520058	PAYNES **PASSENGER**-ET	10.1	48
520033	DOWSON **HONENUI**-ET *	9.3	47
522077	TATAWAI **WRESTLER**-ET	9.0	60

Milk Volume

NZ Herd Average
280 litres

NZ AB Code	Name	Volume (l)	Page
519020	PAYNES **PROFESSOR**-ET *	1354	53
519089	SCHRADERS **TRADER** *	1351	47
519034	GORDONS **FLASH-GORDON** *	996	46
520058	PAYNES **PASSENGER**-ET	902	48
520068	MORGANS **MALAWI**	868	51

SCC

NZ Herd Average
-0.01

NZ AB Code	Name	SCC	Page
518068	MORGANS **MOONSHINE** *	-0.77	56
519061	ARKANS **BAILIFF** *	-0.52	54
523078	RHANTANA **ZEPPELIN**	-0.48	60
523092	PLATEAU **DEMBE**	-0.41	60
523007	PAYNES **PRESIDE**-ET	-0.40	60

Capacity

NZ Herd Average
0.25

NZ AB Code	Name	Capacity	Page
519072	RHANTANA **OUTLOOK**-ET *	1.18	52
519089	SCHRADERS **TRADER** *	1.12	47
519020	PAYNES **PROFESSOR**-ET *	0.99	53
519062	ARKANS **BARRIER**	0.96	48
522069	BENTONS **SECOND-CHANCE**	0.92	60

Udder Overall

NZ Herd Average
0.23

NZ AB Code	Name	Udder Overall	Page
520058	PAYNES **PASSENGER**-ET	1.18	48
520091	MARSHALL **PAPAMOA** *	1.15	50
520033	DOWSON **HONENUI**-ET *	1.10	47
517041	LUCK-AT-LAST **EMPEROR**-ET	1.09	58
523078	RHANTANA **ZEPPELIN**	1.05	60

Heifer Calving Difficulty

NZ Herd Average
0.1%

NZ AB Code	Name	HCD	Page
520091	MARSHALL **PAPAMOA** *	-2.4	50
518016	HORIZON **ASCOTT** *	-1.4	55
520033	DOWSON **HONENUI**-ET *	-1.3	47
519030	SECRETERRY **SCRIPT**-ET	-1.3	57
523004	PAYNES **SORCERER**-ET	-1.2	60

* Sexed semen is offered for Single AI use only. See page 9 for more information.

Source: DataGene 05/12/2023 19/01/2024

FAST FORWARD Team™

LIC's best available genetics earlier than before, fast-forwarding your herd's genetic gain.

The Fast Forward Team™ uses genomic technology to deliver high genetic merit sires with improved reliability at a younger age. Access the next generation of elite bulls earlier, and use a team approach for a balanced breeding strategy.

How it works

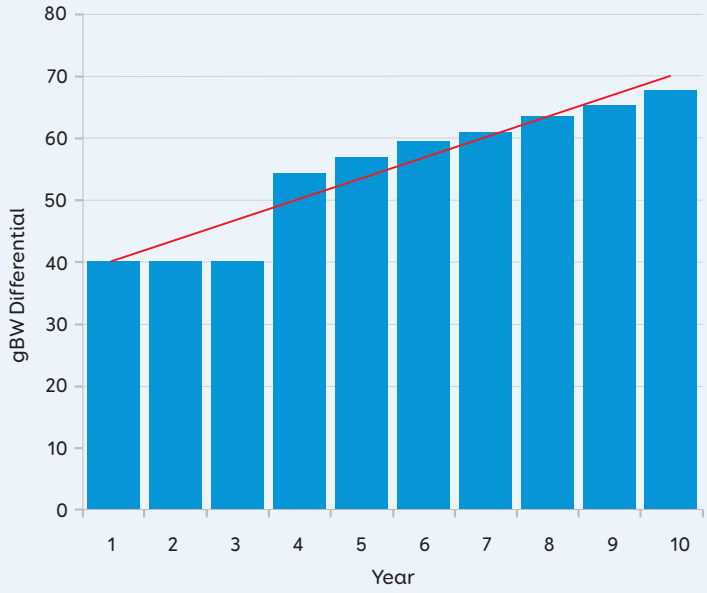
- A selection of LIC's elite genomic sires make up the Fast Forward Team
- A team of five to seven sires will be allocated
- The sires are hand-picked by LIC breeding managers to ensure high genetic merit, all-round performance and strong cow families
- An even spread of straws from bulls in the team will be supplied
- Minimum of 50 straws per order
- Available from spring 2024

Terms and conditions apply

$23 - Team price per straw

For more information talk to your District Manager.

Predicted difference between gBW of replacements from using Fast Forward Team vs Daughter Proven Sires



Through strong investment into research and development, our genomic sires consistently deliver higher rates of genetic gain.

As a result, the gap between genomic and daughter proven sires is widening, and the variation within the genomic group is decreasing, therefore, providing farmers with greater confidence.

Genomic Breeding Values

NZ AB Code	Name	Breed 16th	Beta Casein	gBW	Rel	Fat kg	Fat %	Protein kg	Protein %	Milk Volume (litres)	Liveweight	Fertility	Functional Survival	Somatic Cell Count	Body Condition	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length (days)
523004	PAYNES **SORCERER**-ET	F9J7	A2/A2	667	47	60	5.6	38	4.3	381	-19	7.0	6.2	-0.4	0.1	-1.2	-1.2	-6.5
523022	BUELIN **ORAN**	J9F7	A2/A2	615	53	69	5.7	44	4.3	433	42	6.5	3.4	-0.1	0.1	-0.6	-0.2	-2.7
523092	PLATEAU **DEMBE**	F9J7	A2/A2	599	46	67	5.6	40	4.2	499	27	4.5	3.8	-0.4	0.1	0.8	-0.1	0.9
523075	ARKANS **GAMBLER**	F10J6	A2/A2	591	47	56	5.2	32	4.1	98	3	9.7	3.9	0.0	0.2	-0.1	-0.5	-7.1
523078	RHANTANA **ZEPPELIN**	F10J6	A2/A2	563	46	53	5.5	30	4.2	313	12	10.3	2.9	-0.5	0.1	-0.7	-0.3	-5.8
522077	TATAWAI **WRESTLER**-ET	F9J7	A2/A2	558	55	54	5.7	38	4.4	197	44	9.0	5.2	0.3	0.3	-0.6	-1.5	-5.8
522069	BENTONS **SECOND-CHANCE**	F11J5	A2/A2	548	53	67	5.6	41	4.2	496	56	3.9	2.3	0.1	0.2	3.2	-1.1	-1.9
	Team Average			**592**	**93**	**61**	**5.6**	**38**	**4.2**	**345**	**24**	**7.3**	**4.0**	**-0.1**	**0.1**	**0.1**	**-0.7**	**-4.1**

19/01/2024

Traits other than production

NZ AB Code	Name	Adaptability to Milking	Shed Temperament	Milking Speed	Overall Opinion	Stature	Capacity	Rump Angle	Rump Width	Legs	Udder Support	Front Udder	Rear Udder	Front Teat Placement	Rear Teat Placement	Teat Length	Udder Overall	Dairy Conformation
523004	PAYNES **SORCERER**-ET	0.58	0.58	0.39	0.68	-0.48	0.45	0.09	-0.07	0.17	0.77	0.52	0.66	-0.04	0.57	-0.13	0.61	0.32
523022	BUELIN **ORAN**	0.49	0.50	0.23	0.68	0.67	0.11	-0.11	0.25	-0.10	0.68	0.33	0.62	0.13	0.36	0.28	0.62	0.29
523092	PLATEAU **DEMBE**	0.11	0.09	0.35	0.23	0.31	0.62	-0.26	0.25	0.13	0.96	0.69	0.97	0.25	0.53	-0.50	0.98	0.69
523075	ARKANS **GAMBLER**	0.18	0.18	0.16	0.31	-0.17	0.28	0.03	0.17	-0.07	0.80	0.90	0.66	0.26	0.25	-0.97	0.87	0.25
523078	RHANTANA **ZEPPELIN**	0.29	0.31	-0.22	0.36	0.06	0.49	0.17	0.24	0.11	0.94	0.94	1.01	0.25	0.36	-0.31	1.05	0.41
522077	TATAWAI **WRESTLER**-ET	0.83	0.86	0.11	0.79	0.09	0.78	0.64	-0.45	0.15	0.34	0.35	0.14	0.24	0.34	-0.14	0.34	0.56
522069	BENTONS **SECOND-CHANCE**	0.63	0.66	0.07	0.66	0.47	0.92	-0.15	0.52	-0.06	0.37	0.31	0.52	0.15	-0.05	-0.11	0.50	0.83
	Team Average	**0.44**	**0.45**	**0.16**	**0.53**	**0.14**	**0.52**	**0.06**	**0.13**	**0.05**	**0.69**	**0.58**	**0.65**	**0.18**	**0.34**	**-0.27**	**0.71**	**0.48**

