

# 2021

# Sire

# Catalogue



# LIC'S COMMITMENT TO THE FUTURE OF FARMING

It's my pleasure to both lead the LIC Australia team and present the 2021 LIC Australia Catalogue.

There are some exciting developments in the world of animal genetics and LIC is at the forefront of a number of these. We are now seeing genetics being used in new ways to help solve problems on farm not even thought of 25 years ago.

This year in Australia we launched the HoofPrint® index which allows farmers to breed cows that leave a smaller environmental impact in both emissions and excretion. Moving to lower environmental impact dairying will take a multi-prong approach and producing profitable and environmentally sustainable dairy cows is one tool in the toolbox that can be used. More on the HoofPrint® index can be seen on page 11.

Along with the HoofPrint® index, LIC will market a greater range of genomic bulls in 2021. This is on the back of the improved results and increased consistency we are seeing from genomic to daughter proven. LIC continues to operate one of, if not the largest, sire proving schemes in the world, testing around 180 bulls every year which helps validate genomic sires and gives us a huge pool of around 360 bulls to select the very best from. Having this large group allows us to really hone in on the traits Australian dairy farmers are wanting. High production, strong udders, A2A2, easy calving and management, and outcross options are all areas we target when selecting our genomic sires, ensuring we bring in the very best.

2020 saw sexed semen surge in demand and this year LIC has more bulls to choose from. We also have a useful sexed semen calculator which can show how many extra heifers sexed semen may deliver and at what cost. If this is something you are interested in, get in touch with your District Manager to run through it.

Lastly, I would like to thank farmers, service providers and the greater LIC team for the continued support and at times patience from what was a trying 2020. Covid presented many challenges, and it took a real team effort to get product to farmers at the right place and time. Let's hope 2021 can see most areas come back to normal, with a few less Zoom meetings and more face-to-face interactions.

Happy Farming



**Mike Rose**  
Australian Country  
Manager

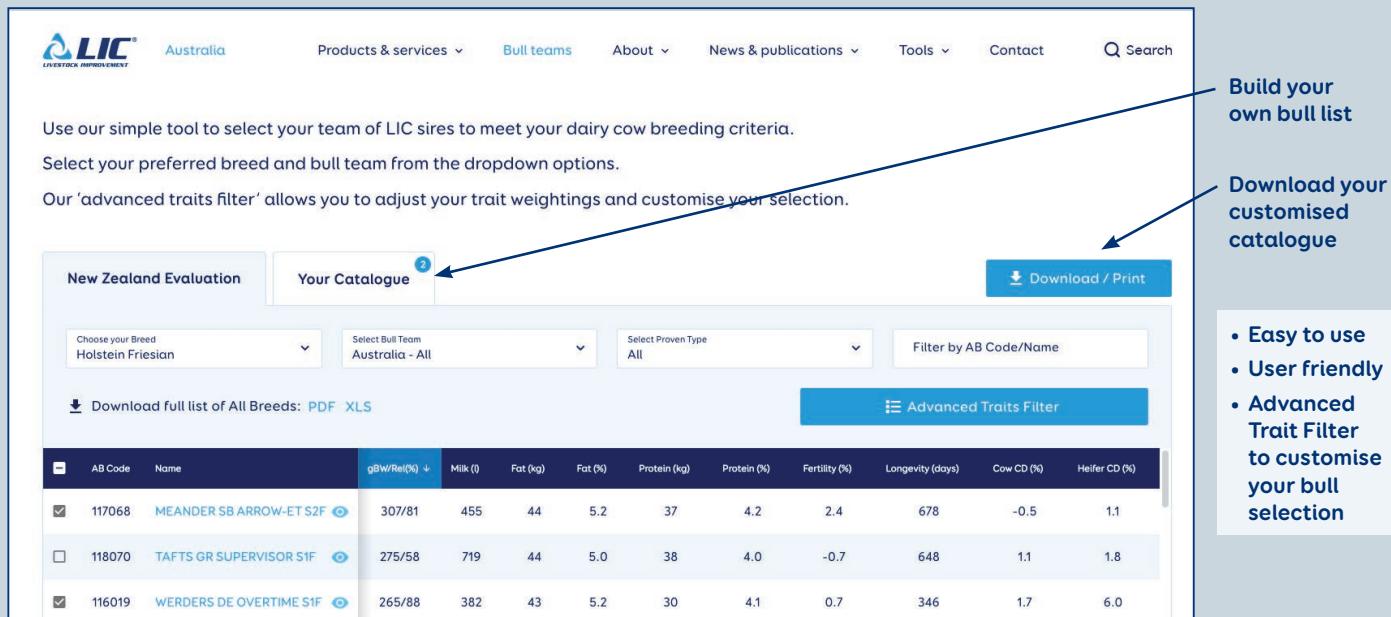


## NEW BULL SELECTION TOOL - NOW LIVE!

An exciting development for our farmers is the new bull selection tool now available on our website. This simple tool allows you to customise your team of LIC sires by using the 'advanced traits filter' where you can adjust trait weightings based on your dairy cow breeding criteria.

**Head to the licnz.com.au website and try it out today!**

Click on 'Bull teams' and see for yourself how easy and customisable this tool is.



Build your own bull list

Download your customised catalogue

- Easy to use
- User friendly
- Advanced Trait Filter to customise your bull selection

# CONTENTS

	PAGE		PAGE		
<b>Holstein Friesian</b>	<b>12</b>	<b>KiwiCross®</b>	<b>44</b>		
ARROW	117068	13	SPRINGFIELD	517026	45
SUPERVISOR	118070	14	BARNSTORMER	518017	46
ARENA	119064	14	PROFESSIONAL	518072	46
BACKDROP	116036	15	BARRIER	519062	47
EXCELLENT	119012	15	MULTIPLIER	520008	47
VECTOR	114007	16	PATRIARCH	517001	48
GAUNTLET	113086	17	BOOMBOX	516043	49
LANCELOT	115021	18	INSPIRED	517042	50
GAMBIT	117035	19	SIERRA	511011	51
MANDATE	116065	20	CRITICAL	516074	52
SAMBA	117090	21	INFERNO	516066	53
OVERTIME	116019	22	SLIPSTREAM	515025	54
FIRE-UP	112080	23	EMPEROR	517041	54
MAXIMA	113120	23	KARTELL	515017	55
BEAMER	111037	24	SPRINGTIDE	517055	55
ALAMO	116078	24	SOVEREIGN	511051	56
RESONATE	115046	25	GAMEPLAN	515062	56
APPROVE	116060	25	PERSPECTIVE	512050	57
HOTHOUSE	110080	26	BOUNTY	513098	57
GO-GETTER	117015	26	COOPER	512005	58
BOMBER	113117	27	TUSK	513074	58
HUSTLER	114041	27	EPIC	514018	58
GRAVITY	114123	28	TAKE NOTE	514056	58
CYCLONE	115062	28			
SWEET AS	115080	29			
ESCALADE	116066	29			
LEGACY	111057	30			
LONESTAR	112033	30	<b>Ayrshire</b>	<b>61</b>	
BOSS	113014	31	SONIC	515503	61
BANDITO	114023	31	IVO	510544	62
GOLDDIGGER	114057	31	ELVIS	514613	62
WINGMAN	115054	31			
<b>Jersey</b>	<b>34</b>	<b>Further Information</b>			
HOSS	315045	35	Message from LIC Australia	2	
TRIGGER	315029	36	Understanding NZ Bull Data	4-5	
SUPERMAN	318009	36	Our Genetics, Achievements and Future	6	
GALLIVANT	316039	37	DIY AI Training	7	
DEXTER	315009	38	Once-A-Day	8	
TENOR	317006	39	Beef Options	9	
FLOYD	314004	40	Sexed Semen	10	
LEOPARD	314012	40	What Is HoofPrint®?	11	
INTEGRITY	311013	41	Terms and Conditions	63	
BRAHMS	312004	41	New Zealand Breed Averages	63	
FRANKIE	312014	41	Heat Detection / Tags	64	
CONRAD	312057	41	Contacts		
				back page	

## 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 by contacting our LIC Australia office 1800 454 694 or your local LIC Australia representative.

# 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 the Australia and around the world select genetics from multiple breeds for optimal herd performance, it is important for farmers to understand how an animal should perform within the whole herd, not just within one breed of the herd.

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

## Traits Other than Production

### Assessing the Animal

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

1	2	3	4	5	6	7	8	9
← Undesirable					Average	Desirable →		

### Data Processing

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

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

FARMER SCORED MANAGEMENT TRAITS Sire Proving farmers score two-year-old heifers on the four farmer traits	Low Score	High Score	Base Cow Average
<b>Adaptability to Milking</b> - describes how soon the heifer settled into the milking routine after calving	slowly	quickly	6.12
<b>Shed Temperament</b> - describes the temperament of the heifer in the farm dairy while being handled and milked	nervous	placid	6.28
<b>Milking Speed</b> - describes the milking speed of the heifer	slow	fast	6.33
<b>Overall Opinion</b> - describes the farmer's overall acceptance of the heifer as a herd member	undesirable	desirable	6.57
INSPECTOR SCORED CONFORMATION TRAITS			
<b>Stature</b> - describes the height at the shoulders of the heifer in five centimetre bands	small	tall	5.75
<b>Capacity</b> - describes depth and width of chest and body in relation to the physical size of the heifer	frail	capacious	6.34
<b>Rump Angle</b> - describes the angle of a line between the centre of the hips and the top of the pins	high pins	sloping	4.79
<b>Rump Width</b> - describes the distance between the pins bones, relative to size of the animal	narrow	wide	6.17
<b>Legs</b> - describes the straightness or curvature of the back legs while the heifer is walking	straight	curved	6.18
<b>Udder Support</b> - describes the strength of the suspensory ligament, and the udder depth relative to the hocks	weak	strong	6.02
<b>Front Udder</b> - describes the attachment of the front udder to the body wall	loose	strong	5.70
<b>Rear Udder</b> - describes the height and width of the rear udder attachment	low	high	5.76
<b>Front Teat Placement</b> - describes the placement of the front teats relative to the centre of the quarters	wide	close	4.53
<b>Rear Teat Placement</b> - describes the placement of the rear teats relative to the centre of the quarters	wide	close	5.84
<b>Udder Overall</b> - assesses the desirability of all traits pertaining to the udder	undesirable	desirable	5.71
<b>Dairy Conformation</b> - assesses the desirability of all traits pertaining to dairy conformation, but excluding udder traits	undesirable	desirable	6.45

## Base Cow

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

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

## Base Cow Production

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

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

# HOW TO READ A SIRE PAGE

## gBW/Rel

Using this bull at a gBW of 240 indicates that per 5T DM the replacements are expected to generate NZD 240 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 1024 litres indicates the bull daughters will on average produce 512 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 42 kg indicates that the bull will produce daughters which on average, are genetically superior to the base cow by 21 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 0.85 the raw score for his daughters on average is expected to be  $6.28 + 0.44 = 6.72$  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 breed, stature for Jerseys is usually negative and Holsteins is usually positive.



## 114007 BUSY BROOK WTP VECTOR S3F

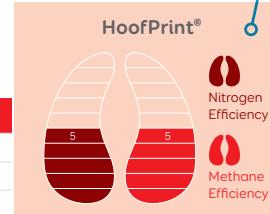
**\$240/87% REL**

### Breeding Details

NASIS NZGBBVECTOR

Breed F16

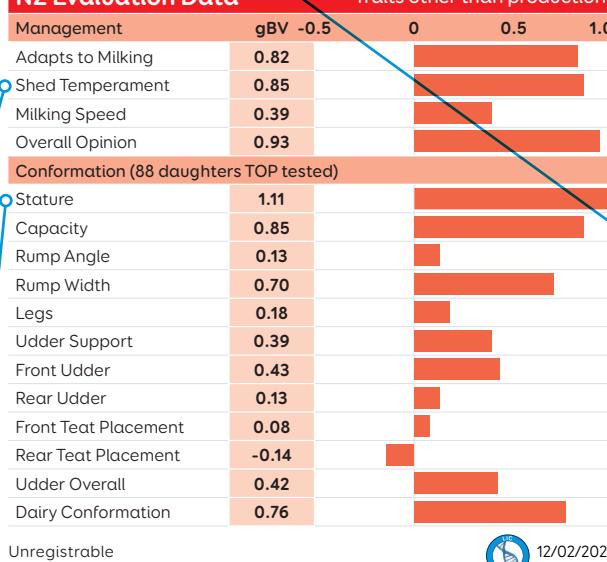
Pedigree TE POI x GOLDEN BOY



### NEW ZEALAND DETAILS

NZ Breeding Values		102 Daughters	
Milk Volume (litres)	1024	Fertility %	8.2
Fat kg	44	Body Condition Score	0.45
Fat %	4.7	Total Longevity (days)	610
Protein kg	42	Calving Difficulty (cow)	0.0
Protein %	3.8	Calving Difficulty (heifer)	0.7
SCC	-0.27	Gestation Length (days)	-1.9
Liveweight	95	BetaCasin	A1A1

### NZ Evaluation Data



### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %	404/66	Survival	105
ASI	225	Daughter Fertility	117
HWI	460	Calving Ease	103
Milk	-124	Overall Type	93
Fat kg	30	Mammary System	88
Protein kg	22	SCC	107

## HoofPrint®

New environmental measure. More info on pg 11.



## Fertility

A gBV of 8.2% indicates that 4.1% 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.

## Longevity

A gBV of 610 days indicates the bull's daughters are expected to last in the herd for 305 days longer, compared to a bull of 0 days. The average number of New Zealand lactations is now 5.5.

## Calving Difficulty

A sires Calving Difficulty gBV compares the percentage of assisted calvings expected when he is mated to yearling heifers, compared to a bull of 0.

## Liveweight

A gBV of 95 kg indicates by using this sire over the average cow in New Zealand his daughters are expected to have a mature liveweight 47.5 kg heavier than the base cow of 500 kg. Because Breeding Values (gBV) are calculated across breed 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.

# 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 farmers have a high cow per labour unit ratio, so it is crucial that the kiwi cow is a no-fuss, easy care animal

## Strong Udders

NZ cows complete 5 lactations on average in their lifetime, reaching peak lactation

## Productive

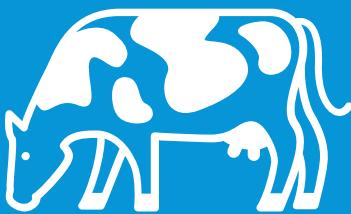
NZ cows average 4.8% fat and 3.8% protein, with many achieving 1kg milk solids from 1kg liveweight

## Efficient

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

## Long Living

NZ cows live for seven years on average, around twice as long as a USA cow



## Robust

NZ cows are fit to walk to and from the milking shed everyday, 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 genetics are tested across hundreds of commercial herds to prove they can produce profitable cows

# OUR ACHIEVEMENTS

- Three out of four New Zealand dairy cows are sired by an LIC bull
- Over 10 million milk samples are analysed by LIC each year and information is added to proof of sire
- Over 4.9 million dairy animals recorded on one national database
- 5 million straws of semen are dispatched all over New Zealand during spring mating season
- Over 1 million frozen semen straws were sold internationally in the 2019-2020 season
- We export to over 20 countries worldwide
- Over 6.3% of revenue invested in research and development in the 2019-2020 year

# OUR FUTURE

Whatever the challenges of the times or the marketplace, our job will remain the same.

That job is to continue to improve the genetics of dairy cows globally, improve the information that farmers have and the way they use it, and improve profitability through smart and innovative technology.

**There's always room for improvement.**

# 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 Colleen Mourie on +61 429 944 169 or [cmourie@licaus.com.au](mailto:cmourie@licaus.com.au)



# ONCE-A-DAY

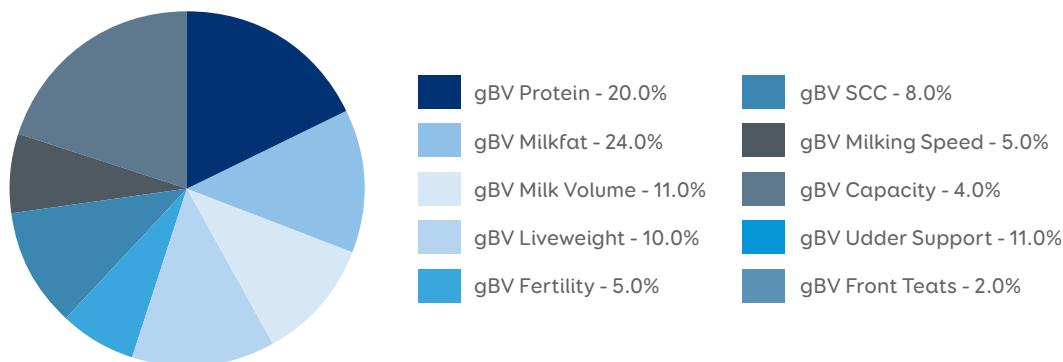
Once-A-Day (OAD) milking may be used exclusively as the overall farming system, or strategically for part of the herd or for shorter periods during the season.

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

The index has a strong correlation to Breeding Worth (gBW) as well as four functional traits that are required in a desirable OAD cow: Capacity, Udder Support, Front Teat Placement and Milking Speed. The graph shows the weighting of the traits within the OAD Index, in addition to the existing eight traits of gBW.

## What makes up LIC's OAD Index?

The OAD index allows animals to be compared based on their suitability for OAD systems. The index increases based on the animal's suitability to OAD. Unlike gBW, the OAD index does not represent an economic value of the animal's productive performance or ability to breed profitable replacements. The graph shows the weighting of the traits within the OAD Index, in addition to the existing eight traits of gBW.



## Once-A-Day Team

BullCode	Name	OAD	gBW	Rel%	Milk Volume (litres)	Fatkg	Protein kg	SCC	Fertility %	Heifer Calving Difficulty	Cow Calving Difficulty	Capacity	Udder Overall	Page Number
<b>Holstein Friesian</b>														
117015	DICKSONS GF GO-GETTER-ET	1340	229	78	1301	59	55	-0.16	-4.9	5.6	2.2	1.40	0.65	26
117068	MEANDER SB ARROW-ET S2F	1318	307	81	455	44	38	0.29	2.4	1.1	-0.5	0.25	0.68	13
119064	MEANDER MG ARENA-ET S3F	1295	209	61	1137	44	45	0.38	2.1	2.7	0.8	0.83	1.13	14
114057	MAIRE FI GOLDDIGGER	1290	167	88	1087	44	41	-0.05	-2.2	5.0	0.6	0.94	1.18	31
116019	WERDERS DE OVERTIME S1F *	1289	265	88	382	43	31	0.61	0.7	6.0	1.7	0.16	0.53	22
<b>Jersey</b>														
318009	TIRONUI SUPERMAN ET	1326	345	63	-445	42	15	-0.01	1.5	-1.8	0.0	0.42	0.75	36
316039	ULMARRATT GALLIVANT *	1298	344	87	-242	47	14	0.00	2.8	-1.5	-2.1	0.64	0.62	37
315029	THORNWOOD DEGREE TRIGGER	1293	298	94	-453	31	7	-0.17	2.5	-1.7	-1.0	0.71	1.26	36
313023	CRESCENT EXCELL MONOPOLY	1292	333	87	-494	37	9	0.01	0.5	-1.6	-1.0	0.42	0.46	42
315045	GLENUI DEGREE HOSS ET *	1283	324	88	-400	32	9	-0.36	4.7	-1.5	-0.7	0.30	0.63	35
<b>KiwiCross®</b>														
517055	TARAMONT SPRINGTIDE	1345	242	81	838	44	42	0.33	-0.6	0.0	-0.9	0.93	1.05	55
520008	JULIAN MULTIPLIER-ET	1337	335	56	232	41	29	-0.01	2.5	0.0	-0.3	0.69	0.91	47
517026	HOWSES SPRINGFIELD *	1329	327	80	-234	35	19	-0.94	4.6	-0.8	-0.7	0.91	0.52	45
516074	CROSSANS CRITICAL-ET	1318	290	90	888	38	38	-0.35	2.2	-0.7	-0.3	0.74	0.50	52
516066	WALTON INFERNO	1317	324	86	229	38	31	-0.56	1.6	-1.1	-0.9	0.31	0.34	53

\* Sexed semen is offered for Single AI use only, see page 10 for more information



12/02/2021

# BEEF OPTIONS

## Short Gestation Length (SGL) Hereford

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

With over 50 years of breeding behind it, Shrimpton's Hill Hereford stud has dedicated the last 20 years to breeding the dairy farmer must have - short gestation length and calving ease.

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



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



Code	Name	Birth Weight	Gestation Length	Yearling Weight	Carcass Weight
819116	SHRIMPTONS HILL 180034	+1.9	-10.3	+43	+43
		Top 15%	Top 1%	Top 90%	Top 80%
819119	SHRIMPTONS HILL 180038	+2.2	-9.4	+48	+48
		Top 20%	Top 1%	Top 80%	Top 65%

## SGL Angus

LIC have for many years been working with Rissington Cattle Company for the supply of Angus semen, which is selected for known traits that can make a real difference in cow herd profitability. The Angus herd has been in the Rissington family since 1936.

All animals are recorded on Breedplan and Leachman multibreed database of over one million animals.

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



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



Code	Name	Birth Weight	Gestation Length	Yearling Weight	Carcass Weight
721307	RISSINGTON 190356	+0.4	-9.3	+83	+67
		Top 5%	Top 5%	Top 55%	Top 35%
721306	RISSINGTON 190281	-1.3	-8.5	+81	+58
		Top 1%	Top 5%	Top 60%	Top 65%

## Speckle Park

Speckle Park originated from British White Park crossed with a Shorthorn/Angus, with over 60 years of breeding. They are polled, medium frame (mature cow 650-800 kg and mature bull 1000-1200 kg), early maturing and incredible yielding carcass.

Speckling within the progeny is expected between 65% and 90%+.

LIC have been purchasing Speckle Park semen exclusively through Maungahina Stud since 2011. The McKenzie family, based just out of Masterton, North Island, New Zealand have been running the Maungahina Stud since 1907.

Maungahina Stud is home to New Zealand's largest Speckle Park herd, with the main breeding goal being to improve and expand the breed throughout New Zealand and overseas.



Price per straw	
1-100	100+
\$16.00	\$14.00



Code	Name	Birth Weight	Gestation Length	Yearling Weight	Carcass Weight
721404	MAUNGAHINA QUEST Q213	+0.7	+0.1	+22	+24
		Top 20%	Top 55%	Top 50%	Top 20%
721405	MAUNGAHINA QUANTITY Q265	+1.8	-0.9	+34	+28
		Top 60%	Top 10%	Top 10%	Top 10%

# SEXED SEMEN

LIC offers SexedULTRA 4M® sexed semen across a selection of our top bulls.

With a 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 SexedULTRA 4M® 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.

# SEXED BULLS

Bull Code	Name	gBW	Rel%	Milk Volume (litres)	Fat kg	Protein kg	SCC	Fertility %	Heifer Calving Difficulty	Cow Calving Difficulty	Liveweight	Capacity	Udder Overall	Page Number
<b>Holstein Friesian</b>														
116019	WERDERS DE OVERTIME S1F	265	88	382	43	31	0.61	0.7	6.0	1.7	-4	0.16	0.53	22
114007	BUSY BROOK WTP VECTOR S3F	240	87	1024	44	42	-0.27	8.2	0.7	0.0	95	0.85	0.42	16
116036	ARKAN MGH BACKDROP-ET S2F	235	91	257	26	28	0.04	2.5	-1.6	0.1	52	0.29	0.29	15
115046	TRALEE GB RESONATE-ET S3F	219	87	255	28	22	-0.16	3.8	0.4	-0.3	32	0.51	0.37	25
117090	TRONNOCO MH SAMBA-ET S3F	194	80	1180	36	50	0.31	0.3	3.1	4.1	33	0.19	0.89	21
116065	DICKSONS BG MANDATE S1F	176	92	-101	18	10	-0.23	3.3	-1.7	-0.3	19	0.53	0.67	20
116060	ON-DER-REY MA APPROVE S2F	170	85	1043	17	44	-0.09	2.5	1.2	0.7	27	0.71	0.36	25
113086	MAIRE IG GAUNTLET-ET	79	93	1401	27	46	0.13	-1.8	3.2	2.4	72	1.14	0.88	17
<b>Jersey</b>														
316039	ULMARRATT GALLIVANT	344	87	-242	47	14	0.00	2.8	-1.5	-2.1	-12	0.64	0.62	37
315045	GLENUI DEGREE HOSS ET	324	88	-400	32	9	-0.36	4.7	-1.5	-0.7	-37	0.30	0.63	35
315009	RIVERVIEW AND DEXTER S2J	278	87	-56	26	18	-0.21	3.3	-0.8	-0.1	-22	0.62	0.67	38
<b>KiwiCross®</b>														
517026	HOWSES SPRINGFIELD	327	80	-234	35	19	-0.94	4.6	-0.8	-0.7	3	0.91	0.52	45
517001	ARKANS PATRIARCH-ET	294	83	5	38	18	0.20	3.0	0.0	-0.9	-17	0.28	1.07	48
511011	PRIESTS SIERRA	283	99	418	42	28	-0.16	3.8	2.0	0.0	29	0.55	0.54	51
515017	LYNBOOK KARTELL	252	85	82	28	25	0.21	2.7	-1.1	-0.7	-23	0.28	0.61	55
517041	LUCK-AT-LAST EMPEROR-ET	247	80	304	32	25	-0.02	1.0	1.0	-0.1	6	0.45	1.14	54
516043	ARKANS BOOMBOX-ET	222	89	729	23	32	-0.44	0.7	0.0	0.0	-6	0.90	1.13	49

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



12/02/2021

# 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 BVs are used to calculate the expected levels of production, calving events, and removal. These BVs are:

1. Liveweight
2. Milk Volume
3. Milkfat
4. Protein
5. Fertility
6. Total Longevity

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

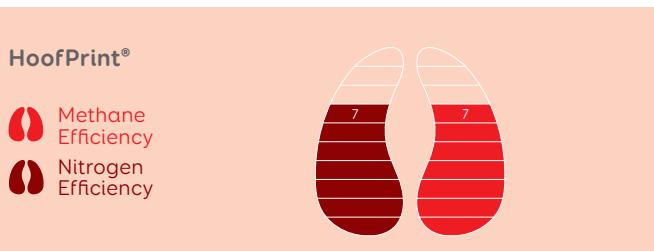
An understanding of an animal's energy requirements was used to estimate dry matter intake from which emissions and excretion are calculated. In the inventory, energy requirements refers to the amount of energy that is needed for an animal to survive (maintenance) and produce animal products such as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

## Reference Base population:

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



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 January 1st 2009.

