2021 Genetics Catalogue - Dairy

There's always room for improvement

LIC®

What a roller-coaster ride the last 12 months have been since I last sat down to write-up my introduction for LIC's annual publication of the Genetics Catalogue.

As individuals, and a business, we've all had to adapt and frequently call on all our creativity and resource to become more innovative and resilient.

The true meaning of the words 'innovation' and 'adaptability' spring to mind as I look through what I believe is our best genetics catalogue yet, with a comprehensive assortment of dairy and beef genetics available for selection (either individually or collectively via LIC's renowned Premier Sires teams).

As some of the most-important custodians of the land, dairy farmers have always prided themselves as being as environmentally conscious as possible, given the constraints that current technology, knowledge, and today's social- license-to-operate allows.

As the Government works to set (achievable) green house gas targets for the primary sector, LIC continues to focus on breeding the most efficient convertors of feed into profit: Unsurprisingly, these animals are also the most environmentally efficient animals.

Last year LIC launched HoofPrint®, a ranking tool designed to give farmers an indication of the predicted environmental footprint of various dairy bulls, based on the calculation methodology for New Zealand's agricultural greenhouse gas emissions. The index ranks animals on their lifetime urinary nitrogen and enteric methane per kg of milksolids production. (See page 121 of the dairy section)

This year LIC launches BeefPrint®, a tool based on the same methodology as HoofPrint®, although it ranks beef bulls for their lifetime urinary nitrogen and enteric methane per kg of meat production (see page 3 of the beef section). BeefPrint® is exclusive to LIC and at this stage is only available to the bulls profiled on the across-breed Leachman analysis, because it uses feed efficiency data collected specifically from the Angus, Simmental, Profit Maker® and Charolais bulls.

As LIC's genomic technology continues to deliver exceptional genetic gain (above that of our traditional Daughter Proven teams), we've seen approximately 60% of farmers incorporate these bulls into their breeding programmes. This year we expect that figure to be closer to 70% after another successful year of genomic results.

Many of these young bulls will be utilised by farmers through the Premier Sires Sexed Semen teams. The uptake in Sexed Semen use has significantly increased during the past two years as farmers seek to maximise their genetic gain on farm (i.e. by generating more replacements from their best-performing animals).

For farmers wanting to use Sexed Semen, LIC advocates the use of our Liquid Premier Sires Sexed Semen teams – that's because liquid is the only sexed product that delivers near-normal non return rates (NRR).

For those farmers that want to be more selective with Sexed Semen, this year we will again have a selection of individual bulls available, and, excitingly for the first time, this will include a selection of male beef Sexed Semen (see page 26 of the beef section).

As demand for Sexed Semen increases so does the demand for beef semen. LIC is committed to working with the most progressive beef breeders in the country to ensure we continue to provide our farmers with beef bulls suitable for use over dairy cows. While calving ease and gestation length are key drivers in our beef bull selections, we're now also focusing on growth and carcass merit.

You'll notice the new extended beef section of the catalogue, and after farmer feedback we've tried to display the information consistent with dairy bulls for ease of reading. We've also included key indicators of polled or coat colour (see 'how to read a beef page' in the beef section, page 6).

I'm sure you'll agree this is the most extensive genetics catalogue yet. Whether you're a Premier Sires user or prefer to make your own selections, the range and options of bulls presented by LIC have never been wider, nor more exciting!

I wish you all the very best for the 2021 season.

Greg Hamill

LIC Genetics business manager

Contents

How to Read a Dairy Sire Page

Labels

Bulls with standout attributes have these highlighted. The attributes are calculated within breed and based on 12/02/2021 information. It will also show if a bull is currently being marketed as a Premier Sire, and whether it is a Genomic graduate - having been previously marketed as a young bull.

Protein and Milkfat

A gBV of 44 kg indicates that the bull will produce daughters which on average, are genetically superior to the base cow by 22 kg per 5t dry matter consumed.

Fertility

A gBV of 2.4% indicates that 1.2% 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 any other countries base.

Longevity

A gBV of 678 days indicates the bull's daughters are expected to last in the herd for 339 days longer, compared to a bull of 0 days. The average number of New Zealand lactations is now 5.5.

Shed Temperament

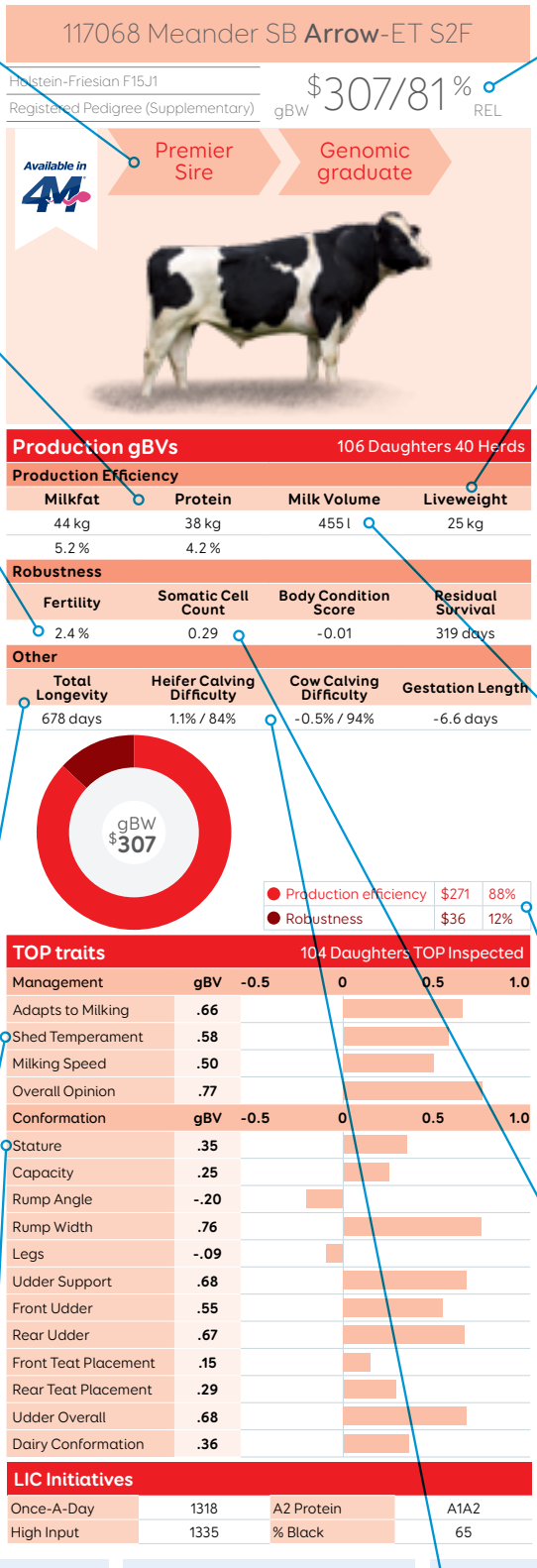
A gBV of 0.00 indicates that the bull will produce daughters which on average, are genetically the same as the base cow. (For example by using a bull with a shed temperament of 0.58 the raw score for his daughters on average is expected to be 6.28 + 0.29 = 6.57 from a linear score of 9).

HoofPrint®

New environmental measure. More information on pg 121.

Stature

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



BW/Rel

Using this bull at a BW of $307 indicates that per 5t DM the replacements are expected to generate NZD $307 more net profit than using a sire with a BW of 0.

The reliability of a sire is a measure of the amount of information behind the bulls BW. The higher the reliability the less movement expected with his BW.

Liveweight

A gBV of 25 kg indicates by using this sire over the average cow in New Zealand his daughters are expected to have a mature liveweight 12.5kg heavier than the base cow of 500 kg. Because Breeding Values (gBV) are calculated across breed you would expect a Holstein Friesian to have a much higher (positive) gBV for liveweight and you would expect Jerseys to have a lower (negative) gBV.

Milk

A gBV of 455 litres indicates the bull will produce daughters which on average will produce 227.5 litres more than the base cow per 5t of dry matter fed. Remember the gBV is across breeds so Jersey and Crossbred animals may show a negative gBV.

Donut Graph

This shows the value components in a bulls BW that is contributed from either Production efficiency or Robustness. In this example the BW is made up of $271 from Production efficiency and $36 from Robustness for a total of $307 BW

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 gBV the better as you want to reduce the bulk milk SCC.

gBW/gBV are calculated by LIC.

Available in

Bulls with this flag are available in frozen sexed semen (female)

For terms of use see pg 125

Calving Difficulty

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

Understanding New Zealand Information

Base cow

The New Zealand Breeding Values are compared across breed to a group of animals, commonly known as the base cow. There are 21,585 cows in the base group, made up of all breeds. These cows were born in 2005 and came into milk in 2007. All animals had to be TOP (Traits Other than Production) inspected, weighed and have had four herd tests. The production information was collated over four years and then averaged out.

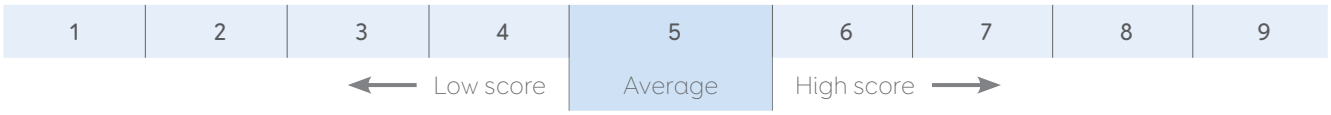
All of the bulls information in this catalogue is expressed relative to the base group, who's production and TOP information has been set to zero.

Assessing the animal

Each trait is scored separately on a scale from 1-9. The traits included in the TOP system are the traits considered most important in dairy cattle and contain 4 farmer scored traits, and 13 conformation traits.

The main advantage of the TOP system is that inspectors describe the animal rather than an imagined ideal animal.

Any additional characteristics of an animal not described by these traits are noted as additional comment codes. (eg: OW- predominantly white).



(see adjacent table)

Data processing

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

Production

When calculating the genetic response expected from production breeding values, it is calculated at an expected response when fed 5 tonnes of dry matter. This is because the average New Zealand cow will consume 5 tonnes of dry matter in one lactation when fed on a pasture only diet. If grain or additional supplements are fed on top of the pasture diet you would expect a much higher genetic response.

Volume

Because Breeding Values (gBV) are calculated across breed you would expect a Holstein-Friesian to have a much higher (positive) gBV for milk and you would expect Jerseys to have a lower (negative) gBV.

Base cow production information

Milkfat	Protein	Milk Volume	Liveweight
218 kg/5t DM	174 kg/5t DM	4595 l/5t DM	500 kg

TOPs

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

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

Premier Sires® Pricing

Increase your herd's genetic value with Premier Sires, a cost-effective and convenient way to mate your herd with New Zealand's top bulls.

Premier Sires			
Number of inseminations (LIC Technician) #	Forward Pack (per insemination)	A2 team* (per insemination)	Daughter Proven (per insemination)
1-100	$27.40	$27.40	$24.40
101-200	$26.90	$26.90	$23.90
201-300	$26.40	$26.40	$23.40
301-400	$25.80	$25.80	$22.80
401-500	$25.20	$25.20	$22.20
501-600	$24.60	$24.60	$21.60
601-700	$24.00	$24.00	$21.00
701-800	$23.40	$23.40	$20.40
801-900	$22.80	$22.80	$19.80
901-1000	$22.20	$22.20	$19.20
1001-1100	$21.60	$21.60	$18.60
1101-2000	$20.95	$20.95	$17.95
2001-5000	$20.10	$20.10	$17.10
5001+	$19.85	$19.85	$16.85

The Premier Sires Forward Pack teams are comprised of the best daughter proven and best genomically-selected bulls

* The Premier Sires A2 teams are comprised of genomically-selected bulls only.

The Premier Sires Daughter Proven teams are comprised of the best daughter proven bulls

Customers are charged per 100 inseminations or part thereof, depending on the number of inseminations to Premier Sires. As described in the tables, as the number of inseminations increase, prices move down the graduated price scale, and each insemination is charged at the appropriate Forward Pack/A2 or Daughter Proven rate.

Example: The 100th and your 101st Forward Pack insemination would be charged at $27.40 and $ 26.90 respectively.

DIY Premier Sires follows the same graduated price scale, less $1.00 per insemination

All prices exclude GST

Sexed Semen (Liquid) $56.00 plus technician per straw

As sexed semen is provided from an external provider, customers will be billed for every straw ordered/delivered.

Alpha® Purchasing

Alpha packs give you the control to choose the bulls best suited to your breeding requirements, while taking advantage of our discounted pack pricing.

Packs must contain equal quantities of each bull and in quantities of 5 straws per bull, minimum order will apply.

Alpha Packs				
Product	Details	Bulls	$/Straw	$/Straw (Inc 10% InvestaMate)
Economy Pack	• Minimum order of 20 straws • Can mix breeds	3+ Bulls	$16.15	$14.53
Classic Pack	• Minimum order of 30 straws • Can mix breeds	5+ Bulls	$23.15	$20.84
		4 Bulls	$25.40	$22.86
		3 Bulls	$27.65	$24.89
Genomic Pack	• Minimum order of 30 straws • Can mix breeds	5+ Bulls	$28.85	$25.97
Ayrshire Pack	• Minimum order of 20 straws	3+ Bulls	$19.75	$17.78
Young Ayrshire Pack	• Minimum order of 20 straws	(No choice)	$4.95	$4.46
		3+ Bulls	$13.55	$12.20
Short Gestation Length	Dairy	(No choice)	$16.70	$15.03
	Hereford or Angus	(No choice)	$12.90	$11.61
Beef Pack	• Range of breeds available - refer to beef section	(No choice)	from $10.20	$9.18
No Choice Packs	• Once-A-Day (page 12) • High Input (page 11) • Polled (page 14) • Minimum order 30 straws	(No choice)	$21.00	$18.90

Volume discounts (1-10%) may apply and will be additional to the InvestaMate discount outlined above (see page 124 for details). Prices exclude insemination costs. All prices exclude GST

Compact Calving + gBW	Gestation Length	gBW	$/Straw	$/Straw (Inc 10% InvestaMate)
KiwiCross®	-8.7 days	$276/95%	$23.10	$20.79
Holstein-Friesian	-8.6 days	$239/94%	$23.10	$20.79

Our Compact Calving pack (frozen only) delivers bulls with shorter gestation and high gBW so that you can keep the offspring as herd replacements if you wish.

Sexed Semen (Frozen)	• Dairy • Female sorted • Refer to bull pages	Individually	$56.00	N/A

Short Gestation Length (SGL) Dairy

SGL Dairy® semen was an initiative developed by LIC so farmers could benefit by having cows that will calve earlier the following season.

Not only will farmers benefit financially through more days in milk, using SGL Dairy® semen gives cows a longer period to recover increasing their chances of getting back in calf to AB.

2020 sales activity of SGL Dairy® semen is expected to generate in excess of $10 million in additional revenue to the New Zealand dairy farmer in the upcoming 2021 season.

It is expected that progeny from SGL Dairy bulls will not be kept as dairy replacements as these bulls have been bred for gestation length only; their index and TOP traits are not part of the selection criteria.

**InvestaMate and volume discounts may apply (see page 124)*

Frozen	- 21 days	$16.70
Fresh (Including technician)		Premier Sires sliding Scale
Fresh DIY		

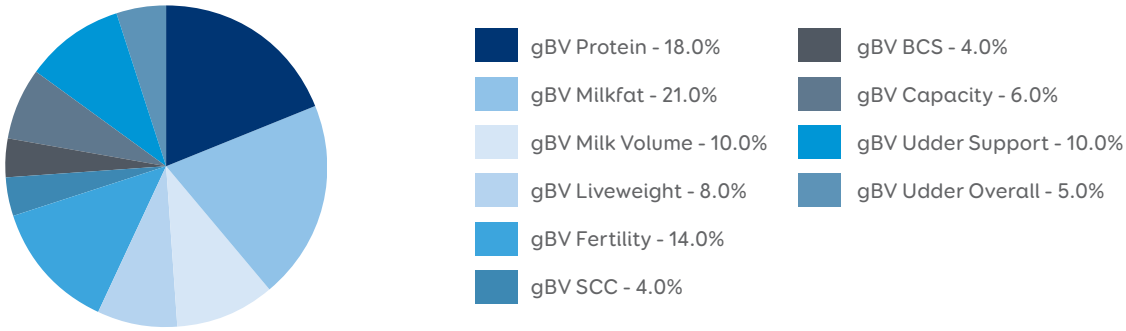
High Input Teams

LIC has updated its High Input Index to include a focus on a range of traits alongside Breeding Worth to identify animals best suited to High Input systems. Those traits include: Capacity, Udder support, Udder overall and Protein.

For 2021 LIC have put together the below no choice packs which are available from $18.90*

What makes up LIC's High Input Index?

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



How do I interpret the High Input Index?

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

Holstein-Friesian

Code	Name	gBW/Rel	HI Index	Milkfat	Protein	Volume	Fertility	SCC	O Opinion	Capacity	Udder O	Page
117068	Meander SB **Arrow**-ET S2F	307/81	1335	44	38	455	2.4	0.29	0.77	0.25	0.68	39
115107	Lightburn Blade **Gusto**	218/87	1330	38	42	609	0.0	0.29	0.42	0.93	0.88	47
117011	MO SB **Pointblank** S2F	226/81	1320	49	50	1031	-1.0	0.16	0.24	0.85	0.58	41
114007	Busy Brook WTP **Vector** S3F	240/87	1318	44	42	1024	8.2	-0.27	0.93	0.85	0.42	57
116118	Lightburn B **Malbec**-ET S3F	186/85	1307	31	34	525	2.2	-0.25	0.45	0.82	1.19	59
115021	Gordons AM **Lancelot** S3F	248/96	1293	38	42	682	0.4	0.10	0.24	0.54	0.26	54
117090	Tronnoco MH **Samba**-ET S3F	194/80	1290	36	50	1180	0.3	0.31	0.50	0.19	0.89	43
	Average	230/98	1313	40	43	787	1.8	0.09	0.51	0.63	0.70	

KiwiCross®

Code	Name	gBW/Rel	HI Index	Milkfat	Protein	Volume	Fertility	SCC	O Opinion	Capacity	Udder O	Page
517055	Taramont **Springtide**	242/81	1374	44	42	838	-0.6	0.33	0.49	0.93	1.05	99
517043	Glen Koru **Proclaimer**-ET	365/81	1360	54	37	512	1.3	0.09	0.47	0.54	0.18	101
515025	Speakes **Slipstream** ET	317/86	1359	39	17	-10	6.6	-0.07	0.33	0.48	1.10	97
517042	Luck-at-Last **Inspired**-ET	301/81	1342	41	28	476	1.4	0.19	0.30	0.69	0.71	107
516074	Crossans **Critical**-ET	290/90	1338	38	38	888	2.2	-0.35	0.45	0.74	0.50	106
517067	Cawdor **Pinnacle**	376/81	1337	43	27	54	1.7	0.57	0.03	0.23	0.27	103
517060	Kegzys **Remarkable**	283/79	1336	43	30	327	2.3	-0.32	0.48	0.46	0.62	100
	Average	310/98	1350	43	31	441	2.1	0.06	0.36	0.58	0.63	

** These bulls are available by breed in No Choice Packs from $18.90**
** If 10% InvestaMate discount applies (see page 124)*

12/02/2021

Once-A-Day

Once-A-Day (OAD) milking is gaining popularity as an efficient way of managing seasonal conditions and resources with benefits in reduction of farm working expenses and improved animal health.

The OAD milking regime 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 OAD index has been developed to help OAD farmers breed animals most suitable to their system.

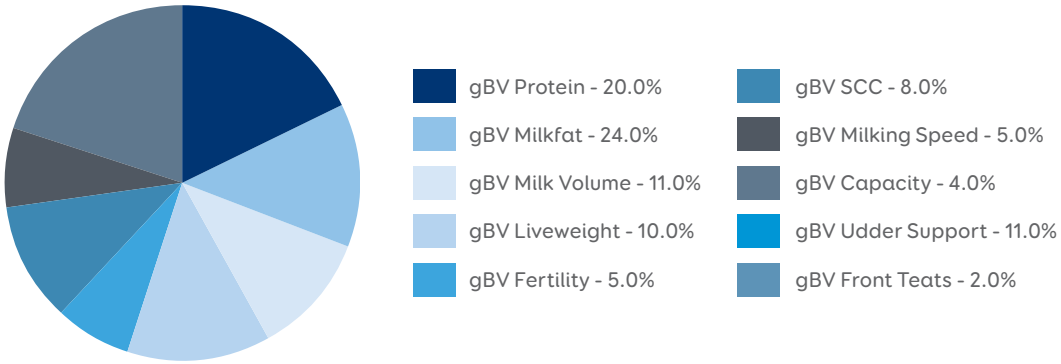
Our goal is to support OAD farmers in breeding cows that persist throughout the lactation and have longevity in the herd. The index has a strong correlation to Breeding Worth (gBW) but also combines the non-negotiable OAD functional traits. It reflects what farmers have told us is required in a desirable OAD cow and takes into account the following traits:

- Capacity
- Udder support
- Front teat placement
- 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 graph shows the weighting of the traits within the OAD Index, in addition to the existing eight traits of gBW.



How do I interpret the OAD Index?

The OAD index allows animals to be compared based on their suitability for OAD systems. The index increases based on the animal's suitability to OAD.