19/01/2024

Weighted Team Averages

Management	-0.5	0	0.5	1
Adapts to Milking	**0.44**			quickly
Shed Temperament	**0.45**			placid
Milking Speed	**0.16**			fast
Overall Opinion	**0.53**			desirable

Conformation	-0.5	0	0.5	1
Stature	**0.14**			tall
Capacity	**0.52**			capacious
Rump Angle	**0.06**			sloping
Rump Width	**0.13**			wide
Legs	**0.05**			curved
Udder Support	**0.69**			strong
Front Udder	**0.58**			strong
Rear Udder	**0.65**			high
Front Teat Placement	**0.18**			close
Rear Teat Placement	**0.34**			close
Teat Length	**-0.27**			long
Udder Overall	**0.71**			desirable
Dairy Conformation	**0.48**			desirable

gBW/Rel%	$592/93
Milkfat	**61 kgs**
Protein	**38 kgs**
Milk	**345 litres**
Liveweight	**24 kgs**
Functional Survival	**4.0%**
Milkfat %	**5.6%**
Protein %	**4.2%**
Heifer Calving Dif	**0.1%**
Cow Calving Dif	**-0.7%**
Fertility	**7.3%**
SCC	**-0.1**
BCS	**0.1**

NB: the reliability of a team of bulls is always higher than using just one bull.

19/01/2024

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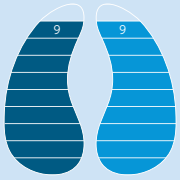
Methane Efficiency

Nitrogen Efficiency



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Daughter of 519034 FLASH-GORDON

519034 GORDONS FLASH-GORDON

$569/91% gBW REL

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGGORDON
Breed	F8J8
Pedigree	WINSTON x INCA

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			144 Daughters
Milk Volume (litres)	996	Fertility %	2.8
Fat kg	59	Body Condition Score	0.08
Fat %	5.0	Functional Survival	3.8
Protein kg	52	Calving Difficulty (cow)	0.5
Protein %	4.0	Calving Difficulty (heifer)	-0.3
SCC	0.03	Gestation Length (days)	3.7
Liveweight	16	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.22				
Shed Temperament	0.22				
Milking Speed	0.10				
Overall Opinion	0.35				
Conformation (88 daughters TOP tested)					
Stature	0.24				
Capacity	0.34				
Rump Angle	-0.09				
Rump Width	-0.01				
Legs	-0.06				
Udder Support	0.39				
Front Udder	0.34				
Rear Udder	0.85				
Front Teat Placement	-0.30				
Rear Teat Placement	-0.36				
Teat Length	-0.12				
Udder Overall	0.46				
Dairy Conformation	0.50				

19/01/2024

Daughter of 519034 FLASH-GORDON

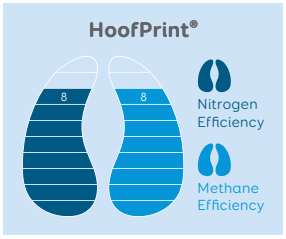
Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	333/55	Survival	99
ASI	332	Daughter Fertility	103
HWI	209	Calving Ease	n/a
Milk	1375	Overall Type	90
Fat kg	52	Protein kg	50

519089 SCHRADERS TRADER

$489/88% gBW REL



Breeding Details

NASIS	NZGTRADER
Breed	F10J6
Pedigree	LINING x ATHLETE

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values			81 Daughters
Milk Volume (litres)	1351	Fertility %	0.6
Fat kg	66	Body Condition Score	0.11
Fat %	4.8	Functional Survival	3.4
Protein kg	51	Calving Difficulty (cow)	-0.4
Protein %	3.8	Calving Difficulty (heifer)	0.6
SCC	0.38	Gestation Length (days)	-11.3
Liveweight	43	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.08	
Shed Temperament	0.05	
Milking Speed	0.54	
Overall Opinion	0.25	
Conformation (72 daughters TOP tested)		
Stature	0.54	
Capacity	1.12	
Rump Angle	0.21	
Rump Width	0.13	
Legs	-0.03	
Udder Support	0.18	
Front Udder	-0.14	
Rear Udder	0.12	
Front Teat Placement	0.00	
Rear Teat Placement	0.44	
Teat Length	0.28	
Udder Overall	0.05	
Dairy Conformation	1.10	

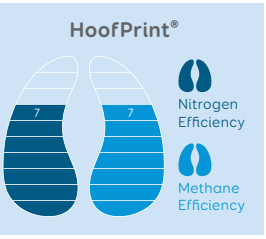
19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	216/62	Survival	95
ASI	232	Daughter Fertility	114
HWI	236	Calving Ease	102
Milk	12	Overall Type	88
Fat kg	40	Protein kg	22

520033 DOWSON HONENUI-ET

$420/92% gBW REL



Breeding Details

NASIS	NZGHONENUI
Breed	J9F7
Pedigree	BLACKHAWK x TRUMPET

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values			354 Daughters
Milk Volume (litres)	-443	Fertility %	9.3
Fat kg	44	Body Condition Score	0.14
Fat %	6.3	Functional Survival	4.6
Protein kg	21	Calving Difficulty (cow)	0.0
Protein %	4.7	Calving Difficulty (heifer)	-1.3
SCC	0.33	Gestation Length (days)	0.0
Liveweight	51	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.62	
Shed Temperament	0.63	
Milking Speed	0.21	
Overall Opinion	0.66	
Conformation (143 daughters TOP tested)		
Stature	0.34	
Capacity	0.73	
Rump Angle	0.34	
Rump Width	-0.10	
Legs	0.12	
Udder Support	1.01	
Front Udder	1.03	
Rear Udder	0.77	
Front Teat Placement	0.59	
Rear Teat Placement	0.87	
Teat Length	-0.16	
Udder Overall	1.10	
Dairy Conformation	0.64	

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	232/48	Survival	103
ASI	227	Daughter Fertility	102
HWI	115	Calving Ease	0
Milk	-368	Overall Type	98
Fat kg	35	Protein kg	18

519062 ARKANS BARRIER

$348/97% gBW REL

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Breeding Details

NASIS	NZGBARRIER
Breed	F9J7
Pedigree	PATRIARCH x KING

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values		3742 Daughters	
Milk Volume (litres)	-194	Fertility %	6.6
Fat kg	30	Body Condition Score	0.28
Fat %	5.6	Functional Survival	2.1
Protein kg	15	Calving Difficulty (cow)	0.1
Protein %	4.3	Calving Difficulty (heifer)	3.0
SCC	0.18	Gestation Length (days)	-3.8
Liveweight	20	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.28	
Shed Temperament	0.29	
Milking Speed	-0.06	
Overall Opinion	0.27	
Conformation (108 daughters TOP tested)		
Stature	-0.35	
Capacity	0.96	
Rump Angle	-0.21	
Rump Width	-0.11	
Legs	-0.07	
Udder Support	0.62	
Front Udder	0.65	
Rear Udder	0.76	
Front Teat Placement	0.09	
Rear Teat Placement	0.30	
Teat Length	-0.61	
Udder Overall	0.69	
Dairy Conformation	0.80	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	189/65	Survival	97
ASI	127	Daughter Fertility	117
HWI	266	Calving Ease	102
Milk	-1488	Overall Type	91
Fat kg	23	Protein kg	-6

520058 PAYNES PASSENGER-ET

$374/86% gBW REL

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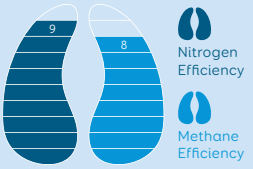

Breeding Details

NASIS	NZGPASSENGER
Breed	F12J4
Pedigree	BLACKHAWK x TECHNICIAN

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values		100 Daughters	
Milk Volume (litres)	902	Fertility %	10.1
Fat kg	25	Body Condition Score	0.21
Fat %	4.4	Functional Survival	6.4
Protein kg	40	Calving Difficulty (cow)	-0.6
Protein %	3.9	Calving Difficulty (heifer)	0.3
SCC	-0.35	Gestation Length (days)	-9.8
Liveweight	56	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.41	
Shed Temperament	0.41	
Milking Speed	0.31	
Overall Opinion	0.50	
Conformation (87 daughters TOP tested)		
Stature	0.62	
Capacity	0.26	
Rump Angle	0.26	
Rump Width	0.39	
Legs	0.07	
Udder Support	1.05	
Front Udder	0.93	
Rear Udder	0.81	
Front Teat Placement	0.67	
Rear Teat Placement	0.68	
Teat Length	-0.91	
Udder Overall	1.18	
Dairy Conformation	0.46	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	255/46	Survival	99
ASI	147	Daughter Fertility	111
HWI	302	Calving Ease	0
Milk	-269	Overall Type	96
Fat kg	11	Protein kg	15