# 2021 Holstein Friesian



*Dourneau Dairies, Deloraine, Tasmania*

RETAIL  
\$26.00



Dam of 117068 ARROW

## 117068 MEANDER SB ARROW-ET S2F



Daughter of 117068 ARROW



### Australian Indices

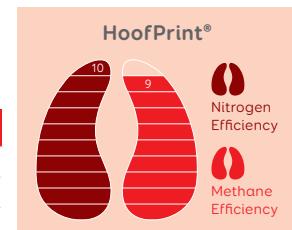
Source: DataGene 07 Dec 2020

BPI/REL %	<b>352/51</b>	Survival	<b>96</b>
ASI	<b>289</b>	Daughter Fertility	<b>108</b>
HWI	<b>324</b>	Calving Ease	<b>103</b>
Milk	<b>-569</b>	Overall Type	<b>94</b>
Fat kg	<b>41</b>	Mammary System	<b>95</b>
Protein kg	<b>21</b>	SCC	<b>84</b>

\$307/81%  
gBW REL

### Breeding Details

NASIS	NZGMEARROW
Breed	F15J1
Pedigree	BEAMER x ILLUSTRIOUS



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven 106 Daughters	
Milk Volume (litres)	<b>455</b>	Fertility %	<b>2.4</b>
Fat kg	<b>44</b>	Body Condition Score	<b>-0.01</b>
Fat %	<b>5.2</b>	Total Longevity (days)	<b>678</b>
Protein kg	<b>38</b>	Calving Difficulty (cow)	<b>-0.5</b>
Protein %	<b>4.2</b>	Calving Difficulty (heifer)	<b>1.1</b>
SCC	<b>0.29</b>	Gestation Length (days)	<b>-6.6</b>
Liveweight	<b>25</b>	BetaCasin	<b>A1A2</b>

### NZ Evaluation Data

	Traits other than production			
Management	<b>gBV -0.5</b>	<b>0</b>	<b>0.5</b>	<b>1.0</b>
Adapts to Milking	<b>0.66</b>			
Shed Temperament	<b>0.58</b>			
Milking Speed	<b>0.50</b>			
Overall Opinion	<b>0.77</b>			
<b>Conformation (104 daughters TOP tested)</b>				
Stature	<b>0.35</b>			
Capacity	<b>0.25</b>			
Rump Angle	<b>-0.20</b>			
Rump Width	<b>0.76</b>			
Legs	<b>-0.09</b>			
Udder Support	<b>0.68</b>			
Front Udder	<b>0.55</b>			
Rear Udder	<b>0.67</b>			
Front Teat Placement	<b>0.15</b>			
Rear Teat Placement	<b>0.29</b>			
Udder Overall	<b>0.68</b>			
Dairy Conformation	<b>0.36</b>			

Unregisterable



12/02/2021



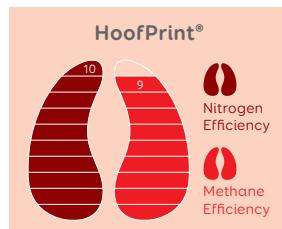
Dam of 118070 SUPERVISOR

**118070 TAFTS GR SUPERVISOR S1F****\$276/59%**  
gBW REL**Breeding Details**

NASIS NZGSUPERVISR

Breed F16

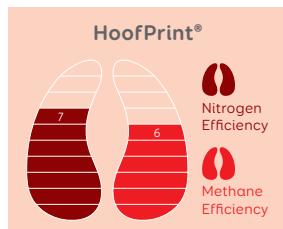
Pedigree REGIMENT x REMEDY

**119064 MEANDER MG ARENA-ET S3F****\$209/61%**  
gBW REL**Breeding Details**

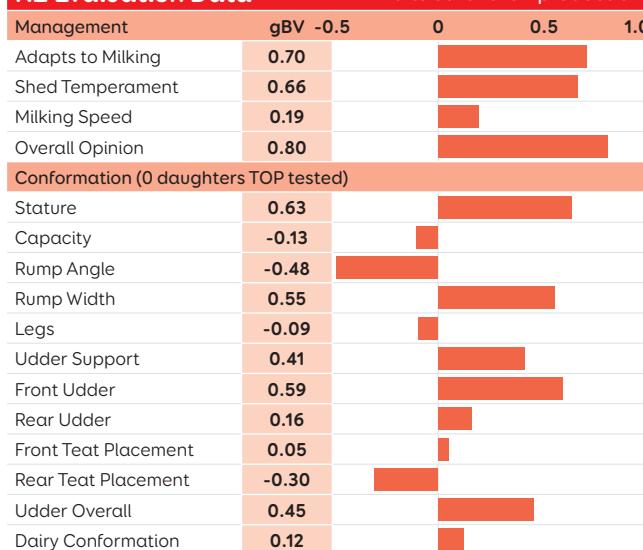
NASIS NZGMEARENA

Breed F16

Pedigree GAUNTLET x BEAMER

**NEW ZEALAND DETAILS**

NZ Breeding Values		0 Daughters	
Milk Volume (litres)	719	Fertility %	-0.7
Fat kg	45	Body Condition Score	-0.01
Fat %	4.9	Total Longevity (days)	648
Protein kg	39	Calving Difficulty (cow)	1.0
Protein %	4.0	Calving Difficulty (heifer)	1.8
SCC	-0.01	Gestation Length (days)	-11.3
Liveweight	31	BetaCasin	A2A2

**NZ Evaluation Data**

Unregisterable



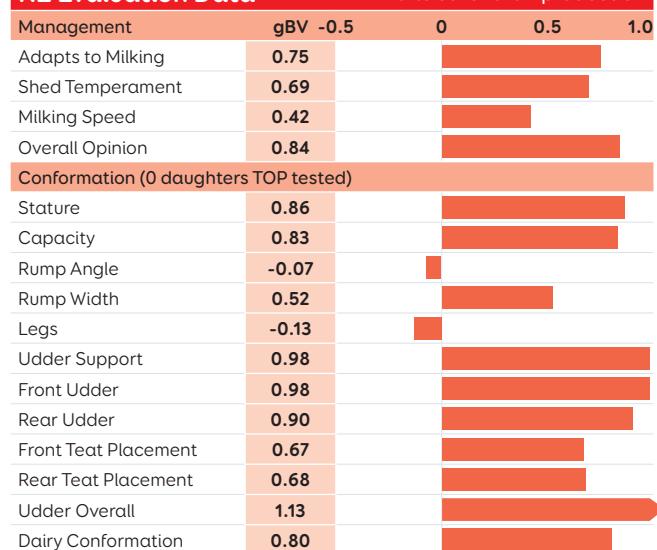
12/02/2021

**Comments from LIC Livestock Selection Manager:**

What is there not to like about this bull? Supervisor comes from a high production cow family with the dam (in photo) and grand-dam averaging over 600 milk solids per season. A short gestation specialist at -11.3 days with daughters that can pump out the production. Supervisor sold out in 2020 so get in early not to miss out.

**NEW ZEALAND DETAILS**

NZ Breeding Values		0 Daughters	
Milk Volume (litres)	1137	Fertility %	2.1
Fat kg	44	Body Condition Score	0.19
Fat %	4.6	Total Longevity (days)	406
Protein kg	45	Calving Difficulty (cow)	0.8
Protein %	3.8	Calving Difficulty (heifer)	2.7
SCC	0.38	Gestation Length (days)	-6.3
Liveweight	62	BetaCasin	A2A2

**NZ Evaluation Data**

Unregisterable



12/02/2021

**Comments from LIC Livestock Selection Manager:**

One of the highest ranking Gauntlet sons coming through with a lot going for him. Production galore, positive fertility and a TOP graph that oozes class. Coming from a cow family that has proven itself, the Beamer dam is punching well above her weight and her dam, Meander FMI April, has produced the likes of top new graduate Arrow and other notable proven sires.



RETAIL  
\$20.00  
SEXED  
\$48.00

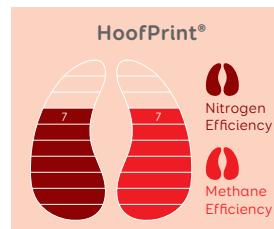
Dam of 116036 BACKDROP

## 116036 ARKAN MGH BACKDROP-ET S2F

**\$235/91%**  
gBW REL

### Breeding Details

NASIS	NZGBACKDROP
Breed	F15J1
Pedigree	HOTHOUSE x MINT-EDITION

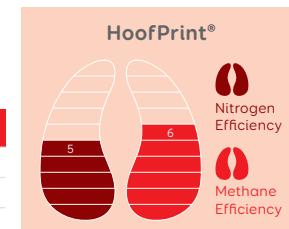


## 119012 FANANA BM EXCELLENT S2F

**\$201/61%**  
gBW REL

### Breeding Details

NASIS	NZGFANEXCELL
Breed	F16
Pedigree	MAXIMA x BOSS



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		1894 Daughters	
Milk Volume (litres)	<b>257</b>	Fertility %	<b>2.5</b>
Fat kg	<b>26</b>	Body Condition Score	<b>0.52</b>
Fat %	<b>5.0</b>	Total Longevity (days)	<b>758</b>
Protein kg	<b>28</b>	Calving Difficulty (cow)	<b>0.1</b>
Protein %	<b>4.2</b>	Calving Difficulty (heifer)	<b>-1.6</b>
SCC	<b>0.04</b>	Gestation Length (days)	<b>-6.6</b>
Liveweight	<b>52</b>	BetaCasin	<b>A1A2</b>

### NZ Evaluation Data

	Traits other than production			
	gBV -0.5	0	0.5	1.0
Management	<b>0.52</b>			
Adapts to Milking	<b>0.52</b>			
Shed Temperament	<b>0.52</b>			
Milking Speed	<b>0.17</b>			
Overall Opinion	<b>0.54</b>			
Conformation (117 daughters TOP tested)				
Stature	<b>0.56</b>			
Capacity	<b>0.29</b>			
Rump Angle	<b>-0.16</b>			
Rump Width	<b>-0.04</b>			
Legs	<b>-0.09</b>			
Udder Support	<b>0.24</b>			
Front Udder	<b>0.28</b>			
Rear Udder	<b>-0.02</b>			
Front Teat Placement	<b>0.24</b>			
Rear Teat Placement	<b>-0.04</b>			
Udder Overall	<b>0.29</b>			
Dairy Conformation	<b>0.19</b>			

Unregisterable



12/02/2021

### NEW ZEALAND DETAILS

NZ Breeding Values		0 Daughters	
Milk Volume (litres)	<b>179</b>	Fertility %	<b>5.9</b>
Fat kg	<b>24</b>	Body Condition Score	<b>0.16</b>
Fat %	<b>5.1</b>	Total Longevity (days)	<b>547</b>
Protein kg	<b>15</b>	Calving Difficulty (cow)	<b>0.5</b>
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	<b>0.9</b>
SCC	<b>-0.35</b>	Gestation Length (days)	<b>-3.6</b>
Liveweight	<b>22</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data

	Traits other than production			
	gBV -0.5	0	0.5	1.0
Management	<b>0.42</b>			
Adapts to Milking	<b>0.46</b>			
Shed Temperament	<b>0.06</b>			
Milking Speed	<b>0.43</b>			
Overall Opinion	<b>0.18</b>			
Conformation (0 daughters TOP tested)				
Stature	<b>0.66</b>			
Capacity	<b>-0.24</b>			
Rump Angle	<b>-0.06</b>			
Rump Width	<b>-0.09</b>			
Legs	<b>1.20</b>			
Udder Support	<b>0.92</b>			
Front Udder	<b>0.98</b>			
Rear Udder	<b>0.60</b>			
Front Teat Placement	<b>1.08</b>			
Rear Teat Placement	<b>0.29</b>			
Udder Overall	<b>0.63</b>			
Dairy Conformation				

Unregisterable



12/02/2021

### Australian Indices

	Source: DataGene 07 Dec 2020
BPI/REL %	<b>276/67</b>
ASI	<b>192</b>
HWI	<b>312</b>
Milk	<b>-902</b>
Fat kg	<b>14</b>
Protein kg	<b>9</b>
Survival	<b>103</b>
Daughter Fertility	<b>112</b>
Calving Ease	<b>102</b>
Overall Type	<b>83</b>
Mammary System	<b>85</b>
SCC	<b>103</b>

### Comments from LIC Livestock Selection Manager:

With such a large group of quality genomic sires to choose from, Excellent was one of the standouts. One of the highest fertility sires going at 5.9% and longevity over 500 days these cows will last in the herd. Farmer and udder scores to impress the fussiest critic, not to mention he is A2A2 and easy calving. Like his sire Maxima, Excellent is the full package and is sure to be popular in 2021.



## 114007 BUSY BROOK WTP VECTOR S3F

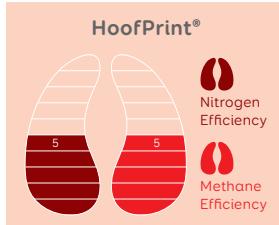
**\$240/87%**  
gBW REL

### Breeding Details

NASIS NZGBVECTOR

Breed F16

Pedigree TE POI x GOLDEN BOY



### NEW ZEALAND DETAILS

#### Daughter Proven

NZ Breeding Values		102 Daughters	
Milk Volume (litres)	<b>1024</b>	Fertility %	<b>8.2</b>
Fat kg	<b>44</b>	Body Condition Score	<b>0.45</b>
Fat %	<b>4.7</b>	Total Longevity (days)	<b>610</b>
Protein kg	<b>42</b>	Calving Difficulty (cow)	<b>0.0</b>
Protein %	<b>3.8</b>	Calving Difficulty (heifer)	<b>0.7</b>
SCC	<b>-0.27</b>	Gestation Length (days)	<b>-1.9</b>
Liveweight	<b>95</b>	BetaCasin	<b>A1A1</b>

### NZ Evaluation Data

#### Traits other than production

	gBV	-0.5	0	0.5	1.0
Management	<b>0.82</b>				
Adapts to Milking	<b>0.85</b>				
Shed Temperament	<b>0.39</b>				
Milking Speed	<b>0.93</b>				
Overall Opinion	<b>0.11</b>				
<b>Conformation (88 daughters TOP tested)</b>					
Stature	<b>1.11</b>				
Capacity	<b>0.85</b>				
Rump Angle	<b>0.13</b>				
Rump Width	<b>0.70</b>				
Legs	<b>0.18</b>				
Udder Support	<b>0.39</b>				
Front Udder	<b>0.43</b>				
Rear Udder	<b>0.13</b>				
Front Teat Placement	<b>0.08</b>				
Rear Teat Placement	<b>-0.14</b>				
Udder Overall	<b>0.42</b>				
Dairy Conformation	<b>0.76</b>				



### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %	<b>404/66</b>	Survival	<b>105</b>
ASI	<b>225</b>	Daughter Fertility	<b>117</b>
HWI	<b>460</b>	Calving Ease	<b>103</b>
Milk	<b>-124</b>	Overall Type	<b>93</b>
Fat kg	<b>30</b>	Mammary System	<b>88</b>
Protein kg	<b>22</b>	SCC	<b>107</b>

Unregisterable



12/02/2021



Daughter of 113086 GAUNTLET

## 113086 MAIRE IG GAUNTLET-ET



Daughter of 113086 GAUNTLET



### Australian Indices

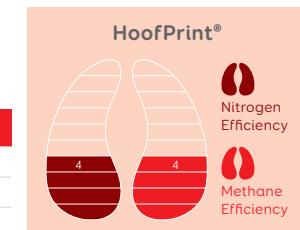
Source: DataGene 07 Dec 2020

BPI/REL %	<b>249/78</b>	Survival	<b>102</b>
ASI	<b>154</b>	Daughter Fertility	<b>108</b>
HWI	<b>250</b>	Calving Ease	<b>97</b>
Milk	<b>565</b>	Overall Type	<b>101</b>
Fat kg	<b>10</b>	Mammary System	<b>94</b>
Protein kg	<b>29</b>	SCC	<b>97</b>

\$79/93%  
gBW REL

### Breeding Details

NASIS	NZGMAIRGAUNT
Breed	F16
Pedigree	IGNITION x SPICY



### NEW ZEALAND DETAILS

#### NZ Breeding Values

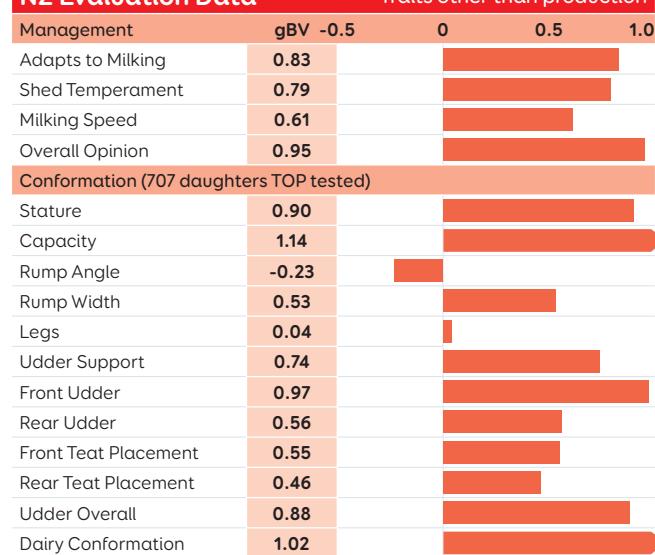
Daughter Proven

20411 Daughters

Milk Volume (litres)	<b>1401</b>	Fertility %	<b>-1.8</b>
Fat kg	<b>27</b>	Body Condition Score	<b>0.24</b>
Fat %	<b>4.1</b>	Total Longevity (days)	<b>179</b>
Protein kg	<b>46</b>	Calving Difficulty (cow)	<b>2.4</b>
Protein %	<b>3.7</b>	Calving Difficulty (heifer)	<b>3.2</b>
SCC	<b>0.13</b>	Gestation Length (days)	<b>0.2</b>
Liveweight	<b>72</b>	BetaCasin	<b>A2A2</b>

#### NZ Evaluation Data

Traits other than production



Unregisterable



12/02/2021



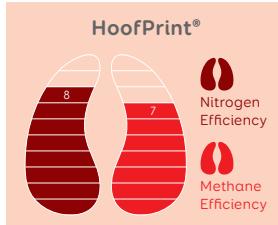
Dam of 115021 LANCELOT

## 115021 GORDONS AM LANCELOT S3F

**\$248/gBW** / **96%** REL

### Breeding Details

NASIS	NZGGOLANCE
Breed	F16
Pedigree	MAELSTROM x DAUNTLESS



Daughter of 115021 LANCELOT

### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		2729 Daughters	
Milk Volume (litres)	682	Fertility %	0.4
Fat kg	38	Body Condition Score	0.11
Fat %	4.9	Total Longevity (days)	471
Protein kg	42	Calving Difficulty (cow)	1.3
Protein %	4.1	Calving Difficulty (heifer)	1.7
SCC	0.10	Gestation Length (days)	-1.9
Liveweight	35	BetaCasin	A1A1

### NZ Evaluation Data

	Traits other than production			
Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	0.38			
Shed Temperament	0.30			
Milking Speed	0.12			
Overall Opinion	0.24			
<b>Conformation (136 daughters TOP tested)</b>				
Stature	0.58			
Capacity	0.54			
Rump Angle	0.29			
Rump Width	0.50			
Legs	-0.02			
Udder Support	0.48			
Front Udder	0.49			
Rear Udder	0.19			
Front Teat Placement	0.00			
Rear Teat Placement	0.56			
Udder Overall	0.26			
Dairy Conformation	0.59			



### Australian Indices

Source: DataGene 07 Dec 2020

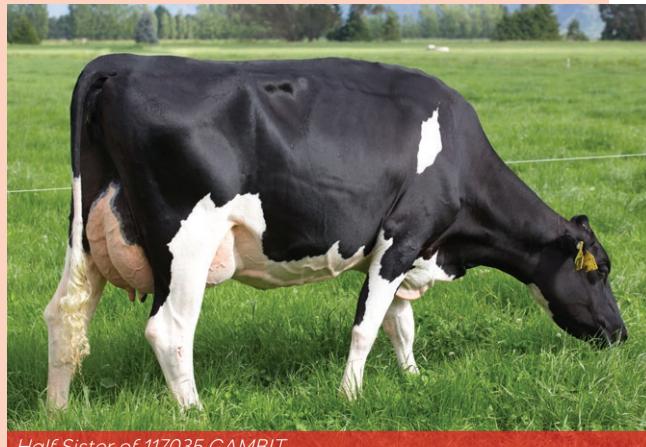
BPI/REL %	<b>313/68</b>	Survival	101
ASI	<b>228</b>	Daughter Fertility	111
HWI	<b>333</b>	Calving Ease	101
Milk	<b>-325</b>	Overall Type	88
Fat kg	<b>26</b>	Mammary System	85
Protein kg	<b>20</b>	SCC	103

RETAIL  
\$20.00



Half Sister of 117035 GAMBIT

## 117035 BELLAMYS MH GAMBIT-ET S2F



Half Sister of 117035 GAMBIT



### Australian Indices

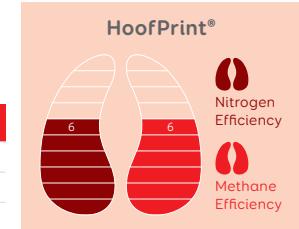
Source: DataGene 07 Dec 2020

BPI/REL %	<b>260/49</b>	Survival	<b>95</b>
ASI	<b>185</b>	Daughter Fertility	<b>108</b>
HWI	<b>269</b>	Calving Ease	<b>100</b>
Milk	<b>-53</b>	Overall Type	<b>88</b>
Fat kg	<b>18</b>	Mammary System	<b>90</b>
Protein kg	<b>21</b>	SCC	<b>110</b>

\$211/80%  
gBW REL

### Breeding Details

NASIS	NZGGAMBIT
Breed	F16
Pedigree	HOTHOUSE x APPLAUSE



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven 98 Daughters	
Milk Volume (litres)	<b>756</b>	Fertility %	<b>2.2</b>
Fat kg	<b>31</b>	Body Condition Score	<b>0.30</b>
Fat %	<b>4.7</b>	Total Longevity (days)	<b>766</b>
Protein kg	<b>34</b>	Calving Difficulty (cow)	<b>2.3</b>
Protein %	<b>3.9</b>	Calving Difficulty (heifer)	<b>2.0</b>
SCC	<b>0.19</b>	Gestation Length (days)	<b>-3.8</b>
Liveweight	<b>54</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data

	Traits other than production			
Management	<b>gBV -0.5</b>	<b>0</b>	<b>0.5</b>	<b>1.0</b>
Adapts to Milking	<b>0.49</b>			
Shed Temperament	<b>0.46</b>			
Milking Speed	<b>0.17</b>			
Overall Opinion	<b>0.62</b>			
<b>Conformation (83 daughters TOP tested)</b>				
Stature	<b>0.61</b>			
Capacity	<b>0.27</b>			
Rump Angle	<b>-0.11</b>			
Rump Width	<b>0.19</b>			
Legs	<b>-0.13</b>			
Udder Support	<b>0.43</b>			
Front Udder	<b>0.33</b>			
Rear Udder	<b>0.37</b>			
Front Teat Placement	<b>0.09</b>			
Rear Teat Placement	<b>-0.12</b>			
Udder Overall	<b>0.50</b>			
Dairy Conformation	<b>0.26</b>			

Unregisterable



12/02/2021

Available in  
**4M**

RETAIL  
\$20.00  
SEXED  
\$48.00



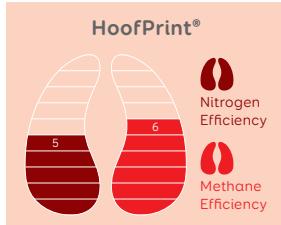
Dam of 116065 MANDATE

## 116065 DICKSONS BG MANDATE S1F

**\$176/92%**  
gBW REL

### Breeding Details

NASIS	NZGDI MANDATE
Breed	F16
Pedigree	GRANDEUR x PULSE



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		2561 Daughters	
Milk Volume (litres)	-101	Fertility %	3.3
Fat kg	18	Body Condition Score	-0.02
Fat %	5.3	Total Longevity (days)	642
Protein kg	10	Calving Difficulty (cow)	-0.3
Protein %	4.1	Calving Difficulty (heifer)	-1.7
SCC	-0.23	Gestation Length (days)	-2.0
Liveweight	19	BetaCasin	A2A2

### NZ Evaluation Data

	Traits other than production			
Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	0.29			
Shed Temperament	0.25			
Milking Speed	-0.28			
Overall Opinion	0.22			
<b>Conformation (154 daughters TOP tested)</b>				
Stature	0.40			
Capacity	0.53			
Rump Angle	0.20			
Rump Width	0.74			
Legs	0.10			
Udder Support	0.54			
Front Udder	0.87			
Rear Udder	0.37			
Front Teat Placement	0.48			
Rear Teat Placement	0.59			
Udder Overall	0.67			
Dairy Conformation	0.60			



Daughter of 116065 MANDATE



### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %	214/66	Survival	102
ASI	90	Daughter Fertility	115
HWI	314	Calving Ease	104
Milk	-1282	Overall Type	92
Fat kg	10	Mammary System	91
Protein kg	-11	SCC	109

Unregisterable



12/02/2021



RETAIL  
\$20.00  
SEXED  
\$48.00

## 117090 TRONNOCO MH SAMBA-ET S3F

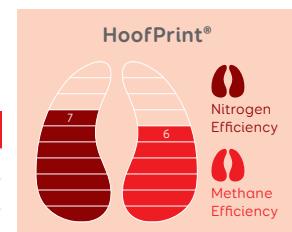


Daughter of 117090 SAMBA

\$194/80%  
gBW REL

### Breeding Details

NASIS	NZGSAMBA
Breed	F16
Pedigree	HOTHOUSE x MAXIMISER



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven 93 Daughters	
Milk Volume (litres)	1180	Fertility %	0.3
Fat kg	36	Body Condition Score	-0.04
Fat %	4.4	Total Longevity (days)	314
Protein kg	50	Calving Difficulty (cow)	4.1
Protein %	3.9	Calving Difficulty (heifer)	3.1
SCC	0.31	Gestation Length (days)	-1.5
Liveweight	33	BetaCasin	A2A2

### NZ Evaluation Data

	Traits other than production			
Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	0.35			
Shed Temperament	0.33			
Milking Speed	0.04			
Overall Opinion	0.50			
Conformation (87 daughters TOP tested)				
Stature	0.72			
Capacity	0.19			
Rump Angle	-0.30			
Rump Width	0.18			
Legs	-0.14			
Udder Support	0.69			
Front Udder	1.03			
Rear Udder	0.52			
Front Teat Placement	0.49			
Rear Teat Placement	0.06			
Udder Overall	0.89			
Dairy Conformation	0.39			



Daughter of 117090 SAMBA

### Australian Indices

		Source: DataGene 07 Dec 2020	
BPI/REL %	309/49	Survival	96
ASI	263	Daughter Fertility	106
HWI	281	Calving Ease	98
Milk	547	Overall Type	97
Fat kg	33	Mammary System	97
Protein kg	38	SCC	79