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

Once-A-Day Teams

Holstein-Friesian

Code	Name	gBW/Rel	OADSI	Milkfat	Protein	Volume	Fertility	SCC	O Opinion	Capacity	Udder O	Page
117068	Meander SB **Arrow**-ET S2F	307/81	1318	44	38	455	2.4	0.29	0.77	0.25	0.68	39
116019	Werders DE **Overtime** S1F	265/88	1289	43	31	382	0.7	0.61	0.43	0.16	0.53	40
115107	Lightburn Blade **Gusto**	218/87	1279	38	42	609	0.0	0.29	0.42	0.93	0.88	47
115021	Gordons AM **Lancelot** S3F	248/96	1272	38	42	682	0.4	0.10	0.24	0.54	0.26	54
116015	Paynes BG **Archie** S1F	242/85	1265	55	33	843	-1.5	0.19	0.37	0.23	0.59	55
116001	Footehills BG **Lincoln** S1F	216/84	1230	43	19	268	1.2	0.43	-0.03	0.37	0.46	45
117035	Bellamys MH **Gambit**-ET S2F	211/80	1183	31	34	756	2.2	0.19	0.62	0.27	0.50	53
	Average	**244/98**	**1263**	**42**	**34**	**570**	**0.8**	**0.30**	**0.40**	**0.39**	**0.57**	

Jersey

Code	Name	gBW/Rel	OADSI	Milkfat	Protein	Volume	Fertility	SCC	Liveweight	Capacity	Udder O	Page
316039	Ulmarra TT **Gallivant**	344/87	1298	47	14	-242	2.8	0.00	-12	0.64	0.62	70
315029	Thornwood Degree **Trigger**	298/94	1293	31	7	-453	2.5	-0.17	-33	0.71	1.26	81
313023	Crescent Excell **Monopoly**	333/87	1292	37	9	-494	0.5	0.01	-42	0.42	0.46	78
317060	Paspalum OI **Limelight**	310/79	1287	25	8	-416	2.4	-0.14	-63	0.27	0.98	75
315045	Glenui Degree **Hoss** ET	324/88	1283	32	9	-400	4.7	-0.36	-37	0.30	0.63	76
315009	Riverview AND **Dexter** S2J	278/87	1268	26	18	-56	3.3	-0.21	-22	0.62	0.67	83
314004	Bells OI **Floyd** S3J	304/95	1266	37	19	106	1.8	-0.21	-5	0.74	0.58	80
	Average	**313/98**	**1284**	**34**	**12**	**-280**	**2.5**	**-0.15**	**-31**	**0.53**	**0.74**	

KiwiCross®

Code	Name	gBW/Rel	OADSI	Milkfat	Protein	Volume	Fertility	SCC	O Opinion	Capacity	Udder O	Page
517055	Taramont **Springtide**	242/81	1345	44	42	838	-0.6	0.33	0.49	0.93	1.05	99
516074	Crossans **Critical**-ET	290/90	1318	38	38	888	2.2	-0.35	0.45	0.74	0.50	106
517060	Kegzys **Remarkable**	283/79	1314	43	30	327	2.3	-0.32	0.48	0.46	0.62	100
517042	Luck-at-Last **Inspired**-ET	301/81	1313	41	28	476	1.4	0.19	0.30	0.69	0.71	107
515025	Speakes **Slipstream** ET	317/86	1308	39	17	-10	6.6	-0.07	0.33	0.48	1.10	97
517001	Arkans **Patriarch**-ET	294/83	1299	38	18	5	3.0	0.20	0.34	0.28	1.07	105
516043	Arkans **Boombox**-ET	222/89	1281	23	32	729	0.7	-0.44	0.48	0.90	1.13	110
	Average	**278/98**	**1311**	**38**	**29**	**465**	**2.1**	**-0.07**	**0.41**	**0.64**	**0.88**	

** These bulls are available by breed in No Choice Packs from $18.90**
** If 10% InvestaMate discount applies (see page 124)*

12/02/2021

2021 Polled Bulls

Holstein-Friesian

Code	Name	gBW/Rel	Milkfat	Protein	Volume	Fertility	SCC	O Opinion	Udder O	A2 Protein	Gene
120091	Costers **Pollish** P S1F *	313/53	50	27	-89	2.3	0.11	0.49	0.42	A1A2	Pp
120053	Dicksons **Mr Poll** P ET S2F	254/53	31	30	388	2.8	-0.11	0.52	0.01	A1A2	Pp
115132	Costers **Polarise**-ET S3F ^	224/87	41	21	366	0.7	-0.22	0.47	0.13	A1A1	Pp
118086	Costers AB **Pollicy**-P S2F	199/59	22	19	203	4.6	-0.27	0.29	0.21	A1A1	Pp
120010	Costers P **Polljump** -PP S2F ^	193/47	24	23	389	2.3	-0.13	0.45	0.50	A1A1	PP
117037	Costers **Northpoll** PP S1F ^*	180/57	35	19	231	-1.9	-0.28	0.47	0.17	A1A1	PP
117036	Costers **Metropolis** P S2F	165/65	25	36	572	-2.0	0.10	0.16	-0.02	A1A2	Pp
120011	Costers CP **Pollitic**-P S2F ^	154/47	26	30	515	0.9	-0.14	0.53	0.30	A1A1	Pp
118069	Costers **Pollice** PP-ET S3F ↑	115/60	0	20	432	1.0	-0.40	0.35	0.31	A2A2	PP
	Average	**199/95**	**28**	**25**	**334**	**1.2**	**-0.15**	**0.41**	**0.23**		

KiwiCross®

Code	Name	gBW/Rel	Milkfat	Protein	Volume	Fertility	SCC	O Opinion	Udder O	A2 Protein	Gene
518008	Arkans **Polynesia**-P ^ F11J5	208/59	27	17	121	2.6	0.08	0.41	0.48	A1A2	Pp
517004	Arkans **Napolleon**-P F12J4	157/65	7	8	-198	5.3	-0.56	0.28	0.08	A1A2	Pp
517012	Arkans **Pollinator** P-ET F11J5	105/68	19	22	512	1.2	-0.36	0.26	-0.22	A2A2	Pp
	Average	**157/88**	**18**	**16**	**145**	**3.0**	**-0.28**	**0.32**	**0.11**		

These bulls are available by breed in No Choice Packs from $18.90, Individually $24.95 + gst per straw*

Polled Holstein-Friesian Also Available

Code	Name	gBW/Rel	Milkfat	Protein	Volume	Fertility	SCC	O Opinion	Udder O	A2 Protein	Gene
113058	Costers **Politician** S3F #	81/91	21	36	1009	-4.0	-0.01	0.33	0.31	A1A2	Pp
107110	Costers **Poll Axe**	72/98	10	14	260	0.2	-0.15	0.14	-0.05	A1A2	Pp
117002	Arkan **Pollisher** P-ET S2F	60/80	6	17	592	2.9	0.55	0.46	0.07	A2A2	Pp

*^ Recessive Fertility Gene carrier * CVM Carrier ↑ SCS Carrier # Red Factor Carrier*

These polled Also Available bulls are available individually at $8.95 + gst per straw
If 10% InvestaMate discount applies (see page 124)

12/02/2021

Q.

What's LIC's easiest, most cost effective herd improvement solution?

A.

Premier Sires®

LIC®

Potential 2021 Holstein-Friesian Premier Sires® **Forward Pack** Team

Sire	
117068	MEANDER SB **ARROW**-ET S2F
117051	BUSY BROOK SB **FORTUNE** S2F
116019	WERDERS DE **OVERTIME** S1F
117038	TANGLEWOOD GL **HARDY**
115021	GORDONS AM **LANCELOT** S3F
114007	BUSY BROOK WTP **VECTOR** S3F
120001	MILL-RIDGE TS **FINN**-ET S1F
120073	MEANDER TS **ALLOY**-ET S1F
119013	TANGLEWOOD MD **REEF**-ET S1F

Sire	
119003	BELLAMYS AB **GALAXY** S2F
119014	BUELIN BM **EQUATOR** S2F
120033	WAITARIA MASON **KYLE** S2F
120083	SPRING RIVER MH **BERT** S1F
120062	DIACKS BM **SOLUTION** S2F
120053	DICKSONS **MR POLL**-P-ET S2F
118031	DICKSONS HD **MYTH**-ET S1F
118068	BAGWORTH GI **ORIGINAL** S3F
120021	MCKAY BM **BAKERBOY**-ET S2F

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5	0	0.5	1	
Adapts to Milking	.36					quickly
Shed Temperament	.33					placid
Milking Speed	.21					fast
Overall Opinion	.45					desirable

Conformation		-0.5	0	0.5	1	
Stature	.45					tall
Capacity	.34					capacious
Rump Angle	-.02					sloping
Rump Width	.44					wide
Legs	.00					curved
Udder Support	.41					strong
Front Udder	.30					strong
Rear Udder	.32					high
FrontTeat Placement	.02					close
Rear Teat Placement	.25					close
Udder Overall	.35					desirable
Dairy Conformation	.42					desirable

gBW/Rel %	**$ 270/98**
Milkfat	**40 kgs**
Protein	**33 kgs**
Milk	**431 Litres**
Liveweight	**29 kgs**
Total Longevity	**549 days**
Milkfat %	**5.1%**
Protein %	**4.1%**
Heifer Calving Dif	**1.6%**
Cow Calving Dif	**0.4%**
Fertility	**2.8%**
SCC	**0.08**
BCS	**0.05**

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

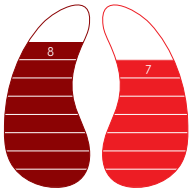
Date 12/02/2021

Shaded bulls include daughter information

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Potential 2021 Jersey Premier Sires® **Forward Pack** Team

Sire	
315008	PUKEROA AND **BARATONE** ET
316036	FOXTON PG **COYOTE** ET
313023	CRESCENT EXCELL **MONOPOLY**
315045	GLENUI DEGREE **HOSS** ET
320011	KAIMATARAU FLINT **POPEYE**
320029	ROCKLAND LQ **BERKLY**
320033	LYNBROOK CM **BOISTEROUS** ET
320020	THORNWOOD BANFF **TITUS**

Sire	
320030	GLENUI CM **LAZARO**
319009	ARKAN BT **ZAMBEZI** S3J
320035	SHELBY HOSS **LATITTUDE**
319020	GLENUI GB **LUCIAN**
319037	OKURA TIRONUI BT **MARCO** ET
318035	SHELBY BC **LOTTO** ET S3J
320200	THORNLEA MISTY **TOPSHOT** ET
318002	OKURA COYOTE **LENNOX** S3J

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5	0	0.5	1	
Adapts to Milking	.25					quickly
Shed Temperament	.28					placid
Milking Speed	.22					fast
Overall Opinion	.35					desirable

Conformation		-0.5	0	0.5	1	
Stature	-.72					tall
Capacity	.53					capacious
Rump Angle	-.10					sloping
Rump Width	-.02					wide
Legs	.10					curved
Udder Support	.31					strong
Front Udder	.44					strong
Rear Udder	.56					high
FrontTeat Placement	.07					close
Rear Teat Placement	-.15					close
Udder Overall	.52					desirable
Dairy Conformation	.49					desirable

gBW/Rel %	**$ 336/98**
Milkfat	**35 kgs**
Protein	**12 kgs**
Milk	**-389 Litres**
Liveweight	**-37 kgs**
Total Longevity	**468 days**
Milkfat %	**6.0%**
Protein %	**4.4%**
Heifer Calving Dif	**-1.8%**
Cow Calving Dif	**-0.8%**
Fertility	**3.2%**
SCC	**-0.11**
BCS	**0.18**

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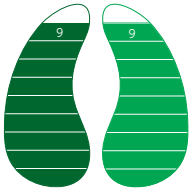
Date 12/02/2021

Shaded bulls include daughter information

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Potential 2021 KiwiCross® Premier Sires® **Forward Pack** Team (F8J8)

Sire	
517043	GLEN KORU **PROCLAIMER**-ET
517026	HOWSES **SPRINGFIELD**
516066	WALTON **INFERNO**
515025	SPEAKES **SLIPSTREAM** ET
517042	LUCK-AT-LAST **INSPIRED**-ET
514017	GLEN KORU **BECKON**
520011	AUAHI **BUSTLE**
518072	DEANS **PROFESSIONAL**
520008	JULIAN **MULTIPLIER**-ET
520083	GASKELLS **SWAGGER**-ET

Sire	
520089	BALDRICKS **SIGNIFICANT**
520047	SPRING RIVER **KOBE**-ET
518038	WERDERS **PREMONITION**
520037	GLENMEAD **MARVELLOUS**-ET
520068	MORGANS **MALAWI**
519011	SANDERS **ACCOLADE**
520034	CROSSANS **CHANCELLOR**-ET
520086	PENRITHS **SIR STRATHMORE**
520067	PALMERDELL **DELIGHT**
520071	BALANTIS **THRILLER**-ET

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5 0 0.5 1	
Adapts to Milking	.34		quickly
Shed Temperament	.34		placid
Milking Speed	.13		fast
Overall Opinion	.40		desirable
Conformation		**-0.5 0 0.5 1**	
Stature	-.03		tall
Capacity	.59		capacious
Rump Angle	-.11		sloping
Rump Width	.14		wide
Legs	.06		curved
Udder Support	.44		strong
Front Udder	.43		strong
Rear Udder	.43		high
FrontTeat Placement	.13		close
Rear Teat Placement	.34		close
Udder Overall	.48		desirable
Dairy Conformation	.56		desirable

gBW/Rel %	$ 323/98
Milkfat	44 kgs
Protein	28 kgs
Milk	227 Litres
Liveweight	2 kgs
Total Longevity	505 days
Milkfat %	5.5%
Protein %	4.2%
Heifer Calving Dif BV	0.4%
Cow Calving Dif BV	0.0%
Fertility	2.8%
SCC	-0.17
BCS	0.10

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

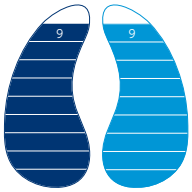
Date 12/02/2021

Shaded bulls include daughter information

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Potential 2021 Holstein-Friesian Premier Sires® **Daughter Proven** Team

Sire	
117068	MEANDER SB **ARROW**-ET S2F
117051	BUSY BROOK SB **FORTUNE** S2F
116019	WERDERS DE **OVERTIME** S1F
117038	TANGLEWOOD GL **HARDY**
115021	GORDONS AM **LANCELOT** S3F
117033	MCKENZIE SB **MIGHTYMAC** S2F
116015	PAYNES BG **ARCHIE** S1F
114007	BUSY BROOK WTP **VECTOR** S3F
115077	TAFTS WM **TRANQUIL**-ET

Sire	
116036	ARKAN MGH **BACKDROP**-ET S2F
117057	MAIRE GL **GRADUATE**-ET
117011	MO SB **POINTBLANK** S2F
115046	TRALEE GB **RESONATE**-ET S3F
116001	FOOTEHILLS BG **LINCOLN** S1F
117035	BELLAMYS MH **GAMBIT**-ET S2F
112032	JACLES BOY **JAKS** S2F
117088	SPRING RIVER OL **SCOUT** S2F
117090	TRONNOCO MH **SAMBA**-ET S3F

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5	0	0.5	1	
Adapts to Milking	.33					quickly
Shed Temperament	.30					placid
Milking Speed	.22					fast
Overall Opinion	.43					desirable

Conformation		-0.5	0	0.5	1	
Stature	.56					tall
Capacity	.45					capacious
Rump Angle	.00					sloping
Rump Width	.47					wide
Legs	.02					curved
Udder Support	.46					strong
Front Udder	.37					strong
Rear Udder	.31					high
FrontTeat Placement	.14					close
Rear Teat Placement	.34					close
Udder Overall	.42					desirable
Dairy Conformation	.50					desirable

gBW/Rel%	**$ 240/99**
Milkfat	**40 kgs**
Protein	**37 kgs**
Milk	**657 Litres**
Liveweight	**38 kgs**
Total Longevity	**496 days**
Milkfat %	**4.9%**
Protein %	**4.0%**
Heifer Calving Dif	**1.8%**
Cow Calving Dif	**0.9%**
Fertility	**1.5%**
SCC	**0.16**
BCS	**0.09**

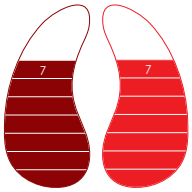
NB: the reliability of a team of bulls is always higher than using just one bull.

Date 12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Potential 2021 Jersey Premier Sires® **Daughter Proven** Team

Sire	
316039	ULMARRA TT **GALLIVANT**
315008	PUKEROA AND **BARATONE** ET
316036	FOXTON PG **COYOTE** ET
313023	CRESCENT EXCELL **MONOPOLY**
317052	LOCKHART OI **JOEL** JC15
315045	GLENUI DEGREE **HOSS** ET

Sire	
316009	TIRONUI LT **BESIEGE** ET
317060	PASPALUM OI **LIMELIGHT**
317006	WILLIAMS PCG **TENOR**
317061	LITTLE RIVER **TRIDENT** S3J
317041	FLAXMILL PCG **GALAXIE**
317049	SHELBY SS **LORENZO** S3J

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5	0	0.5	1	
Adapts to Milking	.29					quickly
Shed Temperament	.32					placid
Milking Speed	.20					fast
Overall Opinion	.37					desirable

Conformation		-0.5	0	0.5	1	
Stature	-.93					tall
Capacity	.49					capacious
Rump Angle	-.14					sloping
Rump Width	-.10					wide
Legs	.10					curved
Udder Support	.35					strong
Front Udder	.46					strong
Rear Udder	.63					high
FrontTeat Placement	.10					close
Rear Teat Placement	-.08					close
Udder Overall	.57					desirable
Dairy Conformation	.43					desirable

gBW/Rel%	**$ 321/99**
Milkfat	**31 kgs**
Protein	**12 kgs**
Milk	**-279 Litres**
Liveweight	**-49 kgs**
Total Longevity	**435 days**
Milkfat %	**5.8%**
Protein %	**4.3%**
Heifer Calving Dif	**-2.0%**
Cow Calving Dif	**-1.0%**
Fertility	**2.7%**
SCC	**-0.10**
BCS	**0.15**

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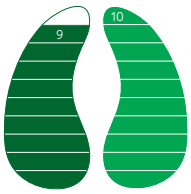
Date 12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Potential 2021 KiwiCross® Premier Sires® **Daughter Proven** Team (F9J7)

Sire	
517043	GLEN KORU **PROCLAIMER**-ET
517026	HOWSES **SPRINGFIELD**
516066	WALTON **INFERNO**
515025	SPEAKES **SLIPSTREAM** ET
517042	LUCK-AT-LAST **INSPIRED**-ET
514017	GLEN KORU **BECKON**

Sire	
517001	ARKANS **PATRIARCH**-ET
517073	LYNBROOK **KNOCKOUT**
516074	CROSSANS **CRITICAL**-ET
517060	KEGZYS **REMARKABLE**
517003	ARKANS **BATTLESHIP**
517069	BROOKSTEAD **CADENCE**

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5	0	0.5	1	
Adapts to Milking	.31					quickly
Shed Temperament	.29					placid
Milking Speed	.15					fast
Overall Opinion	.39					desirable
Conformation		-0.5	0	0.5	1	
Stature	-.11					tall
Capacity	.64					capacious
Rump Angle	.01					sloping
Rump Width	.18					wide
Legs	.08					curved
Udder Support	.50					strong
Front Udder	.52					strong
Rear Udder	.47					high
FrontTeat Placement	.21					close
Rear Teat Placement	.40					close
Udder Overall	.56					desirable
Dairy Conformation	.56					desirable

gBW/Rel%	**$ 309/99**
Milkfat	**42 kgs**
Protein	**28 kgs**
Milk	**297 Litres**
Liveweight	**0 kgs**
Total Longevity	**487 days**
Milkfat %	**5.3%**
Protein %	**4.2%**
Heifer Calving Dif	**0.3%**
Cow Calving Dif	**-0.4%**
Fertility	**2.6%**
SCC	**-0.20**
BCS	**0.10**

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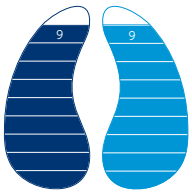
Date 12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Potential 2021 Holstein-Friesian Premier Sires® **A2A2** Team

Sire	
120002	MILL-RIDGE TS **FLEX**-ET S1F
120035	MAH SUPER **STARDUST** S1F
120031	BELLAMYS GG **GURU**-ET S1F
118053	GREENWELL GR **GOVERNOR** S1F
120055	DICKSONS VR **MERGER**-ET S1F
120088	BALDRICKS WD **INTEL**-ET S2F
119065	MEANDER TD **AZURE**-ET S1F

Sire	
120041	MAKKERS **MONEYMOON** S2F
120056	GARDNER BM **GUARDIAN** S2F
120080	TRONNOCO M **SAQUOON**-ET S3F
119081	BUSY BROOK **CONVICT**-ET S1F
119096	TRONNOCO MG **SPEROS**-ET
120045	WOODCOTE VHR **LUCID**-ET S1F
120063	MATTAJUDE VR **BRUTE**-ET S1F

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5	0	0.5	1	
Adapts to Milking	.40					quickly
Shed Temperament	.38					placid
Milking Speed	.25					fast
Overall Opinion	.51					desirable

Conformation		-0.5	0	0.5	1	
Stature	.72					tall
Capacity	.36					capacious
Rump Angle	-.17					sloping
Rump Width	.45					wide
Legs	-.05					curved
Udder Support	.52					strong
Front Udder	.50					strong
Rear Udder	.29					high
FrontTeat Placement	.25					close
Rear Teat Placement	.38					close
Udder Overall	.51					desirable
Dairy Conformation	.48					desirable

gBW/Rel%	**$ 248/97**
Milkfat	**43 kgs**
Protein	**35 kgs**
Milk	**570 Litres**
Liveweight	**44 kgs**
Total Longevity	**534 days**
Milkfat %	**5.1%**
Protein %	**4.0%**
Heifer Calving Dif	**2.4%**
Cow Calving Dif	**1.2%**
Fertility	**0.9%**
SCC	**0.04**
BCS	**0.04**

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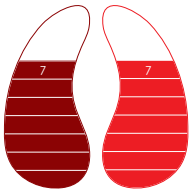
Date 12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Potential 2021 Holstein-Friesian Premier Sires® **Sexed** Team

Sire	
120005	CULGLEN BF **ILLUSION** S2F
118070	TAFTS GR **SUPERVISOR** S1F
120040	MAKKERS **BUDDYBOY** S2F
118001	WAIMATA SB **RANSOM**-ET S2F
119002	BELLAMYS DM **GALANT**-ET S1F
119048	RIVERBANK BBL **STATION** S1F
118042	DICKSONS MH **MASON**-ET S2F
118071	GLENMEAD SB **TRAPEZE** S1F

Sire	
120051	DICKSONS BM **METEOR**-ET S2F
120026	BELLAMYS DM **GLIDER**-ET S2F
120065	CAVALIER SS **RIVAL**-ET S2F
120037	SPRINGFIELD TS **COMBAT** S1F
119008	POTO GR **CHOICE** S1F
120064	JOHNSONS MH **ROULETTE** S2F
119049	WITTENHAM MG **ALPINE** S2F

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5	0	0.5	1	
Adapts to Milking	.45					quickly
Shed Temperament	.44					placid
Milking Speed	.16					fast
Overall Opinion	.52					desirable

Conformation		-0.5	0	0.5	1	
Stature	.43					tall
Capacity	.36					capacious
Rump Angle	-.11					sloping
Rump Width	.41					wide
Legs	-.02					curved
Udder Support	.40					strong
Front Udder	.38					strong
Rear Udder	.29					high
FrontTeat Placement	.16					close
Rear Teat Placement	.23					close
Udder Overall	.42					desirable
Dairy Conformation	.42					desirable

gBW/Rel %	**$ 244/97**
Milkfat	**35 kgs**
Protein	**34 kgs**
Milk	**581 Litres**
Liveweight	**29 kgs**
Total Longevity	**585 days**
Milkfat %	**4.9%**
Protein %	**4.0%**
Heifer Calving Dif	**0.8%**
Cow Calving Dif	**0.1%**
Fertility	**2.0%**
SCC	**-0.10**
BCS	**0.06**

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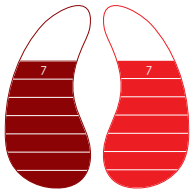
Date 12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Potential 2021 Jersey Premier Sires® **Sexed** Team

Sire	
320036	CHARTERIS COJACK **MAKA**
320027	CHARLTONS MISTY **MAGNIFY**
318021	GLANTON DESI **BANFF**
318009	TIRONUI **SUPERMAN** ET
319018	GLENUI GB **LANDIS**-ET
319066	TIRONUI GB **MONTAGE**-ET

Sire	
320039	CAWDOR CHIEF **SITTINGBULL**
319005	BRAEDENE FAV **TRANSPIRE**
320004	OKURA SL **LITIGATOR**
319008	ARKAN BT **ASTEROID**-ET S3J
320031	GLENUI WALKER **LEBRON** ET
318034	SHELBY BC **LUNAR** ET S3J

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5	0	0.5	1	
Adapts to Milking	.24					quickly
Shed Temperament	.26					placid
Milking Speed	.20					fast
Overall Opinion	.36					desirable
Conformation		-0.5	0	0.5	1	
Stature	-.69					tall
Capacity	.60					capacious
Rump Angle	-.20					sloping
Rump Width	.05					wide
Legs	.10					curved
Udder Support	.27					strong
Front Udder	.38					strong
Rear Udder	.47					high
FrontTeat Placement	.11					close
Rear Teat Placement	-.13					close
Udder Overall	.46					desirable
Dairy Conformation	.50					desirable

gBW/Rel %	**$ 332/96**
Milkfat	**33 kgs**
Protein	**11 kgs**
Milk	**-476 Litres**
Liveweight	**-33 kgs**
Total Longevity	**485 days**
Milkfat %	**6.1%**
Protein %	**4.5%**
Heifer Calving Dif	**-2.3%**
Cow Calving Dif	**-0.6%**
Fertility	**3.6%**
SCC	**-0.16**
BCS	**0.20**

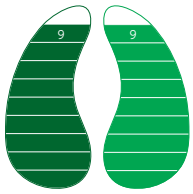
NB: the reliability of a team of bulls is always higher than using just one bull.