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519023 PAYNES PUBLISHER-ET

Daughter of 519023 PUBLISHER

Daughter of 519023 PUBLISHER

gBW $510/97% REL

Breeding Details

NASIS	NZGPUBLISHER
Breed	F11J5
Pedigree	BOULEVARD x HOTHOUSE

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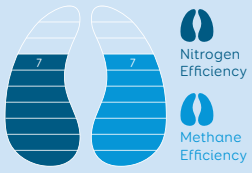

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			2598 Daughters
Milk Volume (litres)	704	Fertility %	2.4
Fat kg	50	Body Condition Score	0.20
Fat %	5.1	Functional Survival	3.0
Protein kg	51	Calving Difficulty (cow)	-0.7
Protein %	4.2	Calving Difficulty (heifer)	2.5
SCC	-0.09	Gestation Length (days)	-3.1
Liveweight	62	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.29				
Shed Temperament	0.29				
Milking Speed	0.17				
Overall Opinion	0.52				
Conformation (104 daughters TOP tested)					
Stature	0.38				
Capacity	0.66				
Rump Angle	0.04				
Rump Width	0.48				
Legs	-0.04				
Udder Support	0.54				
Front Udder	0.32				
Rear Udder	0.68				
Front Teat Placement	-0.15				
Rear Teat Placement	-0.08				
Teat Length	-0.37				
Udder Overall	0.51				
Dairy Conformation	0.66				

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	291/66	Survival	97
ASI	256	Daughter Fertility	114
HWI	313	Calving Ease	0
Milk	-552	Overall Type	88
Fat kg	29	Protein kg	22

19/01/2024

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520091 MARSHALL PAPAMOA

$501/88% gBW REL

Breeding Details

NASIS	NZGPAPAMOA
Breed	J10F6
Pedigree	FLOYD x PULSE

HoofPrint®

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			146 Daughters
Milk Volume (litres)	-14	Fertility %	4.0
Fat kg	49	Body Condition Score	0.21
Fat %	5.8	Functional Survival	5.0
Protein kg	22	Calving Difficulty (cow)	-1.2
Protein %	4.3	Calving Difficulty (heifer)	-2.4
SCC	-0.24	Gestation Length (days)	-1.6
Liveweight	-2	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.30				
Shed Temperament	0.30				
Milking Speed	0.18				
Overall Opinion	0.33				
Conformation (112 daughters TOP tested)					
Stature	-0.47				
Capacity	0.51				
Rump Angle	0.10				
Rump Width	0.25				
Legs	0.05				
Udder Support	1.04				
Front Udder	0.96				
Rear Udder	1.17				
Front Teat Placement	0.27				
Rear Teat Placement	0.53				
Teat Length	-0.49				
Udder Overall	1.15				
Dairy Conformation	0.55				

19/01/2024

Daughter of 520091 PAPAMOA

Daughter of 520091 PAPAMOA

Australian Indices

Source: DataGene 05 Dec 2023

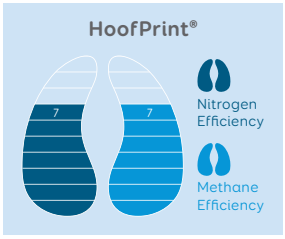
BPI/REL %	290/49	Survival	102
ASI	223	Daughter Fertility	102
HWI	209	Calving Ease	0
Milk	257	Overall Type	98
Fat kg	41	Protein kg	23

Daughter of 520068 MALAWI

520068 MORGANS MALAWI

Daughter of 520068 MALAWI

$470/86%
gBW REL



Breeding Details

NASIS	NZGMALAWI
Breed	F12J4
Pedigree	TRIUMPHANT x BULLION

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values		102 Daughters	
Milk Volume (litres)	868	Fertility %	4.0
Fat kg	64	Body Condition Score	0.17
Fat %	5.2	Functional Survival	4.8
Protein kg	35	Calving Difficulty (cow)	-0.2
Protein %	3.8	Calving Difficulty (heifer)	1.8
SCC	0.24	Gestation Length (days)	-3.5
Liveweight	44	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.09				
Shed Temperament	0.08				
Milking Speed	0.17				
Overall Opinion	0.30				
Conformation (94 daughters TOP tested)					
Stature	0.27				
Capacity	0.28				
Rump Angle	0.17				
Rump Width	-0.07				
Legs	-0.01				
Udder Support	0.57				
Front Udder	0.05				
Rear Udder	0.54				
Front Teat Placement	0.36				
Rear Teat Placement	0.90				
Teat Length	0.14				
Udder Overall	0.52				
Dairy Conformation	0.36				

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	251/44	Survival	98
ASI	204	Daughter Fertility	109
HWI	274	Calving Ease	0
Milk	-195	Overall Type	87
Fat kg	40	Protein kg	16

19/01/2024

515025 SPEAKES SLIPSTREAM ET

$374/99% gBW REL

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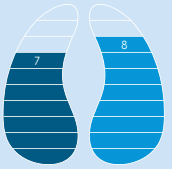

Breeding Details

NASIS	NZGSLIPSTREM
Breed	J10F6
Pedigree	MANZELLO x MINT-EDITION

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values — 19343 Daughters

Milk Volume (litres)	-86	Fertility %	6.6
Fat kg	36	Body Condition Score	0.07
Fat %	5.6	Functional Survival	3.1
Protein kg	15	Calving Difficulty (cow)	-0.1
Protein %	4.2	Calving Difficulty (heifer)	0.1
SCC	0.13	Gestation Length (days)	1.0
Liveweight	-6	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.29	
Shed Temperament	0.29	
Milking Speed	0.20	
Overall Opinion	0.23	
Conformation (259 daughters TOP tested)		
Stature	0.04	
Capacity	0.49	
Rump Angle	0.17	
Rump Width	0.33	
Legs	-0.07	
Udder Support	0.69	
Front Udder	0.61	
Rear Udder	0.89	
Front Teat Placement	0.22	
Rear Teat Placement	0.34	
Teat Length	0.08	
Udder Overall	0.82	
Dairy Conformation	0.45	

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	191/66	Survival	101
ASI	155	Daughter Fertility	101
HWI	101	Calving Ease	n/a
Milk	-287	Overall Type	97
Fat kg	33	Protein kg	9

Daughter of 519072 OUTLOOK

519072 RHANTANA OUTLOOK-ET

$431/88% gBW REL

HoofPrint®

Breeding Details

NASIS	NZGOUTLOOK
Breed	F11J5
Pedigree	BOULEVARD x DAREDEVIL

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values — 87 Daughters

Milk Volume (litres)	718	Fertility %	3.9
Fat kg	39	Body Condition Score	0.28
Fat %	4.8	Functional Survival	1.7
Protein kg	52	Calving Difficulty (cow)	3.3
Protein %	4.3	Calving Difficulty (heifer)	5.5
SCC	0.46	Gestation Length (days)	-1.3
Liveweight	64	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.52	
Shed Temperament	0.52	
Milking Speed	0.22	
Overall Opinion	0.59	
Conformation (79 daughters TOP tested)		
Stature	0.28	
Capacity	1.18	
Rump Angle	-0.04	
Rump Width	0.90	
Legs	0.04	
Udder Support	0.03	
Front Udder	0.16	
Rear Udder	0.49	
Front Teat Placement	-0.33	
Rear Teat Placement	-0.45	
Teat Length	-0.04	
Udder Overall	0.13	
Dairy Conformation	1.08	

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	269/63	Survival	97
ASI	269	Daughter Fertility	114
HWI	283	Calving Ease	103
Milk	-530	Overall Type	89
Fat kg	26	Protein kg	25

Ultraplus™

RETAIL $21.00
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Daughter of 519020 PROFESSOR

519020 PAYNES PROFESSOR-ET

Daughter of 519020 PROFESSOR

$418/88%
gBW REL

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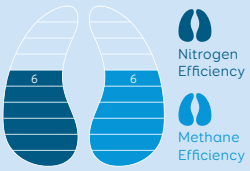


Breeding Details

NASIS	NZGPROFESSOR
Breed	F11J5
Pedigree	BOULEVARD x HOTHOUSE

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values		91 Daughters	
Milk Volume (litres)	1354	Fertility %	-0.8
Fat kg	54	Body Condition Score	0.08
Fat %	4.6	Functional Survival	3.4
Protein kg	54	Calving Difficulty (cow)	0.0
Protein %	3.8	Calving Difficulty (heifer)	0.5
SCC	-0.06	Gestation Length (days)	-4.8
Liveweight	81	Beta-Casein	A2/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.22				
Shed Temperament	0.21				
Milking Speed	0.23				
Overall Opinion	0.38				
Conformation (70 daughters TOP tested)					
Stature	0.48				
Capacity	0.99				
Rump Angle	-0.02				
Rump Width	1.17				
Legs	-0.05				
Udder Support	0.32				
Front Udder	0.23				
Rear Udder	0.44				
Front Teat Placement	0.18				
Rear Teat Placement	-0.40				
Teat Length	-0.19				
Udder Overall	0.49				
Dairy Conformation	0.99				