Unregisterable



12/02/2021

Available in  
**4M®**

RETAIL  
\$20.00  
SEXED  
\$48.00



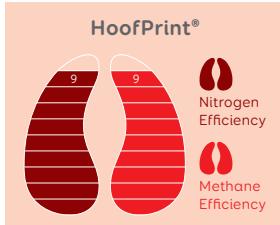
Daughter of 116019 OVERTIME

**116019 WERDERS DE OVERTIME S1F**

**\$265** / **88%**  
gBW REL

**Breeding Details**

NASIS	NZGOVERTIME
Breed	F16
Pedigree	EMPIRE x ILLUSTRIOUS



Daughter of 116019 OVERTIME

**NEW ZEALAND DETAILS**

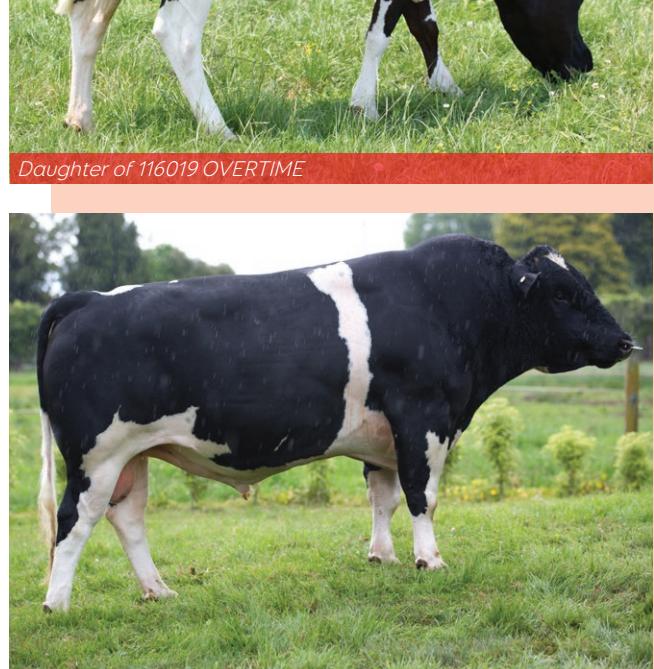
## Daughter Proven

NZ Breeding Values		695 Daughters	
Milk Volume (litres)	<b>382</b>	Fertility %	0.7
Fat kg	<b>43</b>	Body Condition Score	-0.11
Fat %	<b>5.2</b>	Total Longevity (days)	<b>346</b>
Protein kg	<b>31</b>	Calving Difficulty (cow)	1.7
Protein %	<b>4.1</b>	Calving Difficulty (heifer)	<b>6.0</b>
SCC	<b>0.61</b>	Gestation Length (days)	-7.6
Liveweight	-4	BetaCasin	A2A2

**NZ Evaluation Data**

## Traits other than production

	gBV	-0.5	0	0.5	1.0
Management	0.27				
Adapts to Milking	0.28				
Shed Temperament	0.17				
Milking Speed	0.43				
Overall Opinion	0.67				
Conformation (95 daughters TOP tested)					
Stature	-0.13				
Capacity	0.16				
Rump Angle	-0.07				
Rump Width	0.01				
Legs	-0.20				
Udder Support	0.66				
Front Udder	0.16				
Rear Udder	0.26				
Front Teat Placement	0.02				
Rear Teat Placement	0.53				
Udder Overall	0.29				
Dairy Conformation					

**Australian Indices**

Source: DataGene 07 Dec 2020

BPI/REL %	<b>211/65</b>	Survival	<b>99</b>
ASI	<b>214</b>	Daughter Fertility	<b>109</b>
HWI	<b>232</b>	Calving Ease	<b>100</b>
Milk	<b>-715</b>	Overall Type	<b>89</b>
Fat kg	<b>27</b>	Mammary System	<b>90</b>
Protein kg	<b>12</b>	SCC	<b>64</b>



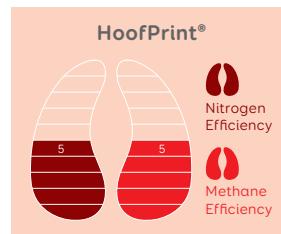


## 112080 MAIRE MINT FIRE-UP

**\$154/97%**  
gBW REL

### Breeding Details

NASIS	NZGFIREUP
Breed	F16
Pedigree	MINT-EDITION x JUSTICE

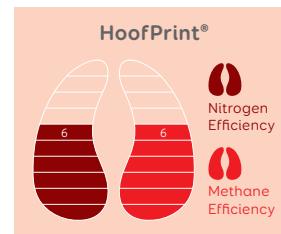


## 113120 BOTHWELL WT MAXIMA S2F

**\$185/98%**  
gBW REL

### Breeding Details

NASIS	NZGBOMAXIMA
Breed	F15J1
Pedigree	TOMMO x ECLIPSE



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		3197 Daughters	
Milk Volume (litres)	<b>1390</b>	Fertility %	-1.1
Fat kg	<b>49</b>	Body Condition Score	0.01
Fat %	<b>4.5</b>	Total Longevity (days)	305
Protein kg	<b>60</b>	Calving Difficulty (cow)	0.7
Protein %	<b>3.9</b>	Calving Difficulty (heifer)	2.8
SCC	<b>0.23</b>	Gestation Length (days)	-4.4
Liveweight	<b>121</b>	BetaCasin	A2A2

### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		7267 Daughters	
Milk Volume (litres)	<b>479</b>	Fertility %	1.4
Fat kg	<b>30</b>	Body Condition Score	0.00
Fat %	<b>4.9</b>	Total Longevity (days)	325
Protein kg	<b>22</b>	Calving Difficulty (cow)	0.4
Protein %	<b>3.9</b>	Calving Difficulty (heifer)	0.9
SCC	<b>-0.17</b>	Gestation Length (days)	-1.4
Liveweight	<b>9</b>	BetaCasin	A1A2

### NZ Evaluation Data

Traits other than production				
Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.42</b>			
Shed Temperament	<b>0.46</b>			
Milking Speed	<b>0.29</b>			
Overall Opinion	<b>0.72</b>			
<b>Conformation (383 daughters TOP tested)</b>				
Stature	<b>2.22</b>			
Capacity	<b>0.96</b>			
Rump Angle	<b>0.36</b>			
Rump Width	<b>0.59</b>			
Legs	<b>0.00</b>			
Udder Support	<b>0.88</b>			
Front Udder	<b>0.50</b>			
Rear Udder	<b>0.71</b>			
Front Teat Placement	<b>0.29</b>			
Rear Teat Placement	<b>0.86</b>			
Udder Overall	<b>0.74</b>			
Dairy Conformation	<b>1.20</b>			

### NZ Evaluation Data

Traits other than production				
Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.45</b>			
Shed Temperament	<b>0.38</b>			
Milking Speed	<b>0.02</b>			
Overall Opinion	<b>0.48</b>			
<b>Conformation (210 daughters TOP tested)</b>				
Stature	<b>0.11</b>			
Capacity	<b>0.39</b>			
Rump Angle	<b>-0.12</b>			
Rump Width	<b>0.24</b>			
Legs	<b>-0.05</b>			
Udder Support	<b>0.81</b>			
Front Udder	<b>0.83</b>			
Rear Udder	<b>0.43</b>			
Front Teat Placement	<b>0.54</b>			
Rear Teat Placement	<b>0.78</b>			
Udder Overall	<b>0.86</b>			
Dairy Conformation	<b>0.44</b>			

Registrable



12/02/2021



12/02/2021

### Australian Indices

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>264/86</b>	Survival	<b>104</b>
ASI	<b>214</b>	Daughter Fertility	<b>104</b>
HWI	<b>195</b>	Calving Ease	<b>103</b>
Milk	<b>181</b>	Overall Type	<b>100</b>
Fat kg	<b>15</b>	Mammary System	<b>92</b>
Protein kg	<b>30</b>	SCC	<b>97</b>

### Australian Indices

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>322/69</b>	Survival	<b>102</b>
ASI	<b>190</b>	Daughter Fertility	<b>110</b>
HWI	<b>344</b>	Calving Ease	<b>103</b>
Milk	<b>-483</b>	Overall Type	<b>94</b>
Fat kg	<b>30</b>	Mammary System	<b>94</b>
Protein kg	<b>11</b>	SCC	<b>113</b>

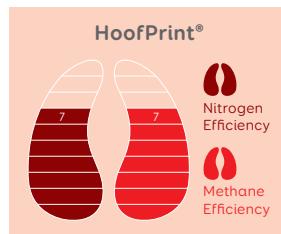


### 111037 SAN RAY FM BEAMER-ET S2F

**\$226/98%**  
gBW REL

#### Breeding Details

NASIS	NZGRAYBEAM
Breed	F14J2
Pedigree	MINT-EDITION x SKELTON



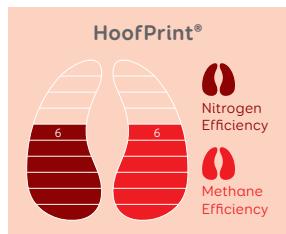
Daughter of 116078 ALAMO

### 116078 MEANDER SB ALAMO S2F

**\$198/86%**  
gBW

#### Breeding Details

NASIS	NZGMEALAMO
Breed	F15J1
Pedigree	BEAMER x DAUNTLESS



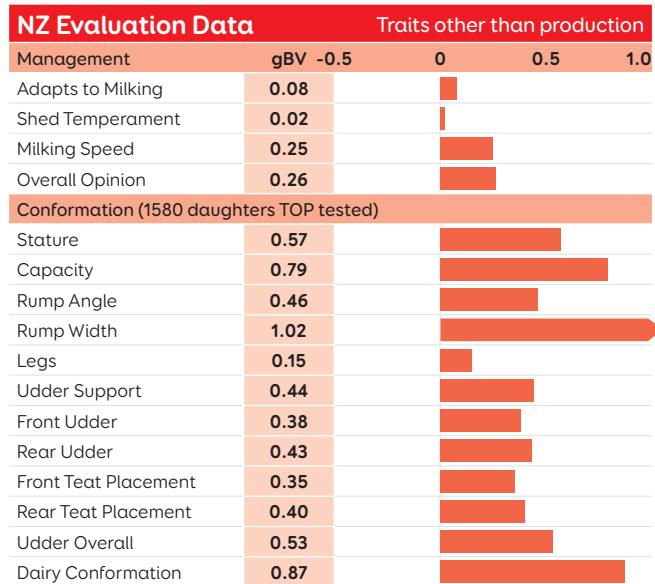
#### NEW ZEALAND DETAILS

NZ Breeding Values		87575 Daughters	
Milk Volume (litres)	<b>790</b>	Fertility %	<b>1.6</b>
Fat kg	<b>40</b>	Body Condition Score	<b>0.03</b>
Fat %	<b>4.8</b>	Total Longevity (days)	<b>434</b>
Protein kg	<b>40</b>	Calving Difficulty (cow)	<b>0.3</b>
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	<b>0.7</b>
SCC	<b>0.40</b>	Gestation Length (days)	<b>-4.1</b>
Liveweight	<b>38</b>	BetaCasin	<b>A1A2</b>

#### NEW ZEALAND DETAILS

NZ Breeding Values		109 Daughters	
Milk Volume (litres)	<b>931</b>	Fertility %	<b>2.4</b>
Fat kg	<b>39</b>	Body Condition Score	<b>0.15</b>
Fat %	<b>4.6</b>	Total Longevity (days)	<b>465</b>
Protein kg	<b>45</b>	Calving Difficulty (cow)	<b>-0.2</b>
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	<b>-0.4</b>
SCC	<b>0.43</b>	Gestation Length (days)	<b>-0.5</b>
Liveweight	<b>70</b>	BetaCasin	<b>A1A2</b>

#### NZ Evaluation Data

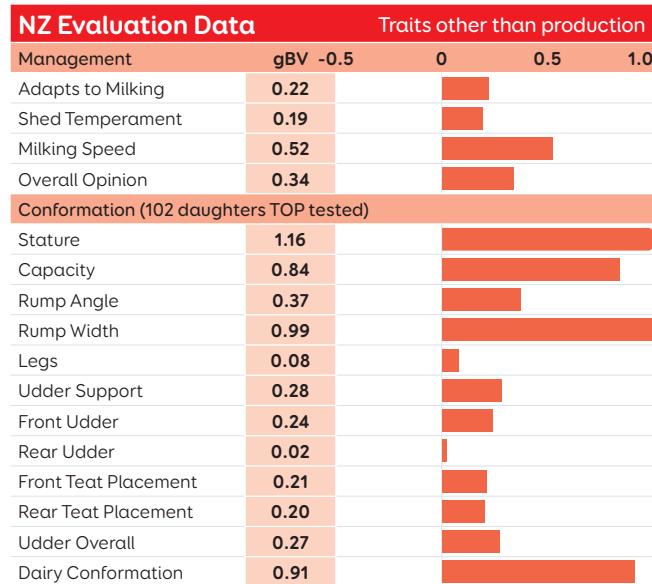


Unregisterable



12/02/2021

#### NZ Evaluation Data



Unregisterable



12/02/2021

#### Australian Indices

Australian Indices		Source: DataGene 07 Dec 2020	
BPI/REL %	<b>359/85</b>	Survival	<b>102</b>
ASI	<b>328</b>	Daughter Fertility	<b>105</b>
HWI	<b>284</b>	Calving Ease	<b>0</b>
Milk	<b>-146</b>	Overall Type	<b>96</b>
Fat kg	<b>48</b>	Mammary System	<b>90</b>
Protein kg	<b>31</b>	SCC	<b>78</b>

#### Australian Indices

Australian Indices		Source: DataGene 07 Dec 2020	
BPI/REL %	<b>255/66</b>	Survival	<b>102</b>
ASI	<b>228</b>	Daughter Fertility	<b>109</b>
HWI	<b>232</b>	Calving Ease	<b>103</b>
Milk	<b>-74</b>	Overall Type	<b>92</b>
Fat kg	<b>22</b>	Mammary System	<b>86</b>
Protein kg	<b>26</b>	SCC	<b>74</b>

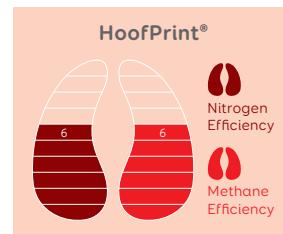


## 115046 TRALEE GB RESONATE-ET S3F

**\$219/87%**  
gBW REL

### Breeding Details

NASIS	NZGRESONATE
Breed	F16
Pedigree	BLADE x GERRIS



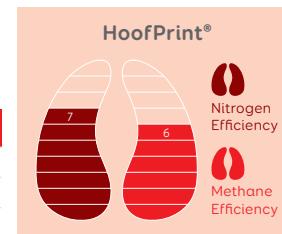
Daughter of 116060 APPROVE

## 116060 ON-DER-REY MA APPROVE S2F

**\$170/85%**  
gBW REL

### Breeding Details

NASIS	NZGREAPPROVE
Breed	F15J1
Pedigree	APOLLO x OVATION



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		92 Daughters	
Milk Volume (litres)	<b>255</b>	Fertility %	<b>3.8</b>
Fat kg	<b>28</b>	Body Condition Score	<b>0.24</b>
Fat %	<b>5.1</b>	Total Longevity (days)	<b>574</b>
Protein kg	<b>22</b>	Calving Difficulty (cow)	<b>-0.3</b>
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	<b>0.4</b>
SCC	<b>-0.16</b>	Gestation Length (days)	<b>-3.3</b>
Liveweight	<b>32</b>	BetaCasin	<b>A1A2</b>

### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		100 Daughters	
Milk Volume (litres)	<b>1043</b>	Fertility %	<b>2.5</b>
Fat kg	<b>17</b>	Body Condition Score	<b>0.22</b>
Fat %	<b>4.2</b>	Total Longevity (days)	<b>493</b>
Protein kg	<b>44</b>	Calving Difficulty (cow)	<b>0.7</b>
Protein %	<b>3.9</b>	Calving Difficulty (heifer)	<b>1.2</b>
SCC	<b>-0.09</b>	Gestation Length (days)	<b>2.0</b>
Liveweight	<b>27</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data

	Traits other than production			
	gBV -0.5	0	0.5	1.0
Management	<b>0.15</b>			
Adapts to Milking	<b>0.15</b>			
Shed Temperament	<b>0.12</b>			
Milking Speed	<b>0.27</b>			
Overall Opinion	<b>0.35</b>			
Conformation (82 daughters TOP tested)				
Stature	<b>0.17</b>			
Capacity	<b>0.51</b>			
Rump Angle	<b>-0.26</b>			
Rump Width	<b>-0.13</b>			
Legs	<b>0.00</b>			
Udder Support	<b>0.33</b>			
Front Udder	<b>0.77</b>			
Rear Udder	<b>0.12</b>			
Front Teat Placement	<b>0.05</b>			
Rear Teat Placement	<b>-0.06</b>			
Udder Overall	<b>0.37</b>			
Dairy Conformation	<b>0.37</b>			

Unregisterable 12/02/2021

### NZ Evaluation Data

	Traits other than production			
	gBV -0.5	0	0.5	1.0
Management	<b>0.35</b>			
Adapts to Milking	<b>0.35</b>			
Shed Temperament	<b>0.37</b>			
Milking Speed	<b>0.03</b>			
Overall Opinion	<b>0.41</b>			
Conformation (87 daughters TOP tested)				
Stature	<b>0.43</b>			
Capacity	<b>0.71</b>			
Rump Angle	<b>-0.20</b>			
Rump Width	<b>-0.02</b>			
Legs	<b>-0.06</b>			
Udder Support	<b>0.48</b>			
Front Udder	<b>0.57</b>			
Rear Udder	<b>0.00</b>			
Front Teat Placement	<b>0.03</b>			
Rear Teat Placement	<b>0.43</b>			
Udder Overall	<b>0.36</b>			
Dairy Conformation	<b>0.71</b>			

Unregisterable

12/02/2021

### Australian Indices

	Source: DataGene 07 Dec 2020		
BPI/REL %	<b>220/57</b>	Survival	<b>101</b>
ASI	<b>129</b>	Daughter Fertility	<b>110</b>
HWI	<b>264</b>	Calving Ease	<b>103</b>
Milk	<b>-675</b>	Overall Type	<b>89</b>
Fat kg	<b>18</b>	Mammary System	<b>92</b>
Protein kg	<b>3</b>	SCC	<b>103</b>

### Australian Indices

	Source: DataGene 07 Dec 2020		
BPI/REL %	<b>215/54</b>	Survival	<b>100</b>
ASI	<b>141</b>	Daughter Fertility	<b>109</b>
HWI	<b>247</b>	Calving Ease	<b>102</b>
Milk	<b>115</b>	Overall Type	<b>94</b>
Fat kg	<b>-1</b>	Mammary System	<b>90</b>
Protein kg	<b>23</b>	SCC	<b>102</b>

RETAIL  
\$18.00

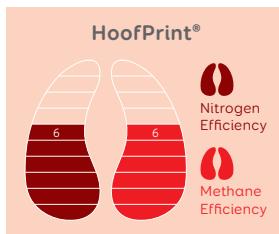
Daughter of 110080 HOTHOUSE

**110080 MOURNE GROVE  
HOTHOUSE S2F****\$124/99%**  
gBW REL**Breeding Details**

NASIS NZGHOHOUSE

Breed F16

Pedigree ROCKSOLID x LEOPARD

RETAIL  
\$20.00

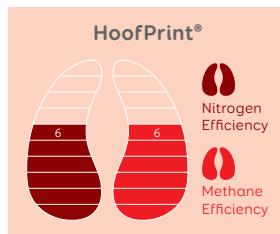
Daughter of 117015 GO-GETTER

**117015 DICKSONS GF  
GO-GETTER-ET****\$229/78%**  
gBW REL**Breeding Details**

NASIS NZGGOGETTER

Breed F16

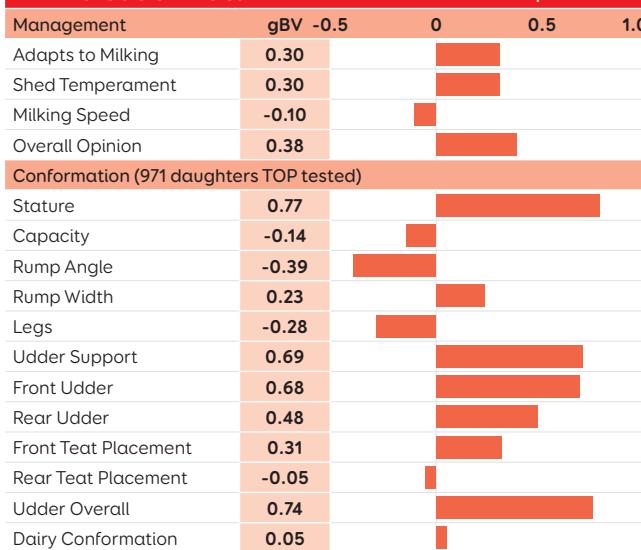
Pedigree FORAY x IGNITION

**NEW ZEALAND DETAILS****Daughter Proven**

NZ Breeding Values		54815 Daughters	
Milk Volume (litres)	<b>1088</b>	Fertility %	<b>1.7</b>
Fat kg	<b>17</b>	Body Condition Score	<b>0.10</b>
Fat %	<b>4.1</b>	Total Longevity (days)	<b>580</b>
Protein kg	<b>38</b>	Calving Difficulty (cow)	<b>0.7</b>
Protein %	<b>3.7</b>	Calving Difficulty (heifer)	<b>0.5</b>
SCC	<b>0.01</b>	Gestation Length (days)	<b>-4.5</b>
Liveweight	<b>44</b>	BetaCasin	<b>A2A2</b>

**NEW ZEALAND DETAILS****Daughter Proven**

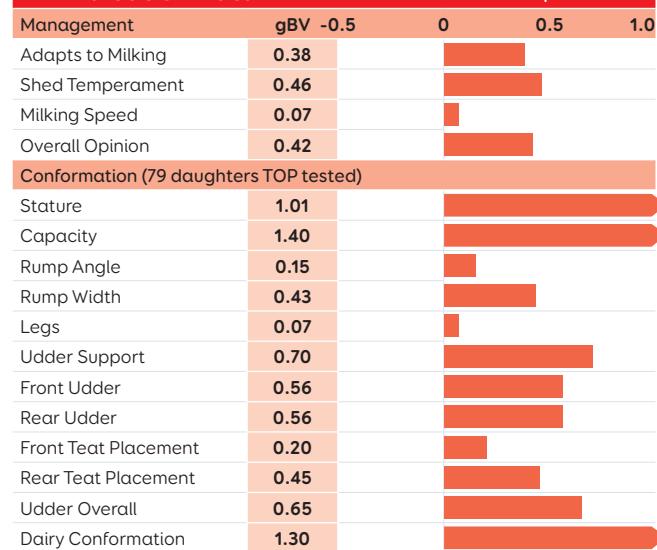
NZ Breeding Values		85 Daughters	
Milk Volume (litres)	<b>1301</b>	Fertility %	<b>-4.9</b>
Fat kg	<b>59</b>	Body Condition Score	<b>0.08</b>
Fat %	<b>4.7</b>	Total Longevity (days)	<b>324</b>
Protein kg	<b>55</b>	Calving Difficulty (cow)	<b>2.2</b>
Protein %	<b>3.9</b>	Calving Difficulty (heifer)	<b>5.6</b>
SCC	<b>-0.16</b>	Gestation Length (days)	<b>2.2</b>
Liveweight	<b>88</b>	BetaCasin	<b>A2A2</b>

**NZ Evaluation Data****Traits other than production**

Unregisterable



12/02/2021

**NZ Evaluation Data****Traits other than production**

Unregisterable



12/02/2021

**Australian Indices**

Source: DataGene 07 Dec 2020

BPI/REL %	<b>203/88</b>	Survival	<b>104</b>
ASI	<b>138</b>	Daughter Fertility	<b>108</b>
HWI	<b>230</b>	Calving Ease	<b>101</b>
Milk	<b>245</b>	Overall Type	<b>87</b>
Fat kg	<b>3</b>	Mammary System	<b>90</b>
Protein kg	<b>23</b>	SCC	<b>95</b>

**Australian Indices**

Source: DataGene 07 Dec 2020

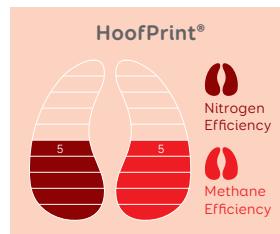
BPI/REL %	<b>396/46</b>	Survival	<b>99</b>
ASI	<b>315</b>	Daughter Fertility	<b>106</b>
HWI	<b>326</b>	Calving Ease	<b>99</b>
Milk	<b>570</b>	Overall Type	<b>102</b>
Fat kg	<b>48</b>	Mammary System	<b>95</b>
Protein kg	<b>41</b>	SCC	<b>110</b>

RETAIL  
\$18.00

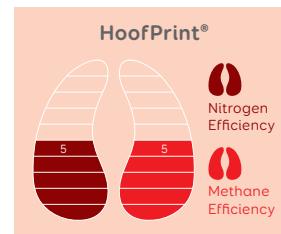
Daughter of 113117 BOMBER

**113117 GREENWELL SH BOMBER S1F****\$116/97%**  
gBW REL

NASIS	NZGREENBOMB
Breed	F16
Pedigree	HAMMER x MINT-EDITION

RETAIL  
\$18.00**114041 MITCHELLS KE HUSTLER S2F****\$165/86%**  
gBW REL

NASIS	NZGHUSTLER
Breed	F15J1
Pedigree	EARNIE x MONARCH



NZ Breeding Values		Daughter Proven	
		4340 Daughters	
Milk Volume (litres)	<b>375</b>	Fertility %	<b>4.7</b>
Fat kg	<b>11</b>	Body Condition Score	<b>-0.02</b>
Fat %	<b>4.6</b>	Total Longevity (days)	<b>258</b>
Protein kg	<b>23</b>	Calving Difficulty (cow)	<b>1.4</b>
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	<b>1.8</b>
SCC	<b>-0.25</b>	Gestation Length (days)	<b>0.7</b>
Liveweight	<b>20</b>	BetaCasin	<b>A1A2</b>

NZ Breeding Values		Daughter Proven	
		90 Daughters	
Milk Volume (litres)	<b>469</b>	Fertility %	<b>2.3</b>
Fat kg	<b>31</b>	Body Condition Score	<b>0.12</b>
Fat %	<b>4.9</b>	Total Longevity (days)	<b>270</b>
Protein kg	<b>26</b>	Calving Difficulty (cow)	<b>-0.3</b>
Protein %	<b>3.9</b>	Calving Difficulty (heifer)	<b>1.6</b>
SCC	<b>0.25</b>	Gestation Length (days)	<b>-2.5</b>
Liveweight	<b>36</b>	BetaCasin	<b>A2A2</b>



Unregisterable



12/02/2021



Unregisterable



12/02/2021

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>156/70</b>	Survival	<b>98</b>
ASI	<b>100</b>	Daughter Fertility	<b>111</b>
HWI	<b>219</b>	Calving Ease	<b>102</b>
Milk	<b>-750</b>	Overall Type	<b>91</b>
Fat kg	<b>-3</b>	Mammary System	<b>93</b>
Protein kg	<b>3</b>	SCC	<b>108</b>

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>213/63</b>	Survival	<b>99</b>
ASI	<b>134</b>	Daughter Fertility	<b>115</b>
HWI	<b>295</b>	Calving Ease	<b>103</b>
Milk	<b>-578</b>	Overall Type	<b>83</b>
Fat kg	<b>19</b>	Mammary System	<b>86</b>
Protein kg	<b>5</b>	SCC	<b>92</b>