Date 12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Potential 2021 KiwiCross® Premier Sires® **Sexed** Team (F8J8)

Sire	
520033	DOWSON **HONENUI**-ET
520064	HURWORTH **HOT TODDY**
520044	WICKLOW **HIGH CHAPARRAL**
520038	GREENWELL **BACKGAMMON**
520078	SPRING RIVER **JORDY**
520090	CAWDOR **POUNAMU**
520057	BELLS **PIERCE**
520039	PIKO **SPOKESMAN**

Sire	
520054	PAYNES **PALATINE**-ET
520046	KOKOAMO **KILIMANJARO**
520020	ARKANS **PROSPECT**-ET
518016	HORIZON **ASCOTT**
520016	AUAHI **FIXER**
519078	BURGESS **PRESTIGE**-ET
520013	AUAHI **PATENT**-ET

WEIGHTED AVERAGES OF PREMIER SIRES

Management		-0.5	0	0.5	1	
Adapts to Milking	.29					quickly
Shed Temperament	.30					placid
Milking Speed	.07					fast
Overall Opinion	.34					desirable
Conformation		-0.5	0	0.5	1	
Stature	-.23					tall
Capacity	.53					capacious
Rump Angle	-.11					sloping
Rump Width	.07					wide
Legs	.08					curved
Udder Support	.40					strong
Front Udder	.42					strong
Rear Udder	.45					high
FrontTeat Placement	.06					close
Rear Teat Placement	.19					close
Udder Overall	.46					desirable
Dairy Conformation	.46					desirable

gBW/Rel %	**$ 320/97**
Milkfat	**37 kgs**
Protein	**25 kgs**
Milk	**22 Litres**
Liveweight	**-5 kgs**
Total Longevity	**591 days**
Milkfat %	**5.5%**
Protein %	**4.3%**
Heifer Calving Dif	**-0.2%**
Cow Calving Dif	**-0.3%**
Fertility	**2.7%**
SCC	**-0.07**
BCS	**0.13**

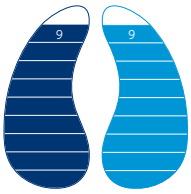
NB: the reliability of a team of bulls is always higher than using just one bull.

Date 12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Organic

LIC holds organic certification meaning LIC is an approved supplier to organic systems making it even easier to breed organic dairy cows.

Organic input certification provides reassurance that our semen products meet required international standards. For example, you can be sure no GE (genetic engineering) has gone in to the development of our product, and that all LIC processes and practices are environmentally sustainable.

Organic dairy farmers now have access to LIC's extensive range of top elite sires, without having to apply for dispensation.

The certification is restricted to all semen collected and processed at LIC (Milking Shorthorn, Brown Swiss and most beef breeds are excluded, while Beef Pack Hereford and Short Gestation Hereford are included).

Sexing Technologies who process LIC's Sexed Semen, also hold Organic certification meaning LIC's Sexed Semen can be used in organic systems.

Customate® Plus

You know your farm- the conditions, the climate and the animals that suit your system.

Alpha® gives you the ability to choose from the widest selection of high genetic merit bulls and with Customate® Plus you can create a programme capable of achieving those breeding goals most important to you.

Using Customate Plus, we can create your own breeding index, view your herd information down to each individual cow, and select any group of animals to mate. From there you choose the best team of bulls to meet your personalised objectives and we will enter constraints for the resulting progeny – all designed to push the boundaries within your own herd.

Into crossbreeding? Customate Plus can also maximise hybrid vigour for your crossbred matings. It couldn't be easier.

If you're ready to take total control of your breeding programme contact your Agri Manager or the Genetics team today.

- $2.60 per cow
- Minimum of 50 cows
- Automatic inbreeding, CVM and recessive gene protection
- A full comprehensive report is provided, along with an A3 laminated Mating Shed Sheet

Mycoplasma Bovis (M.Bovis)

LIC has no reason to believe that any of our bulls are infected, due to strict quarantine procedures and our close veterinarian monitoring. We will continue to test all sires marketed by LIC to provide a greater level of assurance and peace of mind. For further information please contact your LIC Agri Manager.

What is Mycoplasma Bovis?

- A bacterial disease found in cattle all over the world.
- No risk to humans or food.
- Leads to serious conditions in cattle.
- Spreads from animal to animal through close contact. Potentially spread on contaminated equipment and the feeding of untreated milk to calves. It is not windborne.
- Affected cattle will always be carriers of the disease
- Does not affect sheep or cause illness in goats although it is thought goats could carry and transmit it.

Q.

How can you improve the traits important to you at a faster rate?

A.

Alpha® Sires

LIC®

Holstein Friesian

TOP 5 Genomically Selected Rankings

Breeding Worth

National herd breed average
$ 48

Code	Name	gBW/Rel
120001	Mill-Ridge TS **Finn**-ET S1F	346/49
120073	Meander TS **Alloy**-ET S1F	323/55
120035	MAH Super **Stardust** S1F	303/51
120031	Bellamys GG **Guru**-ET S1F	302/52
118070	Tafts GR **Supervisor** S1F	276/59

Protein

National herd breed average
21 kg

Code	Name	gBV
118001	Waimata SB **Ransom**-ET S2F	52
120035	MAH Super **Stardust** S1F	48
120080	Tronnoco M **Saquoon**-ET S3F	44
119048	Riverbank BBL **Station** S1F	40
118070	Tafts GR **Supervisor** S1F	39

Fertility

National herd breed average
-0.4 %

Code	Name	gBV
120040	Makkers **Buddyboy** S2F	8.0
120001	Mill-Ridge TS **Finn**-ET S1F	5.8
119002	Bellamys DM **Galant**-ET S1F	4.3
118053	Greenwell GR **Governor** S1F	3.8
119014	Buelin BM **Equator** S2F	3.7

Capacity

National herd breed average
.16

Code	Name	gBV
118001	Waimata SB **Ransom**-ET S2F	.84
119002	Bellamys DM **Galant**-ET S1F	.68
120080	Tronnoco M **Saquoon**-ET S3F	.61
120021	McKay BM **Bakerboy**-ET S2F	.56
119014	Buelin BM **Equator** S2F	.51

Udder Overall

National herd breed average
.19

Code	Name	gBV
120080	Tronnoco M **Saquoon**-ET S3F	.86
118053	Greenwell GR **Governor** S1F	.76
119048	Riverbank BBL **Station** S1F	.65
120073	Meander TS **Alloy**-ET S1F	.58
119014	Buelin BM **Equator** S2F	.55

120001 Mill-Ridge TS **Finn**-ET S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

$346 gBW / 49% REL

Five-year-old dam. Owner: Millridge Limited, Ohaupo

Breeding Details

Breeder	B, S & K Fullerton		
Sire	Tafts GR Supervisor S1F	**MGS**	Muritai Mints Waseem
Dam	Mill-Ridge WAS Fay-RR S2F	**MGD**	GHDY-10-21
gBW/Rel	244/66	**gBW/Rel**	179/60
PW/Rel	520/79	**PW/Rel**	310/72

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
51 kg	32 kg	443 l	38 kg
5.3 %	4.1 %		

Robustness

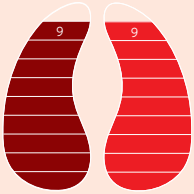
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.8 %	-0.10	0.25	216 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
739 days	1.3% / 17%	0.8% / 31%	-7.5 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.40				
Shed Temperament	.38				
Milking Speed	.20				
Overall Opinion	.53				
Stature	.38				
Capacity	.43				
Rump Angle	-.15				
Rump Width	.11				
Legs	-.03				
Udder Support	.37				
Front Udder	.52				
Rear Udder	.15				
Front Teat Placement	.01				
Rear Teat Placement	-.03				
Udder Overall	.38				
Dairy Conformation	.43				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1304	A2 Protein	A2A2
High Input	1349	% Black	95

120021 McKay BM **Bakerboy**-ET S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

$245 gBW / 60% REL

Breeding Details

Breeder	P & K Baker		
Sire	Bothwell WT Maxima S2F	**MGS**	Busy Brook Rastus-ET S3F
Dam	HGGF-13-4	**MGD**	HGGF-10-4
gBW/Rel	253/66	**gBW/Rel**	144/57
PW/Rel	425/76	**PW/Rel**	275/72

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
48 kg	35 kg	686 l	39 kg
5.0 %	4.0 %		

Robustness

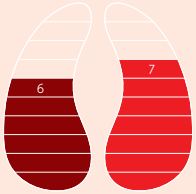
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.4 %	0.19	0.05	75 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
375 days	1.2% / 29%	0.6% / 32%	-1.6 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.64				
Shed Temperament	.58				
Milking Speed	.08				
Overall Opinion	.65				
Stature	.63				
Capacity	.56				
Rump Angle	.17				
Rump Width	.32				
Legs	.09				
Udder Support	.41				
Front Udder	.39				
Rear Udder	.29				
Front Teat Placement	.36				
Rear Teat Placement	.69				
Udder Overall	.48				
Dairy Conformation	.55				



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1273	A2 Protein	A1A2
High Input	1294	% Black	70

119014 Buelin BM **Equator** S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $267/61% REL

Six-year-old dam. Owner: CView Trust, Hawera

Breeding Details

Breeder	S Buhler		
Sire	Bothwell WT Maxima S2F	**MGS**	Fairmont Mint-Edition
Dam	Glen Koru FME Erica S3F	**MGD**	Glen Koru O-B Erin-ET S2F
gBW/Rel	320/69	**gBW/Rel**	177/67
PW/Rel	667/79	**PW/Rel**	267/80

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
51 kg	31 kg	608 l	47 kg
5.2 %	3.9 %		

Robustness

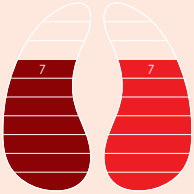
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.7 %	0.09	0.07	151 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
510 days	1.4% / 36%	0.0% / 73%	-7.1 days

Genomic TOP traits

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	.50	
Shed Temperament	.54	
Milking Speed	.14	
Overall Opinion	.59	
Stature	.74	
Capacity	.51	
Rump Angle	-.03	
Rump Width	.47	
Legs	-.15	
Udder Support	.60	
Front Udder	.35	
Rear Udder	.38	
Front Teat Placement	.17	
Rear Teat Placement	.37	
Udder Overall	.55	
Dairy Conformation	.60	



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1280	A2 Protein	A1A2
High Input	1317	% Black	30

120073 Meander TS **Alloy**-ET S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $323/55% REL

Seven-year-old dam. Owner: R & A Bruin, Otautau

Breeding Details

Breeder	R & A Bruin		
Sire	Tafts GR Supervisor S1F	**MGS**	Farside M Illustrious S3F
Dam	Meander FMI April S2F	**MGD**	Meander Justice AJA S1F
gBW/Rel	249/84	**gBW/Rel**	94/74
PW/Rel	584/82	**PW/Rel**	205/82

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
50 kg	32 kg	380 l	37 kg
5.4 %	4.1 %		

Robustness

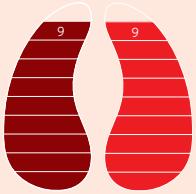
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.9 %	-0.10	0.09	346 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
726 days	2.8% / 27%	0.4% / 46%	-8.7 days

Genomic TOP traits

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	.54	
Shed Temperament	.46	
Milking Speed	.18	
Overall Opinion	.65	
Stature	.63	
Capacity	-.09	
Rump Angle	-.44	
Rump Width	.48	
Legs	-.16	
Udder Support	.62	
Front Udder	.33	
Rear Udder	.49	
Front Teat Placement	.13	
Rear Teat Placement	.04	
Udder Overall	.58	
Dairy Conformation	.09	



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1301	A2 Protein	A1A2
High Input	1318	% Black	90

Fertility 3 carrier

120031 Bellamys GG **Guru**-ET S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $302/52% REL

Breeding Details

Breeder	J & J Bellamy		
Sire	Greenwell GR Governor S1F	**MGS**	Valden HI Applause-ET S2F
Dam	DWNK-09-9	**MGD**	DWNK-07-81
gBW/Rel	220/73	**gBW/Rel**	135/62
PW/Rel	266/80	**PW/Rel**	286/76

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
43 kg	30 kg	356 l	20 kg
5.3 %	4.1 %		

Robustness

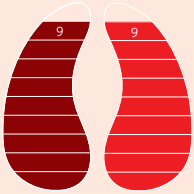
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.4 %	-0.11	0.03	384 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
707 days	3.2% / 24%	1.3% / 35%	-4.4 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.18				
Shed Temperament	.16				
Milking Speed	.10				
Overall Opinion	.26				
Stature	.41				
Capacity	-.09				
Rump Angle	.07				
Rump Width	.23				
Legs	-.13				
Udder Support	.42				
Front Udder	.20				
Rear Udder	.38				
Front Teat Placement	.21				
Rear Teat Placement	.51				
Udder Overall	.40				
Dairy Conformation	.05				



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1274	A2 Protein	A2A2
High Input	1277	% Black	35

Fertility 3 carrier

12/02/2021

120080 Tronnoco M **Saquoon**-ET S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $231/51% REL

Breeding Details

Breeder	T & K O'Connor		
Sire	Dicksons MH Mason-ET S2F	**MGS**	Maire Mint Fire-Up
Dam	Tronnoco Fire Sakela	**MGD**	Tronnoco Bruts Savila S3F
gBW/Rel	227/67	**gBW/Rel**	71/70
PW/Rel	448/72	**PW/Rel**	38/83

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
40 kg	44 kg	900 l	57 kg
4.7 %	4.0 %		

Robustness

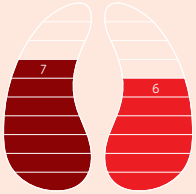
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.5 %	0.12	0.07	210 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
583 days	0.5% / 20%	0.0% / 33%	-0.1 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.48				
Shed Temperament	.49				
Milking Speed	.32				
Overall Opinion	.66				
Stature	.81				
Capacity	.61				
Rump Angle	-.20				
Rump Width	.07				
Legs	-.07				
Udder Support	.86				
Front Udder	.84				
Rear Udder	.54				
Front Teat Placement	.44				
Rear Teat Placement	.61				
Udder Overall	.86				
Dairy Conformation	.74				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1287	A2 Protein	A2A2
High Input	1321	% Black	80

119048 Riverbank BBL **Station** S1F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

$243 gBW / 55% REL

Breeding Details

Breeder	M & S Jackson		
Sire	Busy Brook HF Lynx-ET S1F	**MGS**	Van Heuvens VA Remedy S1F
Dam	CBVX-14-2	**MGD**	CBVX-07-48
gBW/Rel	189/67	**gBW/Rel**	119/60
PW/Rel	282/77	**PW/Rel**	142/76

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
41 kg	40 kg	844 l	15 kg
4.8 %	3.9 %		

Robustness

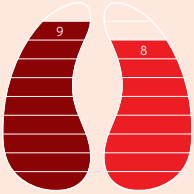
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-0.5 %	-0.39	-0.12	20 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
353 days	0.5% / 37%	-0.2% / 73%	-8.6 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.17				
Shed Temperament	.15				
Milking Speed	.07				
Overall Opinion	.26				
Stature	.53				
Capacity	.11				
Rump Angle	.13				
Rump Width	.54				
Legs	.22				
Udder Support	.70				
Front Udder	.60				
Rear Udder	.42				
Front Teat Placement	.36				
Rear Teat Placement	.71				
Udder Overall	.65				
Dairy Conformation	.35				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1306	A2 Protein	A2A2
High Input	1300	% Black	40

Fertility 4 carrier

118070 Tafts GR **Supervisor** S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

$276 gBW / 59% REL

Four-year-old dam. Owner G & L Taft, Te Puke

Breeding Details

Breeder	G & L Taft		
Sire	Galatea MGH Regiment S1F	**MGS**	Van Heuvens VA Remedy S1F
Dam	DRQ-14-3	**MGD**	DRQ-12-30
gBW/Rel	293/70	**gBW/Rel**	297/73
PW/Rel	385/71	**PW/Rel**	600/77

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
45 kg	39 kg	719 l	31 kg
4.9 %	4.0 %		

Robustness

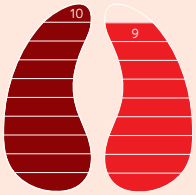
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-0.7 %	-0.01	-0.01	343 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
648 days	1.8% / 49%	1.0% / 93%	-11.3 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.70				
Shed Temperament	.66				
Milking Speed	.19				
Overall Opinion	.80				
Stature	.63				
Capacity	-.13				
Rump Angle	-.48				
Rump Width	.55				
Legs	-.09				
Udder Support	.41				
Front Udder	.59				
Rear Udder	.16				
Front Teat Placement	.05				
Rear Teat Placement	-.30				
Udder Overall	.45				
Dairy Conformation	.12				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1271	A2 Protein	A2A2
High Input	1270	% Black	95

119002 Bellamys DM **Galant**-ET S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

$258/58% gBW REL

Breeding Details

Breeder	J & J Bellamy		
Sire	Dicksons BG Mandate S1F	**MGS**	San Ray FM Beamer-ET S2F
Dam	DWNK-16-30	**MGD**	DWNK-09-9
gBW/Rel	273/67	**gBW/Rel**	220/73
PW/Rel	513/70	**PW/Rel**	266/80

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
40 kg	29 kg	277 l	50 kg
5.3 %	4.2 %		

Robustness

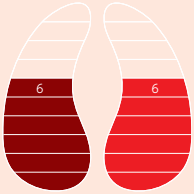
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.3 %	-0.47	0.04	135 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
537 days	0% / 48%	-0.4% / 80%	-1.4 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.06				
Shed Temperament	.02				
Milking Speed	-.06				
Overall Opinion	.12				
Stature	.78				
Capacity	.68				
Rump Angle	.20				
Rump Width	1.05				
Legs	.11				
Udder Support	.21				
Front Udder	.39				
Rear Udder	.21				
Front Teat Placement	.26				
Rear Teat Placement	.25				
Udder Overall	.34				
Dairy Conformation	.73				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1253	A2 Protein	A2A2
High Input	1283	% Black	40

Fertility 4 carrier

12/02/2021

118053 Greenwell GR **Governor** S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

$254/60% gBW REL

Five-year-old dam. Owner: Greenwell Farms No 1, Opotiki

Breeding Details

Breeder	A, A & P Looney		
Sire	Galatea MGH Regiment S1F	**MGS**	Farside M Illustrious S3F
Dam	CPR-13-1	**MGD**	Greenwell Blossom
gBW/Rel	270/74	**gBW/Rel**	71/89
PW/Rel	390/80	**PW/Rel**	196/85

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
32 kg	34 kg	416 l	41 kg
5.0 %	4.1 %		

Robustness

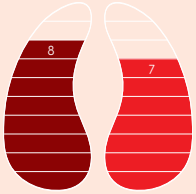
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.8 %	-0.28	0.07	303 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
703 days	4.3% / 51%	1.4% / 94%	-5.5 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.36				
Shed Temperament	.38				
Milking Speed	.10				
Overall Opinion	.48				
Stature	.88				
Capacity	-.07				
Rump Angle	-.24				
Rump Width	.56				
Legs	-.36				
Udder Support	.65				
Front Udder	.77				
Rear Udder	.42				
Front Teat Placement	.53				
Rear Teat Placement	.40				
Udder Overall	.76				
Dairy Conformation	.22				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1251	A2 Protein	A2A2
High Input	1276	% Black	45

120040 Makkers **Buddyboy** S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

$268/50% gBW REL

Breeding Details

Breeder	W & M Makker		
Sire	Bagworth GI Original S3F	**MGS**	Mullins GB Mariner S3F
Dam	PFC-16-34	**MGD**	PFC-10-28
gBW/Rel	180/66	**gBW/Rel**	225/65
PW/Rel	253/75	**PW/Rel**	424/80

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
36 kg	36 kg	486 l	49 kg
5.0 %	4.1 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
8.0 %	0.28	0.22	155 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
655 days	1.2% / 16%	0.0% / 32%	-4.5 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.04				
Shed Temperament	.05				
Milking Speed	-.07				
Overall Opinion	.19				
Stature	.64				
Capacity	.46				
Rump Angle	-.38				
Rump Width	.22				
Legs	-.03				
Udder Support	.34				
Front Udder	.24				
Rear Udder	.43				
Front Teat Placement	-.08				
Rear Teat Placement	-.10				
Udder Overall	.38				
Dairy Conformation	.60				

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1232	A2 Protein	A2A2
High Input	1303	% Black	95

Red Factor Carrier

118001 Waimata SB **Ransom**-ET S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

$264/59% gBW REL

Breeding Details

Breeder	A & S Stevenson		
Sire	Spring Tralee Bass-ET S2F	**MGS**	Farside M Illustrious S3F
Dam	Waimata 13-14 S1F	**MGD**	Waimata 10-4 S0F
gBW/Rel	199/68	**gBW/Rel**	138/64
PW/Rel	431/74	**PW/Rel**	327/76

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
38 kg	52 kg	1063 l	46 kg
4.5 %	4.0 %		

Robustness

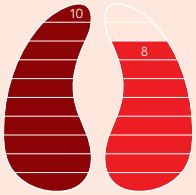
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-0.5 %	-0.20	0.14	270 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
695 days	1.0% / 34%	0.0% / 92%	-8.1 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.34				
Shed Temperament	.42				
Milking Speed	.15				
Overall Opinion	.54				
Stature	.56				
Capacity	.84				
Rump Angle	-.11				
Rump Width	.77				
Legs	-.19				
Udder Support	.36				
Front Udder	.19				
Rear Udder	.26				
Front Teat Placement	.21				
Rear Teat Placement	.28				
Udder Overall	.37				
Dairy Conformation	.78				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1289	A2 Protein	A2A2
High Input	1307	% Black	70

120035 MAH Super **Stardust** S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

$303/51% gBW REL

Breeding Details

Breeder	M & C Berkers		
Sire	Tafts GR Supervisor S1F	**MGS**	Hazael Dauntless Freedom
Dam	MAH HDF Starstruck-ET S3F	**MGD**	MAH Pierre Sixty-RR S2F
gBW/Rel	186/72	**gBW/Rel**	130/79
PW/Rel	354/80	**PW/Rel**	239/79

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
56 kg	48 kg	986 l	49 kg
4.9 %	4.0 %		

Robustness

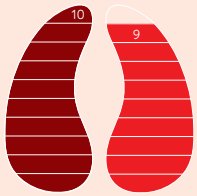
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-1.8 %	0.19	-0.01	398 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
713 days	3.0% / 19%	3.0% / 36%	-8.0 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	1.03				
Shed Temperament	.97				
Milking Speed	.53				
Overall Opinion	1.10				
Stature	.85				
Capacity	.22				
Rump Angle	-.23				
Rump Width	.42				
Legs	.02				
Udder Support	.47				
Front Udder	.55				
Rear Udder	-.02				
Front Teat Placement	.19				
Rear Teat Placement	.35				
Udder Overall	.37				
Dairy Conformation	.30				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1326	A2 Protein	A2A2
High Input	1316	% Black	90

12/02/2021

Genomically Selected

Want the very latest genetics?