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	296/64	Survival	100
ASI	242	Daughter Fertility	113
HWI	310	Calving Ease	102
Milk	203	Overall Type	91
Fat kg	29	Protein kg	29

19/01/2024

Ultraplus™

RETAIL $21.00
SEXED $52.00

Daughter of 519061 BAILIFF

519061 ARKANS BAILIFF

$366/89% gBW REL

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGBAILIFF
Breed	F9J7
Pedigree	CONSCRIPT x BEAMER

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			98 Daughters
Milk Volume (litres)	319	Fertility %	10.6
Fat kg	29	Body Condition Score	0.12
Fat %	5.0	Functional Survival	5.4
Protein kg	18	Calving Difficulty (cow)	-0.3
Protein %	3.9	Calving Difficulty (heifer)	-0.3
SCC	-0.52	Gestation Length (days)	-1.5
Liveweight	2	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.50				
Shed Temperament	0.49				
Milking Speed	0.51				
Overall Opinion	0.60				
Conformation (89 daughters TOP tested)					
Stature	0.01				
Capacity	0.68				
Rump Angle	0.15				
Rump Width	0.10				
Legs	0.12				
Udder Support	0.21				
Front Udder	0.34				
Rear Udder	0.31				
Front Teat Placement	0.31				
Rear Teat Placement	0.49				
Teat Length	-0.06				
Udder Overall	0.35				
Dairy Conformation	0.66				

19/01/2024

Daughter of 519061 BAILIFF

Australian Indices

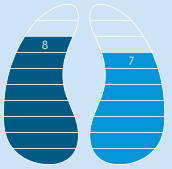
Source: DataGene 05 Dec 2023

BPI/REL %	220/60	Survival	95
ASI	82	Daughter Fertility	118
HWI	340	Calving Ease	103
Milk	-1304	Overall Type	85
Fat kg	13	Protein kg	-8

518016 HORIZON ASCOTT

$367/98% gBW REL

HoofPrint®



Breeding Details

NASIS	NZGASCOTT
Breed	F9J7
Pedigree	BANDANA x JAYDIE

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values			8072 Daughters
Milk Volume (litres)	-9	Fertility %	2.4
Fat kg	27	Body Condition Score	0.12
Fat %	5.3	Functional Survival	4.7
Protein kg	21	Calving Difficulty (cow)	-0.7
Protein %	4.3	Calving Difficulty (heifer)	-1.4
SCC	0.13	Gestation Length (days)	-5.3
Liveweight	-10	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.19				
Shed Temperament	0.17				
Milking Speed	0.35				
Overall Opinion	0.29				
Conformation (108 daughters TOP tested)					
Stature	-0.47				
Capacity	0.47				
Rump Angle	-0.16				
Rump Width	-0.34				
Legs	0.06				
Udder Support	1.02				
Front Udder	1.06				
Rear Udder	0.95				
Front Teat Placement	0.19				
Rear Teat Placement	0.76				
Teat Length	0.11				
Udder Overall	1.02				
Dairy Conformation	0.37				

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	233/62	Survival	104
ASI	158	Daughter Fertility	109
HWI	325	Calving Ease	n/a
Milk	-834	Overall Type	94
Fat kg	18	Protein kg	8

518061 INNOVATION HOMEBREW

$368/98% gBW REL

HoofPrint®

Breeding Details

NASIS	NZGHOMEBREW
Breed	F9J7
Pedigree	BRANSON x BEAUT

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values			9701 Daughters
Milk Volume (litres)	-245	Fertility %	4.1
Fat kg	38	Body Condition Score	0.36
Fat %	5.9	Functional Survival	3.9
Protein kg	15	Calving Difficulty (cow)	-0.6
Protein %	4.4	Calving Difficulty (heifer)	0.4
SCC	0.18	Gestation Length (days)	-7.3
Liveweight	40	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.29				
Shed Temperament	0.28				
Milking Speed	0.33				
Overall Opinion	0.40				
Conformation (99 daughters TOP tested)					
Stature	-0.03				
Capacity	0.68				
Rump Angle	-0.01				
Rump Width	0.16				
Legs	-0.03				
Udder Support	0.44				
Front Udder	0.67				
Rear Udder	0.43				
Front Teat Placement	0.09				
Rear Teat Placement	-0.22				
Teat Length	0.07				
Udder Overall	0.56				
Dairy Conformation	0.59				

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	233/63	Survival	102
ASI	185	Daughter Fertility	112
HWI	303	Calving Ease	n/a
Milk	-1053	Overall Type	88
Fat kg	28	Protein kg	6

Dam of 511011 SIERRA

511011 PRIESTS SIERRA

$384/99% gBW REL

Breeding Details

NASIS	NZGPRISIERRA
Breed	F11J5
Pedigree	MINT-EDITION x RAMROD

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NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values — 116637 Daughters

Milk Volume (litres)	507	Fertility %	5.0
Fat kg	44	Body Condition Score	0.05
Fat %	5.1	Functional Survival	3.3
Protein kg	30	Calving Difficulty (cow)	0.4
Protein %	4.0	Calving Difficulty (heifer)	2.7
SCC	-0.17	Gestation Length (days)	-6.6
Liveweight	41	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.51	
Shed Temperament	0.53	
Milking Speed	0.00	
Overall Opinion	0.48	
Conformation (681 daughters TOP tested)		
Stature	0.49	
Capacity	0.55	
Rump Angle	0.01	
Rump Width	0.02	
Legs	0.11	
Udder Support	0.45	
Front Udder	0.36	
Rear Udder	0.39	
Front Teat Placement	0.23	
Rear Teat Placement	1.02	
Teat Length	-0.74	
Udder Overall	0.39	
Dairy Conformation	0.60	

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	269/88	Survival	102
ASI	148	Daughter Fertility	112
HWI	325	Calving Ease	101
Milk	-755	Overall Type	90
Fat kg	27	Protein kg	5

Daughter of 518068 MOONSHINE

518068 MORGANS MOONSHINE

$339/91% gBW REL

Breeding Details

NASIS	NZGMOONSHINE
Breed	F11J5
Pedigree	GRANITE x BEAUT

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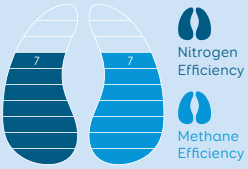

NEW ZEALAND DETAILS — Daughter Proven

NZ Breeding Values — 104 Daughters

Milk Volume (litres)	378	Fertility %	4.1
Fat kg	19	Body Condition Score	0.13
Fat %	4.8	Functional Survival	2.7
Protein kg	30	Calving Difficulty (cow)	0.4
Protein %	4.1	Calving Difficulty (heifer)	1.0
SCC	-0.77	Gestation Length (days)	-6.0
Liveweight	24	Beta-Casein	A1/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.47	
Shed Temperament	0.49	
Milking Speed	-0.04	
Overall Opinion	0.43	
Conformation (94 daughters TOP tested)		
Stature	0.00	
Capacity	0.45	
Rump Angle	0.32	
Rump Width	-0.33	
Legs	-0.04	
Udder Support	0.43	
Front Udder	0.37	
Rear Udder	0.14	
Front Teat Placement	0.26	
Rear Teat Placement	0.14	
Teat Length	-0.03	
Udder Overall	0.42	
Dairy Conformation	0.45	

19/01/2024

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	305/66	Survival	99
ASI	142	Daughter Fertility	115
HWI	382	Calving Ease	102
Milk	-1028	Overall Type	88
Fat kg	10	Protein kg	5

515017 LYNBROOK KARTELL

$383/99% gBW REL

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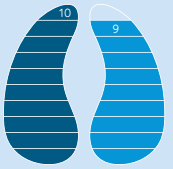


Breeding Details

NASIS	NZGKARTELL
Breed	J8F7A1
Pedigree	RAMADA x MURMUR

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			14549 Daughters
Milk Volume (litres)	107	Fertility %	7.4
Fat kg	31	Body Condition Score	-0.08
Fat %	5.3	Functional Survival	3.0
Protein kg	25	Calving Difficulty (cow)	-0.9
Protein %	4.2	Calving Difficulty (heifer)	-1.0
SCC	0.34	Gestation Length (days)	-4.7
Liveweight	-13	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.21				
Shed Temperament	0.21				
Milking Speed	0.22				
Overall Opinion	0.22				
Conformation (172 daughters TOP tested)					
Stature	-0.54				
Capacity	0.47				
Rump Angle	0.16				
Rump Width	0.33				
Legs	0.26				
Udder Support	0.33				
Front Udder	0.59				
Rear Udder	0.53				
Front Teat Placement	0.13				
Rear Teat Placement	0.14				
Teat Length	0.10				
Udder Overall	0.49				
Dairy Conformation	0.32				

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	157/63	Survival	100
ASI	178	Daughter Fertility	106
HWI	128	Calving Ease	n/a
Milk	260	Overall Type	91
Fat kg	26	Protein kg	21