**Daughter of 114123 GRAVITY**

**114123 BACKHOUSE EO GRAVITY S2F**

**\$182/87%**  
gBW REL

**Breeding Details**

NASIS	NZBAGRAVITY
Breed	F15J1
Pedigree	OVATION x APPLAUSE

**HoofPrint®**

Nitrogen Efficiency  
Methane Efficiency

**115062 PAALVASTS MT CYCLONE S2F**

**\$217/87%**  
gBW REL

**Breeding Details**

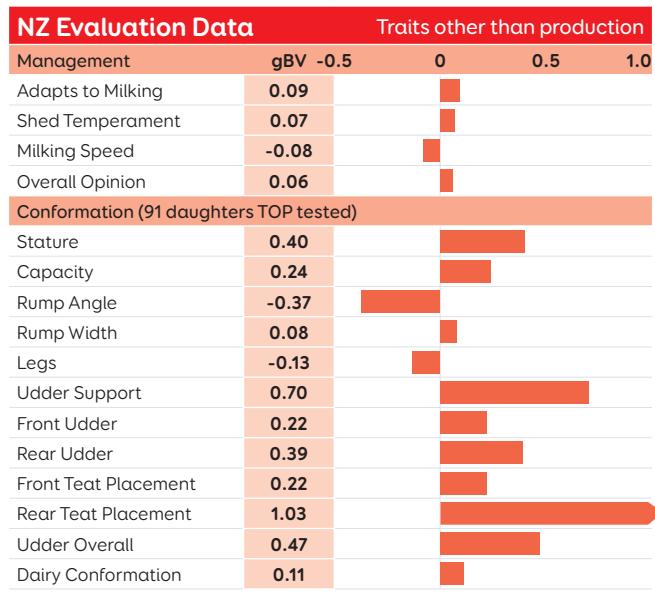
NASIS	NZGCYCLONE
Breed	F16
Pedigree	TYPHOON x MINT-EDITION

**HoofPrint®**

Nitrogen Efficiency  
Methane Efficiency

<b>NEW ZEALAND DETAILS</b>		<b>Daughter Proven</b>	
<b>NZ Breeding Values</b>		<b>93 Daughters</b>	
Milk Volume (litres)	<b>440</b>	Fertility %	<b>0.2</b>
Fat kg	<b>32</b>	Body Condition Score	<b>0.11</b>
Fat %	<b>5.0</b>	Total Longevity (days)	<b>275</b>
Protein kg	<b>22</b>	Calving Difficulty (cow)	<b>0.5</b>
Protein %	<b>3.9</b>	Calving Difficulty (heifer)	<b>0.4</b>
SCC	<b>-0.25</b>	Gestation Length (days)	<b>3.4</b>
Liveweight	<b>21</b>	BetaCasin	<b>A2A2</b>

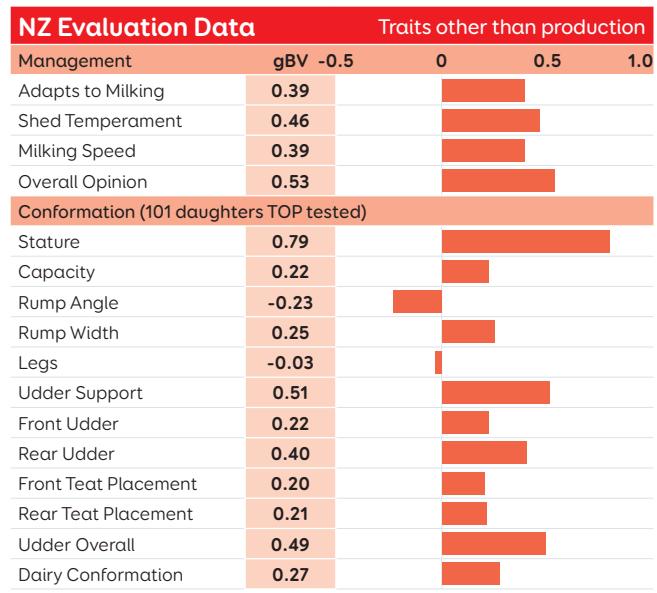
<b>NEW ZEALAND DETAILS</b>		<b>Daughter Proven</b>	
<b>NZ Breeding Values</b>		<b>112 Daughters</b>	
Milk Volume (litres)	<b>710</b>	Fertility %	<b>0.7</b>
Fat kg	<b>49</b>	Body Condition Score	<b>0.00</b>
Fat %	<b>5.0</b>	Total Longevity (days)	<b>332</b>
Protein kg	<b>29</b>	Calving Difficulty (cow)	<b>-0.2</b>
Protein %	<b>3.8</b>	Calving Difficulty (heifer)	<b>0.6</b>
SCC	<b>0.12</b>	Gestation Length (days)	<b>-2.6</b>
Liveweight	<b>43</b>	BetaCasin	<b>A1A1</b>



Unregisterable



12/02/2021



Unregisterable



12/02/2021

**Australian Indices**

Source: DataGene 07 Dec 2020

BPI/REL %	<b>259/57</b>	Survival	<b>101</b>
ASI	<b>159</b>	Daughter Fertility	<b>111</b>
HWI	<b>305</b>	Calving Ease	<b>103</b>
Milk	<b>-321</b>	Overall Type	<b>89</b>
Fat kg	<b>21</b>	Mammary System	<b>90</b>
Protein kg	<b>12</b>	SCC	<b>118</b>

**Australian Indices**

Source: DataGene 07 Dec 2020

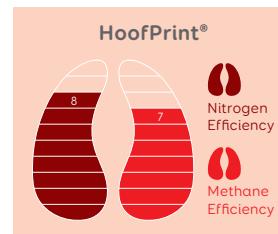
BPI/REL %	<b>282/65</b>	Survival	<b>101</b>
ASI	<b>173</b>	Daughter Fertility	<b>115</b>
HWI	<b>349</b>	Calving Ease	<b>104</b>
Milk	<b>-662</b>	Overall Type	<b>88</b>
Fat kg	<b>34</b>	Mammary System	<b>89</b>
Protein kg	<b>4</b>	SCC	<b>95</b>

RETAIL  
\$18.00

Dam of 115080 SWEET AS

**115080 WESTEDGE VHR  
SWEET AS S2F****\$251/88%**  
gBW REL

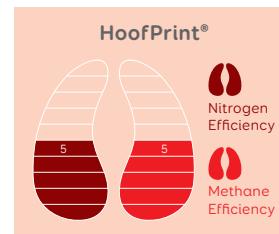
NASIS	NZGSWEETAS
Breed	F16
Pedigree	REMEDY x MINT-EDITION

RETAIL  
\$18.00

Dam of 116066 ESCALADE

**116066 DICKSONS GI  
ESCALADE S3F****\$171/85%**  
gBW REL

NASIS	NZGDIESTLADE
Breed	F15J1
Pedigree	INCA x MINT-EDITION



NZ Breeding Values		Daughter Proven	
		112 Daughters	
Milk Volume (litres)	<b>755</b>	Fertility %	-1.2
Fat kg	<b>50</b>	Body Condition Score	-0.05
Fat %	<b>5.0</b>	Total Longevity (days)	331
Protein kg	<b>41</b>	Calving Difficulty (cow)	0.8
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	4.6
SCC	<b>0.08</b>	Gestation Length (days)	-5.9
Liveweight	<b>40</b>	BetaCasin	A2A2

NZ Breeding Values		Daughter Proven	
		78 Daughters	
Milk Volume (litres)	<b>436</b>	Fertility %	3.9
Fat kg	<b>27</b>	Body Condition Score	0.11
Fat %	<b>4.9</b>	Total Longevity (days)	560
Protein kg	<b>26</b>	Calving Difficulty (cow)	2.3
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	2.4
SCC	<b>0.07</b>	Gestation Length (days)	3.8
Liveweight	<b>55</b>	BetaCasin	A1A2



Unregisterable



12/02/2021

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>231/67</b>	Survival	<b>98</b>
ASI	<b>245</b>	Daughter Fertility	<b>107</b>
HWI	<b>214</b>	Calving Ease	<b>102</b>
Milk	<b>-457</b>	Overall Type	<b>81</b>
Fat kg	<b>35</b>	Mammary System	<b>83</b>
Protein kg	<b>18</b>	SCC	<b>93</b>

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>180/55</b>	Survival	<b>100</b>
ASI	<b>134</b>	Daughter Fertility	<b>110</b>
HWI	<b>216</b>	Calving Ease	<b>99</b>
Milk	<b>-583</b>	Overall Type	<b>95</b>
Fat kg	<b>16</b>	Mammary System	<b>91</b>
Protein kg	<b>5</b>	SCC	<b>91</b>

RETAIL  
\$16.00

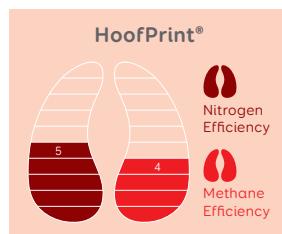
Daughter of 111057 LEGACY

**111057 OAKLINE DI  
LEGACY S2F****\$58/97%**  
gBW REL

NASIS NZGDILEGACEE

Breed F16

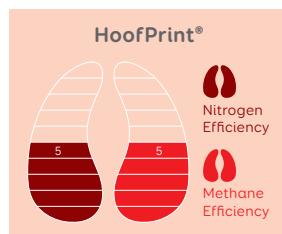
Pedigree IGNITE x APPLAUSE

RETAIL  
\$16.00**112033 CETARA GB  
LONESTAR S3F****\$95/97%**  
gBW REL

NASIS NZGTARASTAR

Breed F16

Pedigree BONZA x PERFORMER



NZ Breeding Values		6815 Daughters	
Milk Volume (litres)	<b>1254</b>	Fertility %	<b>0.0</b>
Fat kg	<b>11</b>	Body Condition Score	<b>0.29</b>
Fat %	<b>3.9</b>	Total Longevity (days)	<b>433</b>
Protein kg	<b>37</b>	Calving Difficulty (cow)	<b>-0.4</b>
Protein %	<b>3.6</b>	Calving Difficulty (heifer)	<b>0.0</b>
SCC	<b>0.05</b>	Gestation Length (days)	<b>-1.2</b>
Liveweight	<b>52</b>	BetaCasin	<b>A1A2</b>

NZ Breeding Values		3431 Daughters	
Milk Volume (litres)	<b>80</b>	Fertility %	<b>-0.1</b>
Fat kg	<b>8</b>	Body Condition Score	<b>-0.08</b>
Fat %	<b>4.8</b>	Total Longevity (days)	<b>349</b>
Protein kg	<b>21</b>	Calving Difficulty (cow)	<b>0.4</b>
Protein %	<b>4.2</b>	Calving Difficulty (heifer)	<b>-1.1</b>
SCC	<b>0.29</b>	Gestation Length (days)	<b>1.5</b>
Liveweight	<b>20</b>	BetaCasin	<b>A2A2</b>

Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.10</b>			
Shed Temperament	<b>0.09</b>			
Milking Speed	<b>0.18</b>			
Overall Opinion	<b>0.22</b>			
<b>Conformation (200 daughters TOP tested)</b>				
Stature	<b>0.66</b>			
Capacity	<b>0.51</b>			
Rump Angle	<b>-0.19</b>			
Rump Width	<b>-0.12</b>			
Legs	<b>0.03</b>			
Udder Support	<b>0.25</b>			
Front Udder	<b>0.43</b>			
Rear Udder	<b>-0.04</b>			
Front Teat Placement	<b>-0.02</b>			
Rear Teat Placement	<b>-0.43</b>			
Udder Overall	<b>0.26</b>			
Dairy Conformation	<b>0.41</b>			

Unregisterable



12/02/2021

Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.34</b>			
Shed Temperament	<b>0.37</b>			
Milking Speed	<b>-0.22</b>			
Overall Opinion	<b>0.36</b>			
<b>Conformation (127 daughters TOP tested)</b>				
Stature	<b>0.46</b>			
Capacity	<b>-0.08</b>			
Rump Angle	<b>-0.09</b>			
Rump Width	<b>0.10</b>			
Legs	<b>-0.20</b>			
Udder Support	<b>0.38</b>			
Front Udder	<b>0.40</b>			
Rear Udder	<b>0.33</b>			
Front Teat Placement	<b>-0.07</b>			
Rear Teat Placement	<b>0.32</b>			
Udder Overall	<b>0.38</b>			
Dairy Conformation	<b>-0.12</b>			

Unregisterable



12/02/2021

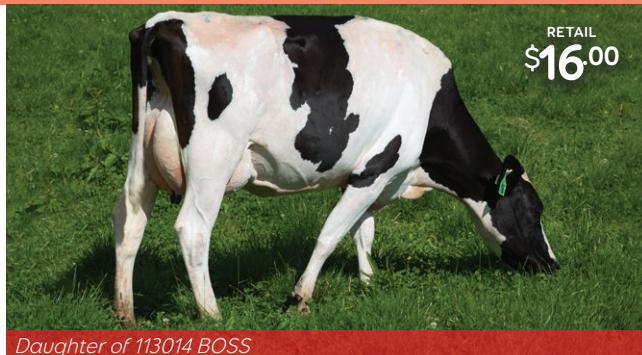
Source: DataGene 07 Dec 2020

BPI/REL %	<b>181/68</b>	Survival	<b>102</b>
ASI	<b>107</b>	Daughter Fertility	<b>112</b>
HWI	<b>246</b>	Calving Ease	<b>103</b>
Milk	<b>480</b>	Overall Type	<b>87</b>
Fat kg	<b>1</b>	Mammary System	<b>86</b>
Protein kg	<b>23</b>	SCC	<b>93</b>

Source: DataGene 07 Dec 2020

BPI/REL %	<b>232/71</b>	Survival	<b>101</b>
ASI	<b>178</b>	Daughter Fertility	<b>110</b>
HWI	<b>267</b>	Calving Ease	<b>103</b>
Milk	<b>-569</b>	Overall Type	<b>85</b>
Fat kg	<b>7</b>	Mammary System	<b>88</b>
Protein kg	<b>15</b>	SCC	<b>84</b>

## 113014 SPRING TRALEE BOSS-ET S3F



Daughter of 113014 BOSS

**\$63/99%**

gBW REL

RETAIL  
**\$16.00**

### NZ Breeding Values

7464 Daughters

Milk Volume (litres)	<b>581</b>	Fertility %	<b>0.9</b>
Fat kg/%	<b>1/4.2</b>	Total Longevity (days)	<b>340</b>
Protein kg/%	<b>25/3.8</b>	Calving Difficulty (cow)	<b>0.9</b>
SCC	<b>-0.15</b>	Gestation Length (days)	<b>-0.5</b>
Liveweight	<b>9</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data

Traits other than production

Management	<b>gBV -0.5</b>	0	0.5	1.0
Overall Opinion	<b>0.14</b>			
Conformation (129 daughters TOP tested)				
Udder Overall	<b>1.30</b>			
Dairy Conformation	<b>0.57</b>			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL % **207/72** ASI **80**

## 114057 MAIRE FI GOLDDIGGER



Daughter of 114057 GOLDDIGGER

**\$167/88%**

gBW REL

RETAIL  
**\$16.00**

### NZ Breeding Values

104 Daughters

Milk Volume (litres)	<b>1087</b>	Fertility %	<b>-2.2</b>
Fat kg/%	<b>44/4.6</b>	Total Longevity (days)	<b>316</b>
Protein kg/%	<b>41/3.8</b>	Calving Difficulty (cow)	<b>0.6</b>
SCC	<b>-0.05</b>	Gestation Length (days)	<b>-4.4</b>
Liveweight	<b>73</b>	BetaCasin	<b>A1A2</b>

### NZ Evaluation Data

Traits other than production

Management	<b>gBV -0.5</b>	0	0.5	1.0
Overall Opinion	<b>0.57</b>			
Conformation (97 daughters TOP tested)				
Udder Overall	<b>1.18</b>			
Dairy Conformation	<b>0.97</b>			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL % **339/68** ASI **237**

## 114023 ARKAN RAN BANDITO S3F



Daughter of 114023 BANDITO

**\$181/87%**

gBW REL

RETAIL  
**\$16.00**

### NZ Breeding Values

104 Daughters

Milk Volume (litres)	<b>481</b>	Fertility %	<b>-1.5</b>
Fat kg/%	<b>27/4.8</b>	Total Longevity (days)	<b>329</b>
Protein kg/%	<b>33/4.1</b>	Calving Difficulty (cow)	<b>0.5</b>
SCC	<b>-0.41</b>	Gestation Length (days)	<b>-3.1</b>
Liveweight	<b>40</b>	BetaCasin	<b>A1A2</b>

### NZ Evaluation Data

Traits other than production

Management	<b>gBV -0.5</b>	0	0.5	1.0
Overall Opinion	<b>0.38</b>			
Conformation (99 daughters TOP tested)				
Udder Overall	<b>0.43</b>			
Dairy Conformation	<b>0.53</b>			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL % **271/65** ASI **196**

## 114054 MEANDER SB WINGMAN-ET S3F



Dam of 115054 WINGMAN

**\$154/92%**

gBW REL

RETAIL  
**\$16.00**

### NZ Breeding Values

623 Daughters

Milk Volume (litres)	<b>479</b>	Fertility %	<b>-1.3</b>
Fat kg/%	<b>25/4.8</b>	Total Longevity (days)	<b>413</b>
Protein kg/%	<b>23/3.9</b>	Calving Difficulty (cow)	<b>0.3</b>
SCC	<b>-0.22</b>	Gestation Length (days)	<b>-4.0</b>
Liveweight	<b>12</b>	BetaCasin	<b>A1A2</b>

### NZ Evaluation Data

Traits other than production

Management	<b>gBV -0.5</b>	0	0.5	1.0
Overall Opinion	<b>0.25</b>			
Conformation (83 daughters TOP tested)				
Udder Overall	<b>1.21</b>			
Dairy Conformation	<b>0.08</b>			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL % **273/69** ASI **161**



12/02/2021

# ALL BULLS

Page Number	NZAB Code	Bull Name	Price Retail	Beta Casein	gBW	Rel%	Milk Volume (litres)	Fat kg	Protein kg	SCC	Fertility %	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length (days)	Liveweight	Overall Opinion	Stature	Capacity	Udder Overall	Dairy Conformation
<b>Holstein Friesian</b>																				
13	117068	MEANDER SB ARROW-ET S2F	\$26	A1A2	307	81	455	44	38	0.29	2.4	1.1	-0.5	-6.6	25	0.77	0.35	0.25	0.68	0.36
18	115021	GORDONS AM LANCELOT S3F	\$22	A1A1	248	96	682	38	42	0.10	0.4	1.7	1.3	-1.9	35	0.24	0.58	0.54	0.26	0.59
16	114007	BUSY BROOK WTP VECTOR S3F *	\$22	A1A1	240	87	1024	44	42	-0.27	8.2	0.7	0.0	-1.9	95	0.93	1.11	0.85	0.42	0.76
24	111037	SAN RAY FM BEAMER-ET S2F	\$22	A1A2	226	99	790	40	40	0.40	1.6	0.7	0.3	-4.1	38	0.26	0.57	0.79	0.53	0.87
23	112080	MAIRE MINT FIRE-UP	\$22	A2A2	154	97	1390	49	60	0.23	-1.1	2.8	0.7	-4.4	121	0.72	2.22	0.96	0.74	1.20
17	113086	MAIRE IG GAUNTLET-ET *	\$22	A2A2	79	93	1401	27	46	0.13	-1.8	3.2	2.4	0.2	72	0.95	0.90	1.14	0.88	1.02
14	118070	TAFTS GR SUPERVISOR S1F	\$20	A2A2	276	59	719	45	39	-0.01	-0.7	1.8	1.0	-11.3	31	0.80	0.63	-0.13	0.45	0.12
22	116019	WERDERS DE OVERTIME S1F *	\$20	A2A2	265	88	382	43	31	0.61	0.7	6.0	1.7	-7.6	-4	0.43	-0.13	0.16	0.53	0.29
15	116036	ARKAN MGH BACKDROP-ET S2F *	\$20	A1A2	235	91	257	26	28	0.04	2.5	-1.6	0.1	-6.6	52	0.54	0.56	0.29	0.29	0.19
26	117015	DICKSONS GF GO-GETTER-ET	\$20	A2A2	229	78	1301	59	55	-0.16	-4.9	5.6	2.2	2.2	88	0.42	1.01	1.40	0.65	1.30
25	115046	TRALEE GB RESONATE-ET S3F *	\$20	A1A2	219	87	255	28	22	-0.16	3.8	0.4	-0.3	-3.3	32	0.35	0.17	0.51	0.37	0.37
19	117035	BELLAMYS MH GAMBIT-ET S2F	\$20	A2A2	211	80	756	31	34	0.19	2.2	2.0	2.3	-3.8	54	0.62	0.61	0.27	0.50	0.26
14	119064	MEANDER MG ARENA-ET S3F	\$20	A2A2	209	61	1137	44	45	0.38	2.1	2.7	0.8	-6.3	62	0.84	0.86	0.83	1.13	0.80
15	119012	FANANA BM EXCELLENT S2F	\$20	A2A2	201	61	179	24	15	-0.35	5.9	0.9	0.5	-3.6	22	0.43	0.18	0.66	1.18	0.63
24	116078	MEANDER SB ALAMO S2F	\$20	A1A2	198	86	931	39	45	0.43	2.4	-0.4	-0.2	-0.5	70	0.34	1.16	0.84	0.27	0.91
21	117090	TRONNOCO MH SAMBA-ETS3F *	\$20	A2A2	194	80	1180	36	50	0.31	0.3	3.1	4.1	-1.5	33	0.50	0.72	0.19	0.89	0.39
23	113120	BOTHWELL WT MAXIMA S2F	\$20	A1A2	185	98	479	30	22	-0.17	1.4	0.9	0.4	-1.4	9	0.48	0.11	0.39	0.86	0.44
20	116065	DICKSONS BG MANDATE S1F *	\$20	A2A2	176	92	-101	18	10	-0.23	3.3	-1.7	-0.3	-2.0	19	0.22	0.40	0.53	0.67	0.60
25	116060	ON-DER-REY MA APPROVE S2F *	\$20	A2A2	170	85	1043	17	44	-0.09	2.5	1.2	0.7	2.0	27	0.41	0.43	0.71	0.36	0.71
29	115080	WESTEDGE VHR SWEET AS S2F	\$18	A2A2	251	88	755	50	41	0.08	-1.2	4.6	0.8	-5.9	40	0.56	0.59	0.11	0.16	0.31
28	115062	PAALVASTS MT CYCLONE S2F	\$18	A1A1	217	87	710	49	29	0.12	0.7	0.6	-0.2	-2.6	43	0.53	0.79	0.22	0.49	0.27
28	114123	BACKHOUSE EO GRAVITY S2F	\$18	A2A2	182	87	440	32	22	-0.25	0.2	0.4	0.5	3.4	21	0.06	0.40	0.24	0.47	0.11
29	116066	DICKSONS GI ESCALADE S3F	\$18	A1A2	171	85	436	27	26	0.07	3.9	2.4	2.3	3.8	55	0.34	0.94	0.36	0.69	0.53
27	114041	MITCHELLS KE HUSTLER S2F	\$18	A2A2	165	86	469	31	26	0.25	2.3	1.6	-0.3	-2.5	36	0.50	0.65	0.33	0.33	0.36
26	110080	MOURNE GROVE HOTHOUSE S2F	\$18	A2A2	124	99	1088	17	38	0.01	1.7	0.5	0.7	-4.5	44	0.38	0.77	-0.14	0.74	0.05
27	113117	GREENWELL SH BOMBER S1F	\$18	A1A2	116	97	375	11	23	-0.25	4.7	1.8	1.4	0.7	20	0.06	0.36	0.04	0.98	0.13
31	114023	ARKAN RAN BANDITO S3F	\$16	A1A2	181	87	481	27	33	-0.41	-1.5	-0.1	0.5	-3.1	40	0.38	0.53	0.65	0.43	0.53
31	114057	MAIRE FI GOLDDIGGER	\$16	A1A2	167	88	1087	44	41	-0.05	-2.2	5.0	0.6	-4.4	73	0.57	1.04	0.94	1.18	0.97
31	115054	MEANDER SB WINGMAN-ET S3F	\$16	A1A2	154	92	479	25	23	-0.22	-1.3	2.5	0.3	-4.0	12	0.25	0.42	-0.07	1.21	0.08
30	112033	CETARA GB LONESTAR S3F	\$16	A2A2	95	97	80	8	21	0.29	-0.1	-1.1	0.4	1.5	20	0.36	0.46	-0.08	0.38	-0.12
31	113014	SPRING TRALEE BOSS-ET S3F	\$16	A2A2	63	99	581	1	25	-0.15	0.9	0.0	0.9	-0.5	9	0.14	0.25	0.43	1.30	0.57
30	111057	OAKLINE DI LEGACY S2F	\$16	A1A2	58	97	1254	11	37	0.05	0.0	0.0	-0.4	-1.2	52	0.22	0.66	0.51	0.26	0.41
<b>Holstein Friesian also available</b>																				
110049	SAVANNAHS HF HAMMER S1F *	\$18	A2A2	168	99	583	23	25	-0.33	1.2	2.1	0.0	-2.7	15	0.34	0.33	0.19	0.65	0.22	
112063	PADRUTTS GB TOPNOTCH S2F *	\$16	A1A2	141	97	971	19	34	-0.04	0.9	0.6	-0.5	1.1	19	0.58	0.44	0.64	0.33	0.57	
118069	COSTERS POLICE PP-ET S3F	\$16	A2A2	114	60	432	0	20	-0.40	1.0	0.5	-0.5	-2.4	-3	0.35	-0.07	-0.12	0.31	-0.14	
115084	GREENWELL SB FORAY-ET S3F	\$16	A2A2	102	95	1191	24	46	-0.08	-1.2	5.9	1.0	-0.8	41	0.35	0.71	0.95	1.16	1.19	
113053	MITCHELLS WT TYPHOON S2F	\$12	A1A2	116	99	308	20	21	-0.38	0.0	3.6	0.1	-2.6	40	0.37	1.04	0.51	0.51	0.51	
107075	GOOCHS LM HEROIC S2F	\$12	A1A1	89	98	486	16	26	0.05	2.8	8.0	2.8	0.7	45	0.21	0.98	0.41	0.51	0.50	
111082	HAZEL FM MAJESTIC-ET	\$12	A1A2	87	99	1535	25	42	0.26	-1.5	5.0	2.1	-0.7	25	0.55	0.77	-0.25	0.61	0.21	
112054	BAGWORTH SH KEEPSAKE S2F	\$12	A1A2	76	98	1149	19	32	-0.24	-2.6	1.9	0.8	-0.4	18	0.40	0.33	-0.15	0.34	0.01	
111078	BUSY BROOK RAPTURE-ET S3F	\$12	A1A2	73	99	579	16	23	-0.08	-2.3	4.3	1.4	4.9	41	0.33	0.65	0.66	0.61	0.72	
108187	WHINLEA GN EXPRESS-ET S3F	\$12	A1A2	72	99	467	12	22	0.27	-0.2	-0.7	-0.2	-0.5	14	-0.01	0.49	0.14	0.40	0.17	
112024	RANGEVIEW B WORTHY-ET S3F	\$12	A2A2	70	92	750	17	27	-0.40	-2.1	3.2	-0.1	-6.2	27	0.51	0.53	0.27	0.73	0.31	
112028	ARKAN HR CELESTIAL S2F	\$12	A2A2	55	95	1531	24	42	0.08	-3.2	-0.5	0.4	-4.5	62	0.16	0.57	0.73	0.21	0.39	
104021	BUCHANANS EARLYTIME S2F	\$12	A1A2	51	98	1240	14	39	0.13	-3.8	2.0	0.2	6.3	26	0.23	0.59	-0.28	-0.20	-0.29	
109068	RABARTS TF TOP DOG S2F	\$12	A1A2	49	99	990	6	37	0.05	-2.5	3.4	2.4	3.8	29	0.49	0.65	0.33	0.17	0.49	
112049	KAIMORE HERO EARNIE S2F	\$12	A1A2	38	98	474	5	19	0.02	0.6	1.9	1.3	-1.4	35	0.30	0.38	0.47	0.71	0.50	
111053	KINGSDOWN MH JUBILANT S2F *	\$12	A1A2	25	99	744	7	30	0.01	-2.4	1.3	0.0	-3.1	27	0.15	0.68	0.20	0.53	0.30	
105102	OCONNORS CL BUOYANT S1F	\$12	A1A2	23	89	691	3	27	-0.31	3.9	4.8	1.6	0.0	66	0.57	0.89	0.36	0.29	0.30	
109238	KAILEY FORMAT KAGE	\$12	A2A2	6	97	1355	15	42	-0.20	0.7	2.6	4.8	0.6	83	0.17	1.53	0.55	0.88	0.61	
111044	WAIAU MAX TOMMO S3F	\$12	A1A2	-5	98	496	0	21	-0.23	0.0	6.0	0.8	0.1	35	0.49	0.54	0.73	0.57	0.70	
106024	UPTONS DANO EVOLUTION	\$12	A2A2	-16	89	543	-3	20	0.20	2.0	1.7	2.8	4.5	59	0.50	0.99	0.01	-0.03	0.22	
111087	MEANDER MW EMPHATIC S2F	\$12	A1A2	-18	98	618	6	23	0.39	-2.7	1.8	0.6	1.3	38	-0.04	0.65	0.23	0.83	0.30	
113051	TAFTS WT TITANIUM S3F	\$12	A2A2	-19	96	553	-5	30	-0.09	1.0	2.9	2.1	2.5	59	0.37	0.93	0.88	1.23	0.86	
101122	MERRICKS HUGO ROBUST S1F	\$12	A1A2	-31	87	644	8	17	0.10	-0.5	4.4	1.1	0.0	32	-0.03	0.49	0.48	0.41	0.51	