Individually $31.95

Genomic Packs from $25.97*

*Includes 10% InvestaMate discount

2021 Yearling Bulls

This season the Alpha yearling bulls won't be selected until September.

Due to their age, the earliest these bulls can be collected from is mid-winter and this has caused some supply issues in the past. LIC has therefore decided to wait until straws have been collected before announcing the 2021 yearling sires.

Yearling bulls will be exclusively available for purchase via Alpha. So, if you're looking to fast track your genetic gain and/or want access to the yearling bulls our Bull Acquisition team are using, make sure you register your interest with your LIC Agri Manager. Alternatively view the bulls online in September lic.co.nz/alpha

TOP 5 Daughter Proven Rankings

Breeding Worth

National herd breed average
$ 48

Code	Name	gBW/Rel
117068	Meander SB **Arrow**-ET S2F	307/81
117051	Busy Brook SB **Fortune** S2F	267/80
116019	Werders DE **Overtime** S1F	265/88
117038	Tanglewood GL **Hardy**	261/79
115080	Westedge VHR **Sweet As** S2F	251/88

Protein

National herd breed average
21 kg

Code	Name	gBV
117015	Dicksons GF **Go-Getter**-ET	55
117011	MO SB **Pointblank** S2F	50
117090	Tronnoco MH **Samba**-ET S3F	50
117088	Spring River OL **Scout** S2F	45
115021	Gordons AM **Lancelot** S3F	42

Milkfat

National herd breed average
13 kg

Code	Name	gBV
117015	Dicksons GF **Go-Getter**-ET	59
116015	Paynes BG **Archie** S1F	55
115077	Tafts WM **Tranquil**-ET	52
115080	Westedge VHR **Sweet As** S2F	50
117011	MO SB **Pointblank** S2F	49

Milk Volume

National herd breed average
556 litres

Code	Name	gBV
117088	Spring River OL **Scout** S2F	1485
117015	Dicksons GF **Go-Getter**-ET	1301
117090	Tronnoco MH **Samba**-ET S3F	1180
117011	MO SB **Pointblank** S2F	1031
114007	Busy Brook WTP **Vector** S3F	1024

Fertility

National herd breed average
-0.4 %

Code	Name	gBV
114007	Busy Brook WTP **Vector** S3F	8.2
116108	Busy Brook MGH **Mordor** S2F	4.7
115046	Tralee GB **Resonate**-ET S3F	3.8
112032	Jacles Boy **Jaks** S2F	3.4
116036	Arkan MGH **Backdrop**-ET S2F	2.5

Total Longevity

National herd breed average
135 days

Code	Name	gBV
116108	Busy Brook MGH **Mordor** S2F	781
117035	Bellamys MH **Gambit**-ET S2F	766
116036	Arkan MGH **Backdrop**-ET S2F	758
117068	Meander SB **Arrow**-ET S2F	678
114007	Busy Brook WTP **Vector** S3F	610

Somatic Cell Score

National herd breed average
0.05

Code	Name	gBV
116076	Meander BR **Abraxas**-ET S2F	-0.29
114007	Busy Brook WTP **Vector** S3F	-0.27
115046	Tralee GB **Resonate**-ET S3F	-0.16
117015	Dicksons GF **Go-Getter**-ET	-0.16
116108	Busy Brook MGH **Mordor** S2F	0.04

Capacity

National herd breed average
.16

Code	Name	gBV
117015	Dicksons GF **Go-Getter**-ET	1.40
115077	Tafts WM **Tranquil**-ET	1.06
115107	Lightburn Blade **Gusto**	.93
112032	Jacles Boy **Jaks** S2F	.87
114007	Busy Brook WTP **Vector** S3F	.85

Udder Overall

National herd breed average
.19

Code	Name	gBV
117090	Tronnoco MH **Samba**-ET S3F	.89
115107	Lightburn Blade **Gusto**	.88
117068	Meander SB **Arrow**-ET S2F	.68
117015	Dicksons GF **Go-Getter**-ET	.65
116015	Paynes BG **Archie** S1F	.59

Overall Opinion

Sire breed average
.16

Code	Name	gBV
114007	Busy Brook WTP **Vector** S3F	.93
117088	Spring River OL **Scout** S2F	.82
117068	Meander SB **Arrow**-ET S2F	.77
115077	Tafts WM **Tranquil**-ET	.75
116076	Meander BR **Abraxas**-ET S2F	.65

117088 Spring River OL **Scout** S2F

Premier Sire | Top 5 protein | Genomic graduate

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $196/80 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: Elite Farms Limited, Te Aroha

Two-year-old daughter. Owner: Bellcon Farm Trust, Te Awamutu

Breeding Details

Breeder	P & D Lowe	**Dam**	Spring River P Suzy S1F
Sire	Oakline DI Legacy S2F	**MGS**	Uptons VA Priceless S1F

Production gBVs

106 Daughters 40 Herds

Production Efficiency

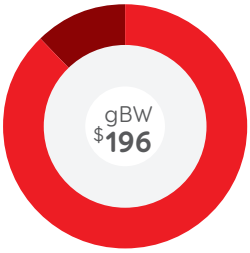
Milkfat	Protein	Milk Volume	Liveweight
43 kg	45 kg	1485 l	43 kg
4.3 %	3.6 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-1.0 %	0.15	0.12	192 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
503 days	4.2% / 53%	0.9% / 90%	2.4 days



Production efficiency	$175	89%
Robustness	$21	11%

TOP traits

102 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.56				
Shed Temperament	.49				
Milking Speed	.62				
Overall Opinion	.82				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.71				
Capacity	.45				
Rump Angle	-.52				
Rump Width	.10				
Legs	-.11				
Udder Support	.66				
Front Udder	.36				
Rear Udder	.33				
Front Teat Placement	.39				
Rear Teat Placement	.57				
Udder Overall	.57				
Dairy Conformation	.42				

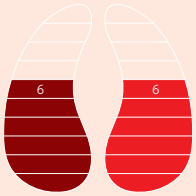
New Zealand Genetics 47 %

12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



LIC Initiatives

Once-A-Day	1263	A2 Protein	A2A2
High Input	1267	% Black	95

117068 Meander SB **Arrow**-ET S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

gBW $307/81% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Available in 4M

Premier Sire

Genomic graduate

Seven-year-old dam. Owner: R & A Bruin, Otautau

Breeding Details

Breeder	R & A Bruin	**Dam**	Meander FMI April S2F
Sire	San Ray FM Beamer-ET S2F	**MGS**	Farside M Illustrious S3F

Production gBVs

106 Daughters 40 Herds

Production Efficiency

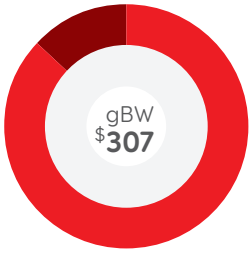
Milkfat	Protein	Milk Volume	Liveweight
44 kg	38 kg	455 l	25 kg
5.2 %	4.2 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.4 %	0.29	-0.01	319 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
678 days	1.1% / 84%	-0.5% / 94%	-6.6 days



Production efficiency	$271	88%
Robustness	$36	12%

TOP traits

104 Daughters TOP Inspected

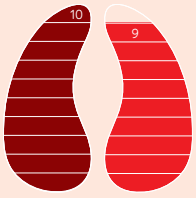
Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.66				
Shed Temperament	.58				
Milking Speed	.50				
Overall Opinion	.77				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.35				
Capacity	.25				
Rump Angle	-.20				
Rump Width	.76				
Legs	-.09				
Udder Support	.68				
Front Udder	.55				
Rear Udder	.67				
Front Teat Placement	.15				
Rear Teat Placement	.29				
Udder Overall	.68				
Dairy Conformation	.36				

New Zealand Genetics 32 %

12/02/2021

LIC Initiatives

Once-A-Day	1318	A2 Protein	A1A2
High Input	1335	% Black	65



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

116019 Werders DE **Overtime** S1F

Premier Sire | Top 5 gBW | Genomic graduate

Holstein-Friesian F16
Registered Pedigree (Supplementary)

gBW $265/88 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: D & S Crawford, Taupiri

Two-year-old daughter. Owner: J & S Shewan, Hamilton

Breeding Details

Breeder	T & C Werder	**Dam**	BMWJ-12-18
Sire	Dicksons Shade Empire S1F	**MGS**	Farside M Illustrious S3F

Production gBVs

695 Daughters 173 Herds

Production Efficiency

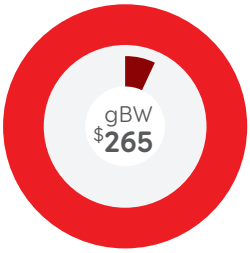
Milkfat	Protein	Milk Volume	Liveweight
43 kg	31 kg	382 l	-4 kg
5.2 %	4.1 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.7 %	0.61	-0.11	107 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
346 days	6.0% / 42%	1.7% / 92%	-7.6 days



Production efficiency	$283	107%
Robustness	-$18	-7%

TOP traits

95 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.27				
Shed Temperament	.28				
Milking Speed	.17				
Overall Opinion	.43				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.13				
Capacity	.16				
Rump Angle	-.07				
Rump Width	.01				
Legs	-.20				
Udder Support	.67				
Front Udder	.16				
Rear Udder	.66				
Front Teat Placement	.02				
Rear Teat Placement	.26				
Udder Overall	.53				
Dairy Conformation	.29				

New Zealand Genetics 41 %

12/02/2021

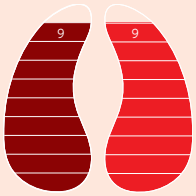
LIC Initiatives

Once-A-Day	1289	A2 Protein	A2A2
High Input	1303	% Black	80

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



117011 MO SB **Pointblank** S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

gBW $226/81% REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire | Top 5 protein | Top 5 milkfat

Breeding Details

Breeder	J Mulder & S O'Hearn	**Dam**	HRXR-13-9
Sire	San Ray FM Beamer-ET S2F	**MGS**	Greenwell TF Blitz-ET S3F

Production gBVs

118 Daughters 39 Herds

Production Efficiency

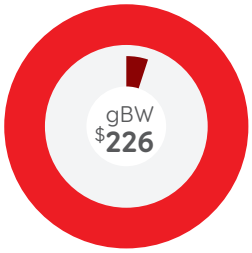
Milkfat	Protein	Milk Volume	Liveweight
49 kg	50 kg	1031 l	64 kg
4.7 %	4.0 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-1.0 %	0.16	0.00	9 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
325 days	1.5% / 35%	1.4% / 72%	-2.3 days



Production efficiency	$237	105%
Robustness	-$11	-5%

TOP traits

111 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.16				
Shed Temperament	.14				
Milking Speed	.02				
Overall Opinion	.24				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	1.13				
Capacity	.85				
Rump Angle	.04				
Rump Width	1.12				
Legs	-.01				
Udder Support	.48				
Front Udder	.23				
Rear Udder	.48				
Front Teat Placement	.41				
Rear Teat Placement	.39				
Udder Overall	.58				
Dairy Conformation	.96				

New Zealand Genetics 35 %

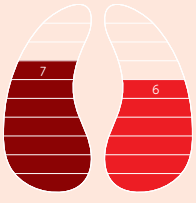
12/02/2021

LIC Initiatives

Once-A-Day	1298	A2 Protein	A2A2
High Input	1320	% Black	50

Two-year-old daughter. Owner: Skidelz Limited, Rotorua

Two-year-old daughter. Owner: Jakero Farms, Otorohanga



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

117051 BusyBrook SB **Fortune** S2F

Premier Sire | Top 5 gBW | Genomic graduate

Two-year-old daughter. Owner: Henderson Family Trust, Otorohanga

Two-year-old daughter. Owner: Henderson Family Trust, Otorohanga

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

gBW $267/80 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	Busybrook	**Dam**	Busy Brook Mill Fay S2F
Sire	San Ray FM Beamer-ET S2F	**MGS**	Gordons PF Millenium S1F

Production gBVs

105 Daughters 43 Herds

Production Efficiency

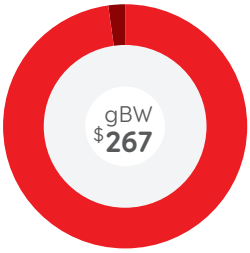
Milkfat	Protein	Milk Volume	Liveweight
42 kg	31 kg	316 l	12 kg
5.3 %	4.2 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.3 %	0.21	0.00	-8 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
326 days	0.2% / 37%	0.4% / 91%	-4.0 days



Production efficiency	$262	98%
Robustness	$5	2%

TOP traits

88 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.16				
Shed Temperament	.14				
Milking Speed	.39				
Overall Opinion	.35				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.28				
Capacity	.21				
Rump Angle	.39				
Rump Width	.92				
Legs	.08				
Udder Support	.31				
Front Udder	.35				
Rear Udder	.37				
Front Teat Placement	.18				
Rear Teat Placement	.23				
Udder Overall	.40				
Dairy Conformation	.40				

New Zealand Genetics 34 %

12/02/2021

LIC Initiatives

Once-A-Day	1280	A2 Protein	A1A2
High Input	1290	% Black	35

117090 Tronnoco MH **Samba**-ET S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $194/80% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Available in 4M

Premier Sire

Top 5 udders

Breeding Details

Breeder	T & K O'Connor	**Dam**	Tronnoco Maxi Sancha
Sire	Mourne Grove Hothouse S2F	**MGS**	Woodcote TF Maximiser

Production gBVs

93 Daughters 46 Herds

Production Efficiency

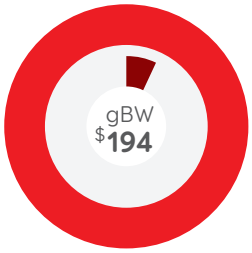
Milkfat	Protein	Milk Volume	Liveweight
36 kg	50 kg	1180 l	33 kg
4.4 %	3.9 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.3 %	0.31	-0.04	-8 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
314 days	3.1% / 35%	4.1% / 72%	-1.5 days



Production efficiency	$209	108%
Robustness	-$15	-8%

Two-year-old daughter. Owner: Bellcon Farm Trust, Te Awamutu

Two-year-old daughter. Owner: Bellcon Farm Trust, Te Awamutu

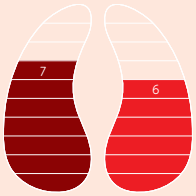
TOP traits

87 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.35				
Shed Temperament	.33				
Milking Speed	.04				
Overall Opinion	.50				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.72				
Capacity	.19				
Rump Angle	-.30				
Rump Width	.18				
Legs	-.14				
Udder Support	.69				
Front Udder	1.03				
Rear Udder	.52				
Front Teat Placement	.49				
Rear Teat Placement	.06				
Udder Overall	.89				
Dairy Conformation	.39				

New Zealand Genetics 33 %

12/02/2021



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1267	A2 Protein	A2A2
High Input	1290	% Black	90

Daughter Proven

115046 Tralee GB **Resonate**-ET S3F

Premier Sire | Top 5 fertility

Holstein-Friesian F16
Registered Pedigree (Supplementary)

gBW $219/87 % REL

Individually $30.95 +gst | Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: I & C Kitchingman, Thames

Two-year-old daughter. Owner: Stewart Farms (Te Tuhi) Ltd, Matamata

Breeding Details

Breeder	T & F Anderson	**Dam**	Busy Brook Geris Rave S2F
Sire	Greenwell FI Blade S3F	**MGS**	Delta NLD Gerris-ET

Production gBVs

92 Daughters 53 Herds

Production Efficiency

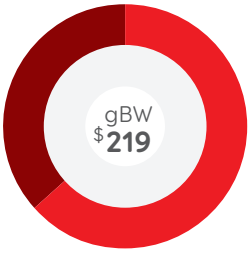
Milkfat	Protein	Milk Volume	Liveweight
28 kg	22 kg	255 l	32 kg
5.1 %	4.0 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.8 %	-0.16	0.24	209 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
574 days	0.4% / 93%	-0.3% / 93%	-3.3 days



Production efficiency	$144	66%
Robustness	$75	34%

TOP traits

82 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.15				
Shed Temperament	.12				
Milking Speed	.27				
Overall Opinion	.35				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.17				
Capacity	.51				
Rump Angle	-.26				
Rump Width	-.13				
Legs	.00				
Udder Support	.33				
Front Udder	.77				
Rear Udder	.12				
Front Teat Placement	.05				
Rear Teat Placement	-.06				
Udder Overall	.37				
Dairy Conformation	.37				

New Zealand Genetics 35 %

12/02/2021

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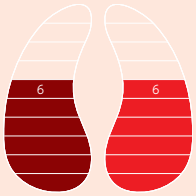
Methane Efficiency
Nitrogen Efficiency



LIC Initiatives

Once-A-Day	1197	A2 Protein	A1A2
High Input	1232	% Black	75

116001 Footehills BG **Lincoln** S1F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

gBW $216/84 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire

Genomic graduate

Breeding Details

Breeder	P & T Foote	**Dam**	DTXQ-09-111
Sire	Bagworth PF Grandeur S1F	**MGS**	Valden HI Applause-ET S2F

Production gBVs

80 Daughters 35 Herds

Production Efficiency

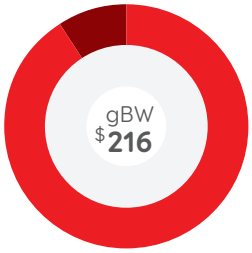
Milkfat	Protein	Milk Volume	Liveweight
43 kg	19 kg	268 l	26 kg
5.4 %	4.0 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.2 %	0.43	-0.05	268 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
427 days	1.2% / 38%	-0.3% / 84%	-0.7 days



Production efficiency	$202	94%
Robustness	$14	6%

TOP traits

77 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	-.06				
Shed Temperament	-.08				
Milking Speed	.22				
Overall Opinion	-.03				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.63				
Capacity	.37				
Rump Angle	.34				
Rump Width	.34				
Legs	.02				
Udder Support	.64				
Front Udder	.28				
Rear Udder	.25				
Front Teat Placement	.20				
Rear Teat Placement	.57				
Udder Overall	.46				
Dairy Conformation	.47				

New Zealand Genetics 48 %
Fertility 4 carrier

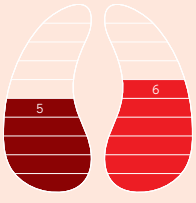
12/02/2021

LIC Initiatives

Once-A-Day	1230	A2 Protein	A1A2
High Input	1247	% Black	30

Three-year-old daughter. Owner: Piakau Farms Ltd,Stratford

Three-year-old daughter. Owner: Piakau Farms Ltd,Stratford



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

117038 Tanglewood GL **Hardy**

Holstein-Friesian F16

Registered Pedigree

gBW $261 REL 79%

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: Hartlands Livestock Ltd, Morrinsville

Breeding Details

Breeder	M & N Hawkings	**Dam**	Tangelwood Blitz Rain
Sire	Gordons AM Lancelot S3F	**MGS**	Greenwell TF Blitz-ET S3F

Production gBVs

90 Daughters 35 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
42 kg	39 kg	386 l	29 kg
5.2 %	4.3 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.0 %	0.17	-0.13	89 days

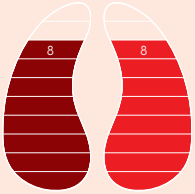
Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
387 days	2.2% / 29%	1.1% / 69%	-3.9 days

TOP traits

86 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.24				
Shed Temperament	.18				
Milking Speed	.15				
Overall Opinion	.23				
Stature	.58				
Capacity	.33				
Rump Angle	-.27				
Rump Width	.56				
Legs	.02				
Udder Support	.44				
Front Udder	.18				
Rear Udder	.28				
Front Teat Placement	-.46				
Rear Teat Placement	.53				
Udder Overall	.11				
Dairy Conformation	.52				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1285	A2 Protein	A1A2
High Input	1294	% Black	80

112032 Jacles Boy **Jaks** S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $209 REL 96%

Individually $28.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	J Elliot	**Dam**	MGPN-07-7
Sire	Maire PF Golden Boy S2F	**MGS**	Valden HI Applause-ET S2F

Production gBVs

3979 Daughters 1193 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
29 kg	27 kg	534 l	14 kg
4.8 %	3.9 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.4 %	0.18	0.09	203 days

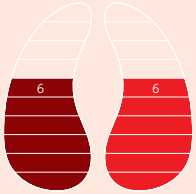
Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
519 days	-0.9% / 96%	-0.6% / 96%	-2.2 days

TOP traits

102 Daughters TOP Inspected

Management	gBV	-.5	0	.5	1.0
Adapts to Milking	.00				
Shed Temperament	.03				
Milking Speed	.00				
Overall Opinion	.13				
Stature	.03				
Capacity	.87				
Rump Angle	-.14				
Rump Width	.28				
Legs	.16				
Udder Support	.08				
Front Udder	.05				
Rear Udder	.03				
Front Teat Placement	.15				
Rear Teat Placement	.33				
Udder Overall	.13				
Dairy Conformation	.63				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1191	A2 Protein	A2A2
High Input	1226	% Black	40

115107 Lightburn Blade **Gusto**

Holstein-Friesian F16

Registered Pedigree

gBW $218/87 % REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Top 5 capacity

Top 5 udders

Breeding Details

Breeder	J & W Allen	**Dam**	Lightburn IN IG Greta-ET
Sire	Greenwell FI Blade S3F	**MGS**	Invernia TGF Ignition S3F

Production gBVs

105 Daughters 49 Herds

Production Efficiency

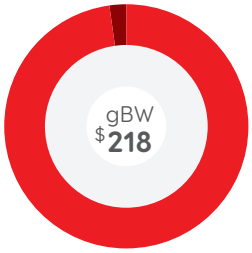
Milkfat	Protein	Milk Volume	Liveweight
38 kg	42 kg	609 l	52 kg
4.9 %	4.1 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.0 %	0.29	0.30	-115 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
258 days	5.6% / 31%	0.7% / 88%	1.7 days



Production efficiency	$210	96%
Robustness	$8	4%

Three-year-old daughter. Owner: A J & R P Flay Family Trust, Te Awamutu

Three-year-old daughter. Owner: J & S Shewan, Hamilton

TOP traits

100 Daughters TOP Inspected

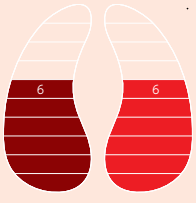
Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.43				
Shed Temperament	.42				
Milking Speed	.12				
Overall Opinion	.42				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.31				
Capacity	.93				
Rump Angle	-.16				
Rump Width	.24				
Legs	-.07				
Udder Support	.73				
Front Udder	.96				
Rear Udder	.63				
Front Teat Placement	.32				
Rear Teat Placement	.11				
Udder Overall	.88				
Dairy Conformation	.79				

New Zealand Genetics 37 %
Fertility 3 carrier

12/02/2021

LIC Initiatives

Once-A-Day	1279	A2 Protein	A1A2
High Input	1330	% Black	80



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

115080 Westedge VHR **Sweet As** S2F

Top 5 gBW

Top 5 milkfat

Three-year-old daughter. Owner: Bobcat Trust, Riverton

Two-year-old daughter. Owner: V Sorensen, Palmerston North

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $251/88 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	P & J Langdon	**Dam**	Rosie 3
Sire	VanHeuvens VA Remedy S1F	**MGS**	Fairmont Mint-Edition