Half Sister of 519030 SCRIPT

519030 SECRETERRY SCRIPT-ET

$372/90% gBW REL

HoofPrint®

Breeding Details

NASIS	NZGSCRIPT
Breed	J9F7
Pedigree	BOUNTY x BEAMER

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			111 Daughters
Milk Volume (litres)	491	Fertility %	0.8
Fat kg	38	Body Condition Score	-0.01
Fat %	5.0	Functional Survival	2.3
Protein kg	26	Calving Difficulty (cow)	0.7
Protein %	3.9	Calving Difficulty (heifer)	-1.3
SCC	-0.11	Gestation Length (days)	-3.8
Liveweight	-14	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adaptability to Milking	0.32				
Shed Temperament	0.33				
Milking Speed	0.08				
Overall Opinion	0.38				
Conformation (96 daughters TOP tested)					
Stature	-0.15				
Capacity	0.50				
Rump Angle	0.33				
Rump Width	0.08				
Legs	0.17				
Udder Support	0.17				
Front Udder	0.14				
Rear Udder	0.02				
Front Teat Placement	0.63				
Rear Teat Placement	0.98				
Teat Length	-0.19				
Udder Overall	0.27				
Dairy Conformation	0.61				

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

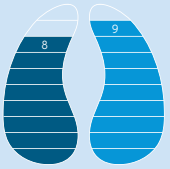
BPI/REL %	217/55	Survival	98
ASI	220	Daughter Fertility	101
HWI	119	Calving Ease	n/a
Milk	913	Overall Type	93
Fat kg	34	Protein kg	33

Dam of 517001 PATRIARCH

517001 ARKANS PATRIARCH-ET

$391/98% gBW REL

HoofPrint®



Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGPATRIARCH
Breed	F10J6
Pedigree	JAYDIE x MINT-EDITION

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			5162 Daughters
Milk Volume (litres)	-21	Fertility %	8.0
Fat kg	31	Body Condition Score	0.12
Fat %	5.4	Functional Survival	2.5
Protein kg	14	Calving Difficulty (cow)	-1.0
Protein %	4.1	Calving Difficulty (heifer)	-0.4
SCC	0.12	Gestation Length (days)	-4.2
Liveweight	-27	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.22	
Shed Temperament	0.20	
Milking Speed	0.29	
Overall Opinion	0.38	
Conformation (122 daughters TOP tested)		
Stature	-0.43	
Capacity	0.24	
Rump Angle	-0.26	
Rump Width	0.11	
Legs	0.00	
Udder Support	0.74	
Front Udder	1.02	
Rear Udder	1.06	
Front Teat Placement	0.15	
Rear Teat Placement	0.52	
Teat Length	-0.65	
Udder Overall	0.92	
Dairy Conformation	0.37	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	216/67	Survival	99
ASI	83	Daughter Fertility	120
HWI	350	Calving Ease	103
Milk	-1244	Overall Type	90
Fat kg	18	Protein kg	-8

517041 LUCK-AT-LAST EMPEROR-ET

$336/91% gBW REL

HoofPrint®

Nitrogen Efficiency

Methane Efficiency

Breeding Details

NASIS	NZGLUEMPEROR
Breed	F10J6
Pedigree	TECHNICIAN x TERRIFIC

NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values			109 Daughters
Milk Volume (litres)	247	Fertility %	1.1
Fat kg	28	Body Condition Score	0.25
Fat %	5.1	Functional Survival	5.4
Protein kg	24	Calving Difficulty (cow)	0.1
Protein %	4.1	Calving Difficulty (heifer)	0.8
SCC	-0.21	Gestation Length (days)	-1.8
Liveweight	26	Beta-Casein	A1/A2

NZ Evaluation Data

Traits other than production

Management	gBV	-0.5 0 0.5 1.0
Adaptability to Milking	0.11	
Shed Temperament	0.09	
Milking Speed	0.25	
Overall Opinion	0.29	
Conformation (96 daughters TOP tested)		
Stature	-0.11	
Capacity	0.43	
Rump Angle	-0.26	
Rump Width	0.34	
Legs	-0.12	
Udder Support	1.01	
Front Udder	0.99	
Rear Udder	0.79	
Front Teat Placement	0.48	
Rear Teat Placement	0.63	
Teat Length	0.05	
Udder Overall	1.09	
Dairy Conformation	0.63	

19/01/2024

Australian Indices

Source: DataGene 05 Dec 2023

BPI/REL %	218/52	Survival	99
ASI	116	Daughter Fertility	111
HWI	282	Calving Ease	102
Milk	-743	Overall Type	97
Fat kg	13	Protein kg	4

513098 ARKANS BOUNTY

$343/99% gBW REL

NASIS	NZGARKBOWNTY
Breed	J11F5
Pedigree	INTEGRITY x FIRENZE

NZ Breeding Values			16497 Daughters
Milk Volume (litres)	427	Fertility %	-1.0
Fat kg/%	26/4.9	Functional Survival	3.0
Protein kg/%	29/4.0	Calving Difficulty (cow)	0.0
SCC	-0.07	Gestation Length (days)	0.6
Liveweight	-7	Beta-Casein	A1/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Overall Opinion	0.28	
Conformation (201 daughters TOP tested)		
Udder Overall	0.66	
Dairy Conformation	0.77	

Australian Indices	Source: DataGene 05 Dec 2023		
BPI/REL %	210/65	ASI	229

518017 HORIZON BARNSTORMER-ET

$309/98% gBW REL

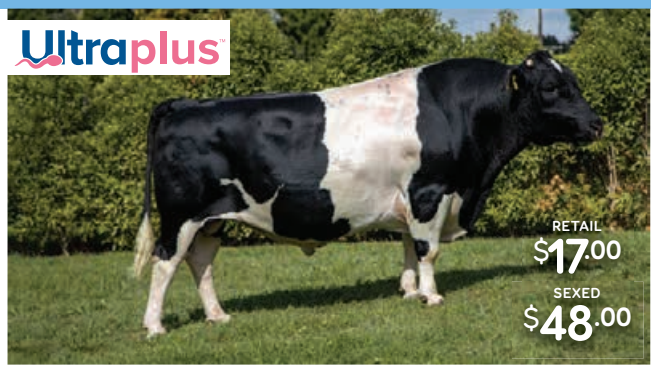
NASIS	NZGBARNSTORM
Breed	F8J8
Pedigree	SIERRA x SUPERSTITION

NZ Breeding Values			5131 Daughters
Milk Volume (litres)	694	Fertility %	0.7
Fat kg/%	42/4.9	Functional Survival	1.8
Protein kg/%	33/3.9	Calving Difficulty (cow)	0.8
SCC	-0.01	Gestation Length (days)	-9.4
Liveweight	56	Beta-Casein	A2/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Overall Opinion	0.52	
Conformation (100 daughters TOP tested)		
Udder Overall	0.17	
Dairy Conformation	0.65	

Australian Indices	Source: DataGene 05 Dec 2023		
BPI/REL %	203/67	ASI	147

518030 HOWSES ROCCO



$267/91% gBW REL

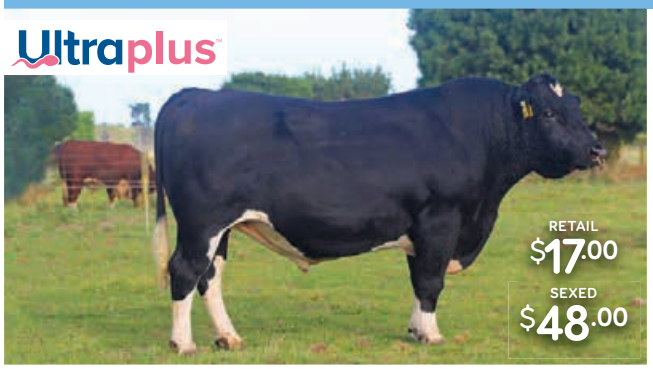
NASIS	NZGHOWSROCCO
Breed	F9J7
Pedigree	BRIMSTONE x MINT-EDITION

NZ Breeding Values			116 Daughters
Milk Volume (litres)	462	Fertility %	0.5
Fat kg/%	10/4.5	Functional Survival	1.8
Protein kg/%	30/4.0	Calving Difficulty (cow)	1.0
SCC	-0.29	Gestation Length (days)	-7.6
Liveweight	3	Beta-Casein	A1/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Overall Opinion	0.36	
Conformation (103 daughters TOP tested)		
Udder Overall	1.00	
Dairy Conformation	0.43	

Australian Indices	Source: DataGene 05 Dec 2023		
BPI/REL %	183/64	ASI	120

518053 PAYNES PROMINENCE-ET



$446/91% gBW REL

NASIS	NZGPROMINENC
Breed	F12J4
Pedigree	TECHNICIAN x DAREDEVIL

NZ Breeding Values			111 Daughters
Milk Volume (litres)	716	Fertility %	3.1
Fat kg/%	42/4.9	Functional Survival	3.5
Protein kg/%	39/4.0	Calving Difficulty (cow)	0.0
SCC	-0.29	Gestation Length (days)	-6.1
Liveweight	24	Beta-Casein	A1/A2