\* Sexed semen is offered for Single AI use only, see page 10 for more information



12/02/2021

# TOP 5 PERFORMERS

## Breeding Worth

National herd breed average: \$48

NASIS	Name	gBW\$/Rel%	Page
NZGMEARROW	ARROW	307 / 81	13
NZGSUPERVISR	SUPERVISOR	276 / 59	14
NZGOVERTIME	OVERTIME	265 / 88	22
NZGSWEETAS	SWEET AS	251 / 88	29
NZGGOLANCE	LANCELOT	248 / 96	18

## BPI

NASIS	Name	BPI / Rel %	Page
NZGBBVECTOR	VECTOR	404 / 66	16
NZGOGETTER	GO-GETTER	396 / 46	26
NZGRAYBEAM	BEAMER	359 / 85	24
NZGMEARROW	ARROW	352 / 51	13
NZGMAIREGOLD	GOLDDIGGER	339 / 68	31

## Protein

National herd breed average: 21 kg

NASIS	Name	Protein kg / %	Page
NZGFIREUP	FIRE-UP	60 / 3.9	23
NZGOGETTER	GO-GETTER	55 / 3.9	26
NZGSAMBA	SAMBA	50 / 3.9	21
NZGMAIRGAUNT	GAUNTLET	46 / 3.7	17
NZGMEALAMO	ALAMO	45 / 4.0	24

## Fat

National herd breed average: 13 kg

NASIS	Name	Fat kg / %	Page
NZGOGETTER	GO-GETTER	59 / 4.7	26
NZGSWEETAS	SWEET AS	50 / 5.0	29
NZGFIREUP	FIRE-UP	49 / 4.5	23
NZCCYCLONE	CYCLONE	49 / 5.0	28
NZGSUPERVISR	SUPERVISOR	45 / 4.9	14

## Fertility

National herd breed average: -0.4%

NASIS	Name	Fertility %	Page
NZGBBVECTOR	VECTOR	8.2	16
NZGFANEXCELL	EXCELLENT	5.9	15
NZGGREENBOMB	BOMBER	4.7	27
NZGDIESCLADE	ESCALADE	3.9	29
NZGRESONATE	RESONATE	3.8	25

## Milk Volume

National herd breed average: 556 l

NASIS	Name	Litres	Page
NZGMAIRGAUNT	GAUNTLET	1401	17
NZGFIREUP	FIRE-UP	1390	23
NZGOGETTER	GO-GETTER	1301	26
NZGDILEGACEE	LEGACY	1254	30
NZGSAMBA	SAMBA	1180	21

## SCC

National herd breed average: 0.05

NASIS	Name	SCC	Page
NZGBANDITO	BANDITO	-0.41	31
NZGFANEXCELL	EXCELLENT	-0.35	15
NZGBBVECTOR	VECTOR	-0.27	16
NZGBAGRAVITY	GRAVITY	-0.25	28
NZGGREENBOMB	BOMBER	-0.25	27

## Capacity

National herd breed average: 0.16

NASIS	Name	Capacity	Page
NZGOGETTER	GO-GETTER	1.40	26
NZGMAIRGAUNT	GAUNTLET	1.14	17
NZGFIREUP	FIRE-UP	0.96	23
NZGMAIREGOLD	GOLDDIGGER	0.94	31
NZGBBVECTOR	VECTOR	0.85	16

## Udder Overall

National herd breed average: 0.19

NASIS	Name	Udder Overall	Page
NZGLEEBOSS	BOSS	1.30	31
NZGMEANDWING	WINGMAN	1.21	31
NZGFANEXCELL	EXCELLENT	1.18	15
NZGMAIREGOLD	GOLDDIGGER	1.18	31
NZGMEARENA	ARENA	1.13	14

## Heifer Calving Difficulty

National herd breed average: 2.0

NASIS	Name	Calving Difficulty	Page
NZGDIMANDATE	MANDATE	-1.7	20
NZGBACKDROP	BACKDROP	-1.6	15
NZGTARASTAR	LONESTAR	-1.1	30
NZGMEALAMO	ALAMO	-0.4	24
NZGBANDITO	BANDITO	-0.1	31

# 2021 Jersey



*Dennis and Penny Cervi, Trafalgar, Victoria*



Dam of 315045 HOSS

## 315045 GLENUI DEGREE HOSS ET



Daughter of 315045 HOSS



### Australian Indices

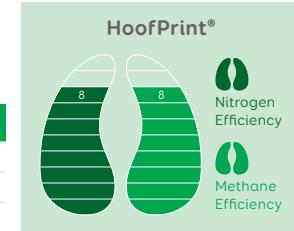
Source: DataGene 07 Dec 2020

BPI/REL %	<b>312/68</b>	Survival	<b>101</b>
ASI	<b>214</b>	Daughter Fertility	<b>103</b>
HWI	<b>251</b>	Liveweight	<b>101</b>
Milk	<b>-505</b>	Overall Type	<b>96</b>
Fat kg	<b>34</b>	Mammary System	<b>97</b>
Protein kg	<b>13</b>	SCC	<b>138</b>

\$324/88%  
gBW REL

### Breeding Details

NASIS	NZGGLENHOSS
Breed	J16
Pedigree	DEGREE x BOWIE



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven 109 Daughters	
Milk Volume (litres)	<b>-400</b>	Fertility %	<b>4.7</b>
Fat kg	<b>32</b>	Body Condition Score	<b>0.24</b>
Fat %	<b>6.0</b>	Total Longevity (days)	<b>415</b>
Protein kg	<b>9</b>	Calving Difficulty (cow)	<b>-0.7</b>
Protein %	<b>4.4</b>	Calving Difficulty (heifer)	<b>-1.5</b>
SCC	<b>-0.36</b>	Gestation Length (days)	<b>2.3</b>
Liveweight	<b>-37</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data

	Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	<b>-0.07</b>				
Shed Temperament	<b>-0.01</b>				
Milking Speed	<b>0.19</b>				
Overall Opinion	<b>0.16</b>				
<b>Conformation (98 daughters TOP tested)</b>					
Stature	<b>-0.66</b>				
Capacity	<b>0.30</b>				
Rump Angle	<b>0.03</b>				
Rump Width	<b>0.01</b>				
Legs	<b>0.11</b>				
Udder Support	<b>0.49</b>				
Front Udder	<b>0.47</b>				
Rear Udder	<b>0.71</b>				
Front Teat Placement	<b>0.18</b>				
Rear Teat Placement	<b>-0.02</b>				
Udder Overall	<b>0.63</b>				
Dairy Conformation	<b>0.35</b>				

Registrable



12/02/2021



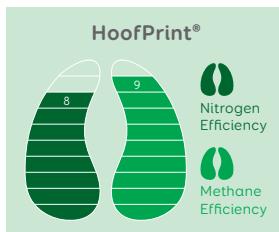
Dam of 315029 TRIGGER

## 315029 THORNWOOD DEGREE TRIGGER

**\$298/94%**  
gBW REL

### Breeding Details

NASIS	NZGTHORNTRIG
Breed	J16
Pedigree	DEGREE x MANZELLO



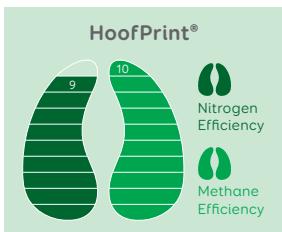
Dam of 318009 SUPERMAN

## 318009 TIRONUI SUPERMAN ET

**\$345/63%**  
gBW REL

### Breeding Details

NASIS	NZGTIROMAN
Breed	J16
Pedigree	SUPERSTITION x INTEGRITY



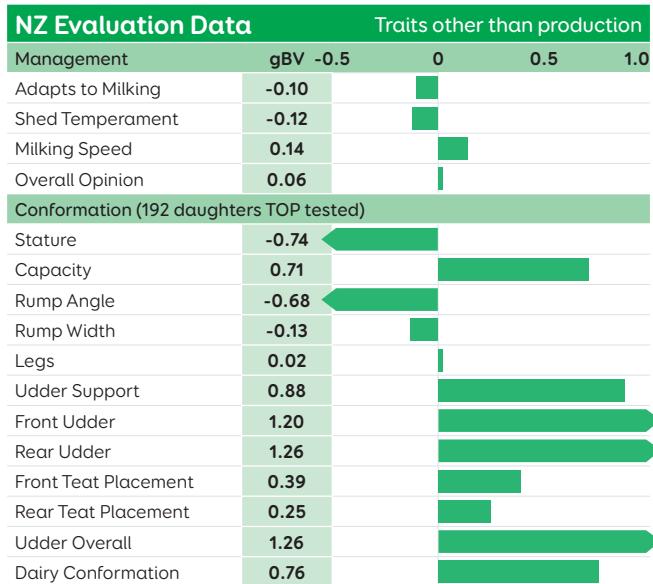
### NEW ZEALAND DETAILS

NZ Breeding Values		1175 Daughters	
Milk Volume (litres)	-453	Fertility %	2.5
Fat kg	31	Body Condition Score	0.15
Fat %	6.0	Total Longevity (days)	424
Protein kg	7	Calving Difficulty (cow)	-1.0
Protein %	4.4	Calving Difficulty (heifer)	-1.7
SCC	-0.17	Gestation Length (days)	-4.5
Liveweight	-33	BetaCasin	A2A2

### NEW ZEALAND DETAILS

NZ Breeding Values		0 Daughters	
Milk Volume (litres)	-445	Fertility %	1.5
Fat kg	42	Body Condition Score	0.05
Fat %	6.3	Total Longevity (days)	441
Protein kg	15	Calving Difficulty (cow)	0.0
Protein %	4.5	Calving Difficulty (heifer)	-1.8
SCC	-0.01	Gestation Length (days)	-2.1
Liveweight	-25	BetaCasin	A2A2

### NZ Evaluation Data

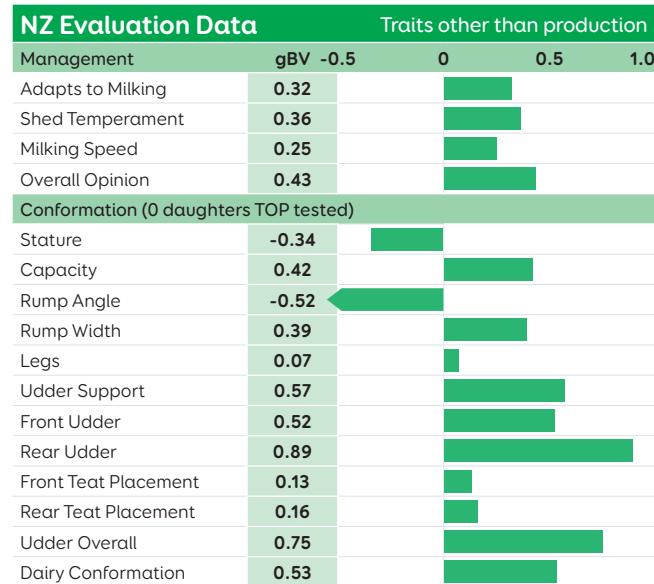


Registrable



12/02/2021

### NZ Evaluation Data



Registrable



12/02/2021

### Australian Indices

		Source: DataGene 07 Dec 2020	
BPI/REL %	255/69	Survival	102
ASI	184	Daughter Fertility	102
HWI	197	Liveweight	102
Milk	-382	Overall Type	102
Fat kg	31	Mammary System	103
Protein kg	12	SCC	126

### Comments from LIC Livestock Selection Manager:

When you call a bull Superman you know he has big shoes to fill. However, bulls from the famous Tironui stud have a history of delivering. New top-ranking Jersey graduate Besiege is another in a long list of Tironui bulls to have made an impact. A top ranking genomic sire, Superman is a lovely balance of production and type with rock-solid pedigree.



Daughter of 316039 GALLIVANT

## 316039 ULMARRATT GALLIVANT



Daughter of 316039 GALLIVANT



### Australian Indices

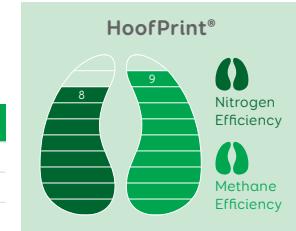
Source: DataGene 07 Dec 2020

BPI/REL %	<b>241/56</b>	Survival	<b>99</b>
ASI	<b>250</b>	Daughter Fertility	<b>101</b>
HWI	<b>128</b>	Liveweight	<b>106</b>
Milk	<b>-172</b>	Overall Type	<b>96</b>
Fat kg	<b>47</b>	Mammary System	<b>94</b>
Protein kg	<b>20</b>	SCC	<b>113</b>

\$344/87%  
gBW REL

### Breeding Details

NASIS	NZGGALLIVANT
Breed	J16
Pedigree	THOR x EXCELL



### NEW ZEALAND DETAILS

#### NZ Breeding Values

Daughter Proven

136 Daughters

Milk Volume (litres)	<b>-242</b>	Fertility %	<b>2.8</b>
Fat kg	<b>47</b>	Body Condition Score	<b>0.12</b>
Fat %	<b>6.1</b>	Total Longevity (days)	<b>516</b>
Protein kg	<b>14</b>	Calving Difficulty (cow)	<b>-2.1</b>
Protein %	<b>4.3</b>	Calving Difficulty (heifer)	<b>-1.5</b>
SCC	<b>0.00</b>	Gestation Length (days)	<b>-0.3</b>
Liveweight	<b>-12</b>	BetaCasin	<b>A1A2</b>

#### NZ Evaluation Data

Traits other than production

Management	<b>gBV -0.5</b>	0	0.5	1.0
Adapts to Milking	<b>0.29</b>			
Shed Temperament	<b>0.38</b>			
Milking Speed	<b>0.08</b>			
Overall Opinion	<b>0.40</b>			
<b>Conformation (117 daughters TOP tested)</b>				
Stature	<b>-0.26</b>			
Capacity	<b>0.64</b>			
Rump Angle	<b>-0.19</b>			
Rump Width	<b>-0.07</b>			
Legs	<b>0.08</b>			
Udder Support	<b>0.31</b>			
Front Udder	<b>0.70</b>			
Rear Udder	<b>0.73</b>			
Front Teat Placement	<b>0.05</b>			
Rear Teat Placement	<b>-0.08</b>			
Udder Overall	<b>0.62</b>			
Dairy Conformation	<b>0.62</b>			

Unregisterable



12/02/2021

Available in  
**4M®**

RETAIL  
\$20.00  
SEXED  
\$48.00



Daughter of 315009 DEXTER

## 315009 RIVERVIEW AND DEXTER S2J

**\$278 / 87%**  
gBW REL

### Breeding Details

NASIS	NZGRIVERDEX
Breed	J16
Pedigree	DEGREE x MURMUR



### NEW ZEALAND DETAILS

#### Daughter Proven

NZ Breeding Values		98 Daughters	
Milk Volume (litres)	-56	Fertility %	3.3
Fat kg	26	Body Condition Score	0.23
Fat %	5.4	Total Longevity (days)	462
Protein kg	18	Calving Difficulty (cow)	-0.1
Protein %	4.2	Calving Difficulty (heifer)	-0.8
SCC	-0.21	Gestation Length (days)	-1.3
Liveweight	-22	BetaCasin	A2A2

### NZ Evaluation Data

#### Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	0.17				
Shed Temperament	0.13				
Milking Speed	0.32				
Overall Opinion	0.35				
Conformation (93 daughters TOP tested)					
Stature	-0.49				
Capacity	0.62				
Rump Angle	-0.11				
Rump Width	0.32				
Legs	0.00				
Udder Support	0.46				
Front Udder	0.58				
Rear Udder	0.37				
Front Teat Placement	0.69				
Rear Teat Placement	0.72				
Udder Overall	0.67				
Dairy Conformation	0.60				



Daughter of 315009 DEXTER



### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %	283/63	Survival	102
ASI	245	Daughter Fertility	99
HWI	171	Liveweight	104
Milk	176	Overall Type	97
Fat kg	36	Mammary System	96
Protein kg	28	SCC	128

Unregisterable



12/02/2021



Daughter of 317006 TENOR

## 317006 WILLIAMS PCG TENOR



Daughter of 317006 TENOR



### Australian Indices

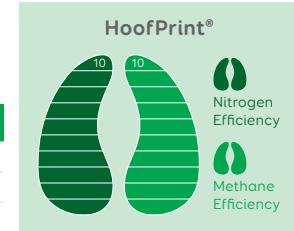
Source: DataGene 07 Dec 2020

BPI/REL %	<b>151/46</b>	Survival	<b>97</b>
ASI	<b>179</b>	Daughter Fertility	<b>99</b>
HWI	<b>90</b>	Liveweight	<b>98</b>
Milk	<b>316</b>	Overall Type	<b>96</b>
Fat kg	<b>32</b>	Mammary System	<b>96</b>
Protein kg	<b>22</b>	SCC	<b>94</b>

**\$308/80%**  
gBW REL

### Breeding Details

NASIS	NZGWILLTENOR
Breed	J16
Pedigree	GOLDIE x INTEGRITY



### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

87 Daughters

Milk Volume (litres)	<b>144</b>	Fertility %	<b>3.2</b>
Fat kg	<b>30</b>	Body Condition Score	<b>0.10</b>
Fat %	<b>5.2</b>	Total Longevity (days)	<b>564</b>
Protein kg	<b>19</b>	Calving Difficulty (cow)	<b>-1.7</b>
Protein %	<b>4.1</b>	Calving Difficulty (heifer)	<b>-1.5</b>
SCC	<b>0.12</b>	Gestation Length (days)	<b>0.5</b>
Liveweight	<b>-51</b>	BetaCasin	<b>A2A2</b>

#### NZ Evaluation Data

Traits other than production

Management	<b>gBV -0.5</b>	0	0.5	1.0
Adapts to Milking	<b>0.32</b>			
Shed Temperament	<b>0.39</b>			
Milking Speed	<b>0.26</b>			
Overall Opinion	<b>0.44</b>			
<b>Conformation (80 daughters TOP tested)</b>				
Stature	<b>-0.96</b>			
Capacity	<b>0.42</b>			
Rump Angle	<b>-0.46</b>			
Rump Width	<b>-0.03</b>			
Legs	<b>0.01</b>			
Udder Support	<b>0.36</b>			
Front Udder	<b>0.18</b>			
Rear Udder	<b>0.70</b>			
Front Teat Placement	<b>0.10</b>			
Rear Teat Placement	<b>0.12</b>			
Udder Overall	<b>0.53</b>			
Dairy Conformation	<b>0.50</b>			

Unregisterable



12/02/2021

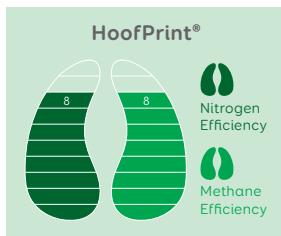


## 314004 BELLS OI FLOYD S3J

**\$304/95%**  
gBW REL

### Breeding Details

NASIS	NZGBELFLOYD
Breed	J15F1
Pedigree	INTEGRITY x ASCENT



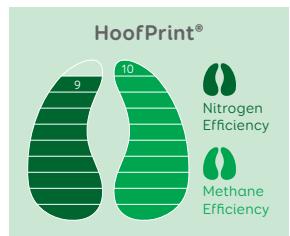
Dam of 314012 LEOPARD

## 314012 KAITAKA OI LEOPARD ET

**\$306/94%**  
gBW REL

### Breeding Details

NASIS	NZGKAITALEO
Breed	J16
Pedigree	INTEGRITY x MAUNGA



### NEW ZEALAND DETAILS

### Daughter Proven

NZ Breeding Values		888 Daughters	
Milk Volume (litres)	<b>106</b>	Fertility %	<b>1.8</b>
Fat kg	<b>37</b>	Body Condition Score	<b>0.33</b>
Fat %	<b>5.4</b>	Total Longevity (days)	<b>575</b>
Protein kg	<b>19</b>	Calving Difficulty (cow)	<b>-1.1</b>
Protein %	<b>4.1</b>	Calving Difficulty (heifer)	<b>-1.6</b>
SCC	<b>-0.21</b>	Gestation Length (days)	<b>-2.1</b>
Liveweight	<b>-5</b>	BetaCasin	<b>A2A2</b>

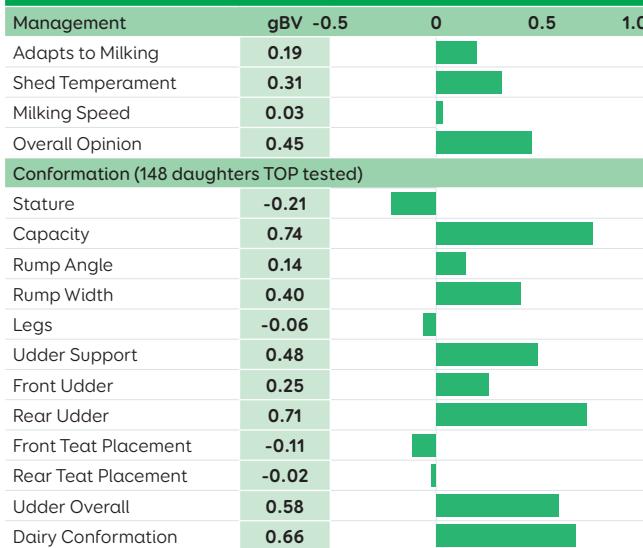
### NEW ZEALAND DETAILS

### Daughter Proven

NZ Breeding Values		740 Daughters	
Milk Volume (litres)	<b>-612</b>	Fertility %	<b>2.2</b>
Fat kg	<b>27</b>	Body Condition Score	<b>-0.03</b>
Fat %	<b>6.2</b>	Total Longevity (days)	<b>470</b>
Protein kg	<b>3</b>	Calving Difficulty (cow)	<b>-0.5</b>
Protein %	<b>4.4</b>	Calving Difficulty (heifer)	<b>-2.0</b>
SCC	<b>-0.29</b>	Gestation Length (days)	<b>-4.1</b>
Liveweight	<b>-58</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data

### Traits other than production



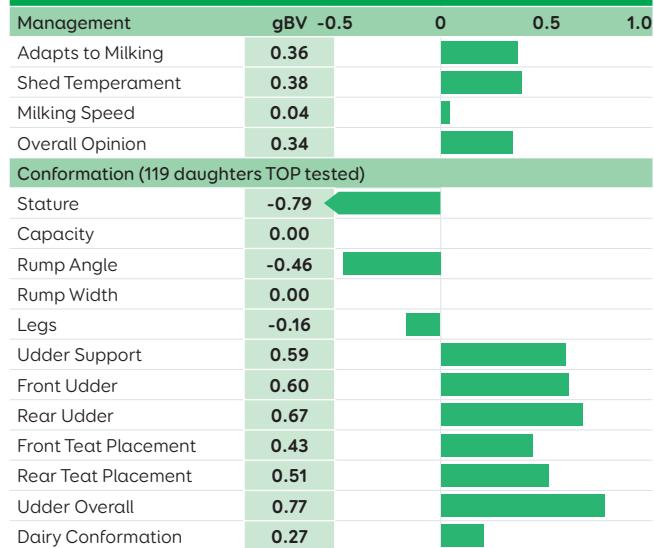
Unregisterable



12/02/2021

### NZ Evaluation Data

### Traits other than production



Registerable



12/02/2021

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %	<b>248/67</b>	Survival	<b>100</b>
ASI	<b>236</b>	Daughter Fertility	<b>99</b>
HWI	<b>119</b>	Liveweight	<b>106</b>
Milk	<b>289</b>	Overall Type	<b>94</b>
Fat kg	<b>36</b>	Mammary System	<b>92</b>
Protein kg	<b>29</b>	SCC	<b>122</b>

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %	<b>252/71</b>	Survival	<b>99</b>
ASI	<b>210</b>	Daughter Fertility	<b>105</b>
HWI	<b>223</b>	Liveweight	<b>97</b>
Milk	<b>-629</b>	Overall Type	<b>94</b>
Fat kg	<b>27</b>	Mammary System	<b>96</b>
Protein kg	<b>13</b>	SCC	<b>125</b>

## 311013 OKURA LT INTEGRITY



**\$320/99%**

gBW REL

NASIS	NZGINTEGRITY
Breed	J16
Pedigree	TERRIFIC x LIKABULL

### NZ Breeding Values

24884 Daughters

Milk Volume (litres)	-279	Fertility %	0.1
Fat kg/%	33/5.8	Total Longevity (days)	537
Protein kg/%	9/4.2	Calving Difficulty (cow)	-0.6
SCC	-0.04	Gestation Length (days)	-0.2
Liveweight	-46	BetaCasin	A1A2

### NZ Evaluation Data

Traits other than production

Management	gBV -0.5	0	0.5	1.0
Overall Opinion	0.37			
Conformation (1329 daughters TOP tested)				
Udder Overall	0.62			
Dairy Conformation	0.77			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL % 181/88 ASI 233

## 312014 CHARDONNAY FRANKIE



Daughter of 312014 FRANKIE

**\$262/98%**

gBW REL

NASIS	NZCHARFRANK
Breed	J16
Pedigree	MURMUR x GREENMAN

### NZ Breeding Values

9724 Daughters

Milk Volume (litres)	-450	Fertility %	5.2
Fat kg/%	8/5.5	Total Longevity (days)	509
Protein kg/%	6/4.3	Calving Difficulty (cow)	-0.7
SCC	-0.41	Gestation Length (days)	0.3
Liveweight	-63	BetaCasin	A2A2