Production gBVs

112 Daughters 39 Herds

Production Efficiency

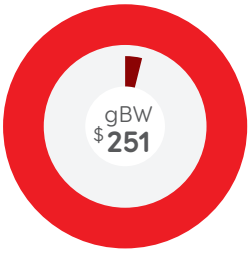
Milkfat	Protein	Milk Volume	Liveweight
50 kg	41 kg	755 l	40 kg
5.0 %	4.0 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-1.2 %	0.08	-0.05	46 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
331 days	4.6% / 47%	0.8% / 98%	-5.9 days



Production efficiency	$261	104%
Robustness	-$10	-4%

TOP traits

107 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.42				
Shed Temperament	.37				
Milking Speed	.31				
Overall Opinion	.56				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.59				
Capacity	.11				
Rump Angle	-.55				
Rump Width	.66				
Legs	.03				
Udder Support	.40				
Front Udder	.22				
Rear Udder	.09				
Front Teat Placement	-.24				
Rear Teat Placement	.09				
Udder Overall	.16				
Dairy Conformation	.31				

New Zealand Genetics 46 %

12/02/2021

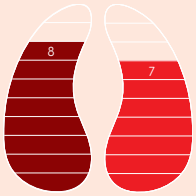
LIC Initiatives

Once-A-Day	1289	A2 Protein	A2A2
High Input	1282	% Black	50

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



117015 Dicksons GF **Go-Getter**-ET

Holstein-Friesian F16

Registered Pedigree

gBW $229/78 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Top 5 udder | Top 5 capacity | Top 5 protein

Two-year-old daughter. Owner: Newton Lee Willows Ltd, Morrinsville

Breeding Details

Breeder	M & J Dickson	**Dam**	Lightburn IGN Greta-ET
Sire	Greenwell SB Foray-ET S3F	**MGS**	Invernia TGF Ignition S3F

Production gBVs

85 Daughters 32 Herds

Production Efficiency

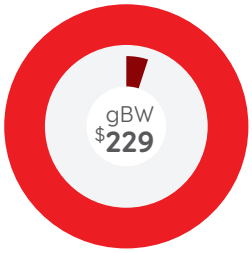
Milkfat	Protein	Milk Volume	Liveweight
59 kg	55 kg	1301 l	88 kg
4.7 %	3.9 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-4.9 %	-0.16	0.08	25 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
324 days	5.6% / 26%	2.2% / 68%	2.2 days



Production efficiency	$241	105%
Robustness	-$12	-5%

TOP traits

79 Daughters TOP Inspected

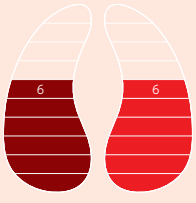
Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.38				
Shed Temperament	.46				
Milking Speed	.07				
Overall Opinion	.42				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	1.01				
Capacity	1.40				
Rump Angle	.15				
Rump Width	.43				
Legs	.07				
Udder Support	.70				
Front Udder	.56				
Rear Udder	.56				
Front Teat Placement	.20				
Rear Teat Placement	.45				
Udder Overall	.65				
Dairy Conformation	1.30				

New Zealand Genetics 36 %

12/02/2021

LIC Initiatives

Once-A-Day	1340	A2 Protein	A2A2
High Input	1358	% Black	35



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

115077 Tafts WM **Tranquil**-ET

Premier Sire | Top 5 capacity | Top 5 milkfat

Four-year-old dam. Owner: G & L Taft, Te Puke

Two-year-old daughter. Owner: Hermansen Family Trust, Reporoa

Holstein-Friesian F16

Registered Pedigree

gBW $240/90 % REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	G & L Taft	**Dam**	DRQ-10-10
Sire	Woodcote TF Maximiser	**MGS**	Fairmont Mint-Edition

Production gBVs

246 Daughters 87 Herds

Production Efficiency

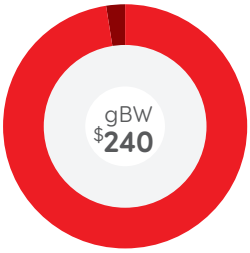
Milkfat	Protein	Milk Volume	Liveweight
52 kg	42 kg	796 l	63 kg
5.0 %	4.0 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-0.8 %	0.18	0.09	70 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
373 days	3.4% / 38%	1.9% / 68%	-5.2 days



Production efficiency	$235	98%
Robustness	$5	2%

TOP traits

91 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.58				
Shed Temperament	.56				
Milking Speed	.32				
Overall Opinion	.75				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.86				
Capacity	1.06				
Rump Angle	.29				
Rump Width	.71				
Legs	-.05				
Udder Support	.11				
Front Udder	-.06				
Rear Udder	.13				
Front Teat Placement	.03				
Rear Teat Placement	.11				
Udder Overall	.14				
Dairy Conformation	1.00				

New Zealand Genetics 30 %

12/02/2021

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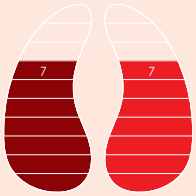
Methane Efficiency

Nitrogen Efficiency



LIC Initiatives

Once-A-Day	1276	A2 Protein	A2A2
High Input	1292	% Black	90

116108 Busybrook MGH **Mordor** S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $190/86 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Top 5 fertility | Top 5 longevity | Genomic graduate

Breeding Details

Breeder	Busybrook	**Dam**	Busy Brook VHA M-ET S3F
Sire	Mourne Grove Hothouse S2F	**MGS**	Valden HI Applause-ET S2F

Production gBVs

105 Daughters 41 Herds

Production Efficiency

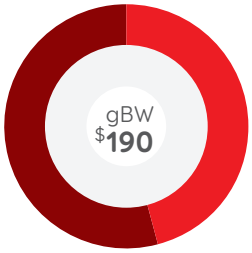
Milkfat	Protein	Milk Volume	Liveweight
23 kg	31 kg	861 l	40 kg
4.4 %	3.8 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.7 %	0.04	0.30	385 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
781 days	1.5% / 38%	1.5% / 76%	-0.2 days



Production efficiency	$93	49%
Robustness	$97	51%

TOP traits

102 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.25				
Shed Temperament	.24				
Milking Speed	-.08				
Overall Opinion	.41				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.73				
Capacity	.19				
Rump Angle	-.02				
Rump Width	-.24				
Legs	-.33				
Udder Support	.67				
Front Udder	.31				
Rear Udder	.37				
Front Teat Placement	.34				
Rear Teat Placement	.47				
Udder Overall	.58				
Dairy Conformation	.23				

New Zealand Genetics 38 %
Fertility 2 carrier

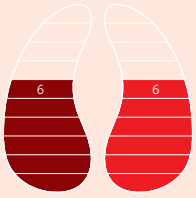
12/02/2021

LIC Initiatives

Once-A-Day	1166	A2 Protein	A2A2
High Input	1220	% Black	90

Four-year-old maternal grandam. Owner: Hazael Farms Ltd, Edendale

Two-year-old daughter. Owner: I & C Kitchingman, Thames



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

116076 Meander BR **Abraxas**-ET S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $210/85 % REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	R & A Bruin	**Dam**	Meander Mint Alice S1F
Sire	Busy Brook Revitup-ET S2F	**MGS**	Fairmont Mint-Edition

Production gBVs

99 Daughters 46 Herds

Production Efficiency

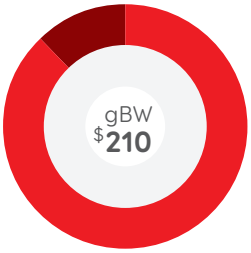
Milkfat	Protein	Milk Volume	Liveweight
39 kg	37 kg	862 l	40 kg
4.7 %	3.9 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-0.8 %	-0.29	0.07	96 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
411 days	0.3% / 30%	1.5% / 70%	-0.5 days



Production efficiency	$187	89%
Robustness	$23	11%

Two-year-old daughter. Owner: Paddock Wood Limited, Ashburton

Two-year-old daughter. Owner: Paddock Wood Limited, Ashburton

TOP traits

90 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.57				
Shed Temperament	.61				
Milking Speed	-.08				
Overall Opinion	.65				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.46				
Capacity	.68				
Rump Angle	.35				
Rump Width	.55				
Legs	.16				
Udder Support	.41				
Front Udder	-.02				
Rear Udder	.23				
Front Teat Placement	.26				
Rear Teat Placement	.96				
Udder Overall	.28				
Dairy Conformation	.55				

New Zealand Genetics 34 %

12/02/2021

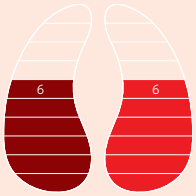
LIC Initiatives

Once-A-Day	1247	A2 Protein	A2A2
High Input	1259	% Black	85

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



117035 Bellamys MH **Gambit**-ET S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $211/80 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire | Top 5 longevity | Genomic graduate

Breeding Details

Breeder	J & J Bellamy	**Dam**	DWNK-09-9
Sire	Mourne Grove Hothouse S2F	**MGS**	Valden HI Applause-ET S2F

Production gBVs

98 Daughters 45 Herds

Production Efficiency

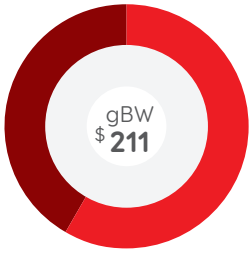
Milkfat	Protein	Milk Volume	Liveweight
31 kg	34 kg	756 l	54 kg
4.7 %	3.9 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.2 %	0.19	0.30	418 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
766 days	2.0% / 48%	2.3% / 86%	-3.8 days



Production efficiency	$131	62%
Robustness	$80	38%

TOP traits

83 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.49				
Shed Temperament	.46				
Milking Speed	.17				
Overall Opinion	.62				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.61				
Capacity	.27				
Rump Angle	-.11				
Rump Width	.19				
Legs	-.13				
Udder Support	.43				
Front Udder	.33				
Rear Udder	.37				
Front Teat Placement	.09				
Rear Teat Placement	-.12				
Udder Overall	.50				
Dairy Conformation	.26				

New Zealand Genetics 45 %
Fertility 3 carrier

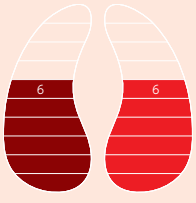
12/02/2021

LIC Initiatives

Once-A-Day	1183	A2 Protein	A2A2
High Input	1225	% Black	80

Two-year-old daughter. Owner: Newton Lee Willows Ltd, Morrinsville

Two-year-old daughter. Owner: Newton Lee Willows Ltd, Morrinsville



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

115021 Gordons AM **Lancelot** S3F

Premier Sire | Top 5 protein | Genomic graduate

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $248/96 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	S & S Gordon	**Dam**	BCCY-08-37
Sire	Aljo TEF Maelstrom-ET S3F	**MGS**	MacFarlanes Dauntless

Production gBVs

2729 Daughters 736 Herds

Production Efficiency

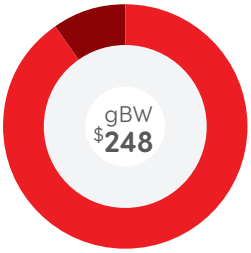
Milkfat	Protein	Milk Volume	Liveweight
38 kg	42 kg	682 l	35 kg
4.9 %	4.1 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.4 %	0.10	0.11	108 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
471 days	1.7% / 73%	1.3% / 97%	-1.9 days



Production efficiency	$227	92%
Robustness	$21	8%

Two-year-old daughter. Owner: Lightburn Ltd, Palmerston North

Seven-year-old dam. Owner: S & S Gordon, Morrinsville

TOP traits

136 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.38				
Shed Temperament	.30				
Milking Speed	.12				
Overall Opinion	.24				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.58				
Capacity	.54				
Rump Angle	.29				
Rump Width	.50				
Legs	-.02				
Udder Support	.48				
Front Udder	.49				
Rear Udder	.19				
Front Teat Placement	.00				
Rear Teat Placement	.56				
Udder Overall	.26				
Dairy Conformation	.59				

New Zealand Genetics 35 %

12/02/2021

LIC Initiatives

Once-A-Day	1272	A2 Protein	A1A1
High Input	1293	% Black	80

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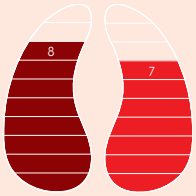
Methane Efficiency

Nitrogen Efficiency



116015 Paynes BG **Archie** S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $242/85 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire | Top 5 udders | Top 5 milkfat

Breeding Details

Breeder	B Payne	**Dam**	Paynes FME Pansy S3F
Sire	Bagworth PF Grandeur S1F	**MGS**	Fairmont Mint-Edition

Production gBVs

93 Daughters 36 Herds

Production Efficiency

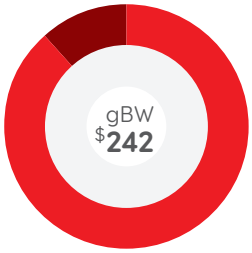
Milkfat	Protein	Milk Volume	Liveweight
55 kg	33 kg	843 l	55 kg
5.0 %	3.8 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-1.5 %	0.19	-0.05	411 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
600 days	2.2% / 37%	2.1% / 69%	2.5 days



Production efficiency	$220	91%
Robustness	$22	9%

TOP traits

89 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.15				
Shed Temperament	.17				
Milking Speed	.15				
Overall Opinion	.37				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	1.06				
Capacity	.23				
Rump Angle	.01				
Rump Width	1.04				
Legs	.36				
Udder Support	.66				
Front Udder	.57				
Rear Udder	.48				
Front Teat Placement	.20				
Rear Teat Placement	.73				
Udder Overall	.59				
Dairy Conformation	.42				

New Zealand Genetics 40 %

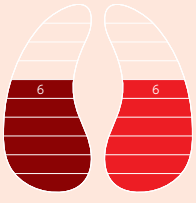
12/02/2021

LIC Initiatives

Once-A-Day	1265	A2 Protein	A1A2
High Input	1271	% Black	80

Two-year-old daughter. Owner: Skidelz Limited, Rotorua

Two-year-old daughter. Owner: Skidelz Limited, Rotorua



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

116036 Arkan MGH **Backdrop**-ET S2F

Premier Sire | Top 5 fertility | Genomic graduate

Three-year-old dam. Owner: S & K Anderson, Otorohanga

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

gBW $235/91% REL

Individually $28.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	S & K Anderson	**Dam**	Arkan FME Bustle-ET S2F
Sire	Mourne Grove Hothouse S2F	**MGS**	Fairmont Mint-Edition

Production gBVs

1894 Daughters 633 Herds

Production Efficiency

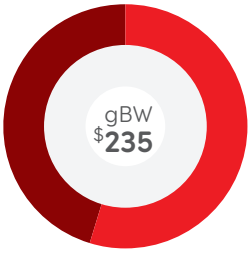
Milkfat	Protein	Milk Volume	Liveweight
26 kg	28 kg	257 l	52 kg
5.0 %	4.2 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.5 %	0.04	0.52	341 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
758 days	-1.6% / 69%	0.1% / 94%	-6.6 days



Production efficiency	$133	57%
Robustness	$102	43%

TOP traits

117 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.52				
Shed Temperament	.52				
Milking Speed	.17				
Overall Opinion	.54				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.56				
Capacity	.29				
Rump Angle	-.16				
Rump Width	-.04				
Legs	-.09				
Udder Support	.24				
Front Udder	.28				
Rear Udder	-.02				
Front Teat Placement	.24				
Rear Teat Placement	-.04				
Udder Overall	.29				
Dairy Conformation	.19				

New Zealand Genetics 37 %

12/02/2021

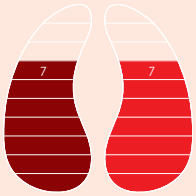
LIC Initiatives

Once-A-Day	1174	A2 Protein	A1A2
High Input	1220	% Black	95

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



Daughter Proven

114007 Busybrook WTP **Vector** S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $240/87% REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire | #1 fertility bull | Top 5 capacity

Breeding Details

Breeder	Busybrook	**Dam**	Busy Brook GB Vivien S2F
Sire	Wearnes FE Te Poi S3F	**MGS**	Maire PF Golden Boy S2F

Production gBVs

102 Daughters 49 Herds

Production Efficiency

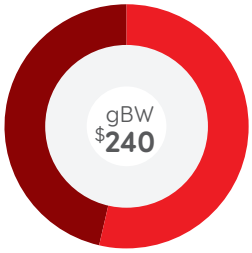
Milkfat	Protein	Milk Volume	Liveweight
44 kg	42 kg	1024 l	95 kg
4.7 %	3.8 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
8.2 %	-0.27	0.45	1 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
610 days	0.7% / 83%	0.0% / 98%	-1.9 days



Production efficiency	$135	56%
Robustness	$105	44%

TOP traits

88 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.82				
Shed Temperament	.85				
Milking Speed	.39				
Overall Opinion	.93				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	1.11				
Capacity	.85				
Rump Angle	.13				
Rump Width	.70				
Legs	.18				
Udder Support	.39				
Front Udder	.43				
Rear Udder	.13				
Front Teat Placement	.08				
Rear Teat Placement	-.14				
Udder Overall	.42				
Dairy Conformation	.76				

New Zealand Genetics 35 %
Fertility 4 carrier

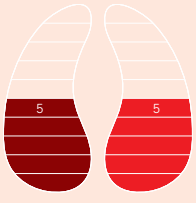
12/02/2021

LIC Initiatives

Once-A-Day	1247	A2 Protein	A1A1
High Input	1318	% Black	90

Two-year-old daughter. Owner: Monte Vista Farms, Inglewood

Two-year-old daughter. Owner: Monte Vista Farms, Inglewood



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

111037 San Ray FM **Beamer**-ET S2F

Holstein-Friesian F14J2

Registered Pedigree (Supplementary)

gBW $226/99% REL

- A1A2
- Capacious daughters
- Great production

Two-year-old daughter. Owner: Barker Farms Ltd, Paeroa

Breeding Details

Breeder	R & S Hocking	**Dam**	SRB Keredene Skelton Bust
Sire	Fairmont Mint-Edition	**MGS**	SRC Hibi Secret Skelton

Production gBVs

87575 Daughters 6048 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
40 kg	40 kg	790 l	38 kg	1.6 %
4.8 %	4.0 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
0.40	0.03	434 days	0.3% / 99%	-4.1 days

TOP traits

1580 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.26				
Capacity	.79				
Udder Overall	.53				
Dairy Conformation	.87				

111067 Byreburn PF **Eternal** S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $195/99% REL

- A2A2
- Excellent longevity
- Easier calving

SCS carrier

Two-year-old daughter. Owner: Birchlands Holdings Ltd, Morrinsville

Breeding Details

Breeder	B & J Guy	**Dam**	Byreburn MD Oprah-RR
Sire	Puketiro Frostman S1F	**MGS**	MacFarlanes Dauntless

Production gBVs

17713 Daughters 3304 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
29 kg	25 kg	637 l	32 kg	-0.6 %
4.7 %	3.8 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.31	0.30	621 days	0.0% / 97%	0.0 days

TOP traits

220 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.15				
Capacity	.40				
Udder Overall	.10				
Dairy Conformation	.31				

115062 Paalvasts MT **Cyclone** S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW $217/87% REL

- A1A1
- Well liked by farmers
- Good longevity

Fertility3 carrier

Two-year-old daughter. Owner: C H Land Limited, Matamata

Breeding Details

Breeder	L & S Paalvast	**Dam**	DVDP-11-109
Sire	Mitchells WT Typhoon S2F	**MGS**	Fairmont Mint-Edition

Production gBVs

112 Daughters 52 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
49 kg	29 kg	710 l	43 kg	0.7 %
5.0 %	3.8 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
0.12	0.00	332 days	-0.2% / 84%	-2.6 days

TOP traits

101 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.53				
Capacity	.22				
Udder Overall	.49				
Dairy Conformation	.27				

114123 Backhouse EO **Gravity** S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

gBW $182/87% REL

- A2A2
- Good udders
- Easier calving

Three -year-old daughter. Owner: J & H Robinson, Palmerston North

Breeding Details

Breeder	K & J Backhouse	**Dam**	HVX-10-102
Sire	Edwards Banq Ovation S3F	**MGS**	Valden HI Applause-ET S2F

Production gBVs

93 Daughters 40 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
32 kg	22 kg	440 l	21 kg	0.2 %
5.0 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.25	0.11	275 days	0.5% / 85 %	3.4 days

TOP traits

91 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.06				
Capacity	.24				
Udder Overall	.47				
Dairy Conformation	.11				

Individually $21.80 +gst

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*Includes 10% InvestaMate discount

12/02/2021

114041 Mitchells KE **Hustler** S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

$165/86 gBW % REL

- A2A2
- Good fertility
- Well liked by farmers

Fertility2 carrier

Two-year old daughter. Owner: GV & R Ballard Trust No 1, Taupiri

Breeding Details

Breeder	C & E Mitchell	**Dam**	LHVV-10-53
Sire	Kaimore Hero Earnie S2F	**MGS**	Hazael Draco Monarch S3F

Production gBVs — 90 Daughters 47 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
31 kg	26 kg	469 l	36 kg	2.3 %
4.9 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
0.25	0.12	270 days	-0.3% / 93%	-2.5 days

TOP traits — 76 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.50				
Capacity	.33				
Udder Overall	.33				
Dairy Conformation	.36				

113120 Bothwell WT **Maxima** S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

$185/98 gBW % REL

- A1A2
- Excellent udders
- Great longevity

Two-year-old daughter. Owner: J S R Dairy, Mangakino

Breeding Details

Breeder	Goodwright Family	**Dam**	KLW-08-26
Sire	Waiau Max Tommo S3F	**MGS**	SRD Whinlea KL Eclipse-ET

Production gBVs — 7267 Daughters 1805 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
30 kg	22 kg	479 l	9 kg	1.4 %
4.9 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.17	0.00	325 days	0.4% / 98%	-1.4 days

TOP traits — 210 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.48				
Capacity	.39				
Udder Overall	.86				
Dairy Conformation	.44				

115023 Tanglewood MT **Kauri** S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

$198/86 gBW % REL

- A1A2
- Good fertility
- Great longevity

Fertility2 carrier / Red Factor carrier

Two-year-old daughter. Owner: Dowson Farms, Tauranga

Breeding Details

Breeder	M & N Hawkings	**Dam**	Tanglewood M Kora-RR S3F
Sire	Mitchells WT Typhoon S2F	**MGS**	SRC Lakeside DG Magic

Production gBVs — 86 Daughters 41 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
30 kg	21 kg	209 l	47 kg	3.2 %
5.2 %	4.1 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.16	0.14	551 days	1.6% / 73%	-0.2 days

TOP traits — 73 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.40				
Capacity	.19				
Udder Overall	.39				
Dairy Conformation	.31				

116118 Lightburn B **Malbec**-ET S3F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

$186/85 gBW % REL

- A1A2
- Extreme udders
- Good fertility

Two-year-old daughter. Owner: Hartlands Livestock Limited, Morrinsville

Breeding Details

Breeder	J & W Allen	**Dam**	Lightburn Maxette-ET
Sire	San Ray FM Beamer-ET S2F	**MGS**	Woodcote TF Maximiser

Production gBVs — 96 Daughters 40 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
31 kg	34 kg	525 l	59 kg	2.2 %
4.9 %	4.1 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.25	0.21	346 days	2.5% / 70%	0.2 days