NZ Evaluation Data		Traits other than production
Management	gBV	-0.5 0 0.5 1.0
Overall Opinion	0.33	
Conformation (98 daughters TOP tested)		
Udder Overall	0.31	
Dairy Conformation	0.37	

Australian Indices	Source: DataGene 05 Dec 2023		
BPI/REL %	336/64	ASI	203

19/01/2024

All Bulls

Page Number	NZ AB Code	Bull Name	Price Retail	Breed	Beta Casein	gBW/Rel %	Milk Volume (litres)	Fat kg	Protein kg	SCC	Fertility %	Functional Survival	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length (days)	Liveweight	Overall Opinion	Stature	Capacity	Udder Overall	Dairy Conformation	VMSI
KiwiCross®																						
	523004	PAYNES **SORCERER**-ET	$27	F9J7	A2/A2	667 / 47	381	60	38	-0.39	7.0	6.2	-1.2	-1.2	-6.5	-19	0.68	-0.48	0.45	0.61	0.32	1665
	523022	BUELIN **ORAN**	$27	J9F7	A2/A2	615 / 53	433	69	44	-0.09	6.5	3.4	-0.6	-0.2	-2.7	42	0.68	0.67	0.11	0.62	0.29	1673
	523092	PLATEAU **DEMBE**	$27	F9J7	A2/A2	599 / 46	499	67	40	-0.41	4.5	3.8	0.8	-0.1	0.9	27	0.23	0.31	0.62	0.98	0.70	1677
46	519034	GORDONS **FLASH-GORDON** *	$25	F8J8	A1/A2	569 / 91	996	59	52	0.03	2.8	3.8	-0.3	0.5	3.7	16	0.35	0.24	0.34	0.46	0.50	1586
	523078	RHANTANA **ZEPPELIN**	$27	F10J6	A2/A2	563 / 46	313	53	30	-0.48	10.3	2.9	-0.7	-0.3	-5.8	12	0.37	0.06	0.49	1.05	0.41	1588
	522077	TATAWAI **WRESTLER**-ET	$27	F9J7	A2/A2	558 / 55	197	54	38	0.25	9.0	5.2	-0.6	-1.5	-5.8	44	0.79	0.09	0.78	0.34	0.56	1547
	522069	BENTONS **SECOND-CHANCE**	$27	F11J5	A2/A2	548 / 53	496	67	41	0.08	3.9	2.3	3.2	-1.1	-1.9	56	0.66	0.47	0.92	0.50	0.83	1572
	523075	ARKANS **GAMBLER**	$27	F10J6	A2/A2	591 / 47	98	56	32	0.00	9.7	3.9	-0.1	-0.5	-7.1	3	0.31	-0.17	0.28	0.87	0.25	1462
49	519023	PAYNES **PUBLISHER**-ET *	$25	F11J5	A2/A2	510 / 97	704	50	51	-0.09	2.4	3.0	2.5	-0.7	-3.1	62	0.52	0.38	0.66	0.51	0.66	1550
50	520091	MARSHALL **PAPAMOA** *	$25	J10F6	A1/A2	501 / 88	-14	49	22	-0.24	4.0	5.0	-2.4	-1.2	-1.6	-2	0.33	-0.47	0.51	1.15	0.55	1526
47	519089	SCHRADERS **TRADER** *	$21	F10J6	A2/A2	489 / 88	1351	66	51	0.38	0.6	3.4	0.6	-0.4	-11.3	43	0.25	0.54	1.12	0.05	1.10	1531
51	520068	MORGANS **MALAWI**	$25	F12J4	A2/A2	470 / 86	868	64	35	0.24	4.0	4.8	1.8	-0.2	-3.5	44	0.30	0.27	0.28	0.52	0.36	1510
59	518053	PAYNES **PROMINENCE**-ET *	$17	F12J4	A1/A2	446 / 91	716	42	39	-0.29	3.1	3.5	4.1	0.0	-6.1	24	0.33	-0.10	0.52	0.31	0.37	1454
52	519072	RHANTANA **OUTLOOK**-ET *	$19	F11J5	A2/A2	431 / 88	718	39	52	0.46	3.9	1.7	5.5	3.3	-1.3	64	0.59	0.28	1.18	0.13	1.08	1433
47	520033	DOWSON **HONENUI**-ET *	$25	J9F7	A2/A2	420 / 92	-443	44	21	0.33	9.3	4.6	-1.3	0.0	0.0	51	0.66	0.34	0.73	1.10	0.64	1504
53	519020	PAYNES **PROFESSOR**-ET *	$21	F11J5	A2/A2	418 / 88	1354	54	54	-0.06	-0.8	3.4	0.5	0.0	-4.8	81	0.38	0.48	0.99	0.49	0.99	1485
58	517001	ARKANS **PATRIARCH**-ET *	$17	F10J6	A1/A2	391 / 98	-21	31	14	0.12	8.0	2.5	-0.4	-1.0	-4.2	-27	0.38	-0.43	0.24	0.92	0.37	1380
56	511011	PRIESTS **SIERRA**	$19	F11J5	A2/A2	384 / 99	507	44	30	-0.17	5.0	3.3	2.7	0.4	-6.6	41	0.48	0.49	0.55	0.39	0.60	1421
57	515017	LYNBROOK **KARTELL**	$19	J8F7A1	A1/A2	383 / 99	107	31	25	0.34	7.4	3.0	-1.0	-0.9	-4.7	-13	0.22	-0.54	0.47	0.49	0.32	1383
48	520058	PAYNES **PASSENGER**-ET	$21	F12J4	A1/A2	374 / 86	902	25	40	-0.35	10.1	6.4	0.3	-0.6	-9.8	56	0.50	0.62	0.26	1.18	0.46	1453
52	515025	SPEAKES **SLIPSTREAM** ET	$21	J10F6	A2/A2	374 / 99	-86	36	15	0.13	6.6	3.1	0.1	-0.1	1.0	-6	0.23	0.04	0.49	0.82	0.45	1392
57	519030	SECRETERRY **SCRIPT**-ET	$19	J9F7	A1/A2	372 / 90	491	38	26	-0.11	0.8	2.3	-1.3	0.7	-3.8	-14	0.38	-0.15	0.50	0.27	0.61	1368
55	518061	INNOVATION **HOMEBREW** *	$19	F9J7	A2/A2	368 / 98	-245	38	15	0.18	4.1	3.9	0.4	-0.6	-7.3	40	0.40	-0.03	0.68	0.56	0.59	1348
55	518016	HORIZON **ASCOTT** *	$21	F9J7	A2/A2	367 / 98	-9	27	21	0.13	2.4	4.7	-1.4	-0.7	-5.3	-10	0.29	-0.47	0.47	1.02	0.37	1397
54	519061	ARKANS **BAILIFF** *	$21	F9J7	A1/A2	366 / 89	319	29	18	-0.52	10.6	5.4	-0.3	-0.3	-1.5	2	0.60	0.01	0.68	0.35	0.66	1350
48	519062	ARKANS **BARRIER**	$21	F9J7	A2/A2	348 / 97	-194	30	15	0.18	6.6	2.1	3.0	0.1	-3.8	20	0.27	-0.35	0.96	0.69	0.80	1332
59	513098	ARKANS **BOUNTY**	$15	J11F5	A1/A2	343 / 99	427	26	29	-0.07	-1.0	3.0	0.5	0.0	0.6	-7	0.28	-0.36	0.70	0.66	0.77	1341
56	518068	MORGANS **MOONSHINE** *	$19	F11J5	A1/A2	339 / 91	378	19	30	-0.77	4.1	2.7	1.0	0.4	-6.0	24	0.43	0.00	0.45	0.42	0.45	1345
58	517041	LUCK-AT-LAST **EMPEROR**-ET	$17	F10J6	A1/A2	336 / 91	247	28	24	-0.21	1.1	5.4	0.8	0.1	-1.8	26	0.29	-0.11	0.43	1.09	0.63	1384
59	518017	HORIZON **BARNSTORMER**-ET	$17	F8J8	A2/A2	309 / 98	694	42	33	-0.01	0.7	1.8	3.3	0.8	-9.4	56	0.52	0.33	0.90	0.17	0.65	1360
59	518030	HOWSES **ROCCO** *	$17	F9J7	A1/A2	267 / 91	462	10	30	-0.29	0.5	1.8	3.0	1.0	-7.6	3	0.36	-0.29	0.59	1.00	0.43	1323
KiwiCross® also available																						
	518038	WERDERS **PREMONITION**	$19	F8J8	A2/A2	470 / 98	-54	58	22	-0.29	1.1	3.3	0.4	-0.3	-7.4	27	0.54	-0.23	0.69	0.67	0.73	1506
	517042	LUCK-AT-LAST **INSPIRED**-ET	$17	F9J7	A2/A2	416 / 99	414	44	25	-0.10	0.6	2.3	0.1	-0.3	-6.3	-4	0.32	-0.65	0.67	0.65	0.55	1420
	517055	TARAMONT **SPRINGTIDE**	$17	F10J6	A2/A2	390 / 98	935	49	46	0.46	-1.6	0.7	0.3	-0.3	-10.4	47	0.54	0.29	0.97	0.94	1.09	1525
	513063	JERSEYDALE **NO2WAYS**	$13	J12F4	A2/A2	385 / 92	-52	28	13	-0.35	8.0	1.5	-3.3	-1.8	-3.3	-64	0.27	-0.47	-0.06	0.11	-0.03	1348
	508140	HOWIES **EASYRIDER**	$13	J9F7	A1/A2	337 / 99	-76	34	13	0.24	4.9	2.1	-1.5	-0.5	-3.2	-10	0.03	-0.65	0.76	0.23	0.54	1295
	517026	HOWSES **SPRINGFIELD**	$15	F9J7	A2/A2	306 / 99	-483	25	8	-0.75	1.1	1.5	-0.9	-0.6	-2.3	4	0.23	-0.02	0.83	0.44	0.63	1320
	514014	GREENWELL **BREAKTHROUGH** ET	$13	F13J3	A2/A2	297 / 98	448	25	29	-0.04	3.2	2.5	0.1	-0.3	-4.4	18	0.64	0.43	0.18	0.56	0.23	1345
	512050	ARKANS **PERSPECTIVE**-ET	$13	F8J8	A1/A2	284 / 99	146	26	17	0.12	5.3	0.9	-0.1	-0.2	-3.3	-5	0.06	-0.17	0.30	0.31	0.36	1272
	511052	MOODYS **EXECUTIVE**	$12	J10F6	A2/A2	265 / 99	417	13	27	-0.13	2.3	1.0	-0.7	-0.3	-3.5	-7	-0.04	-0.50	0.83	-0.13	0.53	1202
	511031	RIVERVIEW **RAIDER**	$12	J10F6	A2/A2	221 / 99	137	12	20	-0.03	2.8	2.2	0.1	0.5	5.4	-1	0.28	-0.06	0.26	0.28	0.18	1242
	507086	WOODS **EQUINOX**	$12	J9F7	A2/A2	163 / 99	-94	15	11	0.20	1.3	3.3	-1.1	-1.1	-2.8	2	0.24	0.01	0.32	0.24	0.40	1185