### NZ Evaluation Data

Traits other than production

Management	gBV -0.5	0	0.5	1.0
Overall Opinion	0.35			
Conformation (382 daughters TOP tested)				
Udder Overall	0.10			
Dairy Conformation	0.16			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL % 217/73 ASI 187

## 312004 GLANTON LT BRAHMS



**\$262/99%**

gBW REL

NASIS	NZGBRAHMS
Breed	J16
Pedigree	TOPAZ x MANHATTEN

### NZ Breeding Values

3781 Daughters

Milk Volume (litres)	-371	Fertility %	-3.2
Fat kg/%	38/6.1	Total Longevity (days)	8
Protein kg/%	17/4.5	Calving Difficulty (cow)	0.5
SCC	0.31	Gestation Length (days)	-2.7
Liveweight	-26	BetaCasin	A2A2

### NZ Evaluation Data

Traits other than production

Management	gBV -0.5	0	0.5	1.0
Overall Opinion	0.44			
Conformation (211 daughters TOP tested)				
Udder Overall	0.42			
Dairy Conformation	0.78			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL % 172/81 ASI 273

## 312057 BELLS CM CONRAD S2J



**\$232/97%**

gBW REL

NASIS	NZGBELCONRAD
Breed	J15F1
Pedigree	MARVEL x MINSTREL

### NZ Breeding Values

16979 Daughters

Milk Volume (litres)	-123	Fertility %	6.9
Fat kg/%	23/5.4	Total Longevity (days)	408
Protein kg/%	12/4.2	Calving Difficulty (cow)	-0.6
SCC	0.38	Gestation Length (days)	-6.7
Liveweight	-10	BetaCasin	A2A2

### NZ Evaluation Data

Traits other than production

Management	gBV -0.5	0	0.5	1.0
Overall Opinion	0.16			
Conformation (542 daughters TOP tested)				
Udder Overall	0.22			
Dairy Conformation	0.33			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL % 159/68 ASI 208



12/02/2021

# ALL BULLS

Page Number	NZAB Code	Bull Name	Price Retail	Beta Casein	gBW	Rel %	Milk Volume (litres)	Fat kg	Protein kg	SCC	Fertility %	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length (days)	Liveweight	Overall Opinion	Stature	Capacity	Udder Overall	Dairy Conformation
<b>Jersey</b>																				
36	318009	TIRONUI SUPERMAN ET	\$20	A2A2	345	63	-445	42	15	-0.01	1.5	-1.8	0.0	-2.1	-25	0.43	-0.34	0.42	0.75	0.53
37	316039	ULMARRATT GALLIVANT *	\$20	A1A2	344	87	-242	47	14	0.00	2.8	-1.5	-2.1	-0.3	-12	0.40	-0.26	0.64	0.62	0.62
35	315045	GLENUI DEGREE HOSS ET *	\$20	A2A2	324	88	-400	32	9	-0.36	4.7	-1.5	-0.7	2.3	-37	0.16	-0.66	0.30	0.63	0.35
39	317006	WILLIAMS PCG TENOR	\$20	A2A2	308	80	144	30	19	0.12	3.2	-1.5	-1.7	0.5	-51	0.44	-0.96	0.42	0.53	0.50
40	314012	KAITAKA OI LEOPARD ET	\$20	A2A2	306	94	-612	27	3	-0.29	2.2	-2.0	-0.5	-4.1	-58	0.34	-0.79	0.00	0.77	0.27
36	315029	THORNWOOD DEGREE TRIGGER	\$20	A2A2	298	94	-453	31	7	-0.17	2.5	-1.7	-1.0	-4.5	-33	0.06	-0.74	0.71	1.26	0.76
38	315009	RIVERVIEW AND DEXTER S2J *	\$20	A2A2	278	87	-56	26	18	-0.21	3.3	-0.8	-0.1	-1.3	-22	0.35	-0.49	0.62	0.67	0.60
40	314004	BELLS OI FLOYD S3J	\$18	A2A2	304	95	106	37	19	-0.21	1.8	-1.6	-1.1	-2.1	-5	0.45	-0.21	0.74	0.58	0.66
41	311013	OKURA LT INTEGRITY	\$16	A1A2	320	99	-279	33	9	-0.04	0.1	-2.3	-0.6	-0.2	-46	0.37	-0.99	0.91	0.62	0.77
41	312004	GLANTON LT BRAHMS	\$16	A2A2	262	99	-371	38	17	0.31	-3.2	-1.0	0.5	-2.7	-26	0.44	-0.54	0.68	0.42	0.78
41	312014	CHARDONNAY FRANKIE	\$16	A2A2	262	98	-450	8	6	-0.41	5.2	-1.7	-0.7	0.3	-63	0.35	-1.27	0.37	0.10	0.16
41	312057	BELLS CM CONRAD S2J	\$16	A2A2	232	97	-123	23	12	0.38	6.9	-2.0	-0.6	-6.7	-10	0.16	-0.39	0.48	0.22	0.33
<b>Jersey also available</b>																				
316009	TIRONUI LT BESIEGE ET S2J	\$22	A2A2	324	88	-431	21	11	0.03	3.5	-2.1	-0.8	0.0	-66	0.50	-1.24	0.38	0.35	0.32	
315008	PUKEROA AND BARATONE ET	\$18	A2A2	339	89	-544	26	10	-0.09	3.5	-0.6	-0.2	-4.6	-68	0.18	-1.29	0.33	0.58	0.20	
313023	CRESCENT EXCELL MONOPOLY	\$16	A2A2	333	87	-494	37	9	0.01	0.5	-1.6	-1.0	-1.3	-42	0.44	-0.77	0.42	0.46	0.35	
315059	BONACORD AND BERNARD S2J	\$12	A2A2	302	94	-892	16	-6	-0.23	5.1	0.0	-0.8	-1.1	-85	0.02	-1.41	-0.48	0.31	-0.35	
313016	BONACORD MURMUR BOLT	\$12	A2A2	264	99	-398	18	0	-0.38	3.4	-1.3	-0.6	0.7	-68	0.06	-1.23	0.08	0.37	0.12	
313055	GLENUI 5-STAR HARRY ET	\$12	A2A2	238	92	-641	11	0	-0.38	5.6	-3.4	-0.3	2.2	-39	-0.08	-0.84	0.57	0.56	0.43	
308128	HILLSTAR LOT JESTER S3J	\$12	A1A2	234	99	-374	17	6	-0.36	3.5	-2.2	-0.8	0.5	-28	0.30	-0.59	0.46	0.63	0.43	
309090	KERSTENS KRC RONALDO	\$12	A2A2	209	99	-192	28	12	0.00	-1.6	-2.3	-1.3	-5.6	-23	0.41	-0.62	0.73	0.58	0.63	
310047	UPLAND PARK HTA MALI S3J	\$12	A2A2	189	98	-194	13	7	-0.27	0.9	-0.8	-1.2	-5.2	-50	0.21	-1.01	0.18	0.89	0.23	
309030	TAWA GROVE KRC TANA	\$12	A2A2	176	98	-627	7	1	-0.15	-0.7	-2.0	-1.0	-3.7	-47	0.37	-1.18	0.55	0.61	0.45	
311019	SOUTH LAND JERICHO ET S3J	\$12	A2A2	160	99	-352	-4	2	-0.18	4.2	-2.5	-1.1	-1.2	-47	0.19	-1.15	0.73	0.37	0.49	
306041	GREENPARK OM TARGET	\$12	A2A2	127	99	-78	14	10	0.20	-0.7	-1.6	-0.7	0.0	-27	0.04	-0.50	0.56	0.18	0.45	
309073	LYNBROOK JONO TOFFEE MAN	\$12	A1A2	127	99	-534	-2	-5	0.00	3.3	-1.9	-1.1	-1.7	-56	0.26	-1.24	0.03	0.89	0.13	
303029	KIRKS RI CHARISMA ET GR	\$12	A2A2	107	99	-305	8	3	-0.02	-0.5	-2.4	-1.3	-3.1	-35	0.25	-0.77	0.24	0.18	0.26	

\* Sexed semen is offered for Single AI use only, see page 10 for more information



12/02/2021

# TOP 5 PERFORMERS

## Breeding Worth

National herd breed average: \$159

NASIS	Name	gBW\$/Rel%	Page
NZGTIROMAN	SUPERMAN	345 / 63	36
NZGGALLIVANT	GALLIVANT	344 / 87	37
NZGGLENHOSS	HOSS	324 / 88	35
NZGINTEGRITY	INTEGRITY	320 / 99	41
NZGWILLTENOR	TENOR	308 / 80	39

## BPI

NASIS	Name	BPI / Rel %	Page
NZGGLENHOSS	HOSS	312 / 68	35
NZGRIVERDEX	DEXTER	283 / 63	38
NZGTHORNTRIG	TRIGGER	255 / 69	36
NZGKITALEO	LEOPARD	252 / 71	40
NZGBELFLOYD	FLOYD	248 / 67	40

## Protein

National herd breed average: -1 kg

NASIS	Name	Protein kg / %	Page
NZGBELFLOYD	FLOYD	19 / 4.1	40
NZGWILLTENOR	TENOR	19 / 4.1	39
NZGRIVERDEX	DEXTER	18 / 4.2	38
NZGBRAHMS	BRAHMS	17 / 4.5	41
NZGTIROMAN	SUPERMAN	15 / 4.5	36

## Fat

National herd breed average: 9 kg

NASIS	Name	Fat kg / %	Page
NZGGALLIVANT	GALLIVANT	47 / 6.1	37
NZGTIROMAN	SUPERMAN	42 / 6.3	36
NZGBRAHMS	BRAHMS	38 / 6.1	41
NZGBELFLOYD	FLOYD	37 / 5.4	40
NZGINTEGRITY	INTEGRITY	33 / 5.8	41

## Fertility

National herd breed average: 1.8%

NASIS	Name	Fertility %	Page
NZGBELCONRAD	CONRAD	6.9	41
NZGCHARFRANK	FRANKIE	5.2	41
NZGGLENHOSS	HOSS	4.7	35
NZGRIVERDEX	DEXTER	3.3	38
NZGWILLTENOR	TENOR	3.2	39

## Milk Volume

National herd breed average: -409 l

NASIS	Name	Litres	Page
NZGWILLTENOR	TENOR	144	39
NZGBELFLOYD	FLOYD	106	40
NZGRIVERDEX	DEXTER	-56	38
NZBELCONRAD	CONRAD	-123	41
NZGGALLIVANT	GALLIVANT	-242	37

## SCC

National herd breed average: -0.07

NASIS	Name	SCC	Page
NZGCHARFRANK	FRANKIE	-0.41	41
NZGGLENHOSS	HOSS	-0.36	35
NZGKAITALEO	LEOPARD	-0.29	40
NZGBELFLOYD	FLOYD	-0.21	40
NZGRIVERDEX	DEXTER	-0.21	38

## Capacity

National herd breed average: 0.17

NASIS	Name	Capacity	Page
NZGINTEGRITY	INTEGRITY	0.91	41
NZGBELFLOYD	FLOYD	0.74	40
NZGTHORNTRIG	TRIGGER	0.71	36
NZGBRAHMS	BRAHMS	0.68	41
NZGGALLIVANT	GALLIVANT	0.64	37

## Udder Overall

National herd breed average: 0.23

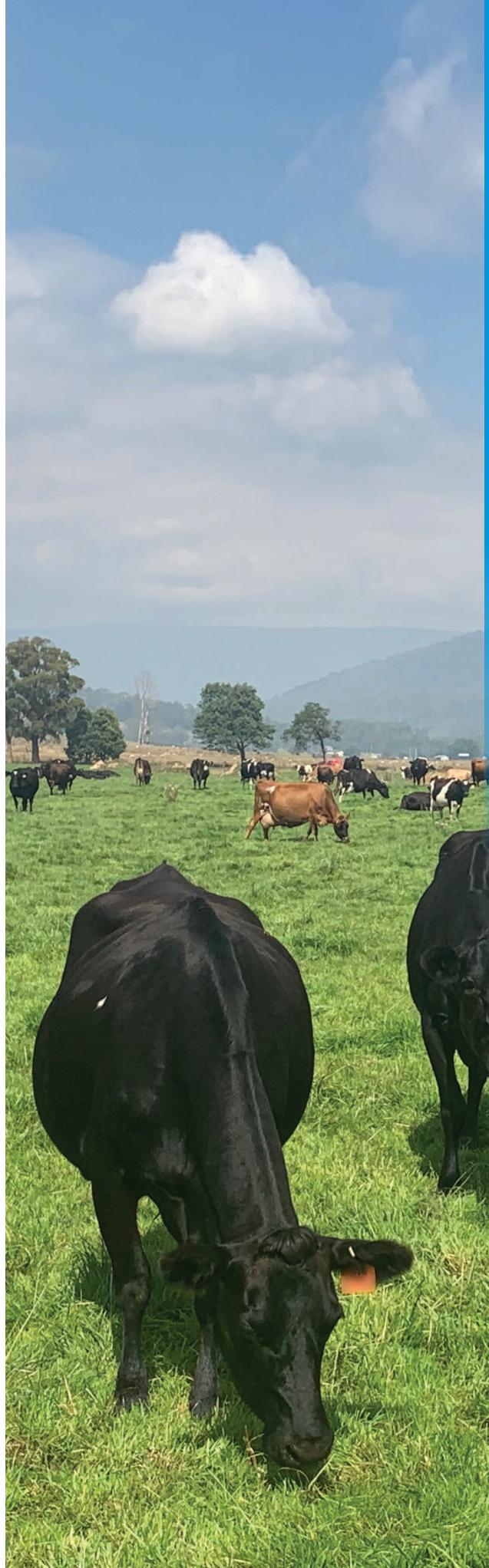
NASIS	Name	Udder Overall	Page
NZGTHORNTRIG	TRIGGER	1.26	36
NZGKAITALEO	LEOPARD	0.77	40
NZGTIROMAN	SUPERMAN	0.75	36
NZGRIVERDEX	DEXTER	0.67	38
NZGGLENHOSS	HOSS	0.63	35

## Liveweight

National herd breed average: -47

NASIS	Name	Liveweight	Page
NZGBELFLOYD	FLOYD	-5	40
NZBELCONRAD	CONRAD	-10	41
NZGGALLIVANT	GALLIVANT	-12	37
NZGRIVERDEX	DEXTER	-22	38
NZGTIROMAN	SUPERMAN	-25	36





# 2021

# KiwiCross®

*Janefield Dairy, Meander, Tasmania*



Daughter of 517026 SPRINGFIELD

## 517026 HOWSES SPRINGFIELD



Daughter of 517026 SPRINGFIELD



### Australian Indices

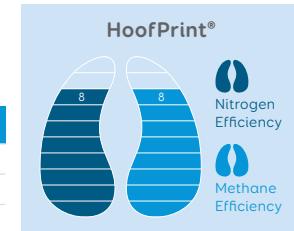
Source: DataGene 07 Dec 2020

BPI/REL %	<b>307/57</b>	Survival	<b>97</b>
ASI	<b>167</b>	Daughter Fertility	<b>114</b>
HWI	<b>358</b>	Calving Ease	<b>104</b>
Milk	<b>-1496</b>	Overall Type	<b>91</b>
Fat kg	<b>21</b>	Mammary System	<b>88</b>
Protein kg	<b>-6</b>	SCC	<b>145</b>

\$327/80%  
gBW REL

### Breeding Details

NASIS	NZGHOWSFIELD
Breed	F9J7
Pedigree	SOVEREIGN x BOOMTOWN



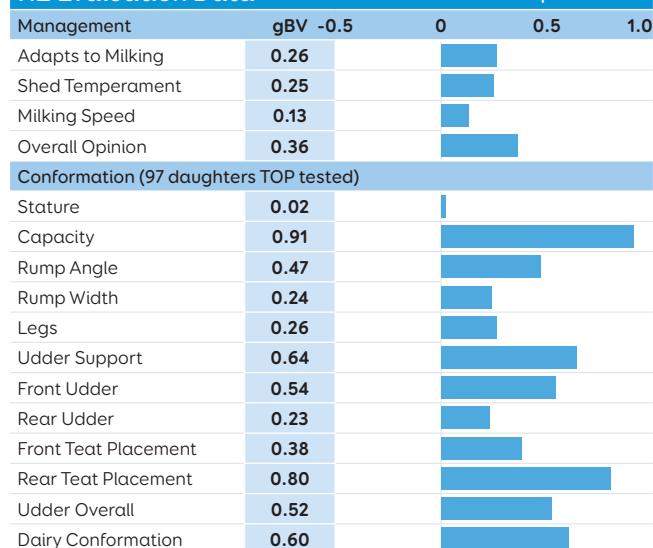
### NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values		109 Daughters	
Milk Volume (litres)	<b>-234</b>	Fertility %	<b>4.6</b>
Fat kg	<b>35</b>	Body Condition Score	<b>0.13</b>
Fat %	<b>5.8</b>	Total Longevity (days)	<b>544</b>
Protein kg	<b>19</b>	Calving Difficulty (cow)	<b>-0.7</b>
Protein %	<b>4.4</b>	Calving Difficulty (heifer)	<b>-0.8</b>
SCC	<b>-0.94</b>	Gestation Length (days)	<b>-1.9</b>
Liveweight	<b>3</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data

Traits other than production



Unregisterable



12/02/2021

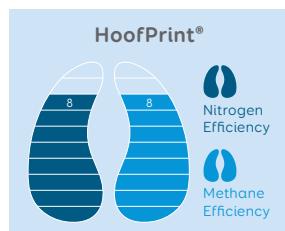


## 518017 HORIZON BARNSTORMER-ET

**\$279/64%**  
gBW REL

### Breeding Details

NASIS	NZGBARNSTORM
Breed	F8J8
Pedigree	SIERRA x SUPERSTITION

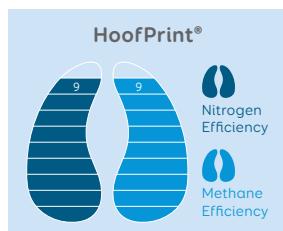


## 518072 DEANS PROFESSIONAL

**\$344/58%**  
gBW REL

### Breeding Details

NASIS	NZGDEANSPROF
Breed	J9F7
Pedigree	BESIEGE x ESTEEM



### NEW ZEALAND DETAILS

NZ Breeding Values		0 Daughters	
Milk Volume (litres)	<b>178</b>	Fertility %	<b>3.3</b>
Fat kg	<b>37</b>	Body Condition Score	<b>0.08</b>
Fat %	<b>5.3</b>	Total Longevity (days)	<b>580</b>
Protein kg	<b>25</b>	Calving Difficulty (cow)	<b>0.2</b>
Protein %	<b>4.2</b>	Calving Difficulty (heifer)	<b>3.1</b>
SCC	<b>-0.31</b>	Gestation Length (days)	<b>-9.1</b>
Liveweight	<b>21</b>	BetaCasin	<b>A2A2</b>

### NEW ZEALAND DETAILS

NZ Breeding Values		0 Daughters	
Milk Volume (litres)	<b>66</b>	Fertility %	<b>4.2</b>
Fat kg	<b>41</b>	Body Condition Score	<b>0.21</b>
Fat %	<b>5.5</b>	Total Longevity (days)	<b>703</b>
Protein kg	<b>20</b>	Calving Difficulty (cow)	<b>0.0</b>
Protein %	<b>4.2</b>	Calving Difficulty (heifer)	<b>0.3</b>
SCC	<b>-0.15</b>	Gestation Length (days)	<b>-3.1</b>
Liveweight	<b>-11</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data

Traits other than production				
Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.49</b>			
Shed Temperament	<b>0.53</b>			
Milking Speed	<b>0.11</b>			
Overall Opinion	<b>0.53</b>			
<b>Conformation (0 daughters TOP tested)</b>				
Stature	<b>0.16</b>			
Capacity	<b>0.72</b>			
Rump Angle	<b>-0.26</b>			
Rump Width	<b>0.32</b>			
Legs	<b>0.05</b>			
Udder Support	<b>0.47</b>			
Front Udder	<b>0.35</b>			
Rear Udder	<b>0.53</b>			
Front Teat Placement	<b>0.08</b>			
Rear Teat Placement	<b>0.47</b>			
Udder Overall	<b>0.43</b>			
Dairy Conformation	<b>0.55</b>			

Unregisterable



12/02/2021

### NZ Evaluation Data

Traits other than production				
Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.31</b>			
Shed Temperament	<b>0.32</b>			
Milking Speed	<b>0.05</b>			
Overall Opinion	<b>0.31</b>			
<b>Conformation (0 daughters TOP tested)</b>				
Stature	<b>-0.22</b>			
Capacity	<b>0.37</b>			
Rump Angle	<b>-0.08</b>			
Rump Width	<b>0.39</b>			
Legs	<b>-0.02</b>			
Udder Support	<b>0.30</b>			
Front Udder	<b>0.16</b>			
Rear Udder	<b>0.34</b>			
Front Teat Placement	<b>-0.04</b>			
Rear Teat Placement	<b>-0.12</b>			
Udder Overall	<b>0.30</b>			
Dairy Conformation	<b>0.49</b>			

Unregisterable



12/02/2021

### Comments from LIC Livestock Selection Manager:

If Sierra was one of your favourites then Barnstormer is sure to impress. Barnstormer is a high-ranking Sierra son and a descendant of the famous cow, Beauty, from the Arkan stud that has delivered other top bulls such as Beau and Bounty.

### Comments from LIC Livestock Selection Manager:

A real high flyer, Professional is one of our limited elite genomic sires for 2021. His sire Besiege is now one of the top Jersey bulls and his cow family is full of top performers. Professional is a true all rounder and this is reflected in his genomic proof. With milk solids production at 61 kg, which is more like a Holstein Friesian than a KiwiCross®, he is showing real promise of being a top-ranking bull.



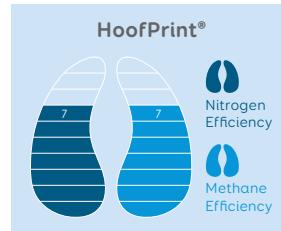
Dam of 519062 BARRIER

## 519062 ARKANS BARRIER

**\$283/56%**  
gBW REL

### Breeding Details

NASIS	NZGBARRIER
Breed	F9J7
Pedigree	PATRIARCH x KING



Available in  
**4M**

RETAIL  
\$20.00  
SEXED  
\$48.00



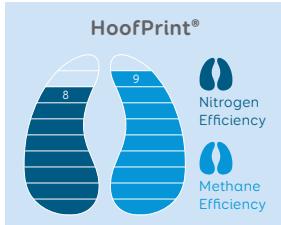
Dam of 517001 PATRIARCH

## 517001 ARKANS PATRIARCH-ET

**\$294** / **83%**  
gBW REL

### Breeding Details

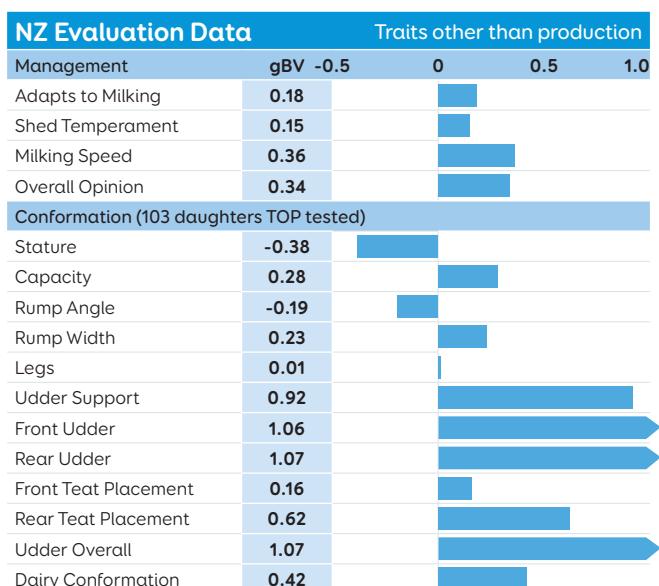
NASIS	NZGPATRIARCH
Breed	F10J6
Pedigree	JAYDIE x MINT-EDITION



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		174 Daughters	
Milk Volume (litres)	5	Fertility %	3.0
Fat kg	38	Body Condition Score	0.06
Fat %	5.6	Total Longevity (days)	486
Protein kg	18	Calving Difficulty (cow)	-0.9
Protein %	4.2	Calving Difficulty (heifer)	0.0
SCC	0.20	Gestation Length (days)	-4.1
Liveweight	-17	BetaCasin	A1A2

### NZ Evaluation Data



Daughter of 517001 PATRIARCH



### Australian Indices

Source: DataGene 07 Dec 2020			
BPI/REL %	199/49	Survival	96
ASI	134	Daughter Fertility	109
HWI	254	Calving Ease	103
Milk	-1122	Overall Type	96
Fat kg	18	Mammary System	98
Protein kg	-4	SCC	76

Unregisterable



12/02/2021



Daughter of 516043 BOOMBOX

## 516043 ARKANS BOOMBOX-ET



Daughter of 516043 BOOMBOX



### Australian Indices

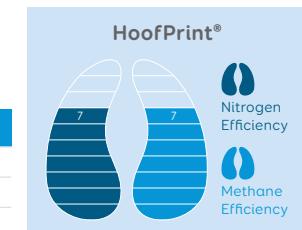
Source: DataGene 07 Dec 2020

BPI/REL %	<b>225/56</b>	Survival	<b>100</b>
ASI	<b>105</b>	Daughter Fertility	<b>107</b>
HWI	<b>269</b>	Calving Ease	<b>0</b>
Milk	<b>-352</b>	Overall Type	<b>103</b>
Fat kg	<b>8</b>	Mammary System	<b>96</b>
Protein kg	<b>7</b>	SCC	<b>122</b>

\$222/89%  
gBW REL

### Breeding Details

NASIS	NZGARKBOOMBX
Breed	F11J5
Pedigree	JAYDIE x MINT-EDITION



### NEW ZEALAND DETAILS

#### NZ Breeding Values

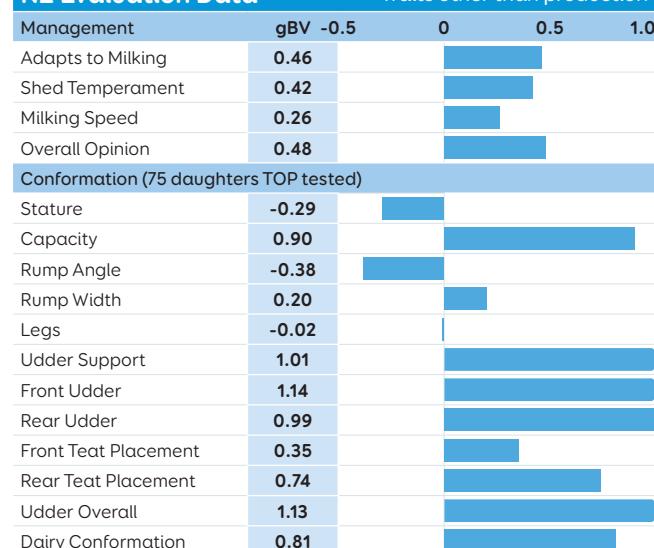
Daughter Proven

1301 Daughters

Milk Volume (litres)	<b>729</b>	Fertility %	<b>0.7</b>
Fat kg	<b>23</b>	Body Condition Score	<b>0.23</b>
Fat %	<b>4.5</b>	Total Longevity (days)	<b>463</b>
Protein kg	<b>32</b>	Calving Difficulty (cow)	<b>0.0</b>
Protein %	<b>3.9</b>	Calving Difficulty (heifer)	<b>0.0</b>
SCC	<b>-0.44</b>	Gestation Length (days)	<b>3.5</b>
Liveweight	<b>-6</b>	BetaCasin	<b>A2A2</b>

#### NZ Evaluation Data

Traits other than production



Unregisterable



12/02/2021

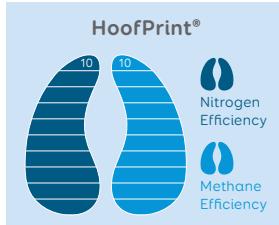


## 517042 LUCK-AT-LAST INSPIRED-ET

**\$301/81%**  
gBW REL

### Breeding Details

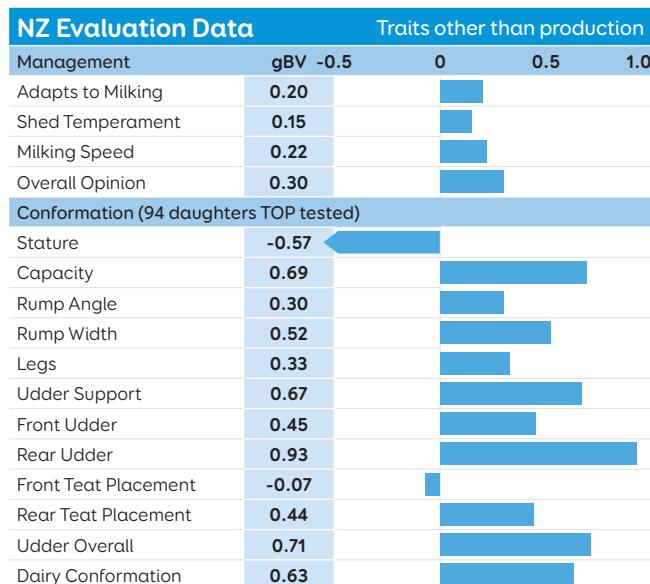
NASIS	NZGINSPIRED
Breed	F9J7
Pedigree	BEAMER x TERRIFIC



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		108 Daughters	
Milk Volume (litres)	<b>476</b>	Fertility %	<b>1.4</b>
Fat kg	<b>41</b>	Body Condition Score	<b>0.09</b>
Fat %	<b>5.1</b>	Total Longevity (days)	<b>444</b>
Protein kg	<b>28</b>	Calving Difficulty (cow)	<b>-0.7</b>
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	<b>0.3</b>
SCC	<b>0.19</b>	Gestation Length (days)	<b>-6.0</b>
Liveweight	<b>-25</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data



### Australian Indices

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>259/48</b>	Survival	<b>99</b>
ASI	<b>200</b>	Daughter Fertility	<b>107</b>
HWI	<b>270</b>	Calving Ease	<b>102</b>
Milk	<b>-615</b>	Overall Type	<b>93</b>
Fat kg	<b>32</b>	Mammary System	<b>93</b>
Protein kg	<b>10</b>	SCC	<b>82</b>

Unregisterable



12/02/2021



Dam of 511011 SIERRA

## 511011 PRIESTS SIERRA



Daughter of 511011 SIERRA



### Australian Indices

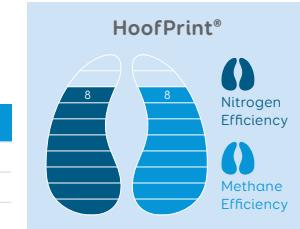
Source: DataGene 07 Dec 2020

BPI/REL %	<b>284/87</b>	Survival	<b>103</b>
ASI	<b>153</b>	Daughter Fertility	<b>112</b>
HWI	<b>342</b>	Calving Ease	<b>0</b>
Milk	<b>-807</b>	Overall Type	<b>90</b>
Fat kg	<b>21</b>	Mammary System	<b>92</b>
Protein kg	<b>3</b>	SCC	<b>116</b>

\$283/99%  
gBW REL

### Breeding Details

NASIS	NZGPRISIERRA
Breed	F1J5
Pedigree	MINT-EDITION x RAMROD



### NEW ZEALAND DETAILS

#### NZ Breeding Values

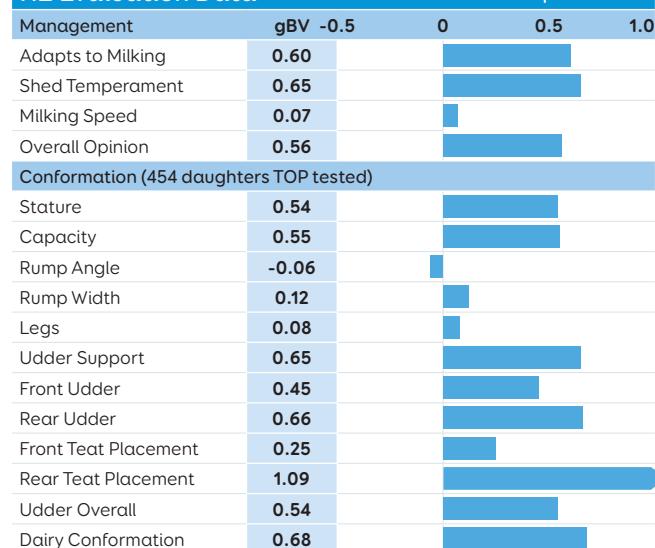
Daughter Proven

65087 Daughters

Milk Volume (litres)	<b>418</b>	Fertility %	<b>3.8</b>
Fat kg	<b>42</b>	Body Condition Score	<b>0.06</b>
Fat %	<b>5.2</b>	Total Longevity (days)	<b>660</b>
Protein kg	<b>28</b>	Calving Difficulty (cow)	<b>0.0</b>
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	<b>2.0</b>
SCC	<b>-0.16</b>	Gestation Length (days)	<b>-6.5</b>
Liveweight	<b>29</b>	BetaCasin	<b>A2A2</b>

#### NZ Evaluation Data

Traits other than production



Unregisterable



12/02/2021



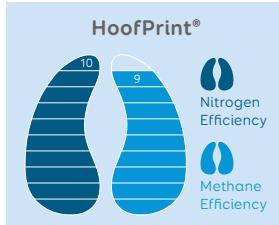
Dam of 516074 CRITICAL

## 516074 CROSSANS CRITICAL-ET

**\$290/90%**  
gBW REL

### Breeding Details

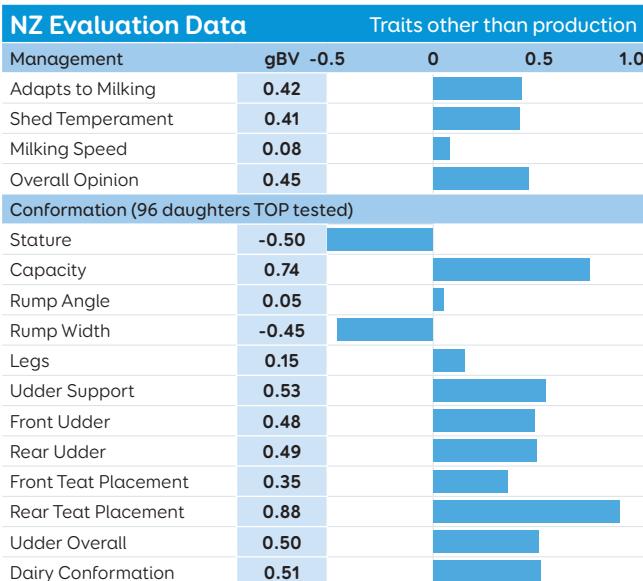
NASIS	NZGCRITICAL
Breed	F10J6
Pedigree	JAYDIE x COMMANDER



### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		1457 Daughters	
Milk Volume (litres)	888	Fertility %	2.2
Fat kg	38	Body Condition Score	0.09
Fat %	4.7	Total Longevity (days)	492
Protein kg	38	Calving Difficulty (cow)	-0.3
Protein %	3.9	Calving Difficulty (heifer)	-0.7
SCC	-0.35	Gestation Length (days)	-7.6
Liveweight	-8	BetaCasin	A2A2

### NZ Evaluation Data



Daughter of 516074 CRITICAL



### Australian Indices

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>350/63</b>	Survival	<b>98</b>
ASI	<b>214</b>	Daughter Fertility	<b>114</b>
HWI	<b>424</b>	Calving Ease	<b>0</b>
Milk	<b>-154</b>	Overall Type	<b>87</b>
Fat kg	<b>29</b>	Mammary System	<b>90</b>
Protein kg	<b>20</b>	SCC	<b>127</b>



## 516066 WALTON INFERNO

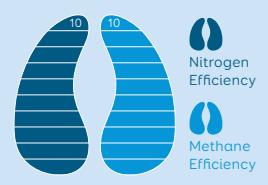


**\$324/86%**  
gBW REL

### Breeding Details

NASIS	NZGWALTFERNO
Breed	F9J7
Pedigree	SOLARIS x CHECKPOINT

### HoofPrint®



### NEW ZEALAND DETAILS

#### NZ Breeding Values

Daughter Proven

119 Daughters

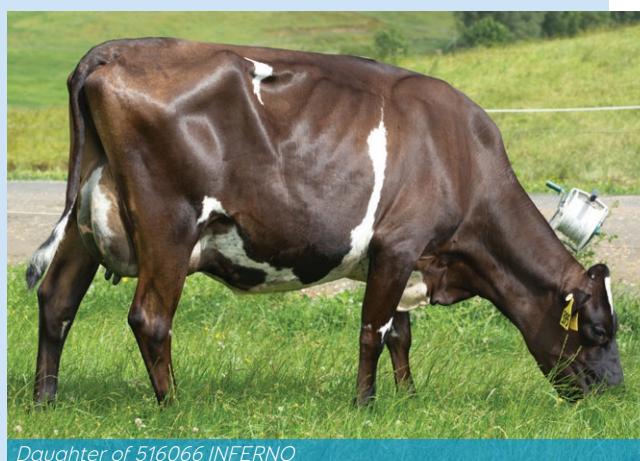
Milk Volume (litres)	<b>229</b>	Fertility %	<b>1.6</b>
Fat kg	<b>38</b>	Body Condition Score	<b>0.12</b>
Fat %	<b>5.3</b>	Total Longevity (days)	<b>495</b>
Protein kg	<b>31</b>	Calving Difficulty (cow)	<b>-0.9</b>
Protein %	<b>4.3</b>	Calving Difficulty (heifer)	<b>-1.1</b>
SCC	<b>-0.56</b>	Gestation Length (days)	<b>-8.2</b>
Liveweight	<b>-3</b>	BetaCasin	<b>A2A2</b>

#### NZ Evaluation Data

Traits other than production

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.48</b>				
Shed Temperament	<b>0.45</b>				
Milking Speed	<b>0.15</b>				
Overall Opinion	<b>0.43</b>				
<b>Conformation (107 daughters TOP tested)</b>					
Stature	<b>-0.07</b>				
Capacity	<b>0.31</b>				
Rump Angle	<b>-0.16</b>				
Rump Width	<b>-0.26</b>				
Legs	<b>-0.04</b>				
Udder Support	<b>0.27</b>				
Front Udder	<b>0.35</b>				
Rear Udder	<b>0.03</b>				
Front Teat Placement	<b>0.53</b>				
Rear Teat Placement	<b>0.67</b>				
Udder Overall	<b>0.34</b>				
Dairy Conformation	<b>0.38</b>				

Daughter of 516066 INFERNO



### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %	<b>359/61</b>	Survival	<b>98</b>
ASI	<b>208</b>	Daughter Fertility	<b>115</b>
HWI	<b>418</b>	Calving Ease	<b>0</b>
Milk	<b>-1000</b>	Overall Type	<b>86</b>
Fat kg	<b>31</b>	Mammary System	<b>90</b>
Protein kg	<b>5</b>	SCC	<b>139</b>

Unregisterable



12/02/2021



\$22.00 RETAIL

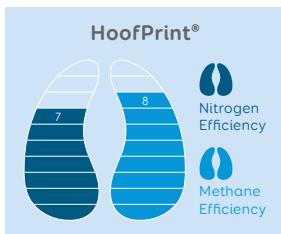
Daughter of 515025 SLIPSTREAM

## 515025 SPEAKS SLIPSTREAM ET

**\$317/86%**  
gBW REL

### Breeding Details

NASIS	NZSLIPSTREM
Breed	J10F6
Pedigree	MANZELLO x MINT-EDITION



Available in

4M

Available in

4M



\$20.00 RETAIL

SEXED \$48.00

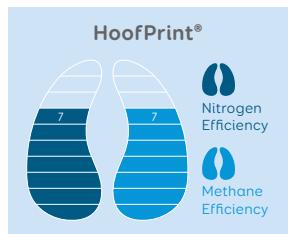
Daughter of 517041 EMPEROR

## 517041 LUCK-AT-LAST EMPEROR-ET

**\$247/80%**  
gBW REL

### Breeding Details

NASIS	NZGLUEMPEROR
Breed	F10J6
Pedigree	TECHNICIAN x TERRIFIC



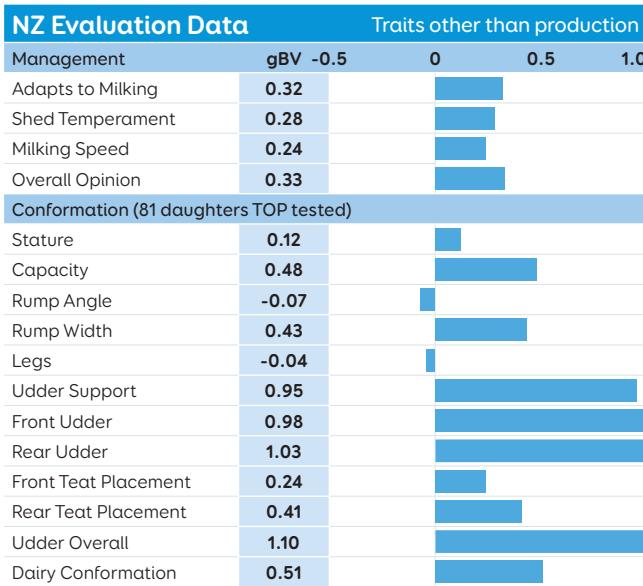
### NEW ZEALAND DETAILS

NZ Breeding Values		86 Daughters	
Milk Volume (litres)	-10	Fertility %	6.6
Fat kg	39	Body Condition Score	0.08
Fat %	5.6	Total Longevity (days)	637
Protein kg	17	Calving Difficulty (cow)	-0.4
Protein %	4.2	Calving Difficulty (heifer)	0.2
SCC	-0.07	Gestation Length (days)	1.3
Liveweight	-3	BetaCasin	A2A2

### NEW ZEALAND DETAILS

NZ Breeding Values		109 Daughters	
Milk Volume (litres)	304	Fertility %	1.0
Fat kg	32	Body Condition Score	0.27
Fat %	5.1	Total Longevity (days)	401
Protein kg	25	Calving Difficulty (cow)	-0.1
Protein %	4.1	Calving Difficulty (heifer)	1.0
SCC	-0.02	Gestation Length (days)	-1.9
Liveweight	6	BetaCasin	A1A2

### NZ Evaluation Data

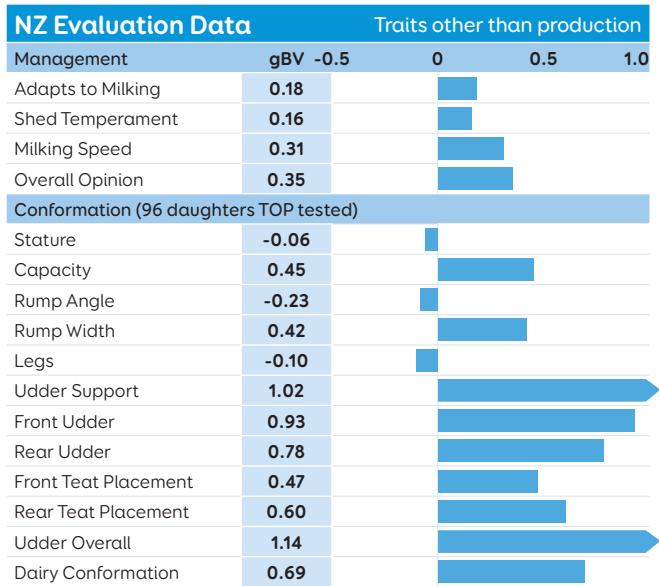


Unregisterable



12/02/2021

### NZ Evaluation Data



Unregisterable



12/02/2021

### Australian Indices

Australian Indices		Source: DataGene 07 Dec 2020	
BPI/REL %	238/57	Survival	102
ASI	177	Daughter Fertility	100
HWI	131	Calving Ease	0
Milk	79	Overall Type	99
Fat kg	32	Mammary System	99
Protein kg	18	SCC	117

### Australian Indices

Australian Indices		Source: DataGene 07 Dec 2020	
BPI/REL %	228/46	Survival	96
ASI	158	Daughter Fertility	110
HWI	266	Calving Ease	102
Milk	-608	Overall Type	94
Fat kg	21	Mammary System	95
Protein kg	7	SCC	90



RETAIL  
\$18.00  
SEXED  
\$48.00

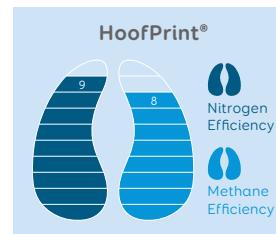
Daughter of 515017 KARTELL

## 515017 LYNBROOK KARTELL

**\$252/85%**  
gBW REL

### Breeding Details

NASIS	NZGKARTELL
Breed	J8F7A1
Pedigree	RAMADA x MURMUR



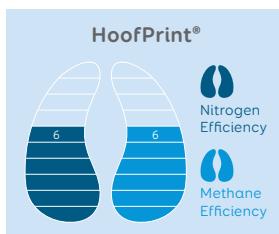


## 511051 DRYSDALES SOVEREIGN

**\$180/98%**  
gBW REL

### Breeding Details

NASIS	NZCDRYREIGN
Breed	F8J8
Pedigree	SOLARIS x NORTHSEA



RETAIL  
**\$16.00**

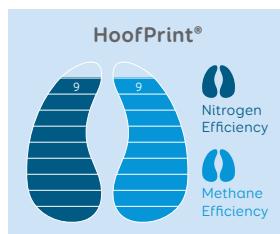


## 515062 DUGGANS GAMEPLAN

**\$303/88%**  
gBW REL

### Breeding Details

NASIS	NZGDUGGPLAN
Breed	J12F4
Pedigree	MANZELLO x NORTHSEA



RETAIL  
**\$18.00**

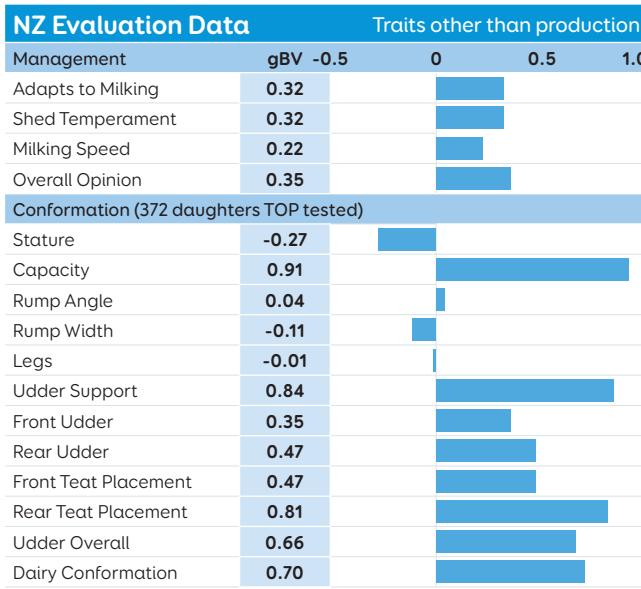
### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		45606 Daughters	
Milk Volume (litres)	<b>-38</b>	Fertility %	<b>2.0</b>
Fat kg	<b>14</b>	Body Condition Score	<b>0.27</b>
Fat %	<b>5.1</b>	Total Longevity (days)	<b>472</b>
Protein kg	<b>10</b>	Calving Difficulty (cow)	<b>-1.0</b>
Protein %	<b>4.0</b>	Calving Difficulty (heifer)	<b>-1.6</b>
SCC	<b>-0.43</b>	Gestation Length (days)	<b>-5.2</b>
Liveweight	<b>0</b>	BetaCasin	<b>A2A2</b>

### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		109 Daughters	
Milk Volume (litres)	<b>-550</b>	Fertility %	<b>0.9</b>
Fat kg	<b>36</b>	Body Condition Score	<b>0.05</b>
Fat %	<b>6.3</b>	Total Longevity (days)	<b>255</b>
Protein kg	<b>10</b>	Calving Difficulty (cow)	<b>-0.6</b>
Protein %	<b>4.5</b>	Calving Difficulty (heifer)	<b>-2.5</b>
SCC	<b>0.06</b>	Gestation Length (days)	<b>-6.4</b>
Liveweight	<b>-36</b>	BetaCasin	<b>A2A2</b>

### NZ Evaluation Data

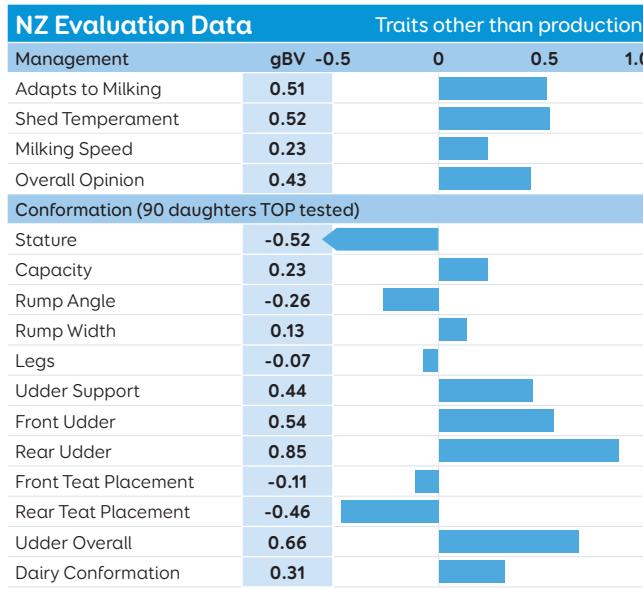


Unregisterable



12/02/2021

### NZ Evaluation Data



Unregisterable



12/02/2021

### Australian Indices

Australian Indices		Source: DataGene 07 Dec 2020	
BPI/REL %	<b>154/75</b>	Survival	<b>97</b>
ASI	<b>56</b>	Daughter Fertility	<b>112</b>
HWI	<b>246</b>	Calving Ease	<b>0</b>
Milk	<b>-1240</b>	Overall Type	<b>88</b>
Fat kg	<b>2</b>	Mammary System	<b>90</b>
Protein kg	<b>-13</b>	SCC	<b>123</b>

### Australian Indices

Australian Indices		Source: DataGene 07 Dec 2020	
BPI/REL %	<b>240/64</b>	Survival	<b>101</b>
ASI	<b>235</b>	Daughter Fertility	<b>98</b>
HWI	<b>124</b>	Calving Ease	<b>0</b>
Milk	<b>-468</b>	Overall Type	<b>93</b>
Fat kg	<b>36</b>	Mammary System	<b>95</b>
Protein kg	<b>16</b>	SCC	<b>109</b>

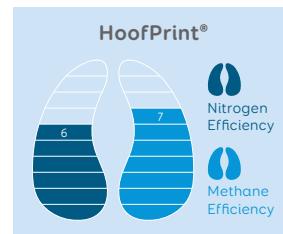
RETAIL  
\$16.00

## 512050 ARKANS PERSPECTIVE-ET

**\$198/98%**  
gBW REL

### Breeding Details

NASIS	NZGPERSPECTV
Breed	F8J8
Pedigree	MINT-EDITION x MAUNGA



Dam of 513098 BOUNTY

## 513098 ARKANS BOUNTY

**\$206/97%**  
gBW REL

### Breeding Details

NASIS	NZGARKBOWNTY
Breed	J11F5
Pedigree	INTEGRITY x FIRENZE



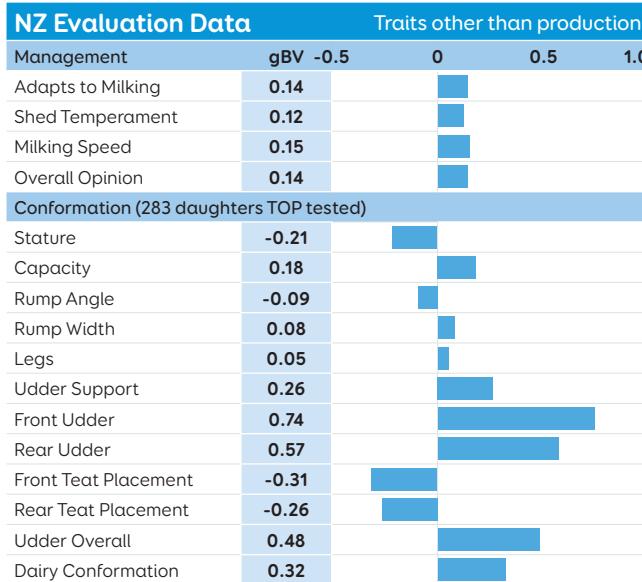
### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		34794 Daughters	
Milk Volume (litres)	<b>20</b>	Fertility %	<b>3.3</b>
Fat kg	<b>24</b>	Body Condition Score	<b>-0.01</b>
Fat %	<b>5.2</b>	Total Longevity (days)	<b>357</b>
Protein kg	<b>13</b>	Calving Difficulty (cow)	<b>0.0</b>
Protein %	<b>4.1</b>	Calving Difficulty (heifer)	<b>-0.3</b>
SCC	<b>0.18</b>	Gestation Length (days)	<b>-2.9</b>
Liveweight	<b>-12</b>	BetaCasin	<b>A1A2</b>

### NEW ZEALAND DETAILS

NZ Breeding Values		Daughter Proven	
		6102 Daughters	
Milk Volume (litres)	<b>228</b>	Fertility %	<b>-0.7</b>
Fat kg	<b>19</b>	Body Condition Score	<b>0.17</b>
Fat %	<b>4.9</b>	Total Longevity (days)	<b>428</b>
Protein kg	<b>22</b>	Calving Difficulty (cow)	<b>-0.1</b>
Protein %	<b>4.1</b>	Calving Difficulty (heifer)	<b>0.5</b>
SCC	<b>-0.02</b>	Gestation Length (days)	<b>0.7</b>
Liveweight	<b>-16</b>	BetaCasin	<b>A1A2</b>

### NZ Evaluation Data

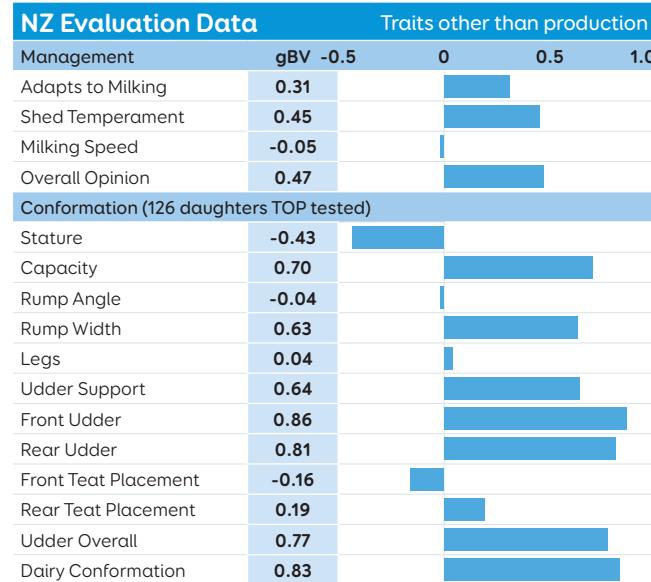


Unregisterable



12/02/2021

### NZ Evaluation Data



Unregisterable



12/02/2021

### Australian Indices

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>190/68</b>	Survival	<b>99</b>
ASI	<b>127</b>	Daughter Fertility	<b>115</b>
HWI	<b>288</b>	Calving Ease	<b>0</b>
Milk	<b>-1519</b>	Overall Type	<b>87</b>
Fat kg	<b>17</b>	Mammary System	<b>86</b>
Protein kg	<b>-11</b>	SCC	<b>87</b>

### Australian Indices

Source: DataGene 07 Dec 2020			
BPI/REL %	<b>196/65</b>	Survival	<b>98</b>
ASI	<b>228</b>	Daughter Fertility	<b>99</b>
HWI	<b>80</b>	Calving Ease	<b>0</b>
Milk	<b>759</b>	Overall Type	<b>96</b>
Fat kg	<b>25</b>	Mammary System	<b>95</b>
Protein kg	<b>39</b>	SCC	<b>105</b>

## 512005 JUST ONCE COOPER



RETAIL  
\$16.00

**\$230/97%**  
gBW REL

NASIS NZGJUSTCOOPR  
Breed F9J7  
Pedigree OBSIDIAN x APPLAUSE

### NZ Breeding Values

17645 Daughters

Milk Volume (litres)	-97	Fertility %	3.2
Fat kg/%	27/5.5	Total Longevity (days)	449
Protein kg/%	11/4.1	Calving Difficulty (cow)	-0.7
SCC	0.12	Gestation Length (days)	-9.3
Liveweight	-19	BetaCasin	A2A2

### NZ Evaluation Data

Traits other than production

Management	gBV -0.5	0	0.5	1.0
Overall Opinion	0.30			
Conformation (269 daughters TOP tested)				
Udder Overall	0.49			
Dairy Conformation	0.12			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %

225/66 ASI

153

## 514018 GLEN KORU EPIC



RETAIL  
\$16.00

**\$237/90%**  
gBW REL

NASIS NZGGLENEPIC  
Breed J9F7  
Pedigree CRUSADER x IMPERIAL

### NZ Breeding Values

1634 Daughters

Milk Volume (litres)	194	Fertility %	1.8
Fat kg/%	25/5.1	Total Longevity (days)	391
Protein kg/%	28/4.2	Calving Difficulty (cow)	-0.5
SCC	-0.16	Gestation Length (days)	1.2
Liveweight	-5	BetaCasin	A2A2

### NZ Evaluation Data

Traits other than production

Management	gBV -0.5	0	0.5	1.0
Overall Opinion	0.24			
Conformation (78 daughters TOP tested)				
Udder Overall	0.39			
Dairy Conformation	0.25			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %

275/59 ASI

268

## 513074 SCHRADERS TUSK



RETAIL  
\$16.00

**\$202/92%**  
gBW REL

NASIS NZGTUSK  
Breed F9J7  
Pedigree WARLORD x ATHLETE

### NZ Breeding Values

4789 Daughters

Milk Volume (litres)	242	Fertility %	5.0
Fat kg/%	18/4.9	Total Longevity (days)	417
Protein kg/%	16/3.9	Calving Difficulty (cow)	-0.8
SCC	-0.12	Gestation Length (days)	-9.9
Liveweight	-25	BetaCasin	A1A2

### NZ Evaluation Data

Traits other than production

Management	gBV -0.5	0	0.5	1.0
Overall Opinion	0.48			
Conformation (175 daughters TOP tested)				
Udder Overall	0.21			
Dairy Conformation	0.11			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %

201/63 ASI

120

## 514056 TIROHANGA TAKE NOTE



RETAIL  
\$16.00

**\$243/86%**  
gBW REL

NASIS NZGTIRONOTE  
Breed J12F4  
Pedigree MANZELLO x RAMROD

### NZ Breeding Values

86 Daughters

Milk Volume (litres)	121	Fertility %	3.0
Fat kg/%	29/5.2	Total Longevity (days)	298
Protein kg/%	19/4.1	Calving Difficulty (cow)	-0.7
SCC	-0.02	Gestation Length (days)	-10.0
Liveweight	-17	BetaCasin	A2A2

### NZ Evaluation Data

Traits other than production

Management	gBV -0.5	0	0.5	1.0
Overall Opinion	0.49			
Conformation (76 daughters TOP tested)				
Udder Overall	0.47			
Dairy Conformation	0.74			

### Australian Indices

Source: DataGene 07 Dec 2020

BPI/REL %

215/58 ASI

184



12/02/2021

# ALL BULLS

Page Number	NZAB Code	Bull Name	Breed	Price Retail	Beta Casein	gBW	Rel%	Milk Volume (litres)	Fat kg	Protein kg	SCC	Fertility %	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length (days)	Liveweight	Overall Opinion	Stature	Capacity	Udder Overall	Dairy Conformation
<b>KiwiCross®</b>																					
45	517026	HOWSES SPRINGFIELD *	F9J7	\$24	A2A2	327	80	-234	35	19	-0.94	4.6	-0.8	-0.7	-1.9	3	0.36	0.02	0.91	0.52	0.60
53	516066	WALTON INFERNO	F9J7	\$22	A2A2	324	86	229	38	31	-0.56	1.6	-1.1	-0.9	-8.2	-3	0.43	-0.07	0.31	0.34	0.38
46	518072	DEANS PROFESSIONAL	J9F7	\$20	A2A2	344	58	66	41	20	-0.15	4.2	0.3	0.0	-3.1	-11	0.31	-0.22	0.37	0.30	0.49
47	520008	JULIAN MULTIPLIER-ET	F9J7	\$20	A2A2	335	56	232	41	29	-0.01	2.5	0.0	-0.3	-2.9	-15	0.19	-0.37	0.69	0.91	0.69
54	515025	SPEAKES SLIPSTREAM ET	J10F6	\$20	A2A2	317	86	-10	39	17	-0.07	6.6	0.2	-0.4	1.3	-3	0.33	0.12	0.48	1.10	0.51
50	517042	LUCK-AT-LAST INSPIRED-ET	F9J7	\$20	A2A2	301	81	476	41	28	0.19	1.4	0.3	-0.7	-6.0	-25	0.30	-0.57	0.69	0.71	0.63
48	517001	ARKANS PATRIARCH-ET *	F10J6	\$20	A1A2	294	83	5	38	18	0.20	3.0	0.0	-0.9	-4.1	-17	0.34	-0.38	0.28	1.07	0.42
52	516074	CROSSANS CRITICAL-ET	F10J6	\$20	A2A2	290	90	888	38	38	-0.35	2.2	-0.7	-0.3	-7.6	-8	0.45	-0.50	0.74	0.50	0.51
51	511011	PRIESTS SIERRA *	F11J5	\$20	A2A2	283	99	418	42	28	-0.16	3.8	2.0	0.0	-6.5	29	0.56	0.54	0.55	0.54	0.68
47	519062	ARKANS BARRIER	F9J7	\$20	A2A2	283	56	-263	33	15	-0.06	6.0	1.8	-0.4	-3.2	8	0.21	-0.16	0.83	0.73	0.70
46	518017	HORIZON BARNSTORMER-ET	F8J8	\$20	A2A2	279	64	178	37	25	-0.31	3.3	3.1	0.2	-9.1	21	0.53	0.16	0.72	0.43	0.55
55	517055	TARAMONT SPRINGTIDE	F10J6	\$20	A2A2	242	81	838	44	42	0.33	-0.6	0.0	-0.9	-9.8	30	0.49	0.33	0.93	1.05	1.08
54	517041	LUCK-AT-LAST EMPEROR-ET *	F10J6	\$20	A1A2	247	80	304	32	25	-0.02	1.0	1.0	-0.1	-1.9	6	0.35	-0.06	0.45	1.14	0.69
49	516043	ARKANS BOOMBOX-ET *	F11J5	\$20	A2A2	222	89	729	23	32	-0.44	0.7	0.0	0.0	3.5	-6	0.48	-0.29	0.90	1.13	0.81
56	515062	DUGGANS GAMEPLAN	J12F4	\$18	A2A2	303	88	-550	36	10	0.06	0.9	-2.5	-0.6	-6.4	-36	0.43	-0.52	0.23	0.66	0.31
55	515017	LYN BROOK KARTELL *	J8F7A1	\$18	A1A2	252	85	82	28	25	0.21	2.7	-1.1	-0.7	-4.4	-23	0.25	-0.61	0.28	0.61	0.14
58	514056	TIROHANGA TAKE NOTE	J12F4	\$16	A2A2	243	86	121	29	19	-0.02	3.0	-0.8	-0.7	-10.0	-17	0.49	-0.53	0.81	0.47	0.74
58	514018	GLEN KORU EPIC	J9F7	\$16	A2A2	237	90	194	25	28	-0.16	1.8	-1.2	-0.5	1.2	-5	0.24	0.07	0.29	0.39	0.25
58	512005	JUST ONCE COOPER	F9J7	\$16	A2A2	230	97	-97	27	11	0.12	3.2	-1.7	-0.7	-9.3	-19	0.30	-0.20	-0.03	0.49	0.12
57	513098	ARKANS BOUNTY	J11F5	\$16	A1A2	206	97	228	19	22	-0.02	-0.7	0.5	-0.1	0.7	-16	0.47	-0.43	0.70	0.77	0.83
58	513074	SCHRADERS TUSK	F9J7	\$16	A1A2	202	92	242	18	16	-0.12	5.0	-1.5	-0.8	-9.9	-25	0.48	-0.47	0.06	0.21	0.11
57	512050	ARKANS PERSPECTIVE-ET	F8J8	\$16	A1A2	198	98	20	24	13	0.18	3.3	-0.3	0.0	-2.9	-12	0.14	-0.21	0.18	0.48	0.32
56	511051	DRYSDALES SOVEREIGN	F8J8	\$16	A2A2	180	98	-38	14	10	-0.43	2.0	-1.6	-1.0	-5.2	0	0.35	-0.27	0.91	0.66	0.70
<b>KiwiCross® also available</b>																					
518076	GREENWELL BLACKHAWK	F11J5	\$20	A2A2	280	59	-72	28	23	-0.25	5.2	-1.6	0.0	-5.9	16	0.41	0.27	0.58	0.96	0.70	
514014	GREENWELL BREAKTHROUGH ET	F13J3	\$16	A2A2	171	91	347	23	27	-0.08	1.7	-1.0	-0.4	-4.6	21	0.61	0.45	0.19	0.48	0.25	
514088	CLARKES SONNY BULL	F10J6	\$16	A1A2	96	86	282	13	22	0.46	1.4	6.4	-1.2	-3.7	19	0.17	0.17	0.41	1.17	0.45	
515019	LYN BROOK KNIGHT ET	J8F7	\$12	A2A2	293	83	262	29	25	-0.37	4.9	-0.9	0.2	0.0	-20	-0.04	-0.77	1.24	0.15	0.95	
508140	HOWIES EASYRIDER	F7J9	\$12	A1A2	276	99	-205	33	10	0.22	4.0	-1.6	-0.7	-3.3	-19	0.11	-0.69	0.79	0.26	0.55	
513063	JERSEYDALE NO2WAYS	J12F4	\$12	A2A2	269	88	-157	23	9	-0.19	5.8	-3.5	-1.8	-3.4	-47	0.37	-0.47	-0.08	0.11	-0.01	
512030	DAISLEYS RENEGADE	J8F7A1	\$12	A2A2	200	89	129	31	17	-0.09	-2.0	-1.6	-0.9	2.2	-13	0.06	-0.31	0.54	0.47	0.58	
514084	GREENMILE HC MILAN	F9J7	\$12	A2A2	175	96	245	25	23	0.33	-2.7	-2.1	-0.8	-7.6	-12	0.06	-0.13	0.22	0.17	0.17	
511052	MOODY'S EXECUTIVE	J10F6	\$12	A2A2	169	98	344	10	25	-0.15	2.0	-0.8	-0.5	-3.4	-16	0.09	-0.50	0.80	0.04	0.49	
507086	WOODS EQUINOX *	J9F7	\$12	A2A2	149	99	-189	14	10	0.18	1.9	-1.2	-1.0	-3.0	-3	0.35	-0.06	0.37	0.43	0.46	
511031	RIVERVIEW RAIDER	J10F6	\$12	A2A2	147	99	44	9	18	-0.04	0.7	0.0	0.4	5.4	-7	0.31	-0.10	0.22	0.29	0.16	
507036	LYNSKEYS LANCASTER	J9F7	\$12	A2A2	134	99	30	13	14	-0.28	0.2	-1.2	-0.6	-0.6	-4	0.18	0.14	0.42	0.07	0.38	
512006	ALCAMENO COMMANDER	F13J3	\$12	A2A2	133	99	664	26	34	0.96	-3.9	2.0	0.6	-7.3	-10	0.48	-0.30	0.61	0.21	0.64	
506104	NEVRON SHOWMAN	J10F6	\$12	A1A2	130	99	337	11	24	-0.09	-0.6	-0.5	-0.9	2.6	-3	0.13	-0.04	0.18	0.50	0.27	
513095	ALCAMENO DIRECTOR	J9F7	\$12	A2A2	98	97	-36	19	15	0.85	-5.0	-0.6	1.0	-5.2	-13	0.29	-0.06	-0.04	0.48	0.22	
512054	DICKSONS SOLACE	F13J3	\$12	A2A2	66	97	563	10	21	-0.30	-2.1	0.3	0.4	-0.7	16	0.10	0.07	0.54	0.56	0.31	
510002	ARKANS ASTOUND	F8J8	\$12	A2A2	53	97	189	6	13	-0.15	-0.6	-0.1	-0.3	-4.2	7	-0.17	0.37	0.19	0.47	0.30	

## Ayrshire

61	515503	IWA SUPER SONIC	A16	\$18	A2A2	113	82	476	27	16	-0.71	-3.1	-0.7	0.3	-0.9	4	0.22	-0.28	0.29	0.61	0.27
62	510544	PA HILL BRODY IVO ET	A16	\$18	A1A2	41	90	207	0	7	-0.36	-3.7	-0.5	0.1	-1.8	-26	0.22	-0.77	0.20	-0.08	-0.02
62	514613	TE MATAI ELVIS	A16	\$18	A1A2	12	95	227	-10	2	-0.15	0.5	-0.4	-0.6	-1.6	-23	0.17	-0.77	0.34	-0.10	0.14

## Ayrshire also available

510539	LODORE SNAPSHOT ET	A16	\$12	A2A2	9	92	-227	2	-11	0.23	-3.2	-3.4	-1.5	0.1	-19	0.39	-0.79	0.47	0.15	0.18
507515	MAYO RF QUINNELLA	A16	\$12	A1A2	61	98	348	21	4	-0.02	-5.0	-2.2	-1.4	-3.5	-28	0.28	-0.69	0.18	-0.25	-0.06
504522	SOUTHWIND JARMO	A16	\$12	A1A2	58	98	382	17	11	0.04	-3.1	-1.2	-1.4	-2.1	-7	-0.12	-0.27	-0.01	-0.18	-0.12

\* Sexed semen is offered for Single AI use only, see page 10 for more information



12/02/2021

# TOP 5 PERFORMERS

## Breeding Worth

National herd breed average: \$111

NASIS	Name	gBW\$/Rel%	Page
NZGDEANSPROF	PROFESSIONAL	344 / 58	46
NZGMULTIPLYR	MULTIPLIER	335 / 56	47
NZGHOWSFIELD	SPRINGFIELD	327 / 80	45
NZGWALTFERNO	INFERNO	324 / 86	53
NZGLIPSTREM	SLIPSTREAM	317 / 86	54

## BPI

NASIS	Name	BPI / Rel %	Page
NZGWALTFERNO	INFERNO	359 / 61	53
NZGCRITICAL	CRITICAL	350 / 63	52
NZGTARATIDE	SPRINGTIDE	328 / 46	55
NZGHOWSFIELD	SPRINGFIELD	307 / 57	45
NZGPRISIERRA	SIERRA	284 / 87	51

## Protein

National herd breed average: 14 kg

NASIS	Name	Protein kg / %	Page
NZGTARATIDE	SPRINGTIDE	42 / 4.0	55
NZGCRITICAL	CRITICAL	38 / 3.9	52
NZGARKBOOMBX	BOOMBOX	32 / 3.9	49
NZGWALTFERNO	INFERNO	31 / 4.3	53
NZGMULTIPLYR	MULTIPLIER	29 / 4.2	47

## Fat

National herd breed average: 13 kg

NASIS	Name	Fat kg / %	Page
NZGTARATIDE	SPRINGTIDE	44 / 4.8	55
NZGPRISIERRA	SIERRA	42 / 5.2	51
NZGMULTIPLYR	MULTIPLIER	41 / 5.4	47
NZGINSPIRED	INSPIRED	41 / 5.1	50
NZGDEANSPROF	PROFESSIONAL	41 / 5.5	46

## Fertility

National herd breed average: 0.7%

NASIS	Name	Fertility %	Page
NZGLIPSTREM	SLIPSTREAM	6.6	54
NZGBARRIER	BARRIER	6.0	47
NZGTUSK	TUSK	5.0	58
NZGHOWSFIELD	SPRINGFIELD	4.6	45
NZGDEANSPROF	PROFESSIONAL	4.2	46

## Milk Volume

National herd breed average: 185 l

NASIS	Name	Litres	Page
NZGCRITICAL	CRITICAL	888	52
NZGTARATIDE	SPRINGTIDE	838	55
NZGARKBOOMBX	BOOMBOX	729	49
NZGINSPIRED	INSPIRED	476	50
NZGPRISIERRA	SIERRA	418	51

## SCC

National herd breed average: 0.00

NASIS	Name	SCC	Page
NZGHOWSFIELD	SPRINGFIELD	-0.94	45
NZGWALTFERNO	INFERNO	-0.56	53
NZGARKBOOMBX	BOOMBOX	-0.44	49
NZGDRYREIGN	SOVEREIGN	-0.43	56
NZGCRITICAL	CRITICAL	-0.35	52

## Capacity

National herd breed average: 0.20

NASIS	Name	Capacity	Page
NZGTARATIDE	SPRINGTIDE	0.93	55
NZGDRYREIGN	SOVEREIGN	0.91	56
NZGHOWSFIELD	SPRINGFIELD	0.91	45
NZGARKBOOMBX	BOOMBOX	0.90	49
NZGBARRIER	BARRIER	0.83	47

## Udder Overall

National herd breed average: 0.16

NASIS	Name	Udder Overall	Page
NZGLUEMPEROR	EMPEROR	1.14	54
NZGARKBOOMBX	BOOMBOX	1.13	49
NZGLIPSTREM	SLIPSTREAM	1.10	54
NZGPATRIARCH	PATRIARCH	1.07	48
NZGTARATIDE	SPRINGTIDE	1.05	55

## Heifer Calving Difficulty

National herd breed average: -0.1

NASIS	Name	Calving Difficulty	Page
NZGDUGPLAN	GAMEPLAN	-2.5	56
NZGJUSTCOOPR	COOPER	-1.7	58
NZGDRYREIGN	SOVEREIGN	-1.6	56
NZGTUSK	TUSK	-1.5	58
NZGLENEPIC	EPIC	-1.2	58

# 2021

# Ayrshire



RETAIL  
\$18.00

Ayrshire



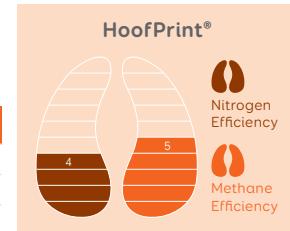
Daughter of 515503 SONIC

## 515503 IWA SUPER SONIC

**\$113/82%**  
gBW REL

### Breeding Details

NASIS	NZGSUPASONIC
Breed	A16
Pedigree	GEORGE x TOSIKKO



### NEW ZEALAND DETAILS

#### Daughter Proven

NZ Breeding Values		58 Daughters		
Milk Volume (litres)	<b>476</b>	Fertility %	-3.1	
Fat kg	<b>27</b>	Body Condition Score	-0.23	
Fat %	<b>4.8</b>	Total Longevity (days)	40	
Protein kg	<b>16</b>	Calving Difficulty (cow)	0.3	
Protein %	<b>3.7</b>	Calving Difficulty (heifer)	-0.7	
SCC	<b>-0.71</b>	Gestation Length (days)	-0.9	
Liveweight	<b>4</b>	BetaCasin		A2A2

### NZ Evaluation Data

#### Traits other than production

Management	gBV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.25</b>			
Shed Temperament	<b>0.36</b>			
Milking Speed	<b>-0.14</b>			
Overall Opinion	<b>0.22</b>			
<b>Conformation (24 daughters TOP tested)</b>				
Stature	<b>-0.28</b>			
Capacity	<b>0.29</b>			
Rump Angle	<b>0.07</b>			
Rump Width	<b>-0.11</b>			
Legs	<b>-0.06</b>			
Udder Support	<b>0.54</b>			
Front Udder	<b>0.59</b>			
Rear Udder	<b>0.53</b>			
Front Teat Placement	<b>0.14</b>			
Rear Teat Placement	<b>0.25</b>			
Udder Overall	<b>0.61</b>			
Dairy Conformation	<b>0.27</b>			

Registrable



12/02/2021

### Australian Indices

Source: DataGene 07 Dec 2020

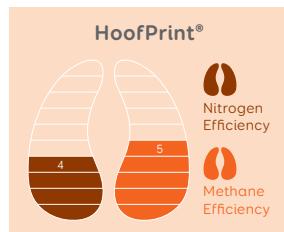
BPI/REL %	<b>301/51</b>	Survival	<b>101</b>
ASI	<b>212</b>	Daughter Fertility	<b>100</b>
HWI	<b>245</b>	Calving Ease	<b>0</b>
Milk	<b>445</b>	Overall Type	<b>104</b>
Fat kg	<b>44</b>	Mammary System	<b>105</b>
Protein kg	<b>25</b>	SCC	<b>133</b>

RETAIL  
\$18.00

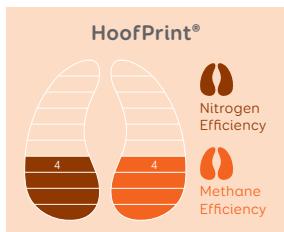
Daughter of 510544 IVO

**510544 PA HILL BRODY  
IVO ET****\$41/90%**  
gBW REL

NASIS	NZGHILLIVO
Breed	A16
Pedigree	BRODY x KIEKKO

RETAIL  
\$18.00**514613 TE MATAI  
ELVIS****\$12/95%**  
gBW REL

NASIS	NZGMATELVIS
Breed	A16
Pedigree	PHILLIP x PEPPERNIKE



NZ Breeding Values		204 Daughters	
Milk Volume (litres)	<b>207</b>	Fertility %	<b>-3.7</b>
Fat kg	<b>0</b>	Body Condition Score	<b>-0.12</b>
Fat %	<b>4.5</b>	Total Longevity (days)	<b>144</b>
Protein kg	<b>7</b>	Calving Difficulty (cow)	<b>0.1</b>
Protein %	<b>3.8</b>	Calving Difficulty (heifer)	<b>-0.5</b>
SCC	<b>-0.36</b>	Gestation Length (days)	<b>-1.8</b>
Liveweight	<b>-26</b>	BetaCasin	<b>A1A2</b>

NZ Breeding Values		1123 Daughters	
Milk Volume (litres)	<b>227</b>	Fertility %	<b>0.5</b>
Fat kg	<b>-10</b>	Body Condition Score	<b>0.06</b>
Fat %	<b>4.3</b>	Total Longevity (days)	<b>245</b>
Protein kg	<b>2</b>	Calving Difficulty (cow)	<b>-0.6</b>
Protein %	<b>3.7</b>	Calving Difficulty (heifer)	<b>-0.4</b>
SCC	<b>-0.15</b>	Gestation Length (days)	<b>-1.6</b>
Liveweight	<b>-23</b>	BetaCasin	<b>A1A2</b>



Registrable



12/02/2021



Registrable



12/02/2021

Source: DataGene 07 Dec 2020

BPI/REL %	<b>141/60</b>	Survival	<b>100</b>
ASI	<b>99</b>	Daughter Fertility	<b>100</b>
HWI	<b>124</b>	Calving Ease	<b>0</b>
Milk	<b>-52</b>	Overall Type	<b>97</b>
Fat kg	<b>12</b>	Mammary System	<b>94</b>
Protein kg	<b>10</b>	SCC	<b>108</b>

Source: DataGene 07 Dec 2020

BPI/REL %	<b>46/61</b>	Survival	<b>100</b>
ASI	<b>24</b>	Daughter Fertility	<b>102</b>
HWI	<b>70</b>	Calving Ease	<b>0</b>
Milk	<b>-36</b>	Overall Type	<b>100</b>
Fat kg	<b>-3</b>	Mammary System	<b>96</b>
Protein kg	<b>4</b>	SCC	<b>91</b>

# 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

- 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

- 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

- 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.
- 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).
- Without limiting clauses 3 and 4 above, the Client acknowledges and agrees that:
  - 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
  - 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.
- 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

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

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

- 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:
  - 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
  - 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
  - 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
  - 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

- 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.

# Contact Us

## Livestock Improvement Pty Ltd

PO Box 1129  
Echuca, Victoria 3564  
Australia

**Freephone** 1800 454 694  
**M** +61 499 900 612



**MIKE ROSE**  
Australian Country Manager  
District Manager **Northern Victoria, NSW and QLD**  
**M** +61 407 708 677  
**E** mrose@licaus.com.au



**LIZ MCVEY**  
Office Manager  
District Manager **Northern Victoria**  
**M** +61 428 344 454  
**E** lmcvety@licaus.com.au



**MIKE WITE**  
District Manager **Western Victoria, SA and WA**  
**M** +61 428 566 362  
**E** mwaite@licaus.com.au



**COLLEEN MOURIE**  
District Manager **Gippsland**  
**M** +61 429 944 169  
**E** cmourie@licaus.com.au



**ROWAN PRIEST**  
District Manager **Tasmania and King Island**  
**M** +61 428 144 111  
**E** rpriest@licaus.com.au



**SHARON MCEWAN**  
Administration Assistant  
**E** admin@licaus.com.au

For the latest information and bull teams visit our website:

[www.licnz.com.au](http://www.licnz.com.au)



Follow us  
@LICAustralia