

# 2019 Sire Catalogue





It is my pleasure to present the new-look 2019 LIC Sire Catalogue.

As a farmer-owned genetics company, our mission is to improve the profitability and prosperity of our farmers. We are constantly looking for ways to make improvements so our farmers can add more value on-farm.

LIC invests more than 10% of revenue every year into research and development and recently we have developed new unique solutions, like more short gestation options, measuring pasture through satellites, improved indexes such as our once-a-day milking index, and advances in genomic science.

Genomics is certainly the buzzword at present and Australia is adopting it quickly. LIC uses genomics to help select our young progeny test sires, and over the last 25 years, we have invested over \$60 million into further improving the science.

It is because of these improvements that we now offer some of LIC's best young genomic sires in Australia. These guys are not only from top cow families, they also offer farmers more breeding options. They have a range of attractive traits, including diverse pedigrees, high index rankings, A2A2 and excellent type.

While our new genomic bulls are certainly turning heads, we still have a wide range of daughter proven sires including some brand new high-performers. Sweet As is now the highest-ranking Holstein-Friesian in New Zealand and has a healthy Balanced Performance Index (BPI). Wingman shows outstanding production and udder breeding values. Combining the new graduates with existing favourites makes for a compelling Holstein-Friesian line-up.

The LIC Jersey sires have never been so strong in Australia, with sires in the top five for BPI - Misty and Leopard - and many in the top 25. LIC has been focusing on improving the size and conformation of Jerseys, and bulls like Leopard, Dexter and Dynamo show that

this is being delivered.

There are some great outcross options in the new crop of Kiwicross™ sires. Izabull, Knight and Beckon are good options for farmers that want to add diversity to their herds.

You will also see some changes to Breeding Worth (BW). This is due to the recent update of the economic weightings that make up BW. Many processors receive more money for fat than protein, so the new weightings are a better reflection of where fat is likely to sit relative to protein now and in the future. Read more in the autumn issue of Green to Gold or at [licnz.com](http://licnz.com).

As always, our District Managers are happy to work with you to find the best solutions to suit your needs. I wish you all the very best for the upcoming season.

Kind Regards,

Mike Rose

LIC Australia Sales and Operations Manager

## PRICING

Purchase a minimum of 100 straws to receive the discounted volume price.

<b>Performance &amp; genomic</b> \$24.00 + GST  <b>Volume</b> \$20.00 + GST	<b>Classic</b> \$20.00 + GST  <b>Volume</b> \$16.00 + GST	<b>Value</b> \$11-13.00 + GST
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The first 200 orders we receive over 100 straws will receive a free LIC softshell jacket or Deane overalls.

Terms and conditions:

- Only orders for 100 or more LIC straws qualify.
- Only orders received 30 days before the required on-farm date qualify.
- Limit of one item per customer.
- Limited sizes available and distributed on a first order basis.
- Offer ends 20 September 2019 or while stocks last.

For more information, talk to your District Manager or contact the LIC office on 1800 454 694 | [admin@licaus.com.au](mailto:admin@licaus.com.au).



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## 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:

- Inseminate animals ordinarily in the customers herd.
- Generate replacement heifer calves for use within the customers herd or to sell as excess heifers
- 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 AUS office 1800 454 694 or your local LIC AUS representative.

# OUR CO-OPERATIVE

LIC is a farmer-owned co-operative that provides leading-edge genetics and solutions to improve the productivity and prosperity of dairy farmers all around the world.

If there's one certainty with dairy farming, it's that it never stands still. It's always evolving, changing and looking ahead. It's always improving. Our approach to dairy farming is no different. In 1909, we started improving the quality of New Zealand's national herd. Today, LIC's breeding programme is one of the largest of its kind in the world.

## OUR PURPOSE

Our co-operative empowers livestock farmers through:

- Genetics and information to create superior livestock
- Information to improve decision making to enable superior livestock performance
- Hardware and systems to improve productivity and decision making
- LIC International – adding value for dairy farmers worldwide

## OUR ACHIEVEMENTS

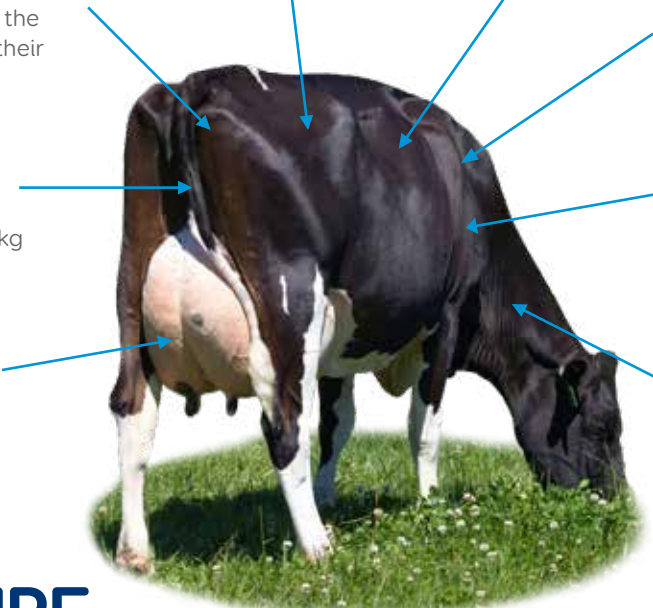
Three out of four New Zealand dairy cows are sired by an LIC bull

- Over 10 million milk samples are analysed by LIC each year and information is added to proof of sire
- Over 4.7 million dairy animals recorded on one national database
- 5 million straws of fresh semen are dispatched all over New Zealand during spring mating season
- Over 1 million frozen semen straws were sold internationally in the 2017-2018 season
- We export to over 20 countries worldwide
- Over 10% of revenue is invested back into the research and development of new products and solutions



# 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



**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

**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

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

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

**Reliable**  
LIC genetics are tested across hundreds of commercial herds to prove they can produce profitable cows

**Robust**  
NZ cows are fit to walk to and from the milking parlour everyday, twice a day

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

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

# 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.



# 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 the New Zealand Animal Evaluation (NZAE) unit and LIC rank New Zealand dairy animals.

Because many LIC customers here in 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.

## Base Cow

The New Zealand Base Cow is the genetic reference point used to determine Breeding Worth (BW) and Breeding Values (BV) 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 herd tested at least four times to deliver an accurate result.

## Production

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

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

## Traits Other than Production

### Assessing the Animal

Traits Other than Production (TOP) refers 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 efficiency of dairy cattle.

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 -nation comparisons are analysed and processed. This information is then fed into the national database as breeding values for sires.

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

FARMER SCORED MANAGEMENT TRAITS		Low Score	High Score	Base Cow Average
Sire Proving farmers score two-year-old heifers on the four farmer traits				
<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		Low Score	High Score	Base Cow Average
<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 width of pins, hips and thurls relative to the size of the heifer		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

# HOW TO READ A SIRE PAGE

## BW/Rel

Using this bull at a BW of \$181 indicates that per 5t DM the replacements are expected to generate NZD \$90.5 more net profit than using a sire with a BW of 0.

## Milk

A BV of 444 litres indicates the bull will produce daughters which on average will produce 222 litres more than the base cow per 5t of dry matter fed. Remember the BV is across breeds so Jersey and Crossbred animals may show a negative BV.

## Protein and Milkfat

A BV of 25 kg indicates that the bull will produce daughters, which on average, are genetically superior to the base cow by 12.5 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 35,000 bulk milk count. The lower the SCC BV the better as you want to reduce the bulk milk SCC.

## Shed Temperament

A BV 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 0.21 the raw score for his daughters on average is expected to be  $6.28 + 0.10 = 6.38$  from a linear score of 9).

## Stature

Again as the BV for a sire is comparing his progeny against the base cow which is across breed. Stature for Jerseys is usually negative and Holsteins are positive.



Holstein-Friesian F14J2  
NZGARKANBUST \* | A1A2

BW **\$181/99%** REL

## PEDIGREE: MINT-EDITION x SKELTON

- High milkfat
- Low somatic cell count
- Fertility & longevity
- Liked by farmers

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	10	5788	277	4.79	230	3.97
MGD	7	4190	202	4.82	167	3.98

## NEW ZEALAND DETAILS

### NZ Breeding Values

Daughter Proven		17026 Daughters	
Milk Volume (litres)	444	Fertility %	4.9
Fat kg	36	Body Condition Score	0.08
Fat %	5.1	Total Longevity (days)	375
Protein kg	25	Calving Difficulty	1.4
Protein %	4.0	Gestation Length (days)	-2.6
SCC	0.06	Liveweight	36

## NZ Evaluation Data

Management	BV	Traits other than production			
		-0.5	0	0.5	1.0
Adapts to Milking	0.20				
Shed Temperament	0.21				
Milking Speed	0.25				
Overall Opinion	0.32				

## Conformation (262 daughters TOP tested)

Stature	0.88				
Capacity	0.45				
Rump Angle	0.10				
Rump Width	0.09				
Legs	-0.01				
Udder Support	0.53				
Front Udder	0.20				
Rear Udder	0.25				
Front Teat Placement	-0.07				
Rear Teat Placement	0.67				
Udder Overall	0.23				
Dairy Conformation	0.57				

Unregistrable

AE 11/02/2019

## Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	225/67	Protein kg	1
HWI	166	Protein %	0.55
ASI	152	Survival	103
TWI	152	Daughter Fertility	111
Milk	-1043	Calving Ease	102
Fat kg	23	Overall Type	95
Fat %	0.97	Mammary System	94

## Fertility

A BV of 4.9% indicates that 2.4 % 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 than dairy industries worldwide. Highly fertile cows have been necessary to achieve this. It is generally accepted that the New Zealand base cow is far more fertile than the base cow of any other country.

## Longevity

A BV of 375 days indicates the bull's daughters are expected to last in the herd for 187.5 days longer, compared to a bull of 0 days. The average number of New Zealand lactations is now 5.5.

## Calving Difficulty

A sire's Calving Difficulty BV compares the percentage of assisted calvings expected when he is mated to yearling heifers, compared to a bull of 0.

## Liveweight

A BV of 36 kg indicates that by using this sire over the average cow in New Zealand, his daughters are expected to have a mature liveweight 18 kg heavier than the base cow of 500 kg. Because Breeding Values (BV) are calculated across breeds you would expect a Holstein Friesian to have a much higher (positive) BV for liveweight and you would expect Jerseys to have a lower (negative) BV.

BW/BV are calculated by NZAEL  
gBW/BV are calculated by LIC.

# ONCE-A-DAY

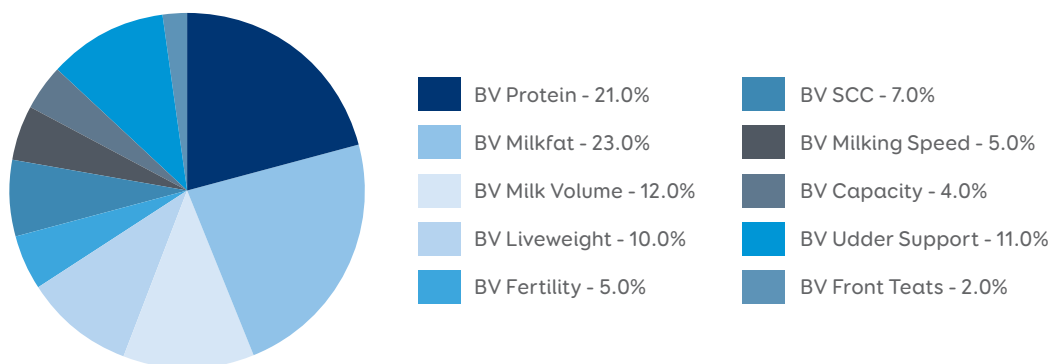
Once-A-Day (OAD) milking could be an efficient way to combat low pay-outs through reduction in farm working expenses and improved animal health. It may be used exclusively as the overall farming system, or strategically for part of the herd or for shorter periods during the season.

LIC's new OAD index has been developed to help OAD farmers breed animals that persist throughout the lactation and have longevity in the herd.

The new index has a strong correlation to Breeding Worth (BW) but also combines the non-negotiable OAD functional traits. It reflects what farmers have told us is required in a desirable OAD cow and takes into account Capacity, Udder Support, Front Teat Placement and Milking Speed. The index places less emphasis on Residual Survival and Fertility because these factors are less of an issue than in twice-a-day (TAD) herds.

## 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 BW, 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 BW.



## Once-A-Day Team

Bull Code	Name	OAD	BW/Rel	Protein kg	Fat kg	Milk Volume (litres)	Fertility %	Calving Difficulty	Somatic Cell Count	Capacity	Udder Overall	Page
<b>Holstein-Friesian</b>												
115054	MEANDER SB WINGMAN-ET S3F	1337	151 / 81	29	28	754	0.8	1.5	-0.56	-0.08	1.24	17
114057	MAIRE FI GOLDDIGGER	1327	110 / 87	38	43	1148	0.0	4.5	-0.10	1.01	1.21	23
115084	GREENWELL SB FORAY-ET S3F	1324	94 / 91	35	21	912	0.3	2.4	-0.52	0.86	1.26	20
111037	SAN RAY FM BEAMER-ET S2F	1310	189 / 99	36	38	762	4.0	0.9	0.25	0.76	0.65	15
115080	WESTEDGE VHR SWEET AS S2F	1297	210 / 83	39	49	797	1.3	5.1	-0.05	0.13	0.10	19
113086	MAIRE IG GAUNTLET-ET	1287	99 / 88	43	31	1410	2.8	1.9	-0.20	1.48	1.00	14
<b>Jersey</b>												
314052	CRESCENT EXCELL MISTY ET	1321	290 / 86	0	27	-879	5.2	-2.4	-0.50	0.91	0.55	31
315009	RIVERVIEW AND DEXTER S2J	1313	232 / 82	10	22	-237	4.0	-2.3	-0.11	0.58	0.66	32
314012	KAITAKA OI LEOPARD ET	1311	252 / 91	0	23	-676	1.6	-2.0	-0.39	-0.06	0.84	33
312004	GLANTON LT BRAHMS	1288	187 / 99	9	31	-587	-4.0	-1.1	0.24	0.66	0.43	37
311013	OKURA LT INTEGRITY	1278	245 / 99	2	27	-474	0.6	-2.1	-0.11	0.83	0.54	30
314004	BELLS OI FLOYD S3J	1267	230 / 95	11	29	-63	1.4	-2.1	-0.33	0.76	0.59	34
<b>Kiwicross™</b>												
514017	GLEN KORU BECKON	1348	236 / 87	29	51	502	-1.0	-3.3	-0.21	0.60	0.22	43
513098	ARKANS BOUNTY	1294	178 / 98	18	22	230	0.0	-0.1	-0.12	0.63	0.91	45
515058	KAHURANGI IZABULL	1293	265 / 82	25	36	384	3.9	-0.4	-0.31	-0.13	0.49	44
511051	DRYSDALES SOVEREIGN	1277	169 / 99	11	16	70	2.8	-1.3	-0.42	0.95	0.71	49
512005	JUST ONCE COOPER	1271	197 / 86	11	27	2	1.3	-1.6	-0.19	0.13	0.49	52
515019	LYNBROOK KNIGHT ET	1264	208 / 75	19	25	245	4.2	-1.6	-0.29	1.18	0.16	47



# SHORT GESTATION LENGTH

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

There is a range of SGL products available:



## SGL Hereford

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



## SGL plus BW

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

## SGL plus BW Team

Bull Code	Name	Gestation Length	BW/Rel	Protein kg	Fat kg	Milk Volume (litres)	Fertility %	Calving Difficulty	Somatic Cell Count	Capacity	Udder Overall	Page
Holstein-Friesian												
115080	WESTEDGE VHR SWEET AS S2F	-7.2	210 / 83	39	49	797	1.3	5.1	-0.05	0.13	0.10	19
114057	MAIRE FI GOLDDIGGER	-5.5	110 / 87	38	43	1148	0.0	4.5	-0.10	1.01	1.21	23
112028	ARKAN HR CELESTIAL S2F	-5.3	59 / 86	40	28	1587	-2.8	0.8	-0.11	0.77	0.27	26
110080	MOURNE GROVE HOTHOUSE S2F	-5.3	107 / 99	34	16	1005	4	2.2	-0.07	-0.12	0.85	21
112080	MAIREMINT FIRE-UP	-5.1	63 / 92	46	40	1188	-2.1	1.3	0.27	0.70	1.00	20
111037	SAN RAY FM BEAMER-ET S2F	-4.7	189 / 99	36	38	762	4.0	0.9	0.25	0.76	0.65	15
Kiwicross™												
514056	TIROHANGA TAKE NOTE	-10.7	172 / 84	12	22	-40	0.5	-2.9	0.00	0.69	0.46	48
513074	SCHRADERS TUSK	-10.5	189 / 87	12	17	191	7.5	-2.0	-0.11	0.06	0.39	48
512005	JUST ONCE COOPER	-9.9	197 / 86	11	27	2	1.3	-1.6	-0.19	0.13	0.49	52
514084	GREENMILE HC MILAN	-8.3	135 / 97	17	21	178	-0.9	-1.8	0.30	0.19	0.14	52
515058	KAHURANGI IZABULL	-7.3	265 / 82	25	36	384	3.9	-0.4	-0.31	-0.13	0.49	44
514017	GLEN KORU BECKON	-6.1	236 / 87	29	51	502	-1.0	-3.3	-0.21	0.60	0.22	43

**Q.**

What can you add to  
your farm business to  
improve success?

**A.**

LIC Genetics



**Holstein  
Friesian**



118053 GOVERNOR



118069 POLLICE



114007 VECTOR



113086 GAUNTLET



111037 BEAMER



111036 BUSTER



113117 BOMBER



115054 WINGMAN



114123 GRAVITY



110049 HAMMER



115080 SWEET AS



112080 FIRE-UP



115084 FORAY



110080 HOTHOUSE



113120 MAXIMA



114023 BANDITO



114057 GOLDDIGGER



111057 LEGACY



113014 BOSS



112063 TOPNOTCH



112033 LONESTAR



114041 HUSTLER



112028 CELESTIAL



114089 PLAYMAKER



112046 GRANITE





DAM of 118053 GOVERNOR

## 118053 GREENWELL GR GOVERNOR

Holstein-Friesian F16  
NZGREENGOV | A2A2gBW **\$244/49%** REL

PEDIGREE: REGIMENT x ILLUSTRIOUS

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	4943	241	4.88	199	4.03
MGD	10	5515	234	4.24	210	3.8

## NEW ZEALAND DETAILS

Genomic

## NZ Breeding Values 0 Daughters

Milk Volume (litres)	<b>701</b>	Fertility %	<b>5.5</b>
Fat kg	<b>40</b>	Body Condition Score	<b>0.04</b>
Fat %	<b>4.9</b>	Total Longevity (days)	<b>671</b>
Protein kg	<b>37</b>	Calving Difficulty	<b>2.0</b>
Protein %	<b>3.9</b>	Gestation Length (days)	<b>-5.6</b>
SCC	<b>-0.29</b>	Liveweight	<b>43</b>

## NZ Evaluation Data Traits other than production

Management	BV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.21</b>			
Shed Temperament	<b>0.20</b>			
Milking Speed	<b>0.01</b>			
Overall Opinion	<b>0.26</b>			
Conformation (0 daughters TOP tested)				
Stature	<b>0.77</b>			
Capacity	<b>0.14</b>			
Rump Angle	<b>-0.14</b>			
Rump Width	<b>0.50</b>			
Legs	<b>-0.28</b>			
Udder Support	<b>0.54</b>			
Front Udder	<b>0.83</b>			
Rear Udder	<b>0.41</b>			
Front Teat Placement	<b>0.48</b>			
Rear Teat Placement	<b>0.18</b>			
Udder Overall	<b>0.74</b>			
Dairy Conformation	<b>0.41</b>			

Unregistrable

Data Source LIC 11/02/2019

## Comments from LIC Livestock Selection Manager:

This young bull is from the famous Greenwell stud - one of the best cow families in New Zealand. This cow family has consistently delivered high-performing bulls such as Blitz, Brutus, Bomber and Bonza - all descendants of the famous "Betty" cow. Being a standout genomic sire, Governor offers an excellent blend of traits to make him an ideal addition to numerous breeding programmes.