Page Number	NZ AB Code	Bull Name	Price Retail	Breed	Beta Casein	gBW/Rel %	Milk Volume (litres)	Fat kg	Protein kg	SCC	Fertility %	Functional Survival	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length (days)	Liveweight	Overall Opinion	Stature	Capacity	Udder Overall	Dairy Conformation	VMSI
Ayrshire																						
61	515503	IWA SUPER **SONIC**	$17	A16	A2/A2	72 / 96	319	19	6	-0.39	-4.6	0.7	-0.8	0.0	-1.9	23	0.25	-0.26	0.35	0.60	0.35	1125
61	510544	PA HILL BRODY **IVO** ET	$17	A16	A1/A2	-4 / 94	255	0	9	-0.31	-8.0	0.9	-0.5	-0.5	-1.6	2	0.23	-0.79	0.22	-0.07	0.01	1018
61	514613	TE MATAI **ELVIS**	$17	A16	A1/A2	-13 / 98	267	-9	3	-0.12	1.1	1.6	0.1	-1.2	-1.8	2	0.25	-0.81	0.36	-0.08	0.15	951
Ayrshire also available																						
	504522	SOUTHWIND **JARMO**	$12	A16	A1/A2	71 / 98	403	17	11	0.04	-5.9	-2.4	-1.1	-1.3	-2.1	-18	-0.15	-0.25	0.00	-0.20	-0.09	1084
	507515	MAYO RF **QUINNELLA**	$12	A16	A1/A2	13 / 98	386	21	5	-0.01	-9.3	-1.0	-2.0	-1.5	-3.5	-6	0.32	-0.68	0.19	-0.28	-0.03	1009

* Sexed semen is offered for Single AI use only. See page 9 for more information.

19/01/2024

2024

Ayrshire

515503 IWA SUPER SONIC

gBW $72/96% REL

NASIS	NZGSUPASONIC
Breed	A16
Pedigree	GEORGE x TOSIKKO

NZ Breeding Values — 1051 Daughters

Milk Volume (litres)	319	Fertility %	-4.6
Fat kg/%	19/4.8	Functional Survival	0.7
Protein kg/%	6/3.7	Calving Difficulty (cow)	0.0
SCC	-0.39	Gestation Length (days)	-1.9
Liveweight	23	Beta-Casein	A2/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	0.25				
Conformation (374 daughters TOP tested)					
Udder Overall	0.60				
Dairy Conformation	0.35				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	308/67	ASI	259

514613 TE MATAI ELVIS

gBW $-13/98% REL

NASIS	NZGMATELVIS
Breed	A16
Pedigree	PHILLIP x PEPPERNIKE

NZ Breeding Values — 1534 Daughters

Milk Volume (litres)	267	Fertility %	1.1
Fat kg/%	-9/4.3	Functional Survival	1.6
Protein kg/%	3/3.6	Calving Difficulty (cow)	-1.2
SCC	-0.12	Gestation Length (days)	-1.8
Liveweight	2	Beta-Casein	A1/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	0.25				
Conformation (291 daughters TOP tested)					
Udder Overall	-0.08				
Dairy Conformation	0.15				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	116/65	ASI	125

510544 PA HILL BRODY IVO ET

gBW $-4/94% REL

NASIS	NZGHILLIVO
Breed	A16
Pedigree	BRODY x KIEKKO

NZ Breeding Values — 240 Daughters

Milk Volume (litres)	255	Fertility %	-8.0
Fat kg/%	0/4.5	Functional Survival	0.9
Protein kg/%	9/3.8	Calving Difficulty (cow)	-0.5
SCC	-0.31	Gestation Length (days)	-1.6
Liveweight	2	Beta-Casein	A1/A2

NZ Evaluation Data — Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	0.23				
Conformation (80 daughters TOP tested)					
Udder Overall	-0.07				
Dairy Conformation	0.01				

Australian Indices — Source: DataGene 05 Dec 2023

BPI/REL %	238/61	ASI	212

19/01/2024

Heat Detection

Effective heat detection leads to higher AI success, which gives you more cows in-calf, a tighter calving pattern and extra milk in the vat, improving productivity and profitability for your farm.

LIC Scratch Patch

LIC Scratch Patch heat detectors are cost-effective and efficient aids. When mating activity occurs the silver layer rubs off to reveal a fluorescent colour.

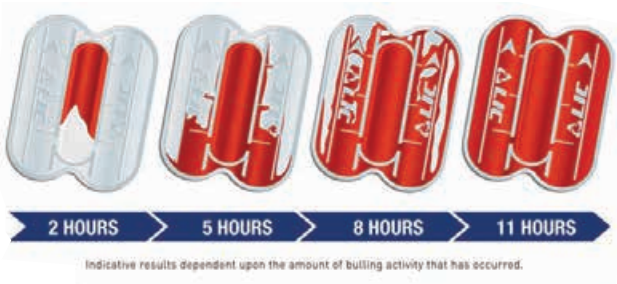
- Multiple colours allow for multiple rounds of heat detection.
- Friction based technology helps indicate the approximate level of mating that has occurred.

Available in 5 fluorescent, easy-to-spot colours – red, yellow, pink, green, blue.

Pack of 50

LIC Heat Patch Plus

LIC Heat Patch Plus heat detection aids are our premium patches for easy and accurate identification. The technology enables the dye to bleed right to the edges making them highly visible and indicating the length of time a cow has been on heat.



- Dye can spread right to the edges of the patch for greater visibility and accuracy.
- Self-adhesive - no glue required.
- Four-second time-release technology to help identify true standing heats.

Available in 3 colours: red, pink & blue.

Pack of 50

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LIC® LIVESTOCK IMPROVEMENT

Terms and Conditions

Subject to any further terms and conditions imposed by LIC Australia from time to time, all LIC Semen produced or supplied by LIC Australia (directly or indirectly) is supplied subject to the following terms and conditions:

Definitions

1 For the purpose of these terms and conditions, the following words have the following meanings:

LIC Australia means Livestock Improvement Pty Ltd (ABN 15 096 186 113).

LIC NZ means Livestock Improvement Corporation Limited (NZBN 9429039566119).

LIC Semen means semen produced or supplied (directly or indirectly) by LIC Australia.

SGL™ Offspring means male or female offspring or descendants of matings using SGL™ Product.

SGL™ Product means the LIC Semen short gestation length product marketed or specified by LIC Australia as SGL™ semen which is intended to enable cows that are mated with this semen to calve earlier than would otherwise be the case.