TOP traits — 91 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.45				
Capacity	.82				
Udder Overall	1.19				
Dairy Conformation	.91				

Individually $21.80 +gst

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*Includes 10% InvestaMate discount

12/02/2021

Holstein-Friesian Also Available

12/02/2021

		gBW	Rel.	Milkfat gBV	Protein gBV	Milk Volume gBV	Liveweight gBV	Fertility gBV	SCC gBV	Total Longevity gBV	Overall Opinion gBV	Capacity gBV	Udder Overall gBV	Cow Calving Difficulty gBV	Cow Calving Difficulty Rel.	Gestation Length gBV	A2 Protein	Price (+GST)
117021	Tafts TT **Official**-ET S2F	251	79	49	34	898	28	-0.8	-0.55	396	0.20	-0.29	0.58	2.3	88	-3.8	A1A2	$21.80
114106	Hazael FI **Jubilee** S3F^	242	87	41	36	474	19	0.5	0.36	302	0.28	-0.08	-0.08	-0.2	81	-7.0	A1A2	$21.80
116124	Spring Tralee **Beat**-ET S1F^	240	92	31	36	672	5	1.2	0.30	434	0.57	0.41	-0.02	0.0	84	-3.5	A2A2	$21.80
114032	Woodcote FI **Mastermind**	238	87	57	34	672	55	-2.7	0.01	289	0.39	0.20	0.54	1.3	96	-3.5	A1A2	$21.80
117083	Busy Brook HF **Lynx**-ET S1F	230	82	49	46	1193	16	-6.1	-0.44	207	0.69	0.15	0.55	0.2	78	-6.6	A1A2	$21.80
116122	Spring Tralee **Bass**-ET S2F	225	90	30	39	1014	15	3.7	-0.22	512	0.40	0.74	0.25	0.9	87	-3.6	A1A2	$21.80
117082	Mullins SB **Revolution** S2F	222	80	39	43	951	44	0.8	0.08	428	0.04	0.46	0.06	2.0	84	-0.7	A2A2	$21.80
114089	Mossops GB **Playmaker**	215	87	56	34	488	54	-2.9	0.75	120	0.12	0.64	0.42	1.7	92	-1.2	A2A2	$18.95
111036	Arkan FM **Buster**-ET S2F	212	98	35	20	267	24	3.3	0.26	439	0.29	0.41	0.23	0.4	99	-2.1	A1A2	$18.95
117052	Busy Brook SB **Fortify** S2F	207	80	49	50	1567	48	-1.2	-0.27	362	0.30	0.36	0.46	1.7	73	-5.4	A1A2	$18.95
116078	Meander SB **Alamo** S2F	198	86	39	45	931	70	2.4	0.43	465	0.34	0.84	0.27	-0.2	71	-0.5	A1A2	$18.95
117066	Meander TT **Asset**-ET S2F	198	79	29	34	691	4	1.5	0.00	251	0.37	-0.67	0.46	0.5	79	-4.4	A1A2	$16.95
114081	Tirohanga WTP **Flash** S3F	194	91	33	38	763	29	3.9	0.42	389	0.50	0.22	0.23	0.5	91	-0.1	A1A1	$16.95
113043	Adams BR **Ultimate** S3F^	193	87	36	21	453	31	1.6	0.36	480	0.64	0.50	0.38	0.6	93	0.6	A1A2	$16.95
115017	Langevelds SRB **Valour** S2F^	192	94	39	35	865	73	3.9	0.13	574	0.05	0.55	0.38	0.2	84	-1.2	A1A1	$16.95
116016	Galatea MGH **Regiment** S1F	184	90	18	37	732	19	1.9	0.01	591	0.85	-0.30	0.95	1.2	88	-5.6	A2A2	$16.95
114023	Arkan Ran **Bandito** S3F^	181	87	27	33	481	40	-1.5	-0.41	329	0.38	0.65	0.43	0.5	90	-3.1	A1A2	$16.95
117009	Paynes MH **Austin**-ET S2F	177	80	19	34	628	41	2.6	0.21	662	0.44	0.11	0.54	0.5	82	-3.6	A2A2	$14.95
116065	Dicksons BG **Mandate** S1F	176	92	18	10	-101	19	3.3	-0.23	642	0.22	0.53	0.67	-0.3	96	-2.0	A2A2	$14.95
113042	Charltons FI **Finalcut** S2F^	172	98	34	14	56	64	4.8	-0.04	399	0.32	0.27	0.69	0.7	88	-3.4	A1A2	$14.95
116114	Lightburn GB **Dylan**-ET S3F	171	85	39	41	848	44	-2.1	0.47	223	0.35	0.61	0.38	3.6	70	-2.1	A1A1	$14.95
116066	Dicksons GI **Escalade** S3F	171	85	27	26	436	55	3.9	0.07	560	0.34	0.36	0.69	2.3	69	3.8	A1A2	$14.95
116060	On-Der-Rey MA **Approve** S2F	170	85	17	44	1043	27	2.5	-0.09	493	0.41	0.71	0.36	0.7	70	2.0	A2A2	$14.95
115112	Kingsdown AM **Jaxon**-ET S2F	170	89	50	51	1365	62	-2.6	0.30	179	0.40	0.32	0.51	0.5	86	-2.0	A1A2	$14.95
114057	Maire FI **Golddigger** ^	167	88	44	41	1087	73	-2.2	-0.05	316	0.57	0.94	1.18	0.6	95	-4.4	A1A2	$14.95
117045	Telesis MH **Player** S2F	161	80	25	43	1106	32	0.1	0.31	526	0.47	0.28	0.73	-0.6	73	-3.5	A1A2	$14.95
113070	Greenwell FI **Blade** S3F ^	159	98	26	32	480	42	0.5	0.13	232	0.31	0.54	0.83	0.6	96	-4.0	A1A2	$14.95
116035	Arkan MGH **Bestseller** S2F	158	90	19	47	1084	18	1.2	0.47	484	0.28	-0.04	0.61	0.1	91	-4.3	A2A2	$14.95
116126	Tronnoco GI **Spike**-ET S3F*	158	85	33	43	1285	20	-2.7	0.37	362	0.19	-0.12	0.23	0.3	91	1.2	A2A2	$14.95
115043	Hyjinks AM **Deejay** S1F #	156	95	33	37	874	51	1.2	0.12	280	0.48	0.10	0.54	0.1	78	-4.0	A1A2	$14.95
110042	Morris TF **Lamont** S1F^	156	98	21	41	711	20	-0.9	0.35	169	0.54	0.63	0.00	0.4	99	-3.4	A1A2	$14.95
116051	White Cliffs ML **Bowie** S1F	156	84	27	45	1028	37	3.4	0.20	182	0.57	0.20	0.59	0.8	68	-7.7	A1A2	$14.95
115054	Meander SB **Wingman**-ET S3F	154	92	25	23	479	12	-1.3	-0.22	413	0.25	-0.07	1.21	0.3	91	-4.0	A1A2	$14.95
111011	Ashdale FM **Kelsbells** S1F	153	98	16	32	565	37	3.7	-0.07	505	0.47	0.29	0.20	0.6	99	-1.4	A1A2	$14.95
115068	Hodges GFB **Cutlass** S3F^#	152	84	28	23	119	37	1.1	0.16	114	0.23	0.13	0.98	1.0	81	1.5	A1A2	$14.95
113046	Meander **Rocketman**-ET S1F	151	92	25	21	179	23	-1.3	-0.07	237	0.13	0.33	0.54	-0.4	91	-0.3	A1A2	$14.95
110063	Maire PF **Golden Boy** S2F ↑	145	99	24	23	716	24	1.1	-0.32	361	0.42	0.61	0.49	-0.9	95	-2.8	A1A2	$12.95
110056	Tralee PF **Alpha**-ET S1F ^ ↑	144	97	22	28	687	13	-0.4	0.30	391	0.39	0.20	0.29	0.9	91	-5.5	A1A2	$12.95
112063	Padrutts GB **Topnotch** S2F	141	97	19	34	971	19	0.9	-0.04	443	0.58	0.64	0.33	-0.5	96	1.1	A1A2	$12.95
110052	Gydeland Excel **Inca** S3F	128	98	20	27	435	49	2.0	0.12	434	0.12	0.39	0.26	1.0	99	4.2	A1A2	$12.95
116002	River Heights **Dude**-ET S2F ^	117	90	19	34	662	25	-1.3	0.31	179	0.21	0.00	0.48	1.6	90	-6.5	A1A2	$12.95
112064	Wells FM **Impact** S3F	116	99	31	25	557	29	-3.2	0.34	172	0.22	0.30	0.33	1.1	94	-5.2	A1A2	$12.95
113117	Greenwell SH **Bomber** S1F	116	96	11	23	375	20	4.7	-0.25	258	0.06	0.04	0.98	1.4	90	0.7	A1A2	$12.95
111049	Clenzie FM **Charger** S2F	113	96	21	31	631	34	1.5	0.31	221	0.16	0.33	0.22	1.0	88	-3.6	A1A1	$12.95
108237	Greenwell TF **Blitz**-ET S3F	109	99	20	38	778	28	-2.9	-0.02	146	0.39	0.51	0.11	0.1	99	-3.7	A1A2	$10.95
110064	Maire PF **Goldie** S1F	100	98	18	28	776	27	-0.6	-0.59	216	0.33	0.44	-0.11	0.2	86	0.1	A1A2	$10.95
111079	Busy Brook **Robust**-ET S3F	99	99	21	32	864	39	-0.4	-0.15	246	-0.05	0.36	0.41	1.2	90	-1.3	A1A2	$10.95
107075	Goochs LM **Heroic** S2F	89	98	16	26	486	45	2.8	0.05	215	0.21	0.41	0.51	2.8	83	0.7	A1A1	$10.95
111082	Hazael FM **Majestic**-ET	87	99	25	42	1535	25	-1.5	0.26	305	0.55	-0.25	0.61	2.1	92	-0.7	A1A2	$10.95
109052	Woodcote TF **Maximiser**	82	99	25	39	922	33	-4.9	0.22	25	0.68	0.30	0.44	2.0	98	2.6	A1A2	$10.95
113086	Maire IG **Gauntlet**-ET	79	93	27	46	1401	72	-1.8	0.13	179	0.95	1.14	0.88	2.4	99	0.2	A2A2	$10.95
112054	Bagworth SH **Keepsake** S2F	76	97	19	32	1149	18	-2.6	-0.24	238	0.40	-0.15	0.34	0.8	97	-0.4	A1A2	$8.95
112044	Brokdell BR **Wiremu** S1F	75	94	15	27	476	16	-4.1	0.28	65	-0.04	0.33	1.02	-0.2	77	-7.4	A1A2	$8.95
111078	Busy Brook **Rapture**-ET S3F ↑	73	99	16	23	579	41	-2.3	-0.08	320	0.33	0.66	0.61	1.4	93	4.9	A1A2	$8.95
108187	Whinlea GN **Express**-ET S3F #	72	99	12	22	467	14	-0.2	0.27	172	-0.01	0.14	0.40	-0.2	97	-0.5	A1A2	$8.95
112030	Waidugkans HR **Clay** S3F	61	99	11	27	585	32	-2.0	-0.18	194	0.30	0.43	0.32	0.3	85	-3.7	A1A2	$8.95
111057	Oakline DI **Legacy** S2F	58	97	11	37	1254	52	0.0	0.05	433	0.22	0.51	0.26	-0.4	93	-1.2	A1A2	$8.95

* Discovery Project # Red Factor carrier ↑ SCS carrier ^ Recessive Fertility Gene carrier

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Jersey

TOP 5 Genomically Selected Rankings

Breeding Worth

National herd breed average
$ 159

Code	Name	gBW/Rel
320011	Kaimatarau Flint **Popeye**	398/57
320029	Rockland LQ **Berkly**	360/50
320027	Charltons Misty **Magnify**	360/59
320033	Lynbrook CM **Boisterous** ET	353/59
320020	Thornwood Banff **Titus**	347/52

Protein

National herd breed average
-1 kg

Code	Name	gBV
320029	Rockland LQ **Berkly**	21
320011	Kaimatarau Flint **Popeye**	15
318009	Tironui **Superman** ET	15
319018	Glenui GB **Landis**-ET	13
320033	Lynbrook CM **Boisterous** ET	12

Milkfat

National herd breed average
9 kg

Code	Name	gBV
320011	Kaimatarau Flint **Popeye**	48
320029	Rockland LQ **Berkly**	47
318009	Tironui **Superman** ET	42
320035	Shelby Hoss **Latittude**	39
320033	Lynbrook CM **Boisterous** ET	38

Udder Overall

National herd breed average
.23

Code	Name	gBV
320020	Thornwood Banff **Titus**	.89
320029	Rockland LQ **Berkly**	.82
318009	Tironui **Superman** ET	.75
319020	Glenui GB **Lucian**	.68
320027	Charltons Misty **Magnify**	.66

Liveweight

National herd breed average
-47 kg

Code	Name	gBV
320011	Kaimatarau Flint **Popeye**	-14
320029	Rockland LQ **Berkly**	-20
319020	Glenui GB **Lucian**	-20
318009	Tironui **Superman** ET	-25
319018	Glenui GB **Landis**-ET	-26

320027 Charltons Misty **Magnify**

Jersey J16

Registered Pedigree

$360/59% gBW REL

Five-year-old dam. Owner: Pukeroro Farm Ltd, Hamilton

Breeding Details

Breeder	J & S Charlton		
Sire	Crescent Excell Misty ET	**MGS**	Kelland KC Speedway
Dam	Charltons Speedy Marlowe	**MGD**	Pukeroro 11-1 S3J
gBW/Rel	297/67	**gBW/Rel**	269/68
PW/Rel	437/76	**PW/Rel**	348/77

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
37 kg	11 kg	-445 l	-31 kg
6.1 %	4.5 %		

Robustness

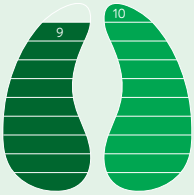
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
7.2 %	-0.28	0.30	-81 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
458 days	-2.0% / 33%	-0.8% / 35%	-5.0 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.12				
Shed Temperament	.10				
Milking Speed	.15				
Overall Opinion	.12				
Stature	-.68				
Capacity	.41				
Rump Angle	-.01				
Rump Width	-.35				
Legs	.07				
Udder Support	.56				
Front Udder	.62				
Rear Udder	.59				
Front Teat Placement	.26				
Rear Teat Placement	.23				
Udder Overall	.66				
Dairy Conformation	.26				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1313	A2 Protein	A2A2
High Input	1362		

320011 Kaimatarau Flint **Popeye**

Jersey J16

Registered Pedigree

$398/57% gBW REL

Breeding Details

Breeder	Pedley Family		
Sire	Shepherds LT Flint ET S3J	**MGS**	Pukeroa TGM Manzello
Dam	Kaimatarau Zello Pixie	**MGD**	Kaimatarau Imran Pixie
gBW/Rel	338/70	**gBW/Rel**	233/75
PW/Rel	453/79	**PW/Rel**	319/84

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
48 kg	15 kg	-431 l	-14 kg
6.4 %	4.5 %		

Robustness

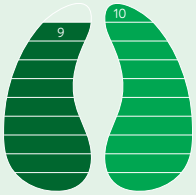
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.2 %	-0.28	0.20	244 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
668 days	-1.7% / 30%	-0.7% / 34%	0.0 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.58				
Shed Temperament	.58				
Milking Speed	.39				
Overall Opinion	.66				
Stature	-.30				
Capacity	.74				
Rump Angle	.44				
Rump Width	.07				
Legs	.10				
Udder Support	.43				
Front Udder	.47				
Rear Udder	.58				
Front Teat Placement	.27				
Rear Teat Placement	.37				
Udder Overall	.61				
Dairy Conformation	.65				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1352	A2 Protein	A2A2
High Input	1373		

320029 Rockland LQ **Berkly**

Jersey J16

Registered Pedigree

$361/50% gBW REL

Breeding Details

Breeder	M & E Darke		
Sire	Lynbrook King Quadrant	**MGS**	Evleen Integrity Larson
Dam	Rockland Larson Billie	**MGD**	Rockland Pioneer Billie
gBW/Rel	366/65	**gBW/Rel**	273/63
PW/Rel	497/72	**PW/Rel**	384/79

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
47 kg	21 kg	-128 l	-20 kg
5.9 %	4.4 %		

Robustness

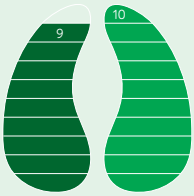
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.2 %	-0.08	0.03	205 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
560 days	-2.0% / 30%	-0.8% / 32%	-0.4 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.41				
Shed Temperament	.41				
Milking Speed	.47				
Overall Opinion	.57				
Stature	-.17				
Capacity	.32				
Rump Angle	.00				
Rump Width	-.14				
Legs	.10				
Udder Support	.58				
Front Udder	.54				
Rear Udder	.97				
Front Teat Placement	.08				
Rear Teat Placement	-.04				
Udder Overall	.82				
Dairy Conformation	.45				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1345	A2 Protein	A2A2
High Input	1355		

319018 Glenui GB **Landis**-ET

Jersey J16

Registered Pedigree

$336/55% gBW REL

Six-year-old dam. Owner: Goreland Partnership, Hawera

Breeding Details

Breeder	A & L Landers		
Sire	Glanton SS Baltic ET S3J	**MGS**	Okura LT Integrity
Dam	Glenui Integrity Lace ET	**MGD**	Glenui Nevys Lacy
gBW/Rel	354/76	**gBW/Rel**	269/75
PW/Rel	506/86	**PW/Rel**	389/85

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
30 kg	13 kg	-436 l	-26 kg
6.0 %	4.5 %		

Robustness

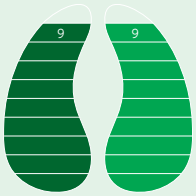
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.2 %	-0.28	0.38	75 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
539 days	-2.2% / 33%	-0.4% / 72%	-1.5 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.19				
Shed Temperament	.19				
Milking Speed	.03				
Overall Opinion	.35				
Stature	-.84				
Capacity	1.18				
Rump Angle	-.32				
Rump Width	.25				
Legs	.17				
Udder Support	.44				
Front Udder	.45				
Rear Udder	.55				
Front Teat Placement	.29				
Rear Teat Placement	.13				
Udder Overall	.61				
Dairy Conformation	.87				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1292	A2 Protein	A2A2
High Input	1344		

320020 Thornwood Banff **Titus**

Jersey J16
Registered Pedigree

$347/52% gBW REL

Four-year-old dam. Owner: S Good & M Adam, Otorohanga

Breeding Details

Breeder	S Good & M Adam		
Sire	Glanton Desi Banff	**MGS**	Puhipuhi Caps Goldie S3J
Dam	Thornwood Goldies Trix	**MGD**	Thornwood Degree Trix ET
gBW/Rel	302/69	**gBW/Rel**	273/75
PW/Rel	448/78	**PW/Rel**	297/83

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
29 kg	11 kg	-532 l	-32 kg
6.1 %	4.6 %		

Robustness

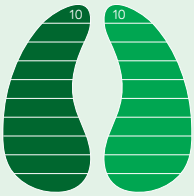
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.6 %	-0.47	0.22	168 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
629 days	-2.5% / 33%	-0.6% / 34%	-4.9 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.54				
Shed Temperament	.56				
Milking Speed	.12				
Overall Opinion	.51				
Stature	-.59				
Capacity	.42				
Rump Angle	-.24				
Rump Width	.23				
Legs	-.05				
Udder Support	.59				
Front Udder	.74				
Rear Udder	.96				
Front Teat Placement	.17				
Rear Teat Placement	-.06				
Udder Overall	.89				
Dairy Conformation	.66				



HOOFPRINT®
Methane Efficiency
Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1295	A2 Protein	A2A2
High Input	1334		

320033 Lynbrook CM **Boisterous** ET

Jersey J16
Registered Pedigree

$353/59% gBW REL

Breeding Details

Breeder	S & N Ireland		
Sire	Crescent Excell Misty ET	**MGS**	Crescent Kenya Bounty
Dam	Lynbrook Golden Bounty	**MGD**	Global Genetic Gold S3J
gBW/Rel	287/68	**gBW/Rel**	282/77
PW/Rel	330/76	**PW/Rel**	376/83

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
38 kg	12 kg	-569 l	-31 kg
6.4 %	4.6 %		

Robustness

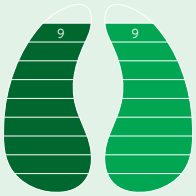
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.5 %	-0.28	0.20	35 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
427 days	-2.4% / 33%	-0.6% / 34%	3.0 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.11				
Shed Temperament	.12				
Milking Speed	.24				
Overall Opinion	.16				
Stature	-.79				
Capacity	.70				
Rump Angle	-.27				
Rump Width	-.32				
Legs	.05				
Udder Support	.26				
Front Udder	.46				
Rear Udder	.53				
Front Teat Placement	-.27				
Rear Teat Placement	-.41				
Udder Overall	.39				
Dairy Conformation	.58				



HOOFPRINT®
Methane Efficiency
Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1307	A2 Protein	A2A2
High Input	1329		

320035 Shelby Hoss **Latittude**

Jersey J16

Registered Pedigree

$335/58% gBW REL

Breeding Details

Breeder	T Hughes & V Scott		
Sire	Glenui Degree Hoss ET	**MGS**	Stratford WTH Strider S2J
Dam	Shelby Strider Mary S3J	**MGD**	MBWD-13-39
gBW/Rel	260/66	**gBW/Rel**	300/71
PW/Rel	446/72	**PW/Rel**	117/78

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
39 kg	12 kg	-454 l	-31 kg
6.2 %	4.5 %		

Robustness

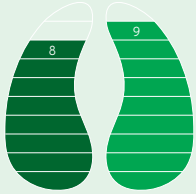
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.1 %	0.04	0.13	54 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
417 days	-1.9% / 32%	-1.0% / 34%	-0.9 days

Genomic TOP traits

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	.10	
Shed Temperament	.08	
Milking Speed	.26	
Overall Opinion	.25	
Stature	-.59	
Capacity	.45	
Rump Angle	-.30	
Rump Width	-.09	
Legs	.15	
Udder Support	.31	
Front Udder	.36	
Rear Udder	.40	
Front Teat Placement	.48	
Rear Teat Placement	.24	
Udder Overall	.49	
Dairy Conformation	.45	



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1298	A2 Protein	A2A2
High Input	1317		

318009 Tironui **Superman** ET

Jersey J16

Registered Pedigree

$345/63% gBW REL

Six-year-old dam. Owner: Ede Investments Ltd, Taupiri

Breeding Details

Breeder	M & J Gibb		
Sire	Puketawa AD Superstition	**MGS**	Okura LT Integrity
Dam	Tironui Integ Meg	**MGD**	Tironui Nevvys Megan
gBW/Rel	297/73	**gBW/Rel**	228/72
PW/Rel	395/79	**PW/Rel**	339/80

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
42 kg	15 kg	-445 l	-25 kg
6.3 %	4.5 %		

Robustness

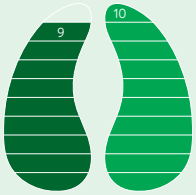
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.5 %	-0.01	0.05	113 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
441 days	-1.8% / 91%	0.0% / 92%	-2.1 days

Genomic TOP traits

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	.32	
Shed Temperament	.36	
Milking Speed	.25	
Overall Opinion	.43	
Stature	-.34	
Capacity	.42	
Rump Angle	-.52	
Rump Width	.39	
Legs	.07	
Udder Support	.57	
Front Udder	.52	
Rear Udder	.89	
Front Teat Placement	.13	
Rear Teat Placement	.16	
Udder Overall	.75	
Dairy Conformation	.53	



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1326	A2 Protein	A2A2
High Input	1344		

319020 Glenui GB **Lucian**

Jersey J16

Registered Pedigree

$332/54% gBW REL

Three-year-old dam. Owner: Goreland Partnership, Hawera

Breeding Details

Breeder	A & L Landers		
Sire	Glanton SS Baltic ET S3J	**MGS**	Puhipuhi Caps Goldie S3J
Dam	Glenui Goldie Lacey ET	**MGD**	Glenui Integrity Lace ET
gBW/Rel	347/70	**gBW/Rel**	353/76
PW/Rel	464/81	**PW/Rel**	505/86

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
30 kg	8 kg	-563 l	-20 kg
6.2 %	4.5 %		

Robustness

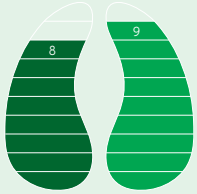
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
6.1 %	0.05	0.45	103 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
580 days	-2.1% / 58%	-1.0% / 78%	-3.6 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.17				
Shed Temperament	.14				
Milking Speed	.26				
Overall Opinion	.34				
Stature	-.61				
Capacity	1.19				
Rump Angle	-.50				
Rump Width	.43				
Legs	-.01				
Udder Support	.54				
Front Udder	.57				
Rear Udder	.70				
Front Teat Placement	.07				
Rear Teat Placement	.07				
Udder Overall	.68				
Dairy Conformation	1.12				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1276	A2 Protein	A2A2
High Input	1347		

Fertility 1 carrier

12/02/2021

Genomically Selected

Want the very latest genetics?

Individually $31.95 +gst

Genomic Packs from $25.97* +gst

*Includes 10% InvestaMate discount

2021 Yearling Bulls

This season the Alpha yearling bulls won't be selected until September.

Due to their age, the earliest these bulls can be collected from is mid-winter and this has caused some supply issues in the past. LIC has therefore decided to wait until straws have been collected before announcing the 2021 yearling sires.

Yearling bulls will be exclusively available for purchase via Alpha. So, if you're looking to fast track your genetic gain and/or want access to the yearling bulls our Bull Acquisition team are using, make sure you register your interest with your LIC Agri Manager. Alternatively view the bulls online in September lic.co.nz/alpha

TOP 5 Daughter Proven Rankings

Breeding Worth

National herd breed average
$ 159

Code	Name	gBW/Rel
317023	Shepherds LT **Flint** ET S3J	381/83
316039	Ulmarra TT **Gallivant**	344/87
315008	Pukeroa AND **Baratone** ET	339/89
313023	Crescent Excell **Monopoly**	333/87
315045	Glenui Degree **Hoss** ET	324/88

Protein

National herd breed average
-1 kg

Code	Name	gBV
317023	Shepherds LT **Flint** ET S3J	28
314004	Bells OI **Floyd** S3J	19
317006	Williams PCG **Tenor**	19
316039	Ulmarra TT **Gallivant**	14
317025	Maxwell Goldie **Matai** S2J	13

Milkfat

National herd breed average
9 kg

Code	Name	gBV
317023	Shepherds LT **Flint** ET S3J	50
316039	Ulmarra TT **Gallivant**	47
313023	Crescent Excell **Monopoly**	37
317025	Maxwell Goldie **Matai** S2J	37
314004	Bells OI **Floyd** S3J	37

Milk Volume

National herd breed average
-409 litres

Code	Name	gBV
317006	Williams PCG **Tenor**	144
314004	Bells OI **Floyd** S3J	106
317025	Maxwell Goldie **Matai** S2J	-43
317023	Shepherds LT **Flint** ET S3J	-45
316039	Ulmarra TT **Gallivant**	-242

Fertility

National herd breed average
1.8 %

Code	Name	gBV
314052	Crescent Excell **Misty** ET	4.9
315045	Glenui Degree **Hoss** ET	4.7
317049	Shelby SS **Lorenzo** S3J	4.2
316009	Tironui LT **Besiege** ET	3.5
315008	Pukeroa AND **Baratone** ET	3.5

Total Longevity

National herd breed average
166 days

Code	Name	gBV
314004	Bells OI **Floyd** S3J	575
317006	Williams PCG **Tenor**	564
316009	Tironui LT **Besiege** ET	545
316039	Ulmarra TT **Gallivant**	516
317060	Paspalum OI **Limelight**	502

Capacity

National herd breed average
.17

Code	Name	gBV
314052	Crescent Excell **Misty** ET	.98
314004	Bells OI **Floyd** S3J	.74
317025	Maxwell Goldie **Matai** S2J	.73
315029	Thornwood Degree **Trigger**	.71
316039	Ulmarra TT **Gallivant**	.64

Udder Overall

National herd breed average
.23

Code	Name	gBV
315029	Thornwood Degree **Trigger**	1.26
317060	Paspalum OI **Limelight**	.98
317049	Shelby SS **Lorenzo** S3J	.86
315045	Glenui Degree **Hoss** ET	.63
316039	Ulmarra TT **Gallivant**	.62

Stature

National herd breed average
-.84

Code	Name	gBV
314004	Bells OI **Floyd** S3J	-.21
316039	Ulmarra TT **Gallivant**	-.26
314052	Crescent Excell **Misty** ET	-.52
317023	Shepherds LT **Flint** ET S3J	-.58
315045	Glenui Degree **Hoss** ET	-.66

Liveweight

National herd breed average
-47 kg

Code	Name	gBV
314004	Bells OI **Floyd** S3J	-5
316039	Ulmarra TT **Gallivant**	-12
314052	Crescent Excell **Misty** ET	-12
315029	Thornwood Degree **Trigger**	-33
317023	Shepherds LT **Flint** ET S3J	-34

316039 Ulmarra TT **Gallivant**

Premier Sire | Top 5 gBW | Top 5 capacity

Two-year-old daughter. Owner: L & J Morgan, Opunake

Two-year-old daughter. Owner: L & J Morgan, Opunake

Jersey J16

Registered Pedigree

gBW $344/87% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	G & H McCallum	**Dam**	Ulmarra 15-56
Sire	Thornwood OLM Thor	**MGS**	Marsden NN Excell ET

Production gBVs

136 Daughters 55 Herds

Production Efficiency

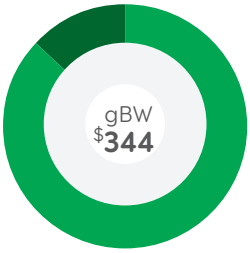
Milkfat	Protein	Milk Volume	Liveweight
47 kg	14 kg	-242 l	-12 kg
6.1 %	4.3 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.8 %	0.00	0.12	159 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
516 days	-1.5% / 29%	-2.1% / 72%	-0.3 days



Production efficiency	$298	87%
Robustness	$46	13%

TOP traits

117 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.29				
Shed Temperament	.38				
Milking Speed	.08				
Overall Opinion	.40				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.26				
Capacity	.64				
Rump Angle	-.19				
Rump Width	-.07				
Legs	.08				
Udder Support	.31				
Front Udder	.70				
Rear Udder	.73				
Front Teat Placement	.05				
Rear Teat Placement	-.08				
Udder Overall	.62				
Dairy Conformation	.62				

New Zealand Genetics 81 %

12/02/2021

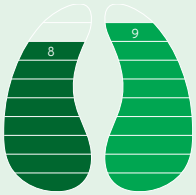
LIC Initiatives

Once-A-Day	1298	A2 Protein	A1A2
High Input	1333		

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



317023 Shepherds LT **Flint** ET S3J

Jersey J16

Registered Pedigree (Supplementary)

gBW $381/83% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Top 5 milkfat | #1 gBW bull | Genomic graduate

Breeding Details

Breeder	R Shepherd	**Dam**	Shepherds Francesca S2J
Sire	Lynbrook Terrific ET S3J	**MGS**	Okura Lika Murmur S3J

Production gBVs

161 Daughters 71 Herds

Production Efficiency

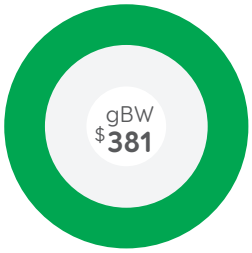
Milkfat	Protein	Milk Volume	Liveweight
50 kg	28 kg	-45 l	-34 kg
5.9 %	4.4 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-4.7 %	-0.03	0.07	195 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
493 days	-1.4% / 88%	-0.7% / 93%	1.6 days



Production efficiency	$380	100%
Robustness	$1	0%

TOP traits

104 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.58				
Shed Temperament	.60				
Milking Speed	.29				
Overall Opinion	.65				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.58				
Capacity	.52				
Rump Angle	.28				
Rump Width	.23				
Legs	.14				
Udder Support	.50				
Front Udder	.24				
Rear Udder	.73				
Front Teat Placement	.15				
Rear Teat Placement	.35				
Udder Overall	.59				
Dairy Conformation	.56				

New Zealand Genetics 72 %

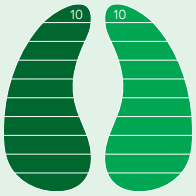
12/02/2021

LIC Initiatives

Once-A-Day	1377	A2 Protein	A2A2
High Input	1364		

Two-year-old daughter. Owner: Toplands, Morrinsville

Two-year-old daughter. Owner: Toplands, Morrinsville



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

316009 Tironui LT **Besiege** ET

Premier Sire

Top 5 fertility

Jersey J16

Registered Pedigree

gBW $324/88 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	M & J Gibb	**Dam**	Tironui Degree Bettie
Sire	Lynbrook Terrific ET S3J	**MGS**	Arrieta NN Degree ET

Production gBVs

171 Daughters 75 Herds

Production Efficiency

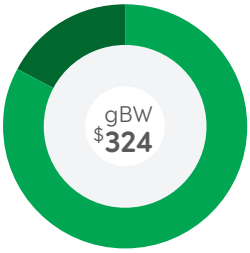
Milkfat	Protein	Milk Volume	Liveweight
21 kg	11 kg	-431 l	-66 kg
5.7 %	4.5 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.5 %	0.03	0.19	146 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
545 days	-2.1% / 70%	-0.8% / 77%	0.0 days



Production efficiency	$270	83%
Robustness	$54	17%

Two-year-old daughter. Owner: Rich Feet Ltd, Te Awamutu

Two-year-old daughter. Owner: B & J Blackmore, Te Puke

TOP traits

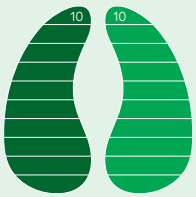
83 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.57				
Shed Temperament	.57				
Milking Speed	.31				
Overall Opinion	.50				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-1.24				
Capacity	.38				
Rump Angle	.00				
Rump Width	-.08				
Legs	.19				
Udder Support	.27				
Front Udder	-.06				
Rear Udder	.35				
Front Teat Placement	.30				
Rear Teat Placement	.19				
Udder Overall	.35				
Dairy Conformation	.32				

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



New Zealand Genetics 72 %

12/02/2021

LIC Initiatives

Once-A-Day	1263	A2 Protein	A2A2
High Input	1281		

317025 Maxwell Goldie **Matai** S2J

Jersey J16

Registered Pedigree (Supplementary)

gBW $316/80% REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Top 5 capacity

Top 5 milkfat

Breeding Details

Breeder	B & B Maxwell	**Dam**	JBDX-14-46
Sire	Puhipuhi Caps Goldie S3J	**MGS**	Lynbrook Terrific ET S3J

Production gBVs

95 Daughters 33 Herds

Production Efficiency

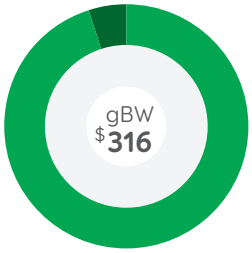
Milkfat	Protein	Milk Volume	Liveweight
37 kg	13 kg	-43 l	-61 kg
5.6 %	4.1 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.6 %	-0.23	0.07	-26 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
314 days	-2.5% / 39%	-1.7% / 70%	-4.6 days



Production efficiency	$299	95%
Robustness	$17	5%

TOP traits

93 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.48				
Shed Temperament	.48				
Milking Speed	.00				
Overall Opinion	.51				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-1.33				
Capacity	.73				
Rump Angle	-.01				
Rump Width	-.01				
Legs	.15				
Udder Support	.23				
Front Udder	.51				
Rear Udder	.67				
Front Teat Placement	-.35				
Rear Teat Placement	-.72				
Udder Overall	.50				
Dairy Conformation	.63				

New Zealand Genetics 77 %

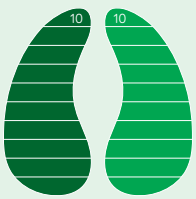
12/02/2021

LIC Initiatives

Once-A-Day	1287	A2 Protein	A2A2
High Input	1307		

Two-year-old daughter. Owner: M R Browne, Taupiri

Two-year-old daughter. Owner: Jamze Trust, New Plymouth



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

314052 Crescent Excell **Misty** ET

Top 5 fertility

#1 capacity

Jersey J16

Registered Pedigree

gBW $324/87% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	M & D Townshend	**Dam**	Crescent RG Madam
Sire	Marsden NN Excell ET	**MGS**	Riverina Greenman

Production gBVs

98 Daughters 52 Herds

Production Efficiency

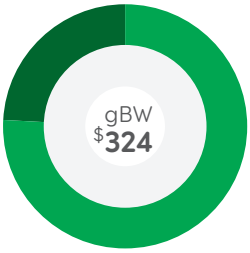
Milkfat	Protein	Milk Volume	Liveweight
33 kg	5 kg	-746 l	-12 kg
6.5 %	4.7 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.9 %	-0.34	0.44	-90 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
381 days	-1.9% / 99%	-0.7% / 99%	-0.5 days



Production efficiency	$247	76%
Robustness	$77	24%

Two-year-old daughter. Owner: Puketaha Farming Enterprises, Taupiri

Two-year-old daughter. Owner: Jamze Trust, New Plymouth

TOP traits

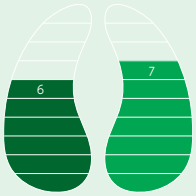
90 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	-.08				
Shed Temperament	-.08				
Milking Speed	-.01				
Overall Opinion	-.01				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.52				
Capacity	.98				
Rump Angle	.18				
Rump Width	-.05				
Legs	.05				
Udder Support	.40				
Front Udder	.69				
Rear Udder	.37				
Front Teat Placement	.01				
Rear Teat Placement	-.27				
Udder Overall	.53				
Dairy Conformation	.63				

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



New Zealand Genetics 89 %

12/02/2021

LIC Initiatives

Once-A-Day	1269	A2 Protein	A2A2
High Input	1331		

317060 Paspalum OI **Limelight**

Jersey J16

Registered Pedigree

gBW $310/79% REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire

Top 5 udders

Breeding Details

Breeder	R & T Goudie	**Dam**	Paspalum GTG Linda 40
Sire	Okura LT Integrity	**MGS**	Glenhaven TGM Genius S3J

Production gBVs

74 Daughters 31 Herds

Production Efficiency

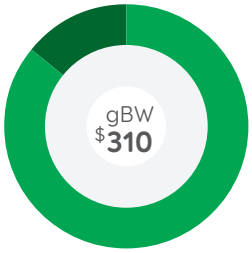
Milkfat	Protein	Milk Volume	Liveweight
25 kg	8 kg	-416 l	-63 kg
5.8 %	4.4 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.4 %	-0.14	0.05	177 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
502 days	-2.7% / 45%	-0.8% / 65%	2.0 days



Production efficiency	$267	86%
Robustness	$43	14%

TOP traits

53 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.49				
Shed Temperament	.56				
Milking Speed	.15				
Overall Opinion	.52				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-1.05				
Capacity	.27				
Rump Angle	-.19				
Rump Width	-.10				
Legs	.08				
Udder Support	.82				
Front Udder	.76				
Rear Udder	1.01				
Front Teat Placement	.24				
Rear Teat Placement	.37				
Udder Overall	.98				
Dairy Conformation	.38				

New Zealand Genetics 63 %

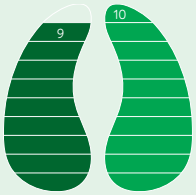
12/02/2021

LIC Initiatives

Once-A-Day	1287	A2 Protein	A1A2
High Input	1309		

Two-year-old daughter. Owner: Goreland Partnership, Hawera

Two-year-old daughter. Owner: Glanton Holdings Ltd, Hawera



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

315045 Glenui Degree **Hoss** ET

Available in 4M

Premier Sire

Top 5 gBW

Jersey J16

Registered Pedigree

gBW $324/88 % REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	A & L Landers	**Dam**	Glenui Bowies Honeydew
Sire	Arrieta NN Degree ET	**MGS**	Konui Glen Elmos Bowie

Production gBVs

109 Daughters 48 Herds

Production Efficiency

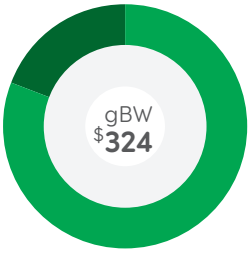
Milkfat	Protein	Milk Volume	Liveweight
32 kg	9 kg	-400 l	-37 kg
6.0 %	4.4 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.7 %	-0.36	0.24	-34 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
415 days	-1.5% / 97%	-0.7% / 97%	2.3 days



Production efficiency	$262	81%
Robustness	$62	19%

Six-year-old dam. Owner: Goreland Partnership, Hawera

Two-year-old daughter. Owner: Rich Feet Ltd, Te Awamutu

TOP traits

98 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	-.07				
Shed Temperament	-.01				
Milking Speed	.19				
Overall Opinion	.16				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.66				
Capacity	.30				
Rump Angle	.03				
Rump Width	.01				
Legs	.11				
Udder Support	.49				
Front Udder	.47				
Rear Udder	.71				
Front Teat Placement	.18				
Rear Teat Placement	-.02				
Udder Overall	.63				
Dairy Conformation	.35				

New Zealand Genetics 78 %

12/02/2021

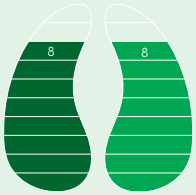
LIC Initiatives

Once-A-Day	1283	A2 Protein	A2A2
High Input	1315		

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



317006 Williams PCG **Tenor**

Jersey J16

Registered Pedigree

$308/80 % gBW REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire

Top 5 protein

Breeding Details

Breeder	M Williams	**Dam**	Williams Integrity Tabby
Sire	Puhipuhi Caps Goldie S3J	**MGS**	Okura LT Integrity

Production gBVs

87 Daughters 31 Herds

Production Efficiency

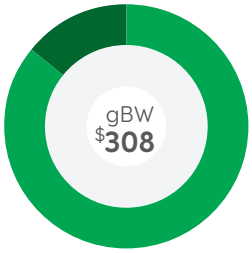
Milkfat	Protein	Milk Volume	Liveweight
30 kg	19 kg	144 l	-51 kg
5.2 %	4.1 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.2 %	0.12	0.10	183 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
564 days	-1.5% / 54%	-1.7% / 63%	0.5 days



Production efficiency	$264	86%
Robustness	$44	14%

TOP traits

80 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.32				
Shed Temperament	.39				
Milking Speed	.26				
Overall Opinion	.44				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.96				
Capacity	.42				
Rump Angle	-.46				
Rump Width	-.03				
Legs	.01				
Udder Support	.36				
Front Udder	.18				
Rear Udder	.70				
Front Teat Placement	.10				
Rear Teat Placement	.12				
Udder Overall	.53				
Dairy Conformation	.50				

New Zealand Genetics 75 %

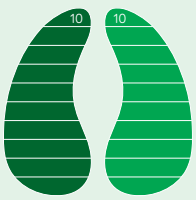
12/02/2021

LIC Initiatives

Once-A-Day	1271	A2 Protein	A2A2
High Input	1293		

Two-year-old daughter. Owner: L E Operative Ltd, Te Awamutu

Two-year-old daughter. Owner: Jamze Trust, New Plymouth



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

313023 Crescent Excell **Monopoly**

Premier Sire | Top 5 gBW | Top 5 milkfat

Three-year-old daughter. Owner: Valentia Farms Ltd, Morrinsville

Three-year-old daughter. Owner: Valentia Farms Ltd. Morrinsville

Jersey J16

Registered Pedigree

gBW $333/87% REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	M & D Townshend	**Dam**	Crescent Banjo Melva
Sire	Marsden NN Excell ET	**MGS**	Crescent SB Banjo

Production gBVs

88 Daughters 47 Herds

Production Efficiency

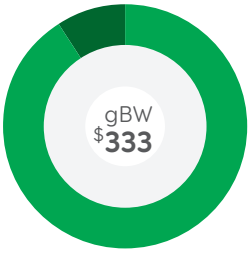
Milkfat	Protein	Milk Volume	Liveweight
37 kg	9 kg	-494 l	-42 kg
6.2 %	4.5 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.5 %	0.01	0.06	202 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
481 days	-1.6% / 97%	-1.0% / 96%	-1.3 days



Production efficiency	$303	91%
Robustness	$30	9%

TOP traits

77 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.32				
Shed Temperament	.36				
Milking Speed	.36				
Overall Opinion	.44				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.77				
Capacity	.42				
Rump Angle	-.04				
Rump Width	-.08				
Legs	.18				
Udder Support	.33				
Front Udder	.52				
Rear Udder	.30				
Front Teat Placement	.10				
Rear Teat Placement	-.02				
Udder Overall	.46				
Dairy Conformation	.35				

New Zealand Genetics 80 %

12/02/2021

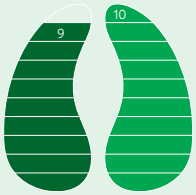
LIC Initiatives

Once-A-Day	1292	A2 Protein	A2A2
High Input	1295		

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



315008 Pukeroa AND **Baratone** ET

Jersey J16

Registered Pedigree

$339/89% gBW REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: Valentia Farm Ltd, Morrinsville

Breeding Details

Breeder	A & V Lockwood-Geck	**Dam**	Pukeroa Mans Bracelet
Sire	Arrieta NN Degree ET	**MGS**	Okura Manhatten ET SJ3

Production gBVs

371 Daughters 186 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
25 kg	10 kg	-544 l	-68 kg
6.0 %	4.5 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.5 %	-0.09	0.16	43 days

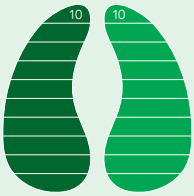
Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
451 days	-0.6% / 96%	-0.2% / 96%	-4.6 days

TOP traits

84 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.05				
Shed Temperament	.07				
Milking Speed	.29				
Overall Opinion	.18				
Stature	-1.29				
Capacity	.33				
Rump Angle	.15				
Rump Width	-.24				
Legs	.08				
Udder Support	.29				
Front Udder	.71				
Rear Udder	.60				
Front Teat Placement	-.13				
Rear Teat Placement	-.77				
Udder Overall	.58				
Dairy Conformation	.20				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1280	A2 Protein	A2A2
High Input	1304		

317049 Shelby SS **Lorenzo** S3J

Jersey J16

Registered Pedigree (Supplementary)

$306/80% gBW REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Four-year-old dam. Owner: T Hughes & V Scott, Stratford