## 118069 COSTERS POLLICE PP-ET S3F

Holstein-Friesian F16  
NZGPOLLICEPP | A2A2gBW **\$142/54%** REL

PEDIGREE: POLITICIAN x GOLDEN BOY

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	4760	186	3.90	169	3.54
MGD	9	4417	186	4.20	160	3.62

## NEW ZEALAND DETAILS

Genomic

## NZ Breeding Values 0 Daughters

Milk Volume (litres)	<b>722</b>	Fertility %	<b>1.7</b>
Fat kg	<b>8</b>	Body Condition Score	<b>0.07</b>
Fat %	<b>4.3</b>	Total Longevity (days)	<b>564</b>
Protein kg	<b>25</b>	Calving Difficulty	<b>0.9</b>
Protein %	<b>3.7</b>	Gestation Length (days)	<b>-5.2</b>
SCC	<b>-0.46</b>	Liveweight	<b>-5</b>

## NZ Evaluation Data Traits other than production

Management	BV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.23</b>			
Shed Temperament	<b>0.21</b>			
Milking Speed	<b>0.03</b>			
Overall Opinion	<b>0.24</b>			
Conformation (0 daughters TOP tested)				
Stature	<b>-0.10</b>			
Capacity	<b>-0.15</b>			
Rump Angle	<b>-0.28</b>			
Rump Width	<b>-0.09</b>			
Legs	<b>-0.12</b>			
Udder Support	<b>0.37</b>			
Front Udder	<b>0.37</b>			
Rear Udder	<b>0.13</b>			
Front Teat Placement	<b>0.07</b>			
Rear Teat Placement	<b>0.34</b>			
Udder Overall	<b>0.30</b>			
Dairy Conformation	<b>-0.18</b>			

Unregistrable

Data Source LIC 11/02/2019

## Comments from LIC Livestock Selection Manager:

If you are looking to try a Polled sire suited to grazing based systems this is your guy. A double PP polled sire who has a very well balanced proof, Pollice is sired by well-known Polled bull, Politician. The dam side goes back to Golden boy, who is a Frostman son. Being A2A2 and easy calving this bull will have widespread appeal.





Limited Supply

RETAIL  
**\$24.00**  
SEXED  
**\$48.00**  
VOLUME  
**\$20.00**

## 114007 BUSY BROOK WTP VECTOR S3F



Daughter of 114007 VECTOR



Daughter of 114007 VECTOR

Holstein-Friesian F16  
NZGBBVECTR | A1A1

**\$182/86%**  
BW REL

### PEDIGREE: TE POI x GOLDEN BOY

- Outstanding management scores
- Excellent fertility & longevity
- High BW
- Good production

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	5	7658	404	5.28	296	3.87
MGD	4	6499	314	4.83	243	3.74

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

102 Daughters

Milk Volume (litres)	<b>961</b>	Fertility %	<b>7.9</b>
Fat kg	<b>40</b>	Body Condition Score	<b>0.47</b>
Fat %	<b>4.7</b>	Total Longevity (days)	<b>614</b>
Protein kg	<b>36</b>	Calving Difficulty	<b>0.4</b>
Protein %	<b>3.8</b>	Gestation Length (days)	<b>-2.8</b>
SCC	<b>-0.37</b>	Liveweight	<b>104</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.89</b>				
Shed Temperament	<b>0.88</b>				
Milking Speed	<b>0.47</b>				
Overall Opinion	<b>0.98</b>				
Conformation (88 daughters TOP tested)					
Stature	<b>1.20</b>				
Capacity	<b>0.81</b>				
Rump Angle	<b>0.20</b>				
Rump Width	<b>0.73</b>				
Legs	<b>0.23</b>				
Udder Support	<b>0.33</b>				
Front Udder	<b>0.38</b>				
Rear Udder	<b>0.09</b>				
Front Teat Placement	<b>0.06</b>				
Rear Teat Placement	<b>-0.19</b>				
Udder Overall	<b>0.37</b>				
Dairy Conformation	<b>0.68</b>				

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>351/68</b>	Protein kg	<b>18</b>
HWI	<b>275</b>	Protein %	<b>0.44</b>
ASI	<b>193</b>	Survival	<b>106</b>
TWI	<b>280</b>	Daughter Fertility	<b>116</b>
Milk	<b>-200</b>	Calving Ease	<b>102</b>
Fat kg	<b>28</b>	Overall Type	<b>97</b>
Fat %	<b>0.52</b>	Mammary System	<b>93</b>

Unregistrable

AE 11/02/2019


 RETAIL  
**\$24.00**

## 113086 MAIRE IG GAUNTLET-ET

 Holstein-Friesian F16  
 NZGMAIRGAUNT | A2A2

 BW **\$99/88%** REL

### PEDIGREE: IGNITION x SPICY

- Phenomenal capacity
- Low somatic cell count
- High production
- Extreme type

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	3	7778	339	4.35	266	3.42
MGD	4	6469	310	4.79	228	3.53

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

119 Daughters

Milk Volume (litres)	<b>1410</b>	Fertility %	<b>2.8</b>
Fat kg	<b>31</b>	Body Condition Score	<b>0.30</b>
Fat %	<b>4.1</b>	Total Longevity (days)	<b>343</b>
Protein kg	<b>43</b>	Calving Difficulty	<b>1.9</b>
Protein %	<b>3.6</b>	Gestation Length (days)	<b>-0.3</b>
SCC	<b>-0.20</b>	Liveweight	<b>82</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.83</b>				
Shed Temperament	<b>0.83</b>				
Milking Speed	<b>0.46</b>				
Overall Opinion	<b>0.89</b>				
Conformation (79 daughters TOP tested)					
Stature	<b>1.15</b>				
Capacity	<b>1.48</b>				
Rump Angle	<b>-0.10</b>				
Rump Width	<b>0.61</b>				
Legs	<b>-0.06</b>				
Udder Support	<b>0.81</b>				
Front Udder	<b>1.01</b>				
Rear Udder	<b>0.72</b>				
Front Teat Placement	<b>0.57</b>				
Rear Teat Placement	<b>0.58</b>				
Udder Overall	<b>1.00</b>				
Dairy Conformation	<b>1.38</b>				



Daughter of 113086 GAUNTLET



Daughter of 113086 GAUNTLET

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>252/70</b>	Protein kg	<b>24</b>
HWI	<b>192</b>	Protein %	<b>0.20</b>
ASI	<b>143</b>	Survival	<b>103</b>
TWI	<b>266</b>	Daughter Fertility	<b>107</b>
Milk	<b>510</b>	Calving Ease	<b>101</b>
Fat kg	<b>15</b>	Overall Type	<b>108</b>
Fat %	<b>-0.10</b>	Mammary System	<b>102</b>

Unregistrable

AE 11/02/2019





## 111037 SAN RAY FM BEAMER-ET S2F



Daughter of 111037 BEAMER



Daughter of 111037 BEAMER

Holstein-Friesian F14J2

NZGRAYBEAM \* | A1A2

**\$189/99%** BW REL

### PEDIGREE: MINT-EDITION x SKELTON

- High production
- Outstanding udders
- Capacious daughters
- Fertility & longevity

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	10	5788	277	4.79	230	3.97
MGD	7	4190	202	4.82	167	3.98

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

28716 Daughters

Milk Volume (litres)	<b>762</b>	Fertility %	<b>4.0</b>
Fat kg	<b>38</b>	Body Condition Score	<b>0.06</b>
Fat %	<b>4.8</b>	Total Longevity ( days )	<b>460</b>
Protein kg	<b>36</b>	Calving Difficulty	<b>0.9</b>
Protein %	<b>3.9</b>	Gestation Length (days )	<b>-4.7</b>
SCC	<b>0.25</b>	Liveweight	<b>41</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.18</b>				
Shed Temperament	<b>0.15</b>				
Milking Speed	<b>0.43</b>				
Overall Opinion	<b>0.43</b>				
Conformation (748 daughters TOP tested)					
Stature	<b>0.72</b>				
Capacity	<b>0.76</b>				
Rump Angle	<b>0.50</b>				
Rump Width	<b>0.97</b>				
Legs	<b>0.15</b>				
Udder Support	<b>0.52</b>				
Front Udder	<b>0.42</b>				
Rear Udder	<b>0.56</b>				
Front Teat Placement	<b>0.35</b>				
Rear Teat Placement	<b>0.46</b>				
Udder Overall	<b>0.65</b>				
Dairy Conformation	<b>0.83</b>				

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>243/66</b>	Protein kg	<b>12</b>
HWI	<b>176</b>	Protein %	<b>0.49</b>
ASI	<b>167</b>	Survival	<b>105</b>
TWI	<b>173</b>	Daughter Fertility	<b>109</b>
Milk	<b>-523</b>	Calving Ease	<b>102</b>
Fat kg	<b>19</b>	Overall Type	<b>95</b>
Fat %	<b>0.60</b>	Mammary System	<b>94</b>

Unregistrable

\* Crossbred Sire

AE 11/02/2019



RETAIL  
\$24.00  
VOLUME  
\$20.00

Daughter of 111036 BUSTER

## 111036 ARKAN FM BUSTER-ET S2F

Holstein-Friesian F14J2  
NZGARKANBUST \* | A1A2

BW **\$181/99%** REL

### PEDIGREE: MINT-EDITION x SKELTON

- High milkfat
- Low somatic cell count
- Fertility & longevity
- Liked by farmers

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	10	5788	277	4.79	230	3.97
MGD	7	4190	202	4.82	167	3.98

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

17026 Daughters

Milk Volume (litres)	<b>444</b>	Fertility %	<b>4.9</b>
Fat kg	<b>36</b>	Body Condition Score	<b>0.08</b>
Fat %	<b>5.1</b>	Total Longevity (days)	<b>375</b>
Protein kg	<b>25</b>	Calving Difficulty	<b>1.4</b>
Protein %	<b>4.0</b>	Gestation Length (days)	<b>-2.6</b>
SCC	<b>0.06</b>	Liveweight	<b>36</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.20</b>				
Shed Temperament	<b>0.21</b>				
Milking Speed	<b>0.25</b>				
Overall Opinion	<b>0.32</b>				

#### Conformation (262 daughters TOP tested)

Stature	<b>0.88</b>				
Capacity	<b>0.45</b>				
Rump Angle	<b>0.10</b>				
Rump Width	<b>0.09</b>				
Legs	<b>-0.01</b>				
Udder Support	<b>0.53</b>				
Front Udder	<b>0.20</b>				
Rear Udder	<b>0.25</b>				
Front Teat Placement	<b>-0.07</b>				
Rear Teat Placement	<b>0.67</b>				
Udder Overall	<b>0.23</b>				
Dairy Conformation	<b>0.57</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>225/67</b>	Protein kg	<b>1</b>
HWI	<b>166</b>	Protein %	<b>0.55</b>
ASI	<b>152</b>	Survival	<b>103</b>
TWI	<b>152</b>	Daughter Fertility	<b>111</b>
Milk	<b>-1043</b>	Calving Ease	<b>102</b>
Fat kg	<b>23</b>	Overall Type	<b>95</b>
Fat %	<b>0.97</b>	Mammary System	<b>94</b>

\* Crossbred Sire



RETAIL  
\$24.00  
VOLUME  
\$20.00

Daughter of 113117 BOMBER

## 113117 GREENWELL SH BOMBER S1F

Holstein-Friesian F16  
NZGGREENBOMB | A1A2

BW **\$115/98%** REL

### PEDIGREE: HAMMER x MINT-EDITION

- Excellent udders
- Fertility & longevity
- Low somatic cell count
- OAD option

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	1	4022	162	4.04	158	3.93
MGD	10	5515	234	4.24	210	3.80

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

2699 Daughters

Milk Volume (litres)	<b>484</b>	Fertility %	<b>4.3</b>
Fat kg	<b>13</b>	Body Condition Score	<b>-0.02</b>
Fat %	<b>4.5</b>	Total Longevity (days)	<b>406</b>
Protein kg	<b>22</b>	Calving Difficulty	<b>1.9</b>
Protein %	<b>3.9</b>	Gestation Length (days)	<b>0.5</b>
SCC	<b>-0.30</b>	Liveweight	<b>25</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.02</b>				
Shed Temperament	<b>-0.02</b>				
Milking Speed	<b>0.30</b>				
Overall Opinion	<b>0.23</b>				

#### Conformation (92 daughters TOP tested)

Stature	<b>0.42</b>				
Capacity	<b>0.04</b>				
Rump Angle	<b>-0.20</b>				
Rump Width	<b>-0.11</b>				
Legs	<b>-0.09</b>				
Udder Support	<b>0.93</b>				
Front Udder	<b>0.94</b>				
Rear Udder	<b>0.51</b>				
Front Teat Placement	<b>0.53</b>				
Rear Teat Placement	<b>0.78</b>				
Udder Overall	<b>1.01</b>				
Dairy Conformation	<b>0.12</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>250/73</b>	Protein kg	<b>7</b>
HWI	<b>214</b>	Protein %	<b>0.47</b>
ASI	<b>129</b>	Survival	<b>102</b>
TWI	<b>220</b>	Daughter Fertility	<b>111</b>
Milk	<b>-648</b>	Calving Ease	<b>102</b>
Fat kg	<b>8</b>	Overall Type	<b>99</b>
Fat %	<b>0.51</b>	Mammary System	<b>100</b>



RETAIL  
\$24.00  
VOLUME  
\$20.00



Daughter of 115054 WINGMAN

## 115054 MEANDER SB WINGMAN-ET S3F



Daughter of 115054 WINGMAN

Holstein-Friesian F16  
NZGMEANDWING | A1A2

BW **\$151/81%** REL

### PEDIGREE: BOSS x ILLUSTRIOUS

- Outstanding udders
- Low somatic cell count
- Good milk solids
- Short gestation

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	2	6585	356	5.40	280	4.25
MGD	8	7642	329	4.31	280	3.67

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

89 Daughters

Milk Volume (litres)	<b>754</b>	Fertility %	<b>0.8</b>
Fat kg	<b>28</b>	Body Condition Score	<b>-0.19</b>
Fat %	<b>4.6</b>	Total Longevity ( days )	<b>379</b>
Protein kg	<b>29</b>	Calving Difficulty	<b>1.5</b>
Protein %	<b>3.8</b>	Gestation Length (days )	<b>-4.3</b>
SCC	<b>-0.56</b>	Liveweight	<b>19</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.30</b>				
Shed Temperament	<b>0.29</b>				
Milking Speed	<b>-0.04</b>				
Overall Opinion	<b>0.24</b>				

### Conformation (84 daughters TOP tested)

Stature	<b>0.48</b>				
Capacity	<b>-0.08</b>				
Rump Angle	<b>-0.70</b>				
Rump Width	<b>0.14</b>				
Legs	<b>-0.14</b>				
Udder Support	<b>1.34</b>				
Front Udder	<b>0.88</b>				
Rear Udder	<b>1.15</b>				
Front Teat Placement	<b>0.78</b>				
Rear Teat Placement	<b>1.42</b>				
Udder Overall	<b>1.24</b>				
Dairy Conformation	<b>0.09</b>				

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>285/51</b>	Protein kg	<b>13</b>
HWI	<b>258</b>	Protein %	<b>0.35</b>
ASI	<b>143</b>	Survival	<b>104</b>
TWI	<b>261</b>	Daughter Fertility	<b>108</b>
Milk	<b>-187</b>	Calving Ease	<b>102</b>
Fat kg	<b>18</b>	Overall Type	<b>102</b>
Fat %	<b>0.38</b>	Mammary System	<b>105</b>

Unregistrable

AE 11/02/2019



RETAIL  
\$24.00  
VOLUME  
\$20.00

Daughter of 114123 GRAVITY

## 114123 BACKHOUSE EO GRAVITY S2F

Holstein-Friesian F15J1  
NZGBAGRAVITY \* | A2A2

BW **\$147/85%** REL

### PEDIGREE: OVATION x APPLAUSE

- Good udders
- Low somatic cell count
- Great longevity
- A2A2

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	5448	287	5.28	219	4.01
MGD	7	4863	224	4.61	184	3.79

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

93 Daughters

Milk Volume (litres)	<b>450</b>	Fertility %	<b>0.6</b>
Fat kg	<b>25</b>	Body Condition Score	<b>0.12</b>
Fat %	<b>4.8</b>	Total Longevity (days)	<b>471</b>
Protein kg	<b>19</b>	Calving Difficulty	<b>-0.9</b>
Protein %	<b>3.8</b>	Gestation Length (days)	<b>2.0</b>
SCC	<b>-0.40</b>	Liveweight	<b>24</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.10</b>				
Shed Temperament	<b>0.07</b>				
Milking Speed	<b>-0.06</b>				
Overall Opinion	<b>0.15</b>				

#### Conformation (91 daughters TOP tested)

Stature	<b>0.46</b>				
Capacity	<b>0.25</b>				
Rump Angle	<b>-0.40</b>				
Rump Width	<b>0.05</b>				
Legs	<b>-0.13</b>				
Udder Support	<b>0.73</b>				
Front Udder	<b>0.22</b>				
Rear Udder	<b>0.48</b>				
Front Teat Placement	<b>0.20</b>				
Rear Teat Placement	<b>1.01</b>				
Udder Overall	<b>0.50</b>				
Dairy Conformation	<b>0.06</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>222/58</b>	Protein kg	<b>4</b>
HWI	<b>201</b>	Protein %	<b>0.32</b>
ASI	<b>102</b>	Survival	<b>105</b>
TWI	<b>161</b>	Daughter Fertility	<b>109</b>
Milk	<b>-462</b>	Calving Ease	<b>103</b>
Fat kg	<b>14</b>	Overall Type	<b>95</b>
Fat %	<b>0.49</b>	Mammary System	<b>98</b>

\* Crossbred Sire



RETAIL  
\$24.00  
SEXED  
\$48.00

VOLUME  
\$20.00

Daughter of 110049 HAMMER

## 110049 SAVANNAHS HF HAMMER S1F

Holstein-Friesian F15J1  
NZGSAVHAMMR \* | A2A2

BW **\$136/99%** REL

### PEDIGREE: FORMAT x NORTHSEA

- High fertility
- Low somatic cell count
- Longevity
- Good dairy conformation

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	5136	301	5.86	215	4.19
MGD	9	6413	302	4.70	226	3.53

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

23841 Daughters

Milk Volume (litres)	<b>552</b>	Fertility %	<b>2.7</b>
Fat kg	<b>19</b>	Body Condition Score	<b>0.07</b>
Fat %	<b>4.6</b>	Total Longevity (days)	<b>419</b>
Protein kg	<b>21</b>	Calving Difficulty	<b>2.1</b>
Protein %	<b>3.8</b>	Gestation Length (days)	<b>-3.4</b>
SCC	<b>-0.38</b>	Liveweight	<b>14</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.21</b>				
Shed Temperament	<b>0.14</b>				
Milking Speed	<b>0.26</b>				
Overall Opinion	<b>0.35</b>				

#### Conformation (247 daughters TOP tested)

Stature	<b>0.36</b>				
Capacity	<b>0.16</b>				
Rump Angle	<b>-0.10</b>				
Rump Width	<b>-0.03</b>				
Legs	<b>0.03</b>				
Udder Support	<b>0.50</b>				
Front Udder	<b>0.58</b>				
Rear Udder	<b>0.22</b>				
Front Teat Placement	<b>0.24</b>				
Rear Teat Placement	<b>0.28</b>				
Udder Overall	<b>0.60</b>				
Dairy Conformation	<b>0.22</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>196/77</b>	Protein kg	<b>0</b>
HWI	<b>168</b>	Protein %	<b>0.35</b>
ASI	<b>68</b>	Survival	<b>105</b>
TWI	<b>146</b>	Daughter Fertility	<b>110</b>
Milk	<b>-672</b>	Calving Ease	<b>108</b>
Fat kg	<b>-1</b>	Overall Type	<b>94</b>
Fat %	<b>0.40</b>	Mammary System	<b>98</b>

\* Crossbred Sire





RETAIL  
\$24.00

## 115080 WESTEDGE VHR SWEET AS S2F



Daughter of 115080 SWEET AS



DAM of 115080 SWEET AS

Holstein-Friesian F16

NZGSWEETAS | A2A2

\$210/83%  
BW REL

### PEDIGREE: REMEDY x MINT-EDITION

- Great production
- Short gestation length
- Well liked by farmers
- A2A2

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	5165	232	4.48	192	3.71
MGD	4	4058	184	4.53	153	3.78

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

107 Daughters

Milk Volume (litres)	797	Fertility %	1.3
Fat kg	49	Body Condition Score	-0.03
Fat %	4.9	Total Longevity (days)	390
Protein kg	39	Calving Difficulty	5.1
Protein %	3.9	Gestation Length (days)	-7.2
SCC	-0.05	Liveweight	44

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.41				
Shed Temperament	0.36				
Milking Speed	0.30				
Overall Opinion	0.54				
Conformation (107 daughters TOP tested)					
Stature	0.65				
Capacity	0.13				
Rump Angle	-0.60				
Rump Width	0.67				
Legs	0.05				
Udder Support	0.37				
Front Udder	0.21				
Rear Udder	0.05				
Front Teat Placement	-0.28				
Rear Teat Placement	0.06				
Udder Overall	0.10				
Dairy Conformation	0.32				

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	304/52	Protein kg	18
HWI	233	Protein %	0.50
ASI	226	Survival	104
TWI	239	Daughter Fertility	109
Milk	-321	Calving Ease	99
Fat kg	39	Overall Type	97
Fat %	0.77	Mammary System	95

Unregistrable

AE 11/02/2019



Limited Supply

RETAIL  
\$24.00**112080 MAIRE MINT  
FIRE-UP**Holstein-Friesian F16  
NZGFIREUP | A2A2BW **\$63/92%** REL**PEDIGREE: MINT-EDITION x JUSTICE**

- Outstanding components
- Excellent dairy conformation
- Great volume
- OAD option

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	7065	285	4.03	257	3.64
MGD	8	6799	292	4.29	257	3.78

**NEW ZEALAND DETAILS**

Daughter Proven

**NZ Breeding Values**

207 Daughters

Milk Volume (litres)	<b>1188</b>	Fertility %	<b>-2.1</b>
Fat kg	<b>40</b>	Body Condition Score	<b>-0.02</b>
Fat %	<b>4.5</b>	Total Longevity (days)	<b>350</b>
Protein kg	<b>46</b>	Calving Difficulty	<b>1.3</b>
Protein %	<b>3.8</b>	Gestation Length (days)	<b>-5.1</b>
SCC	<b>0.27</b>	Liveweight	<b>120</b>

**NZ Evaluation Data**

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.22</b>				
Shed Temperament	<b>0.22</b>				
Milking Speed	<b>0.22</b>				
Overall Opinion	<b>0.53</b>				

**Conformation (96 daughters TOP tested)**

Stature	<b>2.32</b>				
Capacity	<b>0.70</b>				
Rump Angle	<b>0.40</b>				
Rump Width	<b>0.46</b>				
Legs	<b>-0.06</b>				
Udder Support	<b>1.05</b>				
Front Udder	<b>0.74</b>				
Rear Udder	<b>0.87</b>				
Front Teat Placement	<b>0.28</b>				
Rear Teat Placement	<b>0.72</b>				
Udder Overall	<b>1.00</b>				
Dairy Conformation	<b>1.04</b>				

Registrable

AE 11/02/2019

**Australian Indices**

Source: ADHIS Dec 2018

BPI/REL %	<b>316/70</b>	Protein kg	<b>29</b>
HWI	<b>198</b>	Protein %	<b>0.48</b>
ASI	<b>249</b>	Survival	<b>106</b>
TWI	<b>298</b>	Daughter Fertility	<b>109</b>
Milk	<b>139</b>	Calving Ease	<b>103</b>
Fat kg	<b>35</b>	Overall Type	<b>105</b>
Fat %	<b>0.42</b>	Mammary System	<b>98</b>

RETAIL  
\$24.00  
VOLUME  
\$20.00

DAM of 115084 FORAY

**115084 GREENWELL SB  
FORAY-ET S3F**Holstein-Friesian F16  
NZGWELLFORAY | A2A2BW **\$94/91%** REL**PEDIGREE: BOSS x TOMMO**

- Excellent milk volume
- Capacious daughters
- Outstanding udders
- A2A2

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	1	4232	168	3.96	163	3.85
MGD	6	5736	245	4.27	238	4.16

**NEW ZEALAND DETAILS**

Daughter Proven

**NZ Breeding Values**

323 Daughters

Milk Volume (litres)	<b>912</b>	Fertility %	<b>0.3</b>
Fat kg	<b>21</b>	Body Condition Score	<b>-0.16</b>
Fat %	<b>4.3</b>	Total Longevity (days)	<b>270</b>
Protein kg	<b>35</b>	Calving Difficulty	<b>2.4</b>
Protein %	<b>3.8</b>	Gestation Length (days)	<b>-1.4</b>
SCC	<b>-0.52</b>	Liveweight	<b>44</b>

**NZ Evaluation Data**

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.31</b>				
Shed Temperament	<b>0.30</b>				
Milking Speed	<b>0.26</b>				
Overall Opinion	<b>0.39</b>				

**Conformation (93 daughters TOP tested)**

Stature	<b>0.78</b>				
Capacity	<b>0.86</b>				
Rump Angle	<b>-0.20</b>				
Rump Width	<b>0.43</b>				
Legs	<b>-0.17</b>				
Udder Support	<b>1.29</b>				
Front Udder	<b>0.92</b>				
Rear Udder	<b>1.08</b>				
Front Teat Placement	<b>0.86</b>				
Rear Teat Placement	<b>1.51</b>				
Udder Overall	<b>1.26</b>				
Dairy Conformation	<b>1.06</b>				

Unregistrable

AE 11/02/2019

**Australian Indices**

Source: ADHIS Dec 2018

BPI/REL %	<b>218/68</b>	Protein kg	<b>16</b>
HWI	<b>177</b>	Protein %	<b>0.33</b>
ASI	<b>123</b>	Survival	<b>101</b>
TWI	<b>210</b>	Daughter Fertility	<b>107</b>
Milk	<b>-41</b>	Calving Ease	<b>101</b>
Fat kg	<b>4</b>	Overall Type	<b>105</b>
Fat %	<b>0.09</b>	Mammary System	<b>101</b>





Daughter of 110080 HOTHOUSE

RETAIL  
**\$24.00**  
SEXED  
**\$48.00**  
VOLUME  
**\$20.00**

## 110080 MOURNE GROVE HOTHOUSE S2F



Daughter of 110080 HOTHOUSE

Holstein-Friesian F16  
NZGHOTHOUSE | A2A2

BW **\$107/99%** REL

### PEDIGREE: ROCKSOLID x LEOPARD

- Good udders
- Shorter gestation length
- Fertility & longevity
- A2A2

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	5935	246	4.14	225	3.80
MGD	4	6033	255	4.22	225	3.73

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

7141 Daughters

Milk Volume (litres)	<b>1005</b>	Fertility %	<b>4.0</b>
Fat kg	<b>16</b>	Body Condition Score	<b>0.12</b>
Fat %	<b>4.2</b>	Total Longevity ( days )	<b>511</b>
Protein kg	<b>34</b>	Calving Difficulty	<b>2.2</b>
Protein %	<b>3.7</b>	Gestation Length (days )	<b>-5.3</b>
SCC	<b>-0.07</b>	Liveweight	<b>48</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.45</b>				
Shed Temperament	<b>0.44</b>				
Milking Speed	<b>-0.18</b>				
Overall Opinion	<b>0.46</b>				

### Conformation (370 daughters TOP tested)

Stature	<b>0.82</b>				
Capacity	<b>-0.12</b>				
Rump Angle	<b>-0.40</b>				
Rump Width	<b>0.19</b>				
Legs	<b>-0.32</b>				
Udder Support	<b>0.65</b>				
Front Udder	<b>0.84</b>				
Rear Udder	<b>0.51</b>				
Front Teat Placement	<b>0.34</b>				
Rear Teat Placement	<b>-0.01</b>				
Udder Overall	<b>0.85</b>				
Dairy Conformation	<b>0.21</b>				

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>261/83</b>	Protein kg	<b>26</b>
HWI	<b>231</b>	Protein %	<b>0.28</b>
ASI	<b>135</b>	Survival	<b>104</b>
TWI	<b>214</b>	Daughter Fertility	<b>113</b>
Milk	<b>414</b>	Calving Ease	<b>101</b>
Fat kg	<b>-2</b>	Overall Type	<b>98</b>
Fat %	<b>-0.28</b>	Mammary System	<b>98</b>

Unregistrable

AE 11/02/2019





RETAIL  
\$24.00  
VOLUME  
\$20.00

## 113120 BOTHWELL WT MAXIMA S2F

Holstein-Friesian F15J1  
NZGBOMAXIMA \* | A1A2

BW **\$149/99%** REL

### PEDIGREE: TOMMO x ECLIPSE

- Good udders
- Capacity
- Milk solids
- Low somatic cell count

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	5834	279	4.78	213	3.66
MGD	9	4113	203	4.93	157	3.82

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

5066 Daughters

Milk Volume (litres)	514	Fertility %	2.5
Fat kg	29	Body Condition Score	0.02
Fat %	4.8	Total Longevity (days)	342
Protein kg	20	Calving Difficulty	0.8
Protein %	3.8	Gestation Length (days)	-1.9
SCC	-0.22	Liveweight	17

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.33				
Shed Temperament	0.30				
Milking Speed	0.04				
Overall Opinion	0.46				
Conformation (103 daughters TOP tested)					
Stature	0.24				
Capacity	0.46				
Rump Angle	-0.10				
Rump Width	0.36				
Legs	-0.04				
Udder Support	0.91				
Front Udder	0.93				
Rear Udder	0.58				
Front Teat Placement	0.52				
Rear Teat Placement	0.68				
Udder Overall	1.00				
Dairy Conformation	0.66				

Unregistrable

\*Crossbred Sire

AE 11/02/2019



Daughter of 113120 MAXIMA



Daughter of 113120 MAXIMA

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	278/71	Protein kg	9
HWI	232	Protein %	0.45
ASI	175	Survival	102
TWI	259	Daughter Fertility	109
Milk	-555	Calving Ease	102
Fat kg	33	Overall Type	103
Fat %	0.82	Mammary System	101



RETAIL  
\$24.00  
VOLUME  
\$20.00

Daughter of 114023 BANDITO

## 114023 ARKAN RAN BANDITO S3F

Holstein-Friesian F15J1  
NZGBANDITO \* | A1A2

BW **\$141/86%** REL

### PEDIGREE: RANBO x MINT-EDITION

- Easy calving
- Low somatic cell count
- Capacious daughters
- Liked by farmers

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	5645	256	4.53	221	3.92
MGD	10	5788	277	4.79	230	3.97

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

105 Daughters

Milk Volume (litres)	<b>487</b>	Fertility %	<b>-0.9</b>
Fat kg	<b>25</b>	Body Condition Score	<b>0.24</b>
Fat %	<b>4.8</b>	Total Longevity (days)	<b>361</b>
Protein kg	<b>29</b>	Calving Difficulty	<b>-1.3</b>
Protein %	<b>4.0</b>	Gestation Length (days)	<b>-3.0</b>
SCC	<b>-0.50</b>	Liveweight	<b>51</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.36</b>				
Shed Temperament	<b>0.40</b>				
Milking Speed	<b>0.11</b>				
Overall Opinion	<b>0.44</b>				

#### Conformation (99 daughters TOP tested)

Stature	<b>0.62</b>				
Capacity	<b>0.65</b>				
Rump Angle	<b>0.00</b>				
Rump Width	<b>-0.37</b>				
Legs	<b>0.15</b>				
Udder Support	<b>0.49</b>				
Front Udder	<b>0.47</b>				
Rear Udder	<b>0.27</b>				
Front Teat Placement	<b>-0.08</b>				
Rear Teat Placement	<b>0.37</b>				
Udder Overall	<b>0.40</b>				
Dairy Conformation	<b>0.56</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>244/67</b>	Protein kg	<b>7</b>
HWI	<b>185</b>	Protein %	<b>0.58</b>
ASI	<b>163</b>	Survival	<b>102</b>
TWI	<b>192</b>	Daughter Fertility	<b>108</b>
Milk	<b>-880</b>	Calving Ease	<b>103</b>
Fat kg	<b>16</b>	Overall Type	<b>97</b>
Fat %	<b>0.76</b>	Mammary System	<b>92</b>

\*Crossbred Sire



RETAIL  
\$24.00  
SEXED  
\$48.00  
VOLUME  
\$20.00

## 114057 MAIRE FI GOLDDIGGER

Holstein-Friesian F16  
NZGMAIRGOLD | A1A2

BW **\$110/87%** REL

### PEDIGREE: ILLUSTRIOUS x FIRENZE

- Outstanding udders
- Good management scores
- Excellent dairy conformation
- High volume

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	5	7542	341	4.52	284	3.76
MGD	4	6469	310	4.79	228	3.53

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

108 Daughters

Milk Volume (litres)	<b>1148</b>	Fertility %	<b>0.0</b>
Fat kg	<b>43</b>	Body Condition Score	<b>0.16</b>
Fat %	<b>4.5</b>	Total Longevity (days)	<b>311</b>
Protein kg	<b>38</b>	Calving Difficulty	<b>4.5</b>
Protein %	<b>3.7</b>	Gestation Length (days)	<b>-5.5</b>
SCC	<b>-0.10</b>	Liveweight	<b>86</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.57</b>				
Shed Temperament	<b>0.52</b>				
Milking Speed	<b>0.46</b>				
Overall Opinion	<b>0.69</b>				

#### Conformation (97 daughters TOP tested)

Stature	<b>1.17</b>				
Capacity	<b>1.01</b>				
Rump Angle	<b>-0.20</b>				
Rump Width	<b>0.39</b>				
Legs	<b>0.01</b>				
Udder Support	<b>1.19</b>				
Front Udder	<b>1.39</b>				
Rear Udder	<b>0.71</b>				
Front Teat Placement	<b>0.61</b>				
Rear Teat Placement	<b>1.00</b>				
Udder Overall	<b>1.21</b>				
Dairy Conformation	<b>1.10</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>307/70</b>	Protein kg	<b>26</b>
HWI	<b>231</b>	Protein %	<b>0.34</b>
ASI	<b>206</b>	Survival	<b>103</b>
TWI	<b>321</b>	Daughter Fertility	<b>106</b>
Milk	<b>310</b>	Calving Ease	<b>100</b>
Fat kg	<b>31</b>	Overall Type	<b>106</b>
Fat %	<b>0.26</b>	Mammary System	<b>101</b>





RETAIL  
**\$20.00**  
VOLUME  
**\$16.00**

Daughter of 111057 LEGACY

## 111057 OAKLINE DI LEGACY S2F

Holstein-Friesian F16  
NZGDILEGACEE | A1A2

BW **\$90/98%** REL

### PEDIGREE: IGNITE x APPLAUSE

- High fertility
- Good longevity
- Easy calving
- Retains body condition

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	6001	241	4.02	223	3.71
MGD	5	4220	171	4.06	155	3.66

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

1789 Daughters

Milk Volume (litres)	<b>1246</b>	Fertility %	<b>2.7</b>
Fat kg	<b>15</b>	Body Condition Score	<b>0.29</b>
Fat %	<b>4.0</b>	Total Longevity (days)	<b>538</b>
Protein kg	<b>34</b>	Calving Difficulty	<b>-0.1</b>
Protein %	<b>3.6</b>	Gestation Length (days)	<b>-1.7</b>
SCC	<b>-0.05</b>	Liveweight	<b>47</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.40</b>				
Shed Temperament	<b>0.38</b>				
Milking Speed	<b>0.25</b>				
Overall Opinion	<b>0.44</b>				

#### Conformation (150 daughters TOP tested)

Stature	<b>0.70</b>				
Capacity	<b>0.55</b>				
Rump Angle	<b>-0.20</b>				
Rump Width	<b>-0.07</b>				
Legs	<b>0.02</b>				
Udder Support	<b>0.26</b>				
Front Udder	<b>0.38</b>				
Rear Udder	<b>-0.17</b>				
Front Teat Placement	<b>0.02</b>				
Rear Teat Placement	<b>-0.46</b>				
Udder Overall	<b>0.22</b>				
Dairy Conformation	<b>0.48</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>229/71</b>	Protein kg	<b>21</b>
HWI	<b>197</b>	Protein %	<b>0.18</b>
ASI	<b>114</b>	Survival	<b>104</b>
TWI	<b>157</b>	Daughter Fertility	<b>113</b>
Milk	<b>431</b>	Calving Ease	<b>102</b>
Fat kg	<b>7</b>	Overall Type	<b>94</b>
Fat %	<b>-0.17</b>	Mammary System	<b>91</b>



RETAIL  
**\$20.00**  
VOLUME  
**\$16.00**

Daughter of 113014 BOSS

## 113014 SPRING TRALEE BOSS-ET S3F

Holstein-Friesian F15J1  
NZGLEEBOSS \* | A2A2

BW **\$67/99%** REL

### PEDIGREE: OVATION x MINT-EDITION

- Excellent udders
- Good fertility
- OAD option
- Smaller Friesians

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	1	4232	168	3.96	163	3.85
MGD	6	5736	245	4.27	238	4.16

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

5741 Daughters

Milk Volume (litres)	<b>600</b>	Fertility %	<b>2.9</b>
Fat kg	<b>1</b>	Body Condition Score	<b>-0.07</b>
Fat %	<b>4.2</b>	Total Longevity (days)	<b>362</b>
Protein kg	<b>22</b>	Calving Difficulty	<b>0.5</b>
Protein %	<b>3.8</b>	Gestation Length (days)	<b>-1.2</b>
SCC	<b>-0.28</b>	Liveweight	<b>14</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.23</b>				
Shed Temperament	<b>0.26</b>				
Milking Speed	<b>-0.04</b>				
Overall Opinion	<b>0.18</b>				

#### Conformation (121 daughters TOP tested)

Stature	<b>0.30</b>				
Capacity	<b>0.41</b>				
Rump Angle	<b>-0.30</b>				
Rump Width	<b>0.10</b>				
Legs	<b>-0.17</b>				
Udder Support	<b>1.32</b>				
Front Udder	<b>0.85</b>				
Rear Udder	<b>1.41</b>				
Front Teat Placement	<b>0.91</b>				
Rear Teat Placement	<b>1.69</b>				
Udder Overall	<b>1.34</b>				
Dairy Conformation	<b>0.52</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>158/70</b>	Protein kg	<b>3</b>
HWI	<b>141</b>	Protein %	<b>0.27</b>
ASI	<b>48</b>	Survival	<b>105</b>
TWI	<b>80</b>	Daughter Fertility	<b>112</b>
Milk	<b>-425</b>	Calving Ease	<b>102</b>
Fat kg	<b>-8</b>	Overall Type	<b>92</b>
Fat %	<b>0.14</b>	Mammary System	<b>93</b>

\*Crossbred Sire

## NEW ZEALAND DETAILS

Daughter Proven

## NZ Breeding Values

118 Daughters

Milk Volume (litres)	998	Fertility %	2.7
Fat kg	17	Body Condition Score	0.09
Fat %	4.2	Total Longevity (days)	401
Protein kg	32	Calving Difficulty	0.6
Protein %	3.7	Gestation Length (days)	0.6
SCC	-0.19	Liveweight	32

## NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Overall Opinion	0.55			
Conformation (102 daughters TOP tested)				
Udder Overall	0.36			
Dairy Conformation	0.60			

## PEDIGREE: GOLDEN BOY x ELSTO

## Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	231/64	ASI	120
HWI	199	TWI	145
Daughter Fertility	113	Overall Type	91



RETAIL  
\$20.00  
VOLUME  
\$16.00

Daughter of 112063 TOPNOTCH

**112063 PADRUTTS GB**  
**TOPNOTCH S2F**

Holstein-Friesian F15J1

NZGTOPNOTCH \* | A1A2

**\$107/89%**  
BW REL

## NEW ZEALAND DETAILS

Daughter Proven

## NZ Breeding Values

1824 Daughters

Milk Volume (litres)	176	Fertility %	1.5
Fat kg	1	Body Condition Score	-0.09
Fat %	4.6	Total Longevity (days)	367
Protein kg	17	Calving Difficulty	-1.0
Protein %	4.0	Gestation Length (days)	1.3
SCC	0.32	Liveweight	21

## NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Overall Opinion	0.31			
Conformation (120 daughters TOP tested)				
Udder Overall	0.42			
Dairy Conformation	-0.03			

## PEDIGREE: BONZA x PERFORMER

## Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	221/73	ASI	116
HWI	196	TWI	155
Daughter Fertility	108	Overall Type	93



RETAIL  
\$20.00  
VOLUME  
\$16.00

**112033 CETARA GB**  
**LONESTAR S3F**

Holstein-Friesian F16

NZGTARASTAR | A2A2

**\$58/97%**  
BW REL

## NEW ZEALAND DETAILS

Daughter Proven

## NZ Breeding Values

96 Daughters

Milk Volume (litres)	634	Fertility %	1.1
Fat kg	33	Body Condition Score	0.11
Fat %	4.8	Total Longevity (days)	398
Protein kg	26	Calving Difficulty	2.0
Protein %	3.8	Gestation Length (days)	-3.5
SCC	0.13	Liveweight	43

## NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Overall Opinion	0.48			
Conformation (76 daughters TOP tested)				
Udder Overall	0.34			
Dairy Conformation	0.31			

## PEDIGREE: EARNIE x MONARCH

## Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	211/66	ASI	111
HWI	180	TWI	123
Daughter Fertility	114	Overall Type	93



RETAIL  
\$20.00  
VOLUME  
\$16.00

**114041 MITCHELLS KE**  
**HUSTLER S2F**

Holstein-Friesian F15J1

NZGHUSTLER \* | A2A2

**\$138/85%**  
BW REL



RETAIL  
\$1300

## 112028 ARKAN HR CELESTIAL S2F

Holstein-Friesian F16  
NZGCELESTIAL | A2A2

BW **\$59/86%** REL

RETAIL  
\$1300

## 114089 MOSSOPS GB PLAYMAKER

Holstein-Friesian F16  
NZGPLAYMAKER | A2A2

BW **\$155/85%** REL

RETAIL  
\$1300

Limited Supply

Daughter of 112046 GRANITE

## 112046 MOORBYS FM GRANITE S2F

Holstein-Friesian F15J1  
NZGMOORNITE \* | A2A2

BW **\$141/87%** REL

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

82 Daughters

Milk Volume (litres)	1587	Fertility %	-2.8
Fat kg	28	Body Condition Score	0.25
Fat %	4.0	Total Longevity ( days )	429
Protein kg	40	Calving Difficulty	0.8
Protein %	3.5	Gestation Length (days )	-5.3
SCC	-0.11	Liveweight	70

#### NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Overall Opinion	0.29			
Conformation (74 daughters TOP tested)				
Udder Overall	0.27			
Dairy Conformation	0.49			

### PEDIGREE: RAZZLER x SPICY

#### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	194/68	ASI	111
HWI	156	TWI	135
Daughter Fertility	108	Overall Type	95

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

108 Daughters

Milk Volume (litres)	646	Fertility %	0.0
Fat kg	53	Body Condition Score	0.03
Fat %	5.2	Total Longevity ( days )	194
Protein kg	34	Calving Difficulty	1.6
Protein %	4.0	Gestation Length (days )	-1.0
SCC	0.56	Liveweight	65

#### NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Overall Opinion	0.11			
Conformation (85 daughters TOP tested)				
Udder Overall	0.43			
Dairy Conformation	0.76			

### PEDIGREE: BLITZ x MINT-EDITION

#### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	196/69	ASI	247
HWI	92	TWI	137
Daughter Fertility	106	Overall Type	99

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

93 Daughters

Milk Volume (litres)	935	Fertility %	3.2
Fat kg	23	Body Condition Score	0.07
Fat %	4.4	Total Longevity ( days )	413
Protein kg	38	Calving Difficulty	2.3
Protein %	3.8	Gestation Length (days )	-4.4
SCC	-0.30	Liveweight	46

#### NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Overall Opinion	0.48			
Conformation (85 daughters TOP tested)				
Udder Overall	0.53			
Dairy Conformation	0.80			

### PEDIGREE: MINT-EDITION x MEADOWS

#### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	240/66	ASI	153
HWI	179	TWI	146
Daughter Fertility	111	Overall Type	90

AE 11/02/2019

\*Crossbred Sire



# TOP 5 PERFORMERS

## Breeding Worth

NASIS	Name	BW\$/Rel%	Page
NZGSWEETAS	SWEETAS	210 / 83	19
NZGRAYBEAM *	BEAMER	189 / 99	15
NZGBBVECTR	VECTOR	182 / 86	13
NZGARKANBUST *	BUSTER	181 / 99	16
NZGPLAYMAKER	PLAYMAKER	155 / 85	26

## BPI

Source: ADHIS Dec 2018

NASIS	Name	BPI	Page
NZGBBVECTR	VECTOR	351	13
NZGFIREUP	FIRE-UP	316	20
NZGMAIRGOLD	GOLDDIGGER	307	23
NZGSWEETAS	SWEETAS	304	19
NZGMEANDWING	WINGMAN	285	17

## Protein

NASIS	Name	Protein kg / %	Page
NZGFIREUP	FIRE-UP	46 / 3.8	20
NZGMAIRGAUNT	GAUNTLET	43 / 3.6	14
NZGCELESTIAL	CELESTIAL	40 / 3.5	26
NZGSWEETAS	SWEETAS	39 / 4.0	19
NZGMOORNITE	GRANITE	38 / 3.9	26

## Fat

NASIS	Name	Fat kg / %	Page
NZGPLAYMAKER	PLAYMAKER	53 / 5.2	26
NZGARKANBUST *	BUSTER	36 / 5.0	16
NZGSWEETAS	SWEETAS	49 / 4.5	19
NZGBOMAXIMA *	MAXIMA	29 / 4.8	22
NZGBAGRAVITY *	GRAVITY	25 / 4.8	18

## Fertility

NASIS	Name	Fertility %	Page
NZGBBVECTR	VECTOR	7.9	13
NZGARKANBUST *	BUSTER	4.9	16
NZGGREENBOMB	BOMBER	4.3	16
NZGRAYBEAM *	BEAMER	4.0	15
NZGHOTHOUSE	HOTHOUSE	4.0	21

## Milk Volume

NASIS	Name	Litres	Page
NZGCELESTIAL	CELESTIAL	1587	26
NZGMAIRGAUNT	GAUNTLET	1410	14
NZGDILEGACEE	LEGACY	1246	24
NZGFIREUP	FIRE-UP	1188	20
NZGMAIRGOLD	GOLDDIGGER	1148	23

## Somatic Cell Count

NASIS	Name	SCC	Page
NZGMEANDWING	WINGMAN	-0.56	17
NZGWELLFORAY	FORAY	-0.52	20
NZGBANDITO *	BANDITO	-0.50	23
NZGBAGRAVITY *	GRAVITY	-0.40	18
NZGSAVHAMMR *	HAMMER	-0.38	18

## Capacity

NASIS	Name	Capacity	Page
NZGMAIRGAUNT	GAUNTLET	1.48	14
NZGMAIRGOLD	GOLDDIGGER	1.01	23
NZGWELLFORAY	FORAY	0.86	20
NZGBBVECTR	VECTOR	0.81	13
NZGMOORNITE	GRANITE	0.81	26

## Udder Overall

NASIS	Name	Udder Overall	Page
NZGLEEBOSS *	BOSS	1.34	24
NZGWELLFORAY	FORAY	1.26	20
NZGMEANDWING	WINGMAN	1.24	17
NZGMAIRGOLD	GOLDDIGGER	1.21	23
NZGGREENBOMB	BOMBER	1.01	16

## Calving Difficulty

NASIS	Name	Calving Difficulty	Page
NZGBANDITO *	BANDITO	-1.3	23
NZZGTARASTAR	LONESTAR	-1.0	25
NZGBAGRAVITY *	GRAVITY	-0.9	18
NZGDILEGACEE	LEGACY	-0.1	24
NZGBBVECTR	VECTOR	0.4	13

\* Crossbred Sire

Q.

How can you add an element of certainty to your business?

A.

LIC Genetics



Jersey



318009 SUPERMAN



311013 INTEGRITY



314052 MISTY



315009 DEXTER



314012 LEOPARD



314004 FLOYD



312059 QUICKSILVER



312057 CONRAD



311029 DYNAMO



312014 FRANKIE



312034 INDEX



309090 RONALDO



312004 BRAHMS



313016 BOLT





DAM of 318009 SUPERMAN

**318009 TIRONUI  
SUPERMAN ET**

Jersey J16

NZGTIROMAN | A2A2

**\$280/60%**  
gBW REL
**PEDIGREE: SUPERSTITION x INTEGRITY**

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	3	3631	238	6.56	166	4.56
MGD	9	3759	225	5.98	172	4.57

**NEW ZEALAND DETAILS**

Genomic

**NZ Breeding Values** 0 Daughters

Milk Volume (litres)	<b>-482</b>	Fertility %	<b>2.2</b>
Fat kg	<b>39</b>	Body Condition Score	<b>0.07</b>
Fat %	<b>6.3</b>	Total Longevity (days)	<b>388</b>
Protein kg	<b>10</b>	Calving Difficulty	<b>-1.8</b>
Protein %	<b>4.4</b>	Gestation Length (days)	<b>-1.4</b>
SCC	<b>0.02</b>	Liveweight	<b>-28</b>

**NZ Evaluation Data** Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.25</b>				
Shed Temperament	<b>0.25</b>				
Milking Speed	<b>0.22</b>				
Overall Opinion	<b>0.25</b>				

**Conformation (0 daughters TOP tested)**

Stature	<b>-0.38</b>				
Capacity	<b>0.31</b>				
Rump Angle	<b>-0.46</b>				
Rump Width	<b>0.40</b>				
Legs	<b>0.09</b>				
Udder Support	<b>0.44</b>				
Front Udder	<b>0.41</b>				
Rear Udder	<b>0.77</b>				
Front Teat Placement	<b>0.08</b>				
Rear Teat Placement	<b>0.15</b>				
Udder Overall	<b>0.60</b>				
Dairy Conformation	<b>0.41</b>				

Registrable

Data Source LIC :11/02/2019

**Comments from LIC Livestock Selection Manager:**

Up, up and away! Superman certainly looks a real standout with an excellent balance of traits. He hails from the Tironui stud, which needs no introduction, and the "Meg" cow-family that has delivered sons such as Meganev. Superman's dam is a top performer in one of New Zealand's highest indexing herds. She also has excellent type.



Daughter of 311013 INTEGRITY

**311013 OKURA LT  
INTEGRITY**

Jersey J16

NZGINTEGRITY | A1A2

**\$245/99%**  
BW REL
**PEDIGREE: TERRIFIC x LIKABULL**

- Milk components
- Fertility & longevity
- Capacious daughters
- Excellent udders

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	5	4015	241	6.00	162	4.05
MGD	9	3870	236	6.11	162	4.18

**NEW ZEALAND DETAILS**

Daughter Proven

**NZ Breeding Values** 13016 Daughters

Milk Volume (litres)	<b>-474</b>	Fertility %	<b>0.6</b>
Fat kg	<b>27</b>	Body Condition Score	<b>0.25</b>
Fat %	<b>5.9</b>	Total Longevity (days)	<b>355</b>
Protein kg	<b>2</b>	Calving Difficulty	<b>-2.1</b>
Protein %	<b>4.3</b>	Gestation Length (days)	<b>-0.5</b>
SCC	<b>-0.11</b>	Liveweight	<b>-52</b>

**NZ Evaluation Data** Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.13</b>				
Shed Temperament	<b>0.27</b>				
Milking Speed	<b>-0.33</b>				
Overall Opinion	<b>0.31</b>				

**Conformation (714 daughters TOP tested)**

Stature	<b>-1.09</b>				
Capacity	<b>0.83</b>				
Rump Angle	<b>0.0</b>				
Rump Width	<b>-0.13</b>				
Legs	<b>0.09</b>				
Udder Support	<b>0.40</b>				
Front Udder	<b>0.21</b>				
Rear Udder	<b>0.85</b>				
Front Teat Placement	<b>-0.13</b>				
Rear Teat Placement	<b>0.27</b>				
Udder Overall	<b>0.54</b>				
Dairy Conformation	<b>0.70</b>				

Unregistrable

AE 11/02/2019

**Australian Indices**

Source: ADHIS Dec 2018

BPI/REL %	<b>262/70</b>	Protein kg	<b>18</b>
HWI	<b>174</b>	Protein %	<b>0.47</b>
ASI	<b>218</b>	Survival	<b>105</b>
TWI	<b>250</b>	Daughter Fertility	<b>100</b>
Milk	<b>-105</b>	Overall Type	<b>102</b>
Fat kg	<b>46</b>	Mammary System	<b>98</b>
Fat %	<b>0.98</b>		

RETAIL  
\$24.00

Limited Supply

Daughter of 314052 MISTY

## 314052 CRESCENT EXCELL MISTY ET



Daughter of 314052 MISTY



## Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	316/61	Protein kg	8
HWI	209	Protein %	0.93
ASI	213	Survival	106
TWI	312	Daughter Fertility	102
Milk	-1051	Overall Type	100
Fat kg	31	Mammary System	98
Fat %	1.66		

Jersey J16

NZGCRESMISTY | A2A2

\$290/86%  
BW REL

## PEDIGREE: EXCELL x GREENMAN

- Extreme BW & BPI
- Fertility & longevity
- Larger Jersey
- Capacity

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	9	3887	233	6.00	167	4.31
MGD	8	3938	253	6.43	173	4.41

## NEW ZEALAND DETAILS

Daughter Proven

## NZ Breeding Values

98 Daughters

Milk Volume (litres)	-879	Fertility %	5.2
Fat kg	27	Body Condition Score	0.45
Fat %	6.6	Total Longevity ( days )	450
Protein kg	0	Calving Difficulty	-2.4
Protein %	4.7	Gestation Length (days )	-1.7
SCC	-0.50	Liveweight	-19

## NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Adapts to Milking	-0.02			
Shed Temperament	-0.04			
Milking Speed	0.02			
Overall Opinion	0.01			

## Conformation (89 daughters TOP tested)

Stature	-0.63			
Capacity	0.91			
Rump Angle	0.20			
Rump Width	-0.08			
Legs	0.06			
Udder Support	0.42			
Front Udder	0.76			
Rear Udder	0.38			
Front Teat Placement	-0.01			
Rear Teat Placement	-0.32			
Udder Overall	0.55			
Dairy Conformation	0.54			

Registrable

AE 11/02/2019





RETAIL  
\$24.00  
VOLUME  
\$20.00

## 315009 RIVERVIEW AND DEXTER S2J

Jersey J16

NZGRIVERDEX | A2A2

\$232/82%  
BW REL

### PEDIGREE: DEGREE x MURMUR

- Excellent fertility
- Great udders
- Outstanding longevity
- Capacious daughters

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	5	4858	256	5.28	194	3.99
MGD	6	6758	341	5.05	252	3.72

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

98 Daughters

Milk Volume (litres)	-237	Fertility %	4.0
Fat kg	22	Body Condition Score	0.24
Fat %	5.5	Total Longevity (days)	433
Protein kg	10	Calving Difficulty	-2.3
Protein %	4.2	Gestation Length (days)	-1.4
SCC	-0.11	Liveweight	-26

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.21				
Shed Temperament	0.16				
Milking Speed	0.33				
Overall Opinion	0.34				
Conformation (93 daughters TOP tested)					
Stature	-0.52				
Capacity	0.58				
Rump Angle	-0.10				
Rump Width	0.33				
Legs	0.01				
Udder Support	0.42				
Front Udder	0.58				
Rear Udder	0.39				
Front Teat Placement	0.70				
Rear Teat Placement	0.72				
Udder Overall	0.66				
Dairy Conformation	0.58				

Unregistrable

AE 11/02/2019



Daughter of 315009 DEXTER



Daughter of 315009 DEXTER

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	251/48	Protein kg	19
HWI	164	Protein %	0.44
ASI	194	Survival	106
TWI	244	Daughter Fertility	102
Milk	-32	Overall Type	102
Fat kg	32	Mammary System	102
Fat %	0.63		



RETAIL  
\$24.00  
VOLUME  
\$20.00



Daughter of 314012 LEOPARD

## 314012 KAITAKA OI LEOPARD ET



Daughter of 314012 LEOPARD



Jersey J16

NZGKAITALEO | A2A2

\$252/91%  
BW REL

### PEDIGREE: INTEGRITY x MAUNGA

- Excellent udders
- Outstanding fat production
- Top 5 Jersey sire on BPI
- Low somatic cell count

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	3774	223	5.92	160	4.23
MGD	12	3990	206	5.17	164	4.12

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

198 Daughters

Milk Volume (litres)	-676	Fertility %	1.6
Fat kg	23	Body Condition Score	-0.08
Fat %	6.2	Total Longevity ( days )	393
Protein kg	0	Calving Difficulty	-2.0
Protein %	4.5	Gestation Length (days )	-4.4
SCC	-0.39	Liveweight	-58

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.43				
Shed Temperament	0.48				
Milking Speed	0.12				
Overall Opinion	0.39				

### Conformation (93 daughters TOP tested)

Stature	-0.85				
Capacity	-0.06				
Rump Angle	-0.50				
Rump Width	0.05				
Legs	-0.20				
Udder Support	0.66				
Front Udder	0.63				
Rear Udder	0.75				
Front Teat Placement	0.46				
Rear Teat Placement	0.66				
Udder Overall	0.84				
Dairy Conformation	0.23				

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	316/65	Protein kg	16
HWI	239	Protein %	0.64
ASI	214	Survival	104
TWI	296	Daughter Fertility	103
Milk	-411	Overall Type	99
Fat kg	36	Mammary System	101
Fat %	1.10		

Registrable

AE 11/02/2019



RETAIL  
**\$24.00**  
VOLUME  
**\$20.00**

## 314004 BELLS OF FLOYD S3J

Jersey J15F1

NZGBELFLOYD \* | A2A2

BW **\$230/95%** REL

### PEDIGREE: INTEGRITY x ASCENT

- High production
- Capacity
- Larger Jersey
- Good udders

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	5377	304	5.65	222	4.14
MGD	7	5378	295	5.49	215	4.00

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

596 Daughters

Milk Volume (litres)	<b>-63</b>	Fertility %	<b>1.4</b>
Fat kg	<b>29</b>	Body Condition Score	<b>0.32</b>
Fat %	<b>5.4</b>	Total Longevity (days)	<b>541</b>
Protein kg	<b>11</b>	Calving Difficulty	<b>-2.1</b>
Protein %	<b>4.1</b>	Gestation Length (days)	<b>-2.3</b>
SCC	<b>-0.33</b>	Liveweight	<b>-6</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.13</b>				
Shed Temperament	<b>0.27</b>				
Milking Speed	<b>-0.01</b>				
Overall Opinion	<b>0.42</b>				

#### Conformation (132 daughters TOP tested)

Stature	<b>-0.22</b>				
Capacity	<b>0.76</b>				
Rump Angle	<b>0.10</b>				
Rump Width	<b>0.32</b>				
Legs	<b>-0.03</b>				
Udder Support	<b>0.45</b>				
Front Udder	<b>0.34</b>				
Rear Udder	<b>0.73</b>				
Front Teat Placement	<b>-0.11</b>				
Rear Teat Placement	<b>0.01</b>				
Udder Overall	<b>0.59</b>				
Dairy Conformation	<b>0.60</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>271/64</b>	Protein kg	<b>22</b>
HWI	<b>167</b>	Protein %	<b>0.33</b>
ASI	<b>205</b>	Survival	<b>107</b>
TWI	<b>257</b>	Daughter Fertility	<b>99</b>
Milk	<b>207</b>	Overall Type	<b>100</b>
Fat kg	<b>39</b>	Mammary System	<b>97</b>
Fat %	<b>0.53</b>		

\* Crossbred Sire



RETAIL  
**\$20.00**  
VOLUME  
**\$16.00**

## 311059 LYNBROOK GG QUICKSILVER

Jersey J16

NZGLYNSILVER | A2A2

BW **\$223/97%** REL

### PEDIGREE: GENIUS x NEVVY

- Milk components
- Excellent udders
- Fertility & longevity
- A2A2

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	7	3758	244	6.49	179	4.76
MGD	8	3248	211	6.50	143	4.42