Acknowledgement of LIC's Rights

2 The Client acknowledges that LIC NZ is the sole proprietor (or authorised licensee) of all intellectual property rights contained in all LIC Semen. LIC Australia is an authorised Licensee of LIC NZ with respect to the production or supply of LIC Semen in Australia.

Restrictions on use of LIC Semen

3 When supplying the Client with LIC Semen, LIC Australia grants to the Client a non-assignable, non-exclusive one-off licence (such licence otherwise on usual industry terms) for the sole purpose of the artificial insemination of animals in Australia and ordinarily in the Client's own Herd.

4 The Client undertakes that the LIC Semen will not be used for any purpose other than the artificial insemination of animals in Australia and ordinarily in the Client's Herd and the Client further undertakes that the Client will not use or transport such LIC Semen outside of Australia or provide, procure or permit the use of, access to or possession of such LIC Semen by any other person within Australia (other than a director or an officer, employee or agent of the Client acting in that capacity).

5 Without limiting clauses 3 and 4 above, the Client acknowledges and agrees that:

a the restraints in clauses 3 and 4 do not prevent the Client from using LIC Semen or providing such LIC Semen to a third party for the purpose of performing or undertaking an embryo transfer reproductive process on animals ordinarily in the Client's Herd; and

b in the case of SGL™ Product, the relevant LIC Semen is supplied solely to facilitate a gestation period which is intended to be shorter than the usual gestation period.

6 The Client shall not, except with LIC Australia's prior written permission, source, purchase or acquire any LIC Semen from any person who is not LIC Australia or LIC NZ, an authorised agent or distributor of LIC or otherwise deal in or use in any way for any purpose any LIC Semen sourced, purchased or acquired from such a person.

Restrictions Relating to Offspring from LIC Semen

7 The Client must not, except with LIC Australia's prior written permission, directly or indirectly:

a advertise for sale or supply, or sell or otherwise supply, or collect, deal in or use in any way for any purpose, any semen from any first-generation male offspring of matings using LIC Semen (Offspring); or

b use the Offspring or allow the Offspring to be used in circumstances where the Offspring are used or may be used for the collection of semen; or

c provide access to or possession of or dispose of the Offspring (whether born or unborn) to any person (other than a director or an officer, employee or agent of the Client, acting in that capacity) (Transferee) in circumstances where the Offspring will or may be used for the collection of semen, without first entering into a written agreement with the Transferee requiring the Transferee to observe the same obligations of the Client under this clause 7 as if the Transferee were the Client. Any breach of that requirement by the Transferee (or any subsequent transferee) will, for the purpose of this clause 7, be deemed to be a breach by the Client of this clause 7.

This restraint, which:

i does not prevent the use of the Offspring for natural matings; and

ii applies irrespective of the means by which the Client came into possession or control of any LIC Semen, Offspring or semen from Offspring;

is reasonably required to protect the value and viability of the LIC Australia and LIC NZ artificial breeding and genetics programme, which represents a substantial and long term investment in capital, research and development, and sire proving, and which is of strategic importance to the Australian and New Zealand dairy industries.

8 The Client acknowledges that the SGL™ Product embodies valuable LIC NZ intellectual property rights, and is sold solely for the purpose of facilitating short gestation length pregnancies and SGL™ Offspring must not be bred. To that end, the Client must not, except with LIC Australia's prior written permission, directly or indirectly:

a advertise for sale or supply, or sell or otherwise supply, or collect, deal in or use in any way for any purpose, any semen, embryo or other form of germplasm (SGL™ Germplasm) from any SGL™ Offspring; or

b use the SGL™ Offspring or allow the SGL™ Offspring to be used in circumstances where the SGL™ Offspring are used or may be used for the collection of SGL™ Germplasm; or

c use the SGL™ Offspring or allow the SGL™ Offspring to be used where the SGL™ Offspring, or the SGL™ Germplasm of the SGL™ Offspring, is mated with any other animal using any form of breeding or reproductive technology, including (without limitation) artificial insemination, embryo transfer or natural mating; or

d provide access to or possession of or dispose of the SGL™ Offspring (whether born or unborn) to any person (other than a director or an officer, employee or agent of the Client, acting in that capacity) (SGL™ Transferee) in circumstances where the SGL™ Offspring will or may be used for mating or the collection of SGL™ Germplasm without first entering into a written agreement with the SGL™ Transferee requiring the SGL™ Transferee to observe the same obligations of the Client under this clause 8 as if the SGL™ Transferee were the Client. Any breach of that requirement by the SGL™ Transferee (or any subsequent transferee) will, for the purpose of this clause 8, be deemed to be a breach by the Client of this clause 8.

The Client acknowledges that this restraint applies irrespective of the means by which the Client came into possession or control of any SGL™ Offspring and/or any SGL™ Germplasm and is reasonably required to protect the value and viability of the LIC Australia and LIC NZ artificial breeding and genetics programme, which represents a substantial and long term investment in capital, research and development, and which is of strategic importance to the Australian and New Zealand dairy industry.

Indemnity

9 The Client agrees to continuously indemnify LIC Australia and LIC NZ for all losses whatsoever caused to LIC Australia and LIC NZ, arising out of or flowing from the Client's breach of all or any part of clauses 2 to 8 above.

Livestock Improvement Pty Ltd

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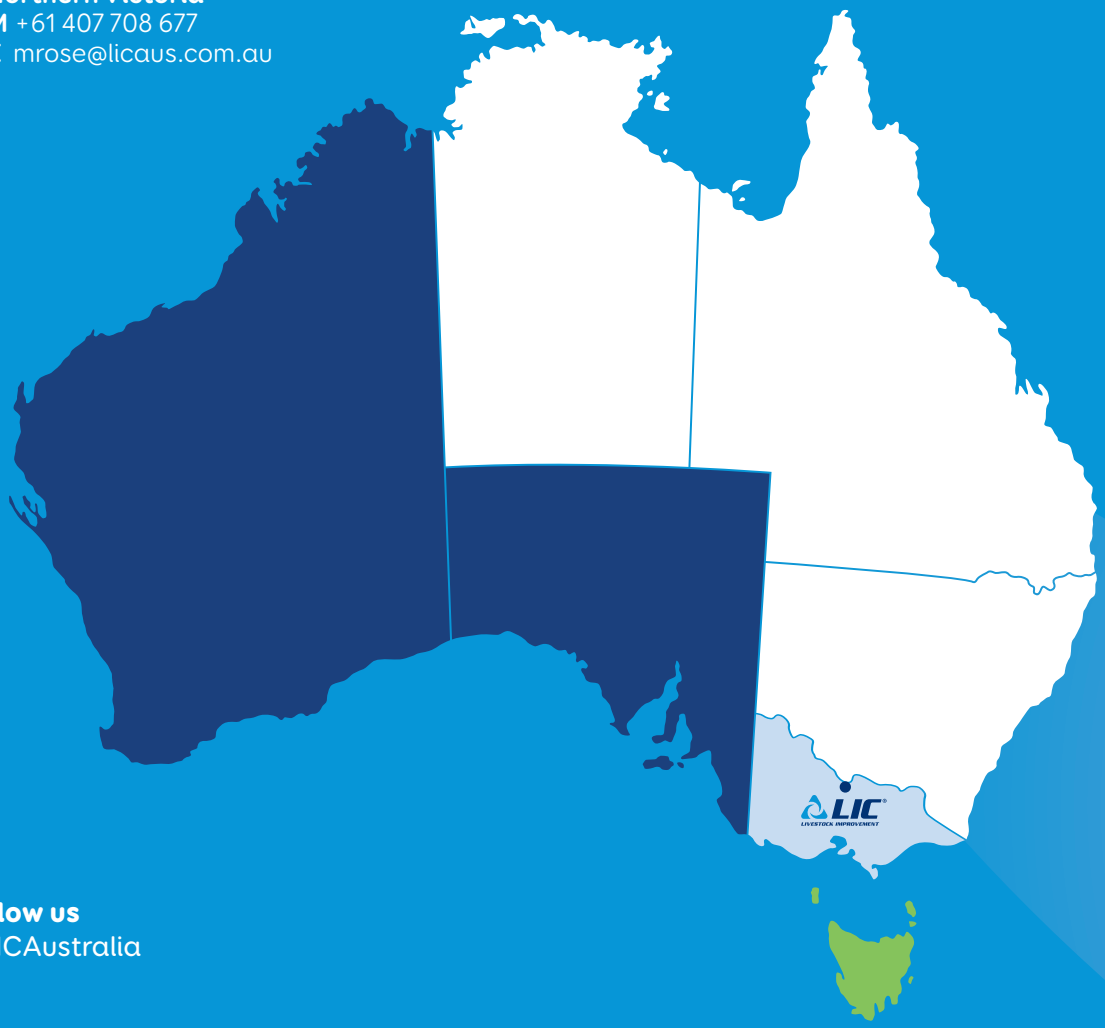

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