Breeding Details

Breeder	T Hughes & V Scott	**Dam**	Shelby 13-3
Sire	Stratford WTH Strider S2J	**MGS**	Arrieta NN Degree ET

Production gBVs

95 Daughters 45 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
20 kg	9 kg	-436 l	-51 kg
5.7 %	4.4 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.2 %	-0.33	0.33	15 days

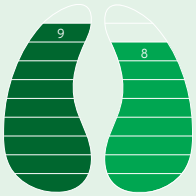
Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
473 days	-3.4% / 59%	-1.2% / 80%	2.4 days

TOP traits

74 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.43				
Shed Temperament	.42				
Milking Speed	.39				
Overall Opinion	.52				
Stature	-1.13				
Capacity	.52				
Rump Angle	-.57				
Rump Width	.09				
Legs	.23				
Udder Support	.65				
Front Udder	.96				
Rear Udder	.63				
Front Teat Placement	.36				
Rear Teat Placement	.30				
Udder Overall	.86				
Dairy Conformation	.39				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1276	A2 Protein	A1A1
High Input	1312		

314004 Bells OI **Floyd** S3J

#1 liveweight | Top 5 capacity | Genomic graduate

Jersey J15F1

Registered Pedigree (Supplementary)

$304/95% gBW REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	G & G Bell	**Dam**	Bells Fiona S2J
Sire	Okura LT Integrity	**MGS**	Shalendy Ideal Ascent S3J

Production gBVs

888 Daughters 353 Herds

Production Efficiency

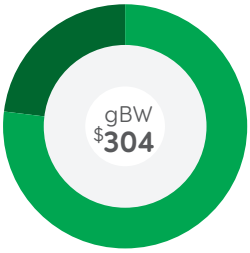
Milkfat	Protein	Milk Volume	Liveweight
37 kg	19 kg	106 l	-5 kg
5.4 %	4.1 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.8 %	-0.21	0.33	162 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
575 days	-1.6% / 98%	-1.1% / 98%	-2.1 days



Production efficiency	$235	77%
Robustness	$69	23%

Two-year-old daughter. Owner: D W Gibson, Hawera

Two-year-old daughter. Owner: Riverina Jerseys Ltd, Te Awamutu

TOP traits

148 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.19				
Shed Temperament	.31				
Milking Speed	.03				
Overall Opinion	.45				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.21				
Capacity	.74				
Rump Angle	.14				
Rump Width	.40				
Legs	-.06				
Udder Support	.48				
Front Udder	.25				
Rear Udder	.71				
Front Teat Placement	-.11				
Rear Teat Placement	-.02				
Udder Overall	.58				
Dairy Conformation	.66				

New Zealand Genetics 68 %

12/02/2021

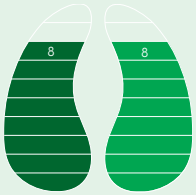
LIC Initiatives

Once-A-Day	1266	A2 Protein	A2A2
High Input	1310		

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



315029 Thornwood Degree **Trigger**

Jersey J16

Registered Pedigree

$298/94 % gBW REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Top 5 capacity | #1 udders bull | Genomic graduate

Breeding Details

Breeder	S Good & M Adam	**Dam**	Hillstar Manzellos Trudy
Sire	Arrieta NN Degree ET	**MGS**	Pukeroa TGM Manzello

Production gBVs

1175 Daughters 370 Herds

Production Efficiency

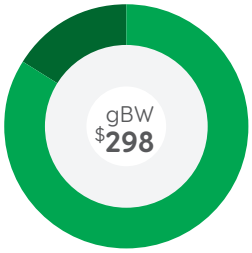
Milkfat	Protein	Milk Volume	Liveweight
31 kg	7 kg	-453 l	-33 kg
6.0 %	4.4 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.5 %	-0.17	0.15	96 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
424 days	-1.7% / 80%	-1.0% / 88%	-4.5 days



Production efficiency	$251	84%
Robustness	$47	16%

Three-year-old dam. Owner: S Good & M Adam, Otorohanga

TOP traits

192 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	-.10				
Shed Temperament	-.12				
Milking Speed	.14				
Overall Opinion	.06				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.74				
Capacity	.71				
Rump Angle	-.68				
Rump Width	-.13				
Legs	.02				
Udder Support	.88				
Front Udder	1.20				
Rear Udder	1.26				
Front Teat Placement	.39				
Rear Teat Placement	.25				
Udder Overall	1.26				
Dairy Conformation	.76				

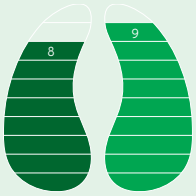
Three-year-old daughter. Owner: Te Waiu Ltd, Waimate

New Zealand Genetics 80 %

12/02/2021

LIC Initiatives

Once-A-Day	1293	A2 Protein	A2A2
High Input	1335		



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

314012 Kaitaka OI **Leopard** ET

Jersey J16

Registered Pedigree

$gBW $306/94% REL

- A2A2
- Extreme udders
- Good longevity

Two-year-old daughter. Owner: Bydand Holdings Ltd, Atiamuri

Breeding Details

Breeder	D Hickey	**Dam**	Kaitaka TGM Leonie
Sire	Okura LT Integrity	**MGS**	Tawa Grove Maunga ET SJ3

Production gBVs — 740 Daughters 283 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
27 kg	3 kg	-612 l	-58 kg	2.2 %
6.2 %	4.4 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.29	-0.03	470 days	-0.5% / 97%	-4.1 days

TOP traits — 119 Daughters TOP Ins pected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.34				
Capacity	.00				
Udder Overall	.77				
Dairy Conformation	.27				

311013 Okura LT **Integrity**

Jersey J16

Registered Pedigree

$gBW $320/99 % REL

- A1A2
- Outstanding capacity
- High milkfat

Two-year-old daughter. Owner: Ede Investments Ltd, Taupiri

Breeding Details

Breeder	L & L Beehre	**Dam**	Okura Lika I-Charmaine ET
Sire	Lynbrook Terrific ET S3J	**MGS**	Mitchells Likabull SJ3

Production gBVs — 24884 Daughters 3413 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
33 kg	9 kg	-279 l	-46 kg	0.1 %
5.8 %	4.2 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.04	0.26	537 days	-0.6% / 99%	-0.2 days

TOP traits — 1329 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.37				
Capacity	.91				
Udder Overall	.62				
Dairy Conformation	.77				

316031 Greenmile FGP **Hadlow** ET

Jersey J16

Registered Pedigree

$gBW $239/85 % REL

- A2A2
- Excellent udders
- Somatic cell improver

Breeding Details

Breeder	B & B Jensen	**Dam**	Greenmile Helga ET S3J
Sire	Freydan Goldie Presely ET	**MGS**	Tahau Northern Exposure

Production gBVs — 100 Daughters 52 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
15 kg	11 kg	64 l	-48 kg	3.5 %
5.0 %	4.0 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.91	0.00	514 days	-1.3% / 75%	0.0 days

TOP traits — 83 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.27				
Capacity	-.06				
Udder Overall	.76				
Dairy Conformation	.09				

316051 Cluain Goldie **Jacob** ET

Jersey J16

Registered Pedigree

$gBW $306/86 % REL

- A2A2
- High milkfat
- Shorter gestation

Two-year-old daughter. Owner: Te Waiu Ltd, Waimate

Breeding Details

Breeder	Emslie Family	**Dam**	Cluain Zeus Jessie
Sire	Puhipuhi Caps Goldie S3J	**MGS**	Hawthorn Grove Zeus ET

Production gBVs — 106 Daughters 47 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
40 kg	9 kg	108 l	-65 kg	1.2 %
5.5 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.67	-0.11	303 days	-0.6% / 80%	-6.2 days

TOP traits — 95 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.11				
Capacity	.10				
Udder Overall	.33				
Dairy Conformation	.19				

Individually $21.80 +gst

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Economy Packs from $14.53* +gst

*Includes 10% InvestaMate discount

12/02/2021

314022 Linan Integrity **Winston**

Jersey J16

Registered Pedigree

gBW $284/93 % REL

- A2A2
- High Production
- Great udders

Two-year-old daughter. Owner: Rich Feet Ltd, Te Awamutu

Breeding Details

Breeder	C & L Megaw	**Dam**	Linan Quality
Sire	Okura LT Integrity	**MGS**	Tawa Grove Maunga ET SJ3

Production gBVs — 2108 Daughters 431 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
28 kg	15 kg	-48 l	-68 kg	0.5 %
5.4 %	4.2 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
0.23	-0.01	351 days	-0.4% / 98%	-1.5 days

TOP traits — 277 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.27				
Capacity	-.01				
Udder Overall	.71				
Dairy Conformation	.31				

315009 Riverview AND **Dexter** S2J

Jersey J16

Registered Pedigree (Supplementary)

gBW $278/87 % REL

- A2A2
- High protein
- Great udders

Two-year-old daughter. Owner: Puketaha Farming Enterprises, Taupiri

Breeding Details

Breeder	R G Lowe	**Dam**	HFYM-12-24
Sire	Arrieta NN Degree ET	**MGS**	Okura Lika Murmur S3J

Production gBVs — 98 Daughters 47 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
26 kg	18 kg	-56 l	-22 kg	3.3 %
5.4 %	4.2 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.21	0.23	462 days	-0.1% / 94%	-1.3 days

TOP traits — 93 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.35				
Capacity	.62				
Udder Overall	.67				
Dairy Conformation	.60				

314039 Foxton Manz **Clayton**

Jersey J16

Registered Pedigree

gBW $285/92 % REL

- A2A2
- Low somatic cells
- Good udders

Two-year-old daughter. Owner: Bydand Holdings Ltd, Atiamuri

Breeding Details

Breeder	Huzziff Family	**Dam**	Foxton Clarissa
Sire	Pukeroa TGM Manzello	**MGS**	Kirks RI Charisma ET GR

Production gBVs — 425 Daughters 223 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
27 kg	13 kg	-275 l	-43 kg	2.2 %
5.7 %	4.3 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.48	0.01	346 days	-1.2% / 87%	-5.4 days

TOP traits — 92 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.21				
Capacity	.18				
Udder Overall	.42				
Dairy Conformation	.34				

316035 Foxton LT **Fixation**

Jersey J16

Registered Pedigree

gBW $300/88 % REL

- A2A2
- Capacious daughters
- Well liked by farmers

Two-year-old daughter. Owner: Te Waiu Ltd, Waimate

Breeding Details

Breeder	Huzziff Family	**Dam**	Foxton Ascent Fancy
Sire	Lynbrook Terrific ET S3J	**MGS**	Shalendy Ideal Ascent S3J

Production gBVs — 414 Daughters 186 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
18 kg	1 kg	-631 l	-67 kg	3.0 %
6.0 %	4.4 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.11	0.35	474 days	-0.4% / 86%	4.2 days

TOP traits — 93 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.47				
Capacity	.67				
Udder Overall	.58				
Dairy Conformation	.50				

Individually $21.80 +gst

12/02/2021

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12/02/2021

Jersey Also Available

12/02/2021

		gBW	Rel.	Milkfat gBV	Protein gBV	Milk Volume gBV	Liveweight gBV	Fertility gBV	SCC gBV	Total Longevity gBV	Overall Opinion gBV	Capacity gBV	Udder Overall gBV	Cow Calving Difficulty gBV	Cow Calving Difficulty Rel.	Gestation Length gBV	A2 Protein	Price (+GST)
317037	Glenvue OI **Mighty**	319	80	35	12	-179	-64	-0.1	-0.14	347	-0.08	0.38	0.20	-1.0	81	0.3	A2A2	$21.80
313047	Evleen Integrity **Larson**	315	98	40	26	239	-22	0.6	-0.11	416	0.69	0.42	-0.18	-0.7	88	1.7	A2A2	$21.80
317034	Heuven Super **Wiseguy**^	296	80	32	16	-301	-37	4.2	0.19	280	0.49	0.33	0.13	-1.3	76	-6.4	A2A2	$18.95
316047	Linan Degree **Yeoman** ET	287	86	22	4	-486	-52	5.0	-0.21	386	0.08	0.49	0.40	0.0	71	-1.8	A2A2	$18.95
314011	Kaitaka OI **Leroy** ET	278	94	27	16	-171	-75	-2.3	-0.08	189	0.37	0.35	0.70	-0.8	84	3.1	A1A2	$16.95
315038	Ellison Murmur **Neon** S3J	275	93	21	3	-447	-72	1.7	-0.53	354	-0.20	0.18	-0.01	-1.5	76	-2.8	A2A2	$16.95
316003	Careys Thor **Limerick**	274	88	8	4	-495	-50	7.1	-0.03	685	-0.02	0.68	0.10	-0.7	78	-2.0	A2A2	$16.95
312034	Okura Goldie **Index**	273	98	33	18	30	-40	0.1	-0.21	226	0.32	0.29	0.06	-1.0	98	-1.4	A2A2	$14.95
315049	Kaimatarau Terrific **Punch**	267	87	20	11	-308	-42	4.7	0.18	412	0.29	0.76	1.04	-0.4	84	-0.7	A2A2	$14.95
313006	Kaimatarau Indy **Gollum**	265	91	13	3	-530	-66	4.7	-0.47	369	0.10	0.26	0.03	-0.8	84	-4.6	A2A2	$14.95
313016	Bonacord Murmur **Bolt**	264	98	18	0	-398	-68	3.4	-0.38	507	0.06	0.08	0.37	-0.6	96	0.7	A2A2	$14.95
317010	Bells LT **Fullspeed** S3J	263	81	33	16	-62	-21	2.8	0.79	343	0.34	0.92	0.01	-1.5	83	-6.1	A2A2	$14.95
312014	Chardonnay **Frankie**	262	97	8	6	-450	-63	5.2	-0.41	509	0.35	0.37	0.10	-0.7	93	0.3	A2A2	$14.95
312004	Glanton LT **Brahms**	262	98	38	17	-371	-26	-3.2	0.31	8	0.44	0.68	0.42	0.5	91	-2.7	A2A2	$14.95
312054	Tironui Mur **Kelston** S3J	259	89	16	5	-324	-62	2.6	-0.50	401	0.27	0.68	0.11	-1.6	65	-2.4	A2A2	$14.95
306016	Glenhaven TGM **Genius** S3J	256	99	23	4	-589	-29	5.6	0.06	427	0.31	0.05	0.34	-0.8	96	-2.4	A2A2	$14.95
311044	Bourkes LRT **Ripper**	248	97	18	-3	-501	-33	5.0	-0.49	399	0.18	0.71	0.77	-1.2	91	1.1	A2A2	$12.95
308076	Cluain WM **Hijinx** S3J	244	95	12	-5	-486	-40	8.8	-0.25	670	0.16	0.07	0.21	-0.2	71	-3.2	A2A2	$12.95
314025	Glanton Degree **Balkan** ET	243	95	21	3	-402	-55	1.3	-0.14	290	0.06	0.28	-0.05	0.7	83	-1.4	A1A2	$12.95
311029	Willand LT **Dynamo**	243	98	14	6	-410	-48	2.8	-0.04	511	0.41	0.19	0.74	-0.4	94	0.8	A2A2	$12.95
313002	Shelby Jive **Leighton** ET	241	89	16	8	-127	-53	1.0	-0.77	464	0.26	0.17	0.31	-1.9	69	-6.0	A1A2	$12.95
308128	Hillstar **Lot Jester** S3J	234	99	17	6	-374	-28	3.5	-0.36	418	0.30	0.46	0.63	-0.8	96	0.5	A1A2	$12.95
312057	Bells CM **Conrad** S2J	232	97	23	12	-123	-10	6.9	0.38	408	0.16	0.48	0.22	-0.6	98	-6.7	A2A2	$12.95
314005	Okura Elicit **Invoke** ET	232	87	19	5	-460	-45	3.1	0.09	245	0.31	0.22	0.77	-0.5	87	2.3	A2A2	$12.95
308066	Puketawa Mins **Supernova**^	215	99	26	1	-234	-37	-0.9	-0.18	211	0.47	0.46	0.44	-0.3	91	-2.0	A1A2	$12.95
306047	Williams TGM **Henry**^	212	99	17	-8	-804	-45	3.5	-0.11	160	0.18	0.30	0.48	-0.3	94	0.7	A2A2	$12.95
315025	Upland Park KS **Inquest** ET	211	89	7	4	-252	-30	9.1	-0.46	462	0.42	0.32	0.50	-1.0	75	0.2	A2A2	$12.95
308045	Rigters SN **Tuffy**	210	91	13	-6	-606	-45	3.5	-0.28	343	0.23	0.46	0.26	0.8	71	5.8	A2A2	$12.95
309090	Kerstens KRC **Ronaldo**^	209	98	28	12	-192	-23	-1.6	0.00	79	0.41	0.73	0.58	-1.3	90	-5.6	A2A2	$12.95
307055	Tironui **Meganev**	202	99	30	7	-152	-30	-1.9	-0.06	119	0.24	0.08	0.39	-0.8	96	-0.2	A1A2	$12.95
309012	Kelland KC **Speedway**	202	99	13	4	-287	-37	2.9	-0.15	412	0.30	0.28	1.00	-1.0	99	-4.7	A2A2	$12.95
313010	Makarios Murmur **Lazarus**	200	91	12	12	151	-41	2.4	-0.24	451	0.31	0.58	0.43	-1.0	88	1.7	A2A2	$12.95
314036	Upland Park MZ **Indiana** ET	189	94	2	-1	-752	-31	7.1	-0.04	330	0.21	0.42	0.32	0.0	82	3.0	A2A2	$10.95
310047	Upland Park HTA **Mali** S3J	189	98	13	7	-194	-50	0.9	-0.27	193	0.21	0.18	0.89	-1.2	87	-5.2	A2A2	$10.95
304126	Little River **Nirvana**	188	93	10	-9	-418	-76	1.2	-0.52	144	0.22	0.65	0.82	-1.8	71	-4.0	A1A1	$10.95
306040	Rigters OM **Tungsten**	188	98	12	-1	-555	-38	3.2	0.01	325	0.29	0.02	0.19	-1.5	88	0.5	A2A2	$10.95
304119	Hawthorn Grove **Zeus** ET	182	99	10	-9	-534	-58	2.9	-0.39	299	0.46	0.30	0.68	-1.5	94	-1.9	A2A2	$10.95
309030	Tawa Grove KRC **Tana**^	176	98	7	1	-627	-47	-0.7	-0.15	182	0.37	0.55	0.61	-1.0	89	-3.7	A2A2	$10.95
312031	Moehau SLO **Flame** S3J	176	91	-8	7	-467	-52	6.4	0.00	392	0.03	0.24	0.36	-1.2	67	0.6	A2A2	$10.95
313040	Fichtl 5-Star **Sultan** S3J	171	92	6	1	-516	-40	2.8	-0.08	209	0.19	0.80	0.64	-0.6	96	-3.4	A2A2	$8.95
311033	Prankerds LWT **Realist** S2J	167	87	7	6	-82	-51	2.3	-0.19	306	0.21	0.28	0.55	-1.9	62	-1.9	A1A2	$8.95
311006	Williams TH **Rox-On**	152	91	4	3	-388	-66	0.4	0.22	154	0.31	0.16	0.38	-2.1	67	-5.9	A2A2	$8.95
307037	Puketawa NN **Showdown** S3J	139	98	-1	-5	-559	-57	2.2	-0.07	265	0.14	-0.13	0.80	-1.0	83	-0.5	A2A2	$8.95
309085	Lynbrook RG **Trance** ET	138	98	-6	2	-183	-40	5.5	-0.30	343	0.21	0.23	0.84	-0.9	81	-3.5	A1A2	$8.95

^ Recessive Fertility Gene carrier

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KiwiCross®

TOP 5 Genomically Selected Rankings

Breeding Worth

National herd breed average
$ 111

Code	Name	gBW/Rel
520048	Baldricks **Touchdown**	381/56
520091	Marshall **Papamoa**	372/60
520033	Dowson **Honenui**-ET	366/49
518072	Deans **Professional**	344/58
520085	Snowline **Benji**	341/60

Protein

National herd breed average
14 kg

Code	Name	gBV
520047	Spring River **Kobe**-ET	34
520008	Julian **Multiplier**-ET	29
520048	Baldricks **Touchdown**	27
520085	Snowline **Benji**	26
520044	Wicklow **High Chaparral**	25

Fertility

National herd breed average
0.7 %

Code	Name	gBV
520033	Dowson **Honenui**-ET	6.3
519040	Kegzy **Rotary**	5.6
520078	Spring River **Jordy**	5.4
518072	Deans **Professional**	4.2
520048	Baldricks **Touchdown**	4.0

Capacity

National herd breed average
.20

Code	Name	gBV
520083	Gaskells **Swagger**-ET	1.10
520091	Marshall **Papamoa**	.86
520057	Bells **Pierce**	.78
520008	Julian **Multiplier**-ET	.69
518038	Werders **Premonition**	.63

Udder Overall

National herd breed average
.16

Code	Name	gBV
520033	Dowson **Honenui**-ET	1.05
520008	Julian **Multiplier**-ET	.91
520057	Bells **Pierce**	.91
518038	Werders **Premonition**	.85
520091	Marshall **Papamoa**	.80

520057 Bells **Pierce**

KiwiCross® F9J7

$316 gBW / 50% REL

Four-year-old dam. Owner: G & G Bell, Te Aroha

Breeding Details

Breeder	G & G Bell		
Sire	Shepherds Egmont-ET	**MGS**	Castlegrace Mako
Dam	Pauline	**MGD**	Paula
gBW/Rel	259/67	**gBW/Rel**	318/74
PW/Rel	578/75	**PW/Rel**	558/80

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
40 kg	23 kg	-100 l	0 kg
5.7 %	4.4 %		

Robustness

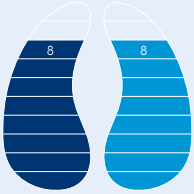
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.4 %	-0.04	0.18	55 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
455 days	0.2% / 27%	-0.6% / 33%	-2.2 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.40				
Shed Temperament	.46				
Milking Speed	.25				
Overall Opinion	.45				
Stature	-.33				
Capacity	.78				
Rump Angle	-.15				
Rump Width	-.08				
Legs	.05				
Udder Support	.84				
Front Udder	.92				
Rear Udder	1.08				
Front Teat Placement	-.22				
Rear Teat Placement	.14				
Udder Overall	.91				
Dairy Conformation	.63				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1324	A2 Protein	A2A2
High Input	1370		

520033 Dowson **Honenui**-ET

KiwiCross® F7J9

$366 gBW / 49% REL

Five-year-old dam. Owner: Dowson Farms, Tauranga

Breeding Details

Breeder	N & M Dowson		
Sire	Greenwell Blackhawk	**MGS**	Braedene Manz Trumpet ET
Dam	GNVV-15-2	**MGD**	GNVV-13-19
gBW/Rel	310/64	**gBW/Rel**	275/67
PW/Rel	464/77	**PW/Rel**	328/80

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
42 kg	22 kg	-289 l	10 kg
6.0 %	4.6 %		

Robustness

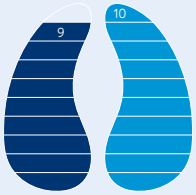
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
6.3 %	0.14	0.15	309 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
765 days	-1.6% / 28%	-0.8% / 32%	-4.9 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.34				
Shed Temperament	.37				
Milking Speed	.14				
Overall Opinion	.44				
Stature	.12				
Capacity	.58				
Rump Angle	.20				
Rump Width	.18				
Legs	.06				
Udder Support	.93				
Front Udder	1.01				
Rear Udder	.87				
Front Teat