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

897 Daughters

Milk Volume (litres)	<b>-1027</b>	Fertility %	<b>3.6</b>
Fat kg	<b>18</b>	Body Condition Score	<b>0.17</b>
Fat %	<b>6.6</b>	Total Longevity (days)	<b>361</b>
Protein kg	<b>-7</b>	Calving Difficulty	<b>-1.9</b>
Protein %	<b>4.7</b>	Gestation Length (days)	<b>-2.3</b>
SCC	<b>-0.07</b>	Liveweight	<b>-34</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.11</b>				
Shed Temperament	<b>0.13</b>				
Milking Speed	<b>0.29</b>				
Overall Opinion	<b>0.27</b>				

#### Conformation (94 daughters TOP tested)

Stature	<b>-0.79</b>				
Capacity	<b>0.44</b>				
Rump Angle	<b>-0.20</b>				
Rump Width	<b>-0.06</b>				
Legs	<b>0.07</b>				
Udder Support	<b>0.47</b>				
Front Udder	<b>0.57</b>				
Rear Udder	<b>0.65</b>				
Front Teat Placement	<b>0.10</b>				
Rear Teat Placement	<b>-0.10</b>				
Udder Overall	<b>0.65</b>				
Dairy Conformation	<b>0.32</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>224/66</b>	Protein kg	<b>5</b>
HWI	<b>147</b>	Protein %	<b>0.43</b>
ASI	<b>169</b>	Survival	<b>103</b>
TWI	<b>211</b>	Daughter Fertility	<b>101</b>
Milk	<b>-856</b>	Overall Type	<b>98</b>
Fat kg	<b>28</b>	Mammary System	<b>98</b>
Fat %	<b>1.40</b>		





RETAIL  
\$24.00  
VOLUME  
\$20.00

Daughter of 312057 CONRAD

## 312057 BELLS CM CONRAD S2J

Jersey J15F1

NZGBELCONRAD \* | A2A2

BW **\$187/88%** REL

### PEDIGREE: MINT-EDITION x HUGO

- Good production
- Great fertility & longevity
- Capacious daughters
- Sound udders

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	9	5791	323	5.58	223	3.86
MGD	7	6052	262	4.32	210	3.47

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

97 Daughters

Milk Volume (litres)	<b>-201</b>	Fertility %	<b>2.9</b>
Fat kg	<b>20</b>	Body Condition Score	<b>0.21</b>
Fat %	<b>5.4</b>	Total Longevity (days)	<b>395</b>
Protein kg	<b>7</b>	Calving Difficulty	<b>-1.8</b>
Protein %	<b>4.1</b>	Gestation Length (days)	<b>-7.3</b>
SCC	<b>-0.03</b>	Liveweight	<b>-19</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>-0.01</b>				
Shed Temperament	<b>0.09</b>				
Milking Speed	<b>-0.11</b>				
Overall Opinion	<b>-0.08</b>				

#### Conformation (87 daughters TOP tested)

Stature	<b>-0.49</b>				
Capacity	<b>0.38</b>				
Rump Angle	<b>-0.20</b>				
Rump Width	<b>-0.24</b>				
Legs	<b>0.06</b>				
Udder Support	<b>0.17</b>				
Front Udder	<b>0.39</b>				
Rear Udder	<b>0.56</b>				
Front Teat Placement	<b>-0.02</b>				
Rear Teat Placement	<b>-0.10</b>				
Udder Overall	<b>0.39</b>				
Dairy Conformation	<b>0.29</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>223/61</b>	Protein kg	<b>20</b>
HWI	<b>131</b>	Protein %	<b>0.39</b>
ASI	<b>193</b>	Survival	<b>103</b>
TWI	<b>191</b>	Daughter Fertility	<b>102</b>
Milk	<b>60</b>	Overall Type	<b>97</b>
Fat kg	<b>33</b>	Mammary System	<b>96</b>
Fat %	<b>0.56</b>		

\* Crossbred Sire



RETAIL  
\$20.00  
VOLUME  
\$16.00

Daughter of 311029 DYNAMO

## 311029 WILLAND LT DYNAMO

Jersey J16

NZGWILLANDMO | A2A2

BW **\$195/99%** REL

### PEDIGREE: TERRIFIC x DYNAMO

- Fertility & longevity
- Excellent udders
- Capacity
- Retains body condition

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	3485	181	5.20	154	4.41
MGD	7	3946	226	5.74	161	4.07

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

3567 Daughters

Milk Volume (litres)	<b>-661</b>	Fertility %	<b>1.7</b>
Fat kg	<b>6</b>	Body Condition Score	<b>0.09</b>
Fat %	<b>5.7</b>	Total Longevity (days)	<b>403</b>
Protein kg	<b>-2</b>	Calving Difficulty	<b>-2.0</b>
Protein %	<b>4.4</b>	Gestation Length (days)	<b>0.6</b>
SCC	<b>-0.10</b>	Liveweight	<b>-59</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.41</b>				
Shed Temperament	<b>0.46</b>				
Milking Speed	<b>0.20</b>				
Overall Opinion	<b>0.34</b>				

#### Conformation (163 daughters TOP tested)

Stature	<b>-0.92</b>				
Capacity	<b>0.27</b>				
Rump Angle	<b>0.30</b>				
Rump Width	<b>-0.02</b>				
Legs	<b>0.18</b>				
Udder Support	<b>0.66</b>				
Front Udder	<b>0.75</b>				
Rear Udder	<b>0.93</b>				
Front Teat Placement	<b>0.12</b>				
Rear Teat Placement	<b>-0.23</b>				
Udder Overall	<b>0.92</b>				
Dairy Conformation	<b>0.30</b>				

Unregistrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>253/67</b>	Protein kg	<b>13</b>
HWI	<b>197</b>	Protein %	<b>0.45</b>
ASI	<b>150</b>	Survival	<b>106</b>
TWI	<b>281</b>	Daughter Fertility	<b>99</b>
Milk	<b>-229</b>	Overall Type	<b>104</b>
Fat kg	<b>21</b>	Mammary System	<b>104</b>
Fat %	<b>0.63</b>		





Daughter of 312014 FRANKIE

## 312014 CHARDONNAY FRANKIE

Jersey J16

NZGCHARFRANK | A2A2

BW **\$214/96%** REL

### PEDIGREE: MURMUR x GREENMAN

- Milk components
- Fertility & longevity
- Low somatic cell count
- Well liked by farmers

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	7	3847	240	6.25	173	4.51
MGD	4	4172	237	5.69	181	4.33

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values 828 Daughters

Milk Volume (litres)	<b>-641</b>	Fertility %	<b>3.2</b>
Fat kg	<b>2</b>	Body Condition Score	<b>0.16</b>
Fat %	<b>5.6</b>	Total Longevity (days)	<b>347</b>
Protein kg	<b>-3</b>	Calving Difficulty	<b>-2.3</b>
Protein %	<b>4.3</b>	Gestation Length (days)	<b>0.3</b>
SCC	<b>-0.42</b>	Liveweight	<b>-79</b>

### NZ Evaluation Data Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.46</b>				
Shed Temperament	<b>0.43</b>				
Milking Speed	<b>0.27</b>				
Overall Opinion	<b>0.40</b>				

### Conformation (118 daughters TOP tested)

Stature	<b>-1.41</b>				
Capacity	<b>0.38</b>				
Rump Angle	<b>0.10</b>				
Rump Width	<b>-0.34</b>				
Legs	<b>0.23</b>				
Udder Support	<b>-0.10</b>				
Front Udder	<b>0.48</b>				
Rear Udder	<b>0.01</b>				
Front Teat Placement	<b>0.01</b>				
Rear Teat Placement	<b>-0.37</b>				
Udder Overall	<b>0.21</b>				
Dairy Conformation	<b>0.14</b>				

Registrable

AE 11/02/2019

### Australian Indices Source: ADHIS Dec 2018

BPI/REL %	<b>234/67</b>	Protein kg	<b>4</b>
HWI	<b>194</b>	Protein %	<b>0.63</b>
ASI	<b>121</b>	Survival	<b>103</b>
TWI	<b>193</b>	Daughter Fertility	<b>105</b>
Milk	<b>-730</b>	Overall Type	<b>94</b>
Fat kg	<b>11</b>	Mammary System	<b>93</b>
Fat %	<b>0.95</b>		



RETAIL  
**\$20.00**  
VOLUME  
**\$16.00**

## 312034 OKURA PUHIPUHI CAPS GOLDIE S3J INDEX

Jersey J16

NZGOKURAINDX | A2A2

BW **\$225/96%** REL

### PEDIGREE: GOLDIE x LIKABULL

- Milk components
- Low somatic cell count
- Retains body condition
- A2A2

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	5	4015	241	6.00	162	1.05
MGD	9	3870	236	6.11	162	4.18

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values 762 Daughters

Milk Volume (litres)	<b>-18</b>	Fertility %	<b>-1.5</b>
Fat kg	<b>32</b>	Body Condition Score	<b>0.02</b>
Fat %	<b>5.5</b>	Total Longevity (days)	<b>169</b>
Protein kg	<b>10</b>	Calving Difficulty	<b>-2.1</b>
Protein %	<b>4.0</b>	Gestation Length (days)	<b>-1.7</b>
SCC	<b>-0.22</b>	Liveweight	<b>-63</b>

### NZ Evaluation Data Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.16</b>				
Shed Temperament	<b>0.19</b>				
Milking Speed	<b>0.11</b>				
Overall Opinion	<b>0.30</b>				

### Conformation (129 daughters TOP tested)

Stature	<b>-1.03</b>				
Capacity	<b>0.10</b>				
Rump Angle	<b>0.60</b>				
Rump Width	<b>-0.18</b>				
Legs	<b>0.24</b>				
Udder Support	<b>-0.19</b>				
Front Udder	<b>-0.24</b>				
Rear Udder	<b>0.40</b>				
Front Teat Placement	<b>-0.11</b>				
Rear Teat Placement	<b>-0.02</b>				
Udder Overall	<b>-0.03</b>				
Dairy Conformation	<b>0.16</b>				

Unregistrable

AE 11/02/2019

### Australian Indices Source: ADHIS Dec 2018

BPI/REL %	<b>242/66</b>	Protein kg	<b>23</b>
HWI	<b>174</b>	Protein %	<b>0.23</b>
ASI	<b>198</b>	Survival	<b>104</b>
TWI	<b>190</b>	Daughter Fertility	<b>100</b>
Milk	<b>358</b>	Overall Type	<b>97</b>
Fat kg	<b>42</b>	Mammary System	<b>93</b>
Fat %	<b>0.43</b>		

## NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

6154 Daughters

Milk Volume (litres)	-481	Fertility %	-3.3
Fat kg	19	Body Condition Score	0.10
Fat %	5.8	Total Longevity (days)	14
Protein kg	1	Calving Difficulty	-2.3
Protein %	4.3	Gestation Length (days)	-6.3
SCC	-0.01	Liveweight	-24

### NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Overall Opinion	0.39			
Conformation (184 daughters TOP tested)				
Udder Overall	0.55			
Dairy Conformation	0.61			

PEDIGREE: CHARISMA x MANHATTEN

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	165/67	ASI	204
HWI	72	TWI	169
Daughter Fertility	97	Overall Type	101



RETAIL  
\$13.00

Daughter of 309090 RONALDO

**309090 KERSTENS KRC  
RONALDO**

Jersey J16

NZGKERONALDO | A2A2

**\$126/99%**

BW

REL

## NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

3534 Daughters

Milk Volume (litres)	-587	Fertility %	-4.0
Fat kg	31	Body Condition Score	0.12
Fat %	6.2	Total Longevity (days)	6
Protein kg	9	Calving Difficulty	-1.1
Protein %	4.6	Gestation Length (days)	-3.6
SCC	0.24	Liveweight	-25

### NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Overall Opinion	0.39			
Conformation (177 daughters TOP tested)				
Udder Overall	0.43			
Dairy Conformation	0.76			

PEDIGREE: TOPAZ x MANHATTEN

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	228/67	ASI	291
HWI	98	TWI	217
Daughter Fertility	97	Overall Type	102



RETAIL  
\$13.00  
SEXED  
\$45.00

**312004 GLANTON LT  
BRAHMS**

Jersey J16

NZGBRAHMS | A2A2

**\$187/99%**

BW

REL

## NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

4732 Daughters

Milk Volume (litres)	-570	Fertility %	3.0
Fat kg	13	Body Condition Score	-0.08
Fat %	5.7	Total Longevity (days)	333
Protein kg	-7	Calving Difficulty	-1.5
Protein %	4.2	Gestation Length (days)	0.2
SCC	-0.54	Liveweight	-74

### NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Overall Opinion	0.02			
Conformation (242 daughters TOP tested)				
Udder Overall	0.37			
Dairy Conformation	0.07			

PEDIGREE: MURMUR x MANHATTEN

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	222/70	ASI	137
HWI	178	TWI	190
Daughter Fertility	104	Overall Type	96



RETAIL  
\$13.00

DAM of 313016 BOLT

**313016 BONACORD MURMUR  
BOLT**

Jersey J16

NZGBONABOLT | A2A2

**\$208/99%**

BW

REL

# TOP 5 PERFORMERS

## Breeding Worth

NASIS	Name	BW \$ / Rel %	Page
NZGCRESMISTY	MISTY	290 / 86	31
NZGKAITALEO	LEOPARD	252 / 91	33
NZGINTEGRITY	INTEGRITY	245 / 99	30
NZGRIVERDEX	DEXTER	232 / 82	32
NZGBELFLOYD *	FLOYD	230 / 95	34

## BPI

Source: ADHIS Dec 2018

NASIS	Name	BPI	Page
NZGCRESMISTY	MISTY	316	31
NZGKAITALEO	LEOPARD	316	33
NZGBELFLOYD *	FLOYD	271	34
NZGINTEGRITY	INTEGRITY	262	30
NZGWILLANDMO	DYNAMO	253	35

## Protein

NASIS	Name	Protein kg / %	Page
NZGBELFLOYD *	FLOYD	11 / 4.1	34
NZGRIVERDEX	DEXTER	10 / 4.2	32
NZGOKURAINDX	INDEX	10 / 4.0	36
NZGBRAHMS	BRAHMS	9 / 4.6	37
NZGBELCONRAD *	CONRAD	7 / 4.1	35

## Fat

NASIS	Name	Fat kg / %	Page
NZGOKURAINDX	INDEX	32 / 5.5	36
NZGBRAHMS	BRAHMS	31 / 6.2	37
NZGBELFLOYD *	FLOYD	29 / 4.5	34
NZGCRESMISTY	MISTY	27 / 6.6	31
NZGINTEGRITY	INTEGRITY	27 / 5.9	30

## Fertility

NASIS	Name	Fertility %	Page
NZGCRESMISTY	MISTY	5.2	31
NZGRIVERDEX	DEXTER	4.0	32
NZGCHARFRANK	FRANKIE	3.2	36
NZGBONABOLT	BOLT	3.0	37
NZGBELCONRAD *	CONRAD	2.9	35

## Milk Volume

NASIS	Name	Litres	Page
NZGOKURAINDX	INDEX	-18	36
NZGBELFLOYD *	FLOYD	-63	34
NZGBELCONRAD *	CONRAD	-201	35
NZGRIVERDEX	DEXTER	-237	32
NZGINTEGRITY	INTEGRITY	-474	30

## Somatic Cell Count

NASIS	Name	SCC	Page
NZGBONABOLT	BOLT	-0.54	37
NZGCRESMISTY	MISTY	-0.50	31
NZGCHARFRANK	FRANKIE	-0.42	36
NZGKAITALEO	LEOPARD	-0.39	33
NZGBELFLOYD *	FLOYD	-0.33	34

## Capacity

NASIS	Name	Capacity	Page
NZGCRESMISTY	MISTY	0.91	31
NZGINTEGRITY	INTEGRITY	0.83	30
NZGBELFLOYD *	FLOYD	0.76	34
NZGKERONALDO	RONALDO	0.74	37
NZGBRAHMS	BRAHMS	0.66	37

## Udder Overall

NASIS	Name	Udder Overall	Page
NZGWILLANDMO	DYNAMO	0.92	36
NZGKAITALEO	LEOPARD	0.84	33
NZGRIVERDEX	DEXTER	0.66	32
NZGBELFLOYD *	FLOYD	0.59	34
NZGCRESMISTY	MISTY	0.55	31

## Liveweight

NASIS	Name	Liveweight	Page
NZGBELFLOYD *	FLOYD	-6.0	34
NZGBELCONRAD *	CONRAD	-18.5	35
NZGCRESMISTY	MISTY	-19.0	31
NZGKERONALDO	RONALDO	-24.4	37
NZGBRAHMS	BRAHMS	-24.8	37

\* Crossbred Sire



## NEW ZEALAND HERD AVERAGES

Holstein-Friesian	Jersey	HF X J Cross	Ayrshire
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## Production BVs

Breeding Worth (\$)	32	109	75	-56
Protein (kg)	17	-8	8	-3
Milkfat (kg)	12	2	9	-9
Milk Volume (litres)	524	-569	62	46
Liveweight (kg)	31	-50	-4	4
Fertility (%)	-0.1	0.8	0.4	-3.8
Somatic Cell (score)	0.02	-0.08	-0.03	-0.21
Total Longevity (days)	125	82	129	-63
Body Condition (score)	0.01	0.05	0.04	-0.08

## Traits Other Than Production

Adaptability to Milking	.09	.11	.10	.23
Shed Temperament	.07	.14	.10	.23
Milking Speed	.03	.09	.05	.03
Overall Opinion	.15	.08	.11	.20
Stature	.58	-.89	-.06	-.14
Capacity	.14	.11	.15	.27
Rump Angle	-.03	-.09	-.05	.32
Rump Width	.26	-.24	.04	-.15
Legs	-.02	.08	.04	.02
Udder Support	.19	.04	.09	.05
Front Udder	.09	.18	.06	.09
Rear Udder	.11	.19	.11	-.12
Front Teat Placement	.04	.04	.01	.10
Rear Teat Placement	.18	-.14	.08	.08
Udder Overall	.15	.16	.09	.03
Dairy Conformation	.18	.07	.13	.08

### Sire Breed Average

Calving Difficulty (%)	2.0	-2.2	-0.5	-0.3
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These statistics are calculated by New Zealand Animal Evaluation Ltd.

Production and TOP information includes all current cows in the national herd (ie. Animals signed up for herd testing with 80 or more numbered cows current in the herd aged over 490 days), whereas the calving difficulty BV, which is a sire trait, is based on all enrolled bulls , with a BW reliability of at least 60%, at least 20 herd tested daughters and at least one two-year old daughter milking in the last 5 years.

Q.

How do you  
continuously  
improve your herd's  
performance?



A.

LIC Genetics

Kiwicross™



518076 BLACKHAWK



511011 SIERRA -  
Sire of 518017 BARNSTORMER



514017 BECKON



515058 IZABULL



513098 BOUNTY



514014 BREAKTHROUGH



515019 KNIGHT



514056 TAKE NOTE



513074 TUSK



511051 SOVEREIGN



512050 PERSPECTIVE



514088 SONNY BULL



514018 EPIC



512054 SOLACE



514084 MILAN



512005 COOPER





DAM of 518076 BLACKHAWK

## 518076 GREENWELL BLACKHAWK

Kiwicross™ F11J5

NZGBBLACKHAWK | A2A2

gBW **\$316/48%** REL

PEDIGREE: MANDATE x TERRIFIC

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	2	3183	160	5.02	134	4.22
MGD	4	4440	216	4.86	177	3.98

## NEW ZEALAND DETAILS

Genomic

## NZ Breeding Values 0 Daughters

Milk Volume (litres)	<b>378</b>	Fertility %	<b>6.8</b>
Fat kg	<b>41</b>	Body Condition Score	<b>0.15</b>
Fat %	<b>5.2</b>	Total Longevity (days)	<b>854</b>
Protein kg	<b>31</b>	Calving Difficulty	<b>-1.0</b>
Protein %	<b>4.1</b>	Gestation Length (days)	<b>-4.2</b>
SCC	<b>-0.28</b>	Liveweight	<b>15</b>

## NZ Evaluation Data Traits other than production

Management	BV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.44</b>			
Shed Temperament	<b>0.46</b>			
Milking Speed	<b>0.09</b>			
Overall Opinion	<b>0.49</b>			
Conformation (0 daughters TOP tested)				
Stature	<b>0.28</b>			
Capacity	<b>0.48</b>			
Rump Angle	<b>0.24</b>			
Rump Width	<b>0.32</b>			
Legs	<b>0.19</b>			
Udder Support	<b>0.60</b>			
Front Udder	<b>0.51</b>			
Rear Udder	<b>0.43</b>			
Front Teat Placement	<b>0.47</b>			
Rear Teat Placement	<b>0.65</b>			
Udder Overall	<b>0.66</b>			
Dairy Conformation	<b>0.55</b>			

Data Source LIC :11/02/2019

## Comments from LIC Livestock Selection Manager:

One of the very highest Kiwicross™ sires available, Blackhawk is very tempting. With a breed mix of F11J5, being A2A2, and having excellent conformation and production, Blackhawk ticks all the boxes. From a consistent bull breeding cow family at Greenwell stud and with big name bulls in his pedigree, including Terrific, Checkpoint and Frostman, it's no surprise Blackhawk is quickly rising to the top of the ranks!



511011 SIERRA - Sire of 518017 BARNSTORMER

## 518017 HORIZON BARNSTORMER-ET

Kiwicross™ J8F8

NZGBARNSTORM | A2A2

gBW **\$264/59%** REL

PEDIGREE: SIERRA x SUPERSTITION

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	4337	237	5.47	189	4.35
MGD	5	8286	362	4.37	314	3.79

## NEW ZEALAND DETAILS

Genomic

## NZ Breeding Values 0 Daughters

Milk Volume (litres)	<b>193</b>	Fertility %	<b>4.5</b>
Fat kg	<b>38</b>	Body Condition Score	<b>0.15</b>
Fat %	<b>5.4</b>	Total Longevity (days)	<b>667</b>
Protein kg	<b>23</b>	Calving Difficulty	<b>0.30</b>
Protein %	<b>4.1</b>	Gestation Length (days)	<b>-5.7</b>
SCC	<b>-0.30</b>	Liveweight	<b>18</b>

## NZ Evaluation Data Traits other than production

Management	BV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.50</b>			
Shed Temperament	<b>0.52</b>			
Milking Speed	<b>0.18</b>			
Overall Opinion	<b>0.55</b>			
Conformation (0 daughters TOP tested)				
Stature	<b>0.16</b>			
Capacity	<b>0.53</b>			
Rump Angle	<b>-0.20</b>			
Rump Width	<b>0.21</b>			
Legs	<b>0.04</b>			
Udder Support	<b>0.29</b>			
Front Udder	<b>0.22</b>			
Rear Udder	<b>0.36</b>			
Front Teat Placement	<b>0.08</b>			
Rear Teat Placement	<b>0.45</b>			
Udder Overall	<b>0.27</b>			
Dairy Conformation	<b>0.42</b>			

Data Source LIC :11/02/2019

## Comments from LIC Livestock Selection Manager:

Barnstormer will be a great option for farmers looking for a next-generation son to follow Sierra. Barnstormer's cow family descends from the famous cow "Beauty", of the Arkan Stud. This family has delivered bulls such as Bounty and Beaut. The outstanding traits from Barnstormer's sire, Sierra, and his famous cow family is surely a recipe for greatness.



RETAIL  
**\$24.00**  
VOLUME  
**\$20.00**

## 514017 GLEN KORU BECKON



Daughter of 514017 BECKON



Daughter of 514017 BECKON

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>279/59</b>	Protein kg	<b>42</b>
HWI	<b>145</b>	Protein %	<b>0.06</b>
ASI	<b>280</b>	Survival	<b>102</b>
TWI	<b>246</b>	Daughter Fertility	<b>98</b>
Milk	<b>1151</b>	Calving Ease	<b>0</b>
Fat kg	<b>59</b>	Overall Type	<b>97</b>
Fat %	<b>-0.05</b>	Mammary System	<b>96</b>

Kiwicross™ J11F5

NZGLENBECK | A2A2

**\$236/87%**  
BW REL

### PEDIGREE: MANZELLO x NORTHSEA

- Great production
- Short gestation length
- Capacious daughters
- Well liked by farmers

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	8	6037	280	4.64	222	3.68
MGD	3	5598	218	3.90	206	3.67

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

114 Daughters

Milk Volume (litres)	<b>502</b>	Fertility %	<b>-1.0</b>
Fat kg	<b>51</b>	Body Condition Score	<b>-0.08</b>
Fat %	<b>5.3</b>	Total Longevity ( days )	<b>273</b>
Protein kg	<b>29</b>	Calving Difficulty	<b>-3.3</b>
Protein %	<b>4.0</b>	Gestation Length (days )	<b>-6.1</b>
SCC	<b>-0.21</b>	Liveweight	<b>-2</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.49</b>				
Shed Temperament	<b>0.53</b>				
Milking Speed	<b>0.31</b>				
Overall Opinion	<b>0.62</b>				

### Conformation (104 daughters TOP tested)

Stature	<b>0.00</b>				
Capacity	<b>0.60</b>				
Rump Angle	<b>-0.80</b>				
Rump Width	<b>0.49</b>				
Legs	<b>0.01</b>				
Udder Support	<b>0.09</b>				
Front Udder	<b>0.44</b>				
Rear Udder	<b>0.00</b>				
Front Teat Placement	<b>-0.01</b>				
Rear Teat Placement	<b>-0.05</b>				
Udder Overall	<b>0.22</b>				
Dairy Conformation	<b>0.53</b>				

AE 11/02/2019




 RETAIL  
**\$24.00**

Daughter of 515058 IZABULL

## 515058 KAHURANGI IZABULL

Kiwicross™ F9J7

NZGKAHZABULL | A1A1

 BW **\$265/82%** REL

### PEDIGREE: RAMADA x MURMUR

- Short gestation length
- Low somatic cell count
- Good udders
- Outstanding longevity

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	4009	186	4.65	156	3.90
MGD	5	5064	242	4.78	192	3.79

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

101 Daughters

Milk Volume (litres)	<b>384</b>	Fertility %	<b>3.9</b>
Fat kg	<b>36</b>	Body Condition Score	<b>-0.17</b>
Fat %	<b>5.1</b>	Total Longevity (days)	<b>539</b>
Protein kg	<b>25</b>	Calving Difficulty	<b>-0.4</b>
Protein %	<b>4.0</b>	Gestation Length (days)	<b>-7.3</b>
SCC	<b>-0.31</b>	Liveweight	<b>-24</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.17				
Shed Temperament	0.25				
Milking Speed	0.36				
Overall Opinion	0.24				
Conformation (93 daughters TOP tested)					
Stature	-0.36				
Capacity	-0.13				
Rump Angle	-0.10				
Rump Width	0.09				
Legs	-0.02				
Udder Support	0.29				
Front Udder	0.42				
Rear Udder	0.77				
Front Teat Placement	-0.24				
Rear Teat Placement	-0.10				
Udder Overall	0.49				
Dairy Conformation	-0.16				



Daughter of 515058 IZABULL



### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>288/50</b>	Protein kg	<b>5</b>
HWI	<b>274</b>	Protein %	<b>0.39</b>
ASI	<b>134</b>	Survival	<b>105</b>
TWI	<b>230</b>	Daughter Fertility	<b>108</b>
Milk	<b>-587</b>	Calving Ease	<b>103</b>
Fat kg	<b>24</b>	Overall Type	<b>94</b>
Fat %	<b>0.71</b>	Mammary System	<b>97</b>

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\$24.00  
VOLUME  
\$20.00



DAM of 513098 BOUNTY

## 513098 ARKANS BOUNTY



Daughter of 513098 BOUNTY



Kiwicross™ J11F5  
NZGARKBOWNTY | A1A2

BW \$178/98% REL

### PEDIGREE: INTEGRITY x FIRENZE

- Outstanding udders
- Fertility & longevity
- Capacious daughters
- Low somatic cell count

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	7	7429	318	4.27	277	3.69
MGD	10	7021	346	4.95	263	3.74

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

3652 Daughters

Milk Volume (litres)	230	Fertility %	0.0
Fat kg	22	Body Condition Score	0.21
Fat %	5.0	Total Longevity ( days )	252
Protein kg	18	Calving Difficulty	-0.1
Protein %	4.0	Gestation Length (days )	0.4
SCC	-0.12	Liveweight	-22

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	0.18				
Shed Temperament	0.31				
Milking Speed	-0.07				
Overall Opinion	0.44				

### Conformation (78 daughters TOP tested)

Stature	-0.38				
Capacity	0.63				
Rump Angle	-0.10				
Rump Width	0.47				
Legs	-0.01				
Udder Support	0.81				
Front Udder	0.97				
Rear Udder	0.93				
Front Teat Placement	-0.18				
Rear Teat Placement	0.15				
Udder Overall	0.91				
Dairy Conformation	0.71				

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	220/56	Protein kg	32
HWI	153	Protein %	0.09
ASI	199	Survival	104
TWI	198	Daughter Fertility	101
Milk	820	Calving Ease	0
Fat kg	33	Overall Type	0
Fat %	-0.22	Mammary System	0





RETAIL  
**\$24.00**  
VOLUME  
**\$20.00**

DAM of 514014 BREAKTHROUGH

## 514014 GREENWELL BREAKTHROUGH ET

Kiwicross™ F13J3  
NZGBREAK | A2A2

BW **\$142/92%** REL

### PEDIGREE: CHECKPOINT x BANQUET

- Excellent udders & conformation
- Volume
- Longevity
- Easy calving

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	10	5414	229	4.25	205	3.81
MGD	12	4573	214	4.67	169	3.70

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

225 Daughters

Milk Volume (litres)	<b>385</b>	Fertility %	<b>3.2</b>
Fat kg	<b>19</b>	Body Condition Score	<b>0.05</b>
Fat %	<b>4.8</b>	Total Longevity (days)	<b>424</b>
Protein kg	<b>24</b>	Calving Difficulty	<b>-1.1</b>
Protein %	<b>4.0</b>	Gestation Length (days)	<b>-5.4</b>
SCC	<b>-0.12</b>	Liveweight	<b>29</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.61</b>				
Shed Temperament	<b>0.64</b>				
Milking Speed	<b>0.13</b>				
Overall Opinion	<b>0.52</b>				
Conformation (87 daughters TOP tested)					
Stature	<b>0.50</b>				
Capacity	<b>0.19</b>				
Rump Angle	<b>0.00</b>				
Rump Width	<b>-0.07</b>				
Legs	<b>0.00</b>				
Udder Support	<b>0.56</b>				
Front Udder	<b>0.15</b>				
Rear Udder	<b>0.41</b>				
Front Teat Placement	<b>0.49</b>				
Rear Teat Placement	<b>0.99</b>				
Udder Overall	<b>0.47</b>				
Dairy Conformation	<b>0.24</b>				



Daughter of 514014 BREAKTHROUGH



### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>242/64</b>	Protein kg	<b>5</b>
HWI	<b>175</b>	Protein %	<b>0.56</b>
ASI	<b>156</b>	Survival	<b>104</b>
TWI	<b>134</b>	Daughter Fertility	<b>117</b>
Milk	<b>-897</b>	Calving Ease	<b>102</b>
Fat kg	<b>17</b>	Overall Type	<b>91</b>
Fat %	<b>0.80</b>	Mammary System	<b>90</b>



RETAIL  
**\$24.00**  
VOLUME  
**\$20.00**

## 515019 LYNBROOK KNIGHT ET



DAM of 515019 KNIGHT



Daughter of 515019 KNIGHT

Kiwicross™ J8F7

NZGLYNKNIGHT | A2A2

**\$208/75%**  
BW REL

### PEDIGREE: DAREDEVIL x MURMUR

- Extreme capacity
- Excellent fertility
- Low somatic cell count
- Retains body condition

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	6701	342	5.10	261	3.90
MGD	5	6467	324	5.01	269	4.15

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

66 Daughters

Milk Volume (litres)	<b>245</b>	Fertility %	<b>4.2</b>
Fat kg	<b>25</b>	Body Condition Score	<b>0.15</b>
Fat %	<b>5.0</b>	Total Longevity ( days )	<b>194</b>
Protein kg	<b>19</b>	Calving Difficulty	<b>-1.6</b>
Protein %	<b>4.0</b>	Gestation Length (days )	<b>-0.5</b>
SCC	<b>-0.29</b>	Liveweight	<b>-29</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>-0.22</b>				
Shed Temperament	<b>-0.25</b>				
Milking Speed	<b>-0.26</b>				
Overall Opinion	<b>-0.19</b>				

### Conformation (57 daughters TOP tested)

Stature	<b>-0.82</b>				
Capacity	<b>1.18</b>				
Rump Angle	<b>-0.10</b>				
Rump Width	<b>0.01</b>				
Legs	<b>0.23</b>				
Udder Support	<b>0.02</b>				
Front Udder	<b>0.13</b>				
Rear Udder	<b>0.50</b>				
Front Teat Placement	<b>-0.30</b>				
Rear Teat Placement	<b>-0.23</b>				
Udder Overall	<b>0.16</b>				
Dairy Conformation	<b>0.87</b>				

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>203/40</b>	Protein kg	<b>29</b>
HWI	<b>116</b>	Protein %	<b>0.08</b>
ASI	<b>185</b>	Survival	<b>103</b>
TWI	<b>187</b>	Daughter Fertility	<b>103</b>
Milk	<b>753</b>	Calving Ease	<b>0</b>
Fat kg	<b>32</b>	Overall Type	<b>101</b>
Fat %	<b>-0.16</b>	Mammary System	<b>97</b>

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RETAIL  
**\$24.00**  
VOLUME  
**\$20.00**

## 514056 TIROHANGA TAKE NOTE

Kiwicross™ J12F4  
NZGTIRONOTE | A2A2

BW **\$172/84%** REL

### PEDIGREE: MANZELLO X RAMROD

- Easy calving
- Longevity
- Shorter gestation length
- Low somatic cell count

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	7	5573	294	5.27	220	3.95
MGD	6	4718	259	5.50	186	3.95

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values 87 Daughters

Milk Volume (litres)	<b>-40</b>	Fertility %	<b>0.5</b>
Fat kg	<b>22</b>	Body Condition Score	<b>0.11</b>
Fat %	<b>5.3</b>	Total Longevity (days)	<b>226</b>
Protein kg	<b>12</b>	Calving Difficulty	<b>-2.9</b>
Protein %	<b>4.1</b>	Gestation Length (days)	<b>-10.7</b>
SCC	<b>0.00</b>	Liveweight	<b>-27</b>

### NZ Evaluation Data Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.54</b>				
Shed Temperament	<b>0.54</b>				
Milking Speed	<b>0.32</b>				
Overall Opinion	<b>0.50</b>				

### Conformation (76 daughters TOP tested)

Stature	<b>-0.64</b>				
Capacity	<b>0.69</b>				
Rump Angle	<b>0.20</b>				
Rump Width	<b>-0.19</b>				
Legs	<b>-0.02</b>				
Udder Support	<b>0.34</b>				
Front Udder	<b>0.63</b>				
Rear Udder	<b>0.43</b>				
Front Teat Placement	<b>-0.16</b>				
Rear Teat Placement	<b>-0.03</b>				
Udder Overall	<b>0.46</b>				
Dairy Conformation	<b>0.57</b>				

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### Australian Indices Source: ADHIS Dec 2018

BPI/REL %	<b>224/55</b>	Protein kg	<b>23</b>
HWI	<b>144</b>	Protein %	<b>0.24</b>
ASI	<b>178</b>	Survival	<b>104</b>
TWI	<b>228</b>	Daughter Fertility	<b>100</b>
Milk	<b>336</b>	Calving Ease	<b>0</b>
Fat kg	<b>31</b>	Overall Type	<b>101</b>
Fat %	<b>0.24</b>	Mammary System	<b>99</b>



RETAIL  
**\$20.00**  
VOLUME  
**\$16.00**

## 513074 SCHRADERS TUSK

Kiwicross™ F9J7  
NZGTUSK | A1A2

BW **\$189/87%** REL

### PEDIGREE: WARLORD X ATHLETE

- Outstanding fertility
- Very short gestation
- Easier calving
- Excellent longevity

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	7	4614	199	5.30	200	4.34
MGD	8	4602	237	5.14	197	4.27

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values 101 Daughters

Milk Volume (litres)	<b>191</b>	Fertility %	<b>7.5</b>
Fat kg	<b>17</b>	Body Condition Score	<b>0.05</b>
Fat %	<b>4.9</b>	Total Longevity (days)	<b>431</b>
Protein kg	<b>12</b>	Calving Difficulty	<b>-2.0</b>
Protein %	<b>3.9</b>	Gestation Length (days)	<b>-10.5</b>
SCC	<b>-0.11</b>	Liveweight	<b>-25</b>

### NZ Evaluation Data Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.28</b>				
Shed Temperament	<b>0.30</b>				
Milking Speed	<b>0.32</b>				
Overall Opinion	<b>0.47</b>				

### Conformation (81 daughters TOP tested)

Stature	<b>-0.42</b>				
Capacity	<b>0.06</b>				
Rump Angle	<b>-0.63</b>				
Rump Width	<b>-0.38</b>				
Legs	<b>0.03</b>				
Udder Support	<b>0.36</b>				
Front Udder	<b>0.04</b>				
Rear Udder	<b>0.58</b>				
Front Teat Placement	<b>0.03</b>				
Rear Teat Placement	<b>0.03</b>				
Udder Overall	<b>0.39</b>				
Dairy Conformation	<b>0.14</b>				

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### Australian Indices Source: ADHIS Dec 2018

BPI/REL %	<b>208/56</b>	Protein kg	<b>-3</b>
HWI	<b>211</b>	Protein %	<b>0.33</b>
ASI	<b>74</b>	Survival	<b>104</b>
TWI	<b>135</b>	Daughter Fertility	<b>112</b>
Milk	<b>-755</b>	Calving Ease	<b>103</b>
Fat kg	<b>10</b>	Overall Type	<b>95</b>
Fat %	<b>0.60</b>	Mammary System	<b>96</b>





Limited Supply

 RETAIL  
**\$20.00**  
 VOLUME  
**\$16.00**

## 511051 DRYSDALES SOVEREIGN



Daughter of 511051 SOVEREIGN



Daughter of 511051 SOVEREIGN

Kiwicross™ F8J8

NZGDREIGN | A2A2

 BW **\$169/99%** REL

### PEDIGREE: SOLARIS X NORTHSEA

- Outstanding conformation
- Excellent udders
- Easy calving
- Low somatic cell count

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	7	5291	248	4.68	212	4.00
MGD	4	4513	197	4.55	168	3.78

### NEW ZEALAND DETAILS

Daughter Proven

### NZ Breeding Values

23356 Daughters

Milk Volume (litres)	<b>70</b>	Fertility %	<b>2.8</b>
Fat kg	<b>16</b>	Body Condition Score	<b>0.33</b>
Fat %	<b>5.0</b>	Total Longevity ( days )	<b>409</b>
Protein kg	<b>11</b>	Calving Difficulty	<b>-1.3</b>
Protein %	<b>4.0</b>	Gestation Length (days )	<b>-5.5</b>
SCC	<b>-0.42</b>	Liveweight	<b>-2</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.43</b>				
Shed Temperament	<b>0.43</b>				
Milking Speed	<b>0.20</b>				
Overall Opinion	<b>0.41</b>				

### Conformation (274 daughters TOP tested)

Stature	<b>-0.26</b>				
Capacity	<b>0.95</b>				
Rump Angle	<b>0.00</b>				
Rump Width	<b>0.05</b>				
Legs	<b>0.04</b>				
Udder Support	<b>0.87</b>				
Front Udder	<b>0.41</b>				
Rear Udder	<b>0.53</b>				
Front Teat Placement	<b>0.47</b>				
Rear Teat Placement	<b>0.82</b>				
Udder Overall	<b>0.71</b>				
Dairy Conformation	<b>0.67</b>				

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>-12/58</b>	Protein kg	<b>-18</b>
HWI	<b>-25</b>	Protein %	<b>0.39</b>
ASI	<b>17</b>	Survival	<b>96</b>
TWI	<b>-57</b>	Daughter Fertility	<b>104</b>
Milk	<b>-1429</b>	Calving Ease	<b>102</b>
Fat kg	<b>-2</b>	Overall Type	<b>95</b>
Fat %	<b>0.86</b>	Mammary System	<b>96</b>

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RETAIL  
**\$20.00**  
VOLUME  
**\$16.00**

Daughter of 512050 PERSPECTIVE

## 512050 ARKANS PERSPECTIVE-ET

Kiwicross™ F8J8

NZGPERSPECTV | A1A2

BW **\$171/98%** REL

### PEDIGREE: MINT-EDITION x MAUNGA

- Excellent fertility
- Good udders
- Low somatic cell count
- Longevity

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	4019	234	5.83	176	4.39
MGD	8	3388	194	5.73	136	4.01

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values 2150 Daughters

Milk Volume (litres)	<b>36</b>	Fertility %	<b>4.8</b>
Fat kg	<b>20</b>	Body Condition Score	<b>-0.01</b>
Fat %	<b>5.1</b>	Total Longevity (days)	<b>324</b>
Protein kg	<b>12</b>	Calving Difficulty	<b>-0.6</b>
Protein %	<b>4.0</b>	Gestation Length (days)	<b>-3.5</b>
SCC	<b>0.11</b>	Liveweight	<b>-19</b>

#### NZ Evaluation Data Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.23</b>				
Shed Temperament	<b>0.21</b>				
Milking Speed	<b>0.13</b>				
Overall Opinion	<b>0.21</b>				

#### Conformation (72 daughters TOP tested)

Stature	<b>-0.08</b>				
Capacity	<b>0.14</b>				
Rump Angle	<b>0.00</b>				
Rump Width	<b>0.17</b>				
Legs	<b>0.02</b>				
Udder Support	<b>0.37</b>				
Front Udder	<b>0.73</b>				
Rear Udder	<b>0.65</b>				
Front Teat Placement	<b>-0.17</b>				
Rear Teat Placement	<b>-0.29</b>				
Udder Overall	<b>0.57</b>				
Dairy Conformation	<b>0.34</b>				

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#### Australian Indices Source: ADHIS Dec 2018

BPI/REL %	<b>195/67</b>	Protein kg	<b>-10</b>
HWI	<b>155</b>	Protein %	<b>0.51</b>
ASI	<b>98</b>	Survival	<b>103</b>
TWI	<b>100</b>	Daughter Fertility	<b>114</b>
Milk	<b>-1373</b>	Calving Ease	<b>103</b>
Fat kg	<b>16</b>	Overall Type	<b>91</b>
Fat %	<b>1.08</b>	Mammary System	<b>91</b>



RETAIL  
**\$20.00**  
VOLUME  
**\$16.00**

Daughter of 514088 SONNY BULL

## 514088 CLARKES SONNY BULL

Kiwicross™ F10J6

NZGSONNYBULL | A1A2

BW **\$105/84%** REL

### PEDIGREE: POWER x MINT-EDITION

- Strong udders
- Longevity
- Retains body condition
- Efficient producers

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	4548	273	6.00	188	4.13
MGD	7	4369	254	5.82	175	4.00

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values 91 Daughters

Milk Volume (litres)	<b>251</b>	Fertility %	<b>2.7</b>
Fat kg	<b>11</b>	Body Condition Score	<b>0.07</b>
Fat %	<b>4.7</b>	Total Longevity (days)	<b>388</b>
Protein kg	<b>18</b>	Calving Difficulty	<b>3.2</b>
Protein %	<b>4.0</b>	Gestation Length (days)	<b>-4.2</b>
SCC	<b>0.25</b>	Liveweight	<b>18</b>

#### NZ Evaluation Data Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.08</b>				
Shed Temperament	<b>0.09</b>				
Milking Speed	<b>0.40</b>				
Overall Opinion	<b>0.14</b>				

#### Conformation (68 daughters TOP tested)

Stature	<b>0.15</b>				
Capacity	<b>0.35</b>				
Rump Angle	<b>0.00</b>				
Rump Width	<b>0.10</b>				
Legs	<b>0.03</b>				
Udder Support	<b>0.87</b>				
Front Udder	<b>1.06</b>				
Rear Udder	<b>1.17</b>				
Front Teat Placement	<b>-0.07</b>				
Rear Teat Placement	<b>-0.34</b>				
Udder Overall	<b>1.16</b>				
Dairy Conformation	<b>0.39</b>				

AE 11/02/2019

#### Australian Indices Source: ADHIS Dec 2018

BPI/REL %	<b>216/56</b>	Protein kg	<b>0</b>
HWI	<b>204</b>	Protein %	<b>0.42</b>
ASI	<b>87</b>	Survival	<b>103</b>
TWI	<b>224</b>	Daughter Fertility	<b>109</b>
Milk	<b>-800</b>	Calving Ease	<b>100</b>
Fat kg	<b>2</b>	Overall Type	<b>104</b>
Fat %	<b>0.52</b>	Mammary System	<b>103</b>





## 514018 GLEN KORU EPIC

Kiwicross™ F9J7  
NZGLENEPIC | A2A2

BW **\$196/83%** REL

### PEDIGREE: CRUSADER x IMPERIAL

- Fertility & longevity
- Retains body conditions
- Efficient producers
- A2A2

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	6	5977	285	4.76	237	3.96
MGD	8	5242	255	4.87	205	3.91

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

81 Daughters

Milk Volume (litres)	<b>269</b>	Fertility %	<b>3.9</b>
Fat kg	<b>22</b>	Body Condition Score	<b>0.06</b>
Fat %	<b>4.9</b>	Total Longevity (days)	<b>437</b>
Protein kg	<b>24</b>	Calving Difficulty	<b>0.1</b>
Protein %	<b>4.1</b>	Gestation Length (days)	<b>0.6</b>
SCC	<b>-0.08</b>	Liveweight	<b>2</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.13</b>				
Shed Temperament	<b>0.09</b>				
Milking Speed	<b>0.20</b>				
Overall Opinion	<b>0.27</b>				

#### Conformation (74 daughters TOP tested)

Stature	<b>0.12</b>				
Capacity	<b>0.27</b>				
Rump Angle	<b>-0.90</b>				
Rump Width	<b>0.03</b>				
Legs	<b>0.19</b>				
Udder Support	<b>0.35</b>				
Front Udder	<b>0.09</b>				
Rear Udder	<b>0.50</b>				
Front Teat Placement	<b>0.09</b>				
Rear Teat Placement	<b>0.12</b>				
Udder Overall	<b>0.42</b>				
Dairy Conformation	<b>0.25</b>				

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>307/48</b>	Protein kg	<b>37</b>
HWI	<b>225</b>	Protein %	<b>0.26</b>
ASI	<b>241</b>	Survival	<b>107</b>
TWI	<b>280</b>	Daughter Fertility	<b>102</b>
Milk	<b>745</b>	Calving Ease	<b>0</b>
Fat kg	<b>32</b>	Overall Type	<b>0</b>
Fat %	<b>-0.16</b>	Mammary System	<b>0</b>



## 512054 DICKSONS SOLACE

Kiwicross™ F13J3  
NZGDISOLACE | A2A2

BW **\$51/98%** REL

### PEDIGREE: RAZZLER x DAUNTLESS

- Good udders
- Longevity
- Capacity
- Low somatic cell count

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	6669	318	4.76	252	3.79
MGD	2	4485	201	4.49	176	3.92

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

1226 Daughters

Milk Volume (litres)	<b>539</b>	Fertility %	<b>-0.9</b>
Fat kg	<b>6</b>	Body Condition Score	<b>0.04</b>
Fat %	<b>4.4</b>	Total Longevity (days)	<b>275</b>
Protein kg	<b>17</b>	Calving Difficulty	<b>0.4</b>
Protein %	<b>3.7</b>	Gestation Length (days)	<b>-1.5</b>
SCC	<b>-0.40</b>	Liveweight	<b>19</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.04</b>				
Shed Temperament	<b>0.09</b>				
Milking Speed	<b>0.20</b>				
Overall Opinion	<b>0.06</b>				

#### Conformation (59 daughters TOP tested)

Stature	<b>0.20</b>				
Capacity	<b>0.49</b>				
Rump Angle	<b>0.10</b>				
Rump Width	<b>-0.42</b>				
Legs	<b>0.21</b>				
Udder Support	<b>0.33</b>				
Front Udder	<b>0.50</b>				
Rear Udder	<b>0.14</b>				
Front Teat Placement	<b>0.43</b>				
Rear Teat Placement	<b>0.37</b>				
Udder Overall	<b>0.49</b>				
Dairy Conformation	<b>0.24</b>				

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>119/65</b>	Protein kg	<b>-1</b>
HWI	<b>107</b>	Protein %	<b>0.18</b>
ASI	<b>33</b>	Survival	<b>103</b>
TWI	<b>57</b>	Daughter Fertility	<b>110</b>
Milk	<b>-379</b>	Calving Ease	<b>101</b>
Fat kg	<b>0</b>	Overall Type	<b>93</b>
Fat %	<b>0.23</b>	Mammary System	<b>94</b>





## 514084 GREENMILE HC MILAN

Kiwicross™ F9J7

NZGMILAN | A2A2

BW **\$135/97%** REL

### PEDIGREE: CHECKPOINT x MINT-EDITION

- Shorter gestation length
- A2A2
- Easy calving
- Efficient producers

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	4	4665	242	5.19	198	4.24
MGD	2	3658	205	5.61	159	4.35

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

1960 Daughters

Milk Volume (litres)	<b>178</b>	Fertility %	<b>-0.9</b>
Fat kg	<b>21</b>	Body Condition Score	<b>0.00</b>
Fat %	<b>5.0</b>	Total Longevity (days)	<b>218</b>
Protein kg	<b>17</b>	Calving Difficulty	<b>-1.8</b>
Protein %	<b>4.0</b>	Gestation Length (days)	<b>-8.3</b>
SCC	<b>0.30</b>	Liveweight	<b>-14</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>-0.11</b>				
Shed Temperament	<b>-0.08</b>				
Milking Speed	<b>0.05</b>				
Overall Opinion	<b>0.01</b>				

#### Conformation (107 daughters TOP tested)

Stature	<b>-0.17</b>				
Capacity	<b>0.19</b>				
Rump Angle	<b>0.20</b>				
Rump Width	<b>0.11</b>				
Legs	<b>0.04</b>				
Udder Support	<b>0.39</b>				
Front Udder	<b>-0.03</b>				
Rear Udder	<b>0.29</b>				
Front Teat Placement	<b>0.00</b>				
Rear Teat Placement	<b>0.93</b>				
Udder Overall	<b>0.14</b>				
Dairy Conformation	<b>0.07</b>				

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>157/64</b>	Protein kg	<b>-4</b>
HWI	<b>98</b>	Protein %	<b>0.50</b>
ASI	<b>121</b>	Survival	<b>102</b>
TWI	<b>69</b>	Daughter Fertility	<b>113</b>
Milk	<b>-1119</b>	Calving Ease	<b>103</b>
Fat kg	<b>19</b>	Overall Type	<b>92</b>
Fat %	<b>0.97</b>	Mammary System	<b>92</b>



## 512005 JUST ONCE COOPER

Kiwicross™ F9J7

NZGJUSTCOOPR | A2A2

BW **\$197/86%** REL

### PEDIGREE: OBSIDIAN x APPLAUSE

- Fat & protein
- Fertility & longevity
- Well liked by farmers
- Excellent udders

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	8	3770	230	6.11	159	4.21
MGD	11	3430	187	5.44	140	4.08

### NEW ZEALAND DETAILS

Daughter Proven

#### NZ Breeding Values

88 Daughters

Milk Volume (litres)	<b>2</b>	Fertility %	<b>1.3</b>
Fat kg	<b>27</b>	Body Condition Score	<b>0.02</b>
Fat %	<b>5.3</b>	Total Longevity (days)	<b>310</b>
Protein kg	<b>11</b>	Calving Difficulty	<b>-1.6</b>
Protein %	<b>4.0</b>	Gestation Length (days)	<b>-9.9</b>
SCC	<b>-0.19</b>	Liveweight	<b>-31</b>

### NZ Evaluation Data

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.43</b>				
Shed Temperament	<b>0.40</b>				
Milking Speed	<b>0.11</b>				
Overall Opinion	<b>0.47</b>				

#### Conformation (77 daughters TOP tested)

Stature	<b>-0.29</b>				
Capacity	<b>0.13</b>				
Rump Angle	<b>-0.10</b>				
Rump Width	<b>-0.12</b>				
Legs	<b>0.04</b>				
Udder Support	<b>0.60</b>				
Front Udder	<b>0.33</b>				
Rear Udder	<b>0.72</b>				
Front Teat Placement	<b>0.26</b>				
Rear Teat Placement	<b>0.87</b>				
Udder Overall	<b>0.49</b>				
Dairy Conformation	<b>0.18</b>				

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### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>253/57</b>	Protein kg	<b>-6</b>
HWI	<b>208</b>	Protein %	<b>0.53</b>
ASI	<b>136</b>	Survival	<b>104</b>
TWI	<b>156</b>	Daughter Fertility	<b>114</b>
Milk	<b>-1235</b>	Calving Ease	<b>103</b>
Fat kg	<b>28</b>	Overall Type	<b>0</b>
Fat %	<b>1.17</b>	Mammary System	<b>0</b>

# TOP 5 PERFORMERS

## Breeding Worth

NASIS	Name	BW \$ / Rel %	Page
NZGKAHZABULL	IZABULL	265 / 82	44
NZGGLENBECK	BECKON	236 / 87	43
NZGLYNKNIGHT	KNIGHT	208 / 75	47
NZGJUSTCOOPR	COOPER	197 / 86	52
NZGGLENEPIC	EPIC	196 / 83	51

## Protein

NASIS	Name	Protein kg / %	Page
NZGGLENBECK	BECKON	29 / 4.0	43
NZGKAHZABULL	IZABULL	25 / 4.0	44
NZGGLENEPIC	EPIC	24 / 4.1	51
NZGBREAK	BREAKTHROUGH	24 / 4.0	46
NZGLYNKNIGHT	KNIGHT	19 / 4.0	47

## Fertility

NASIS	Name	Fertility %	Page
NZGTUSK	TUSK	7.5	48
NZGPERSPECTV	PERSPECTIVE	4.8	50
NZGLYNKNIGHT	KNIGHT	4.2	47
NZGKAHZABULL	IZABULL	3.9	44
NZGGLENEPIC	EPIC	3.9	51

## Somatic Cell Count

NASIS	Name	SCC	Page
NZGDRYREIGN	SOVEREIGN	-0.42	49
NZGDISOLACE	SOLACE	-0.40	51
NZGKAHZABULL	IZABULL	-0.31	44
NZGLYNKNIGHT	KNIGHT	-0.29	47
NZGGLENBECK	BECKON	-0.21	43

## Udder Overall

NASIS	Name	Udder Overall	Page
NZGSONNYBULL	SONNY BULL	1.16	50
NZGARKBOWNTY	BOUNTY	0.91	45
NZGDRYREIGN	SOVEREIGN	0.71	49
NZGPERSPECTV	PERSPECTIVE	0.57	50
NZGJUSTCOOPR	COOPER	0.49	52

## BPI

Source: ADHIS Dec 2018

NASIS	Name	BPI	Page
NZGGLENEPIC	EPIC	307	51
NZGKAHZABULL	IZABULL	288	44
NZGJUSTCOOPR	COOPER	253	52
NZGBREAK	BREAKTHROUGH	242	46
NZGTIRONOTE	TAKE NOTE	224	48

## Fat

NASIS	Name	Fat kg / %	Page
NZGGLENBECK	BECKON	51 / 5.3	43
NZGKAHZABULL	IZABULL	36 / 5.1	44
NZGJUSTCOOPR	COOPER	27 / 5.3	52
NZGLYNKNIGHT	KNIGHT	25 / 5.0	47
NZGGLENEPIC	EPIC	22 / 4.9	51

## Milk Volume

NASIS	Name	Litres	Page
NZGDISOLACE	SOLACE	539	51
NZGGLENBECK	BECKON	502	43
NZGBREAK	BREAKTHROUGH	385	46
NZGKAHZABULL	IZABULL	384	44
NZGGLENEPIC	EPIC	269	51

## Capacity

NASIS	Name	Capacity	Page
NZGLYNKNIGHT	KNIGHT	1.18	47
NZGDRYREIGN	SOVEREIGN	0.95	49
NZGTIRONOTE	TAKE NOTE	0.69	48
NZGARKBOWNTY	BOUNTY	0.63	45
NZGGLENBECK	BECKON	0.60	43

## Calving Difficulty

NASIS	Name	Calving Difficulty	Page
NZGGLENBECK	BECKON	-3.3	43
NZGTIRONOTE	TAKE NOTE	-2.9	48
NZGTUSK	TUSK	-2.0	48
NZGMILAN	MILAN	-1.8	52
NZGLYNKNIGHT	KNIGHT	-1.6	47



# Ayrshire



RETAIL  
**\$20.00**  
VOLUME  
**\$16.00**

## 511597 SOUTHWIND JACKS QUINTIN

Ayrshire A16  
NZGQUINTIN | A1A1

BW **\$91/92%** REL

### PEDIGREE: JACK x CHALLENGE

- High fertility
- Management traits
- Capacity
- Great longevity

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	10	7176	369	5.14	274	3.82
MGD	7	6744	331	4.91	254	3.77

### NEW ZEALAND DETAILS

Daughter Proven

NZ Breeding Values		226 Daughters	
Milk Volume (litres)	<b>236</b>	Fertility %	<b>2.9</b>
Fat kg	<b>6</b>	Body Condition Score	<b>-0.02</b>
Fat %	<b>4.6</b>	Total Longevity (days)	<b>399</b>
Protein kg	<b>4</b>	Calving Difficulty	<b>-0.4</b>
Protein %	<b>3.7</b>	Gestation Length (days)	<b>-6.2</b>
SCC	<b>-0.23</b>	Liveweight	<b>-17</b>

### NZ Evaluation Data

Traits other than production

Management	BV -0.5	0	0.5	1.0
Adapts to Milking	<b>0.60</b>			
Shed Temperament	<b>0.57</b>			
Milking Speed	<b>0.28</b>			
Overall Opinion	<b>0.61</b>			

### Conformation (123 daughters TOP tested)

Stature	<b>-0.61</b>			
Capacity	<b>0.46</b>			
Rump Angle	<b>0.00</b>			
Rump Width	<b>-0.16</b>			
Legs	<b>0.03</b>			
Udder Support	<b>0.25</b>			
Front Udder	<b>0.42</b>			
Rear Udder	<b>-0.07</b>			
Front Teat Placement	<b>0.15</b>			
Rear Teat Placement	<b>0.28</b>			
Udder Overall	<b>0.22</b>			
Dairy Conformation	<b>0.37</b>			

Registrable

AE 11/02/2019

### Australian Indices

Source: ADHIS Dec 2018

BPI/REL %	<b>141/60</b>	Protein kg	<b>4</b>
HWI	<b>137</b>	Protein %	<b>0.08</b>
ASI	<b>53</b>	Survival	<b>102</b>
TWI	<b>149</b>	Daughter Fertility	<b>105</b>
Milk	<b>-9</b>	Overall Type	<b>104</b>
Fat kg	<b>14</b>	Mammary System	<b>101</b>
Fat %	<b>0.21</b>		





Daughter of 510544 IVO

**510544 PA HILL BRODY  
IVO ET**

Ayrshire A16

NZGHILLIVO | A1A2

BW **\$30/89%** REL

**PEDIGREE: BRODY x KIEKKO**

- Low somatic cell count
- Shorter gestation
- Easier calving
- Liked by farmers

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	5	3551	166	4.69	136	3.83
MGD	8	5021	280	5.58	200	3.98

**NEW ZEALAND DETAILS**

Daughter Proven

**NZ Breeding Values**

189 Daughters

Milk Volume (litres)	<b>180</b>	Fertility %	<b>-7.0</b>
Fat kg	<b>0</b>	Body Condition Score	<b>-0.14</b>
Fat %	<b>4.6</b>	Total Longevity (days)	<b>107</b>
Protein kg	<b>6</b>	Calving Difficulty	<b>-0.1</b>
Protein %	<b>3.8</b>	Gestation Length (days)	<b>-2.2</b>
SCC	<b>-0.37</b>	Liveweight	<b>-33</b>

**NZ Evaluation Data**

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.31</b>				
Shed Temperament	<b>0.22</b>				
Milking Speed	<b>0.34</b>				
Overall Opinion	<b>0.33</b>				

**Conformation (77 daughters TOP tested)**

Stature	<b>-0.85</b>				
Capacity	<b>0.12</b>				
Rump Angle	<b>0.20</b>				
Rump Width	<b>-0.73</b>				
Legs	<b>0.10</b>				
Udder Support	<b>-0.03</b>				
Front Udder	<b>0.00</b>				
Rear Udder	<b>-0.23</b>				
Front Teat Placement	<b>0.04</b>				
Rear Teat Placement	<b>0.14</b>				
Udder Overall	<b>-0.06</b>				
Dairy Conformation	<b>-0.12</b>				

Registrable

AE 11/02/2019

**Australian Indices**

Source: ADHIS Dec 2018

BPI/REL %	<b>151/61</b>	Protein kg	<b>9</b>
HWI	<b>141</b>	Protein %	<b>0.17</b>
ASI	<b>81</b>	Survival	<b>101</b>
TWI	<b>112</b>	Daughter Fertility	<b>100</b>
Milk	<b>-13</b>	Overall Type	<b>97</b>
Fat kg	<b>11</b>	Mammary System	<b>94</b>
Fat %	<b>0.17</b>		



RETAIL  
**\$20.00**  
VOLUME  
**\$16.00**

**514613 TE MATAI  
ELVIS**

Ayrshire A16

NZGMATELVIS | A1A2

BW **\$54/95%** REL

**PEDIGREE: PHILLIP x PEPPERNIKE**

- Fertility & longevity
- Liked by farmers
- Volume
- Low somatic cell count

Avg	Lactations	Milk Volume	Fat		Protein	
			kg	%	kg	%
Dam	9	4740	212	4.48	180	3.79
MGD	4	3063	124	4.06	104	3.38

**NEW ZEALAND DETAILS**

Daughter Proven

**NZ Breeding Values**

575 Daughters

Milk Volume (litres)	<b>277</b>	Fertility %	<b>1.5</b>
Fat kg	<b>-6</b>	Body Condition Score	<b>0.06</b>
Fat %	<b>4.3</b>	Total Longevity (days)	<b>177</b>
Protein kg	<b>6</b>	Calving Difficulty	<b>-0.2</b>
Protein %	<b>3.7</b>	Gestation Length (days)	<b>-1.8</b>
SCC	<b>-0.17</b>	Liveweight	<b>-37</b>

**NZ Evaluation Data**

Traits other than production

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	<b>0.49</b>				
Shed Temperament	<b>0.49</b>				
Milking Speed	<b>-0.03</b>				
Overall Opinion	<b>0.36</b>				

**Conformation (142 daughters TOP tested)**

Stature	<b>-0.92</b>				
Capacity	<b>0.27</b>				
Rump Angle	<b>0.20</b>				
Rump Width	<b>-0.48</b>				
Legs	<b>-0.15</b>				
Udder Support	<b>-0.18</b>				
Front Udder	<b>-0.21</b>				
Rear Udder	<b>-0.15</b>				
Front Teat Placement	<b>0.02</b>				
Rear Teat Placement	<b>-0.21</b>				
Udder Overall	<b>-0.16</b>				
Dairy Conformation	<b>0.04</b>				

Registrable

AE 11/02/2019

**Australian Indices**

Source: ADHIS Dec 2018

BPI/REL %	<b>-75/28</b>	Protein kg	<b>-5</b>
HWI	<b>-63</b>	Protein %	<b>0.03</b>
ASI	<b>-23</b>	Survival	<b>95</b>
TWI	<b>-77</b>	Daughter Fertility	<b>100</b>
Milk	<b>-247</b>	Overall Type	<b>100</b>
Fat kg	<b>-7</b>	Mammary System	<b>99</b>
Fat %	<b>0.05</b>		

# VALUE BULLS \$11-13.00 + GST

BULL CODE	NASIS Bull ID	Breed Split	Breeding Worth	Reliability %	Milk volume (litres)	Fat kg	Fat %	Protein kg	Protein %
Holstein-Friesian									
112054	NZGKEEPSAKE	F16	129	97	1226	26	4.2	35	3.6
113056	NZGPINUP	F16	120	97	556	32	4.8	23	3.8
109138	NZGZINKS	F16	116	99	745	36	4.8	27	3.8
113053	NZGMITCHFOON *	F15J1	89	99	365	19	4.8	18	3.9
107075	NZGHEROIC	F16	76	99	623	18	4.5	26	3.8
104021	NZGEARLYTIME	F16	67	99	1330	19	4.0	39	3.6
108237	NZGBLITZER	F16	60	99	778	19	4.4	33	3.9
111082	NZGMARJESTIC	F16	53	99	1438	22	4.0	36	3.5
108186	NZGNAUTEXCEL	F16	45	98	219	21	5.0	28	4.2
112024	NZGWORTHY	F16	43	86	694	14	4.4	22	3.7
111078	NZGRAPTURED	F16	40	99	538	12	4.5	19	3.8
105193	NZGSUPERHERO	F16	38	99	337	0	4.4	18	3.9
109068	NZGTOPOGGIE *	F15J1	33	99	968	6	4.0	32	3.7
105102	NZGBUOYANT	F16	31	89	669	4	4.2	25	3.8
112049	NZGEARNIE *	F15J1	23	98	432	1	4.4	15	3.8
111053	NZGJUBILANT >	F16	13	99	781	5	4.2	27	3.7
111044	NZGMAXTOMMO	F16	8	99	569	2	4.3	20	3.8
106024	NZGEVOLUTION	F16	0	87	586	1	4.2	20	3.7
109238	NZGKAGE	F16	-1	98	1246	14	4.0	35	3.6
113051	NZGTAFTANIUM	F16	-1	97	584	-4	4.1	25	3.8
101122	NZGROBUST	F16	-21	85	666	10	4.3	16	3.6
111087	NZGEMPHATIC	F16	-26	98	587	3	4.3	20	3.7
Jersey									
315059	NZGBONABERN	J16	230	90	-681	16	6.0	-4	4.3
313047	NZGLARSON	J16	229	98	102	36	5.4	18	4.1
315029	NZGTHORNTRIG	J16	195	90	-500	19	5.8	1	4.3
313055	NZGLENHARRY	J16	183	94	-841	4	5.9	-6	4.5
308128	NZGLOTJESTER	J16	179	99	-625	9	5.7	-3	4.3
309012	NZGSPEEDWAY >	J16	152	99	-452	8	5.5	-1	4.2
309030	NZGGROVETANA >	J16	138	99	-860	2	5.9	-7	4.5
310047	NZGMALI	J16	137	99	-409	5	5.3	-2	4.1
311019	NZGSOUTHJERI	J16	108	99	-634	-13	5.2	-8	4.2
309073	NZGTOFFEEMAN	J16	90	99	-795	-10	5.5	-13	4.2
303029	NZGAMULET	J16	64	99	-495	2	5.4	-3	4.2
Kiwicross™									
513063	NZGNOTWOWAYS	J12F4	207	86	-281	19	5.5	3	4.1
508140	NZGEASYRIDER	F7J9	190	99	-353	25	5.7	3	4.2
511052	NZGMOODYEXEC >	J10F6	151	99	301	8	4.6	19	3.9
512030	NZGDAISYRENE	J8F7A1	130	84	48	26	5.3	11	4.0
507036	NZGLYNCASTER	J9F7	110	99	29	12	5.0	12	4.0
507086	NZGEQUIN >	J9F7	109	99	-212	9	5.2	6	4.1
506104	NZGRONSHOW	J10F6	101	99	309	8	4.6	19	3.9
511031	NZGRIVERRAID	J10F6	100	99	-122	2	4.9	11	4.1
512006	NZGCOMANDR	F13J3	78	99	593	22	4.6	27	3.9
513095	NZGALDIRECTR	J9F7	41	98	-175	11	5.2	7	4.1
Ayrshire									
504522	NZGJARMO	A16	48	99	340	15	4.7	10	3.7
507515	NZGQUINNELLA	A16	36	99	269	15	4.8	2	3.6
508530	NZGPROTENPAK	A16	-3	97	352	-6	4.3	8	3.7
61772	NZLCHALLENGE	A16	-33	99	102	0	4.6	5	3.8
510539	NZGSNAPSHOT	A16	-35	92	-352	-5	5.0	-15	3.7

\*Crossbred Sire




> Sexed \$45.00 +GST



SCC	Fertility %	Body Condition	Total Longevity (days)	Calving Difficulty	Gestation Length (Days)	Liveweight (kg)	Overall Opinion	Capacity	Udder Overall	Dairy Conformation	Beta Casein
-0.33	2.9	-0.03	355	0.9	-1	19	0.24	-0.13	0.28	0.07	A1A2
-0.24	1.3	0.15	363	2.7	-8	58	0.62	0.29	0.06	0.47	A2A2
0.26	-1.3	-0.07	219	0.2	-4	25	0.67	0.12	-0.19	0.02	A2A2
-0.46	1.0	0.09	319	3.1	-3	51	0.43	0.58	0.50	0.59	A1A2
-0.02	1.4	0.13	259	5.7	0	48	0.19	0.37	0.43	0.44	A1A1
0.09	-3.2	-0.08	328	0.3	6	26	0.16	-0.26	-0.20	-0.25	A1A2
-0.12	-4.4	-0.05	118	0.6	-4	35	0.42	0.52	0.10	0.62	A1A2
0.21	0.5	-0.11	278	4.4	-1	32	0.50	-0.28	0.52	0.20	A1A2
0.22	-1.6	-0.03	165	0.7	1	88	0.05	0.38	0.36	0.50	A1A2
-0.46	-0.6	-0.01	99	2.8	-7	33	0.48	0.30	0.81	0.42	A2A2
-0.16	-2.1	0.05	266	2.9	4	36	0.32	0.62	0.58	0.68	A1A2
0.09	3.6	0.14	184	1.3	-6	31	-0.02	0.24	0.33	0.22	A1A2
-0.05	-2.3	0.13	249	3.6	3	34	0.50	0.33	0.21	0.51	A1A2
-0.28	3.5	0.23	296	4.7	0	70	0.54	0.37	0.30	0.25	A1A2
-0.01	0.3	0.28	221	1.3	-2	33	0.25	0.48	0.65	0.45	A1A2
-0.03	-2.5	0.00	135	1.3	-4	30	0.20	0.19	0.56	0.29	A1A2
-0.39	0.2	0.01	95	4.5	0	38	0.61	0.76	0.59	0.74	A1A2
0.19	1.0	0.15	368	3.9	4	59	0.53	-0.03	-0.05	0.20	A2A2
-0.24	0.2	-0.02	312	4.5	0	88	0.17	0.56	0.86	0.64	A2A2
-0.27	1.8	0.18	237	2.2	2	69	0.33	0.94	1.25	0.96	A2A2
-0.07	-1.2	0.04	-67	4.1	0	36	-0.02	0.45	0.47	0.51	A1A2
0.37	-2.5	-0.03	76	0.6	0	34	-0.04	0.24	0.80	0.32	A1A2
-0.35	0.7	-0.16	187	-0.6	-1	-100	0.12	-0.47	0.27	-0.41	A2A2
-0.21	0.4	0.17	248	-3.0	1	-20	0.64	0.37	-0.24	0.46	A2A2
-0.41	0.5	0.12	228	-1.7	-5	-40	-0.12	0.60	1.25	0.62	A2A2
-0.39	4.0	0.33	211	-2.9	2	-44	-0.18	0.55	0.54	0.39	A2A2
-0.44	3.4	0.19	311	-2.2	0	-33	0.29	0.47	0.64	0.42	A1A2
-0.19	2.5	0.07	252	-2.6	-5	-41	0.38	0.24	1.03	0.25	A2A2
-0.16	-0.7	0.18	92	-2.1	-4	-53	0.39	0.57	0.59	0.45	A2A2
-0.32	-0.6	0.10	148	-0.9	-6	-56	0.24	0.13	0.82	0.16	A2A2
-0.18	1.5	0.35	257	-2.6	-1	-52	0.23	0.70	0.38	0.47	A2A2
-0.05	2.3	0.11	137	-2.1	-2	-58	0.21	0.01	0.89	0.14	A1A2
-0.03	-2.8	0.00	-80	-2.5	-4	-39	0.30	0.25	0.19	0.28	A2A2
-0.29	4.2	-0.04	318	-4.8	-5	-53	0.32	-0.15	0.10	-0.11	A2A2
0.20	2.0	0.21	336	-1.5	-4	-22	0.08	0.75	0.26	0.48	A1A2
-0.22	4.8	0.19	279	-0.9	-4	-18	0.08	0.87	0.02	0.53	A2A2
-0.08	-5.8	-0.04	182	-2.1	2	-17	-0.04	0.52	0.50	0.63	A2A2
-0.31	-0.1	-0.06	209	-1.1	-2	-6	0.13	0.39	0.08	0.37	A2A2
0.18	2.1	0.01	265	-0.9	-4	-8	0.38	0.36	0.49	0.49	A2A2
-0.12	-0.6	0.03	243	-0.8	2	-6	0.11	0.18	0.52	0.29	A1A2
-0.07	-0.1	0.09	227	-0.2	5	-11	0.28	0.25	0.34	0.20	A2A2
0.98	-3.8	-0.15	52	1.9	-8	-12	0.45	0.49	0.23	0.52	A2A2
0.83	-3.3	-0.17	6	-0.4	-6	-12	0.21	-0.10	0.50	0.19	A2A2
-0.04	-1.4	-0.26	76	-1.1	-3	-9	-0.05	-0.02	-0.17	-0.14	A1A2
-0.06	-3.3	-0.24	-42	-2.5	-4	-33	0.31	0.12	-0.29	-0.15	A1A2
0.15	-2.1	0.04	19	0.8	-3	-23	0.30	0.44	-0.21	0.21	A2A2
-0.23	-7.3	-0.21	16	-1.7	1	9	0.12	0.24	-0.18	0.07	A1A2
0.23	-4.5	-0.03	-7	-1.6	0	-25	0.50	0.46	0.16	0.16	A2A2

# HEAT DETECTION AIDS

LIC has a range of cost effective heat detection aids that are designed to help farmers identify more cows in heat, improving heat detection accuracy and enabling better timing of AI services.

Product	Features	Benefits
 <p>LIC scratch-off heat detection</p>	<ul style="list-style-type: none"> <li>Self-adhesive</li> <li>Available in 5 colours: Red, green, yellow, pink and blue</li> <li>Sold in packs of 100</li> </ul>	<ul style="list-style-type: none"> <li>No need to spend time gluing the cow or the heat patch</li> <li>5 colours allows for multiple rounds of heat detection</li> <li>Friction based technology</li> </ul>
 <p>LIC Heat Patch Plus</p>	<ul style="list-style-type: none"> <li>Self-adhesive</li> <li>Available in three colours: red, pink and blue</li> <li>Built in timing mechanism</li> <li>Channel and chamber technology</li> <li>Sold in packs of 100</li> </ul>	<ul style="list-style-type: none"> <li>No need to spend time gluing the cow or the heat patch</li> <li>3 colours allows for multiple rounds of heat detection</li> <li>4 second time release technology helps to identify true standing heats</li> <li>New technology allows the dye to bleed to the edges of the patch for greater visibility and prioritisation</li> </ul>
 <p>KAMAR® Heatmount® Detectors</p>	<ul style="list-style-type: none"> <li>Available in classic peel and glue options</li> <li>Built in timing mechanism</li> <li>Available in Red only</li> <li>Sold in packs of 100</li> </ul>	<ul style="list-style-type: none"> <li>4 second time release technology helps to identify true standing heats</li> </ul>

# ALLFLEX TAGS

We are proud to offer a full range of Allflex tags, the leader in visual animal identification.



For more information or to purchase any of these products, please contact your local District Manager or LIC Australia: 1800 454 694 | [admin@licaus.com.au](mailto:admin@licaus.com.au)



# TERMS AND CONDITIONS

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

## Definitions

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

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

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

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

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

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

## Acknowledgement of LIC's Rights

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

## Restrictions on use of LIC Semen

- 3 When supplying the Client with LIC Semen, LIC Australia grants to the Client a non-assignable, non-exclusive one-off licence (such licence otherwise on usual industry terms) for the sole purpose of the artificial insemination of animals in Australia and ordinarily in the Client's own Herd.
- 4 The Client undertakes that the LIC Semen will not be used for any purpose other than the artificial insemination of animals in Australia and ordinarily in the Client's Herd and the Client further undertakes that the Client will not use or transport such LIC Semen outside of Australia or provide, procure or permit the use of, access to or possession of such LIC Semen by any other person within Australia (other than a director or an officer, employee or agent of the Client acting in that capacity).
- 5 Without limiting clauses 3 and 4 above, the Client acknowledges and agrees that:
- a the restraints in clauses 3 and 4 do not prevent the Client from using LIC Semen or providing such LIC Semen to a third party for the purpose of performing or undertaking an embryo transfer reproductive process on animals ordinarily in the Client's Herd; and
  - b in the case of SGL™ Product, the relevant LIC Semen is supplied solely to facilitate a gestation period which is intended to be shorter than the usual gestation period.
- 6 The Client shall not, except with LIC Australia's prior written permission, source, purchase or acquire any LIC Semen from any person who is not LIC Australia or LIC NZ, an authorised agent or distributor of LIC or otherwise deal in or use in any way for any purpose any LIC Semen sourced, purchased or acquired from such a person.

## Restrictions Relating to Offspring from LIC Semen

- 7 The Client must not, except with LIC Australia's prior written permission, directly or indirectly:
- a advertise for sale or supply, or sell or otherwise supply, or collect, deal in or use in any way for any purpose, any semen from any first-generation male offspring of matings using LIC Semen (Offspring); or
  - b use the Offspring or allow the Offspring to be used in circumstances where the Offspring are used or may be used for the collection of semen; or
  - c provide access to or possession of or dispose of the Offspring (whether born or unborn) to any person (other than a director or an officer, employee or agent of the Client, acting in that

capacity) (Transferee) in circumstances where the Offspring will or may be used for the collection of semen, without first entering into a written agreement with the Transferee requiring the Transferee to observe the same obligations of the Client under this clause 7 as if the Transferee were the Client. Any breach of that requirement by the Transferee (or any subsequent transferee) will, for the purpose of this clause 7, be deemed to be a breach by the Client of this clause 7.

This restraint, which:

- i does not prevent the use of the Offspring for natural matings; and
- ii applies irrespective of the means by which the Client came into possession or control of any LIC Semen, Offspring or semen from Offspring;

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

- 8 The Client acknowledges that the SGL™ Product embodies valuable LIC NZ intellectual property rights, and is sold solely for the purpose of facilitating short gestation length pregnancies and SGL™ Offspring must not be bred. To that end, the Client must not, except with LIC Australia's prior written permission, directly or indirectly:
- a advertise for sale or supply, or sell or otherwise supply, or collect, deal in or use in any way for any purpose, any semen, embryo or other form of germplasm (SGL™ Germplasm) from any SGL™ Offspring; or
  - b use the SGL™ Offspring or allow the SGL™ Offspring to be used in circumstances where the SGL™ Offspring are used or may be used for the collection of SGL™ Germplasm; or
  - c use the SGL™ Offspring or allow the SGL™ Offspring to be used where the SGL™ Offspring, or the SGL™ Germplasm of the SGL™ Offspring, is mated with any other animal using any form of breeding or reproductive technology, including (without limitation) artificial insemination, embryo transfer or natural mating; or
  - d provide access to or possession of or dispose of the SGL™ Offspring (whether born or unborn) to any person (other than a director or an officer, employee or agent of the Client, acting in that capacity) (SGL™ Transferee) in circumstances where the SGL™ Offspring will or may be used for mating or the collection of SGL™ Germplasm without first entering into a written agreement with the SGL™ Transferee requiring the SGL™ Transferee to observe the same obligations of the Client under this clause 8 as if the SGL™ Transferee were the Client. Any breach of that requirement by the SGL™ Transferee (or any subsequent transferee) will, for the purpose of this clause 8, be deemed to be a breach by the Client of this clause 8.

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

## Indemnity

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

# Contact Us

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For the latest information and bull teams visit our website:

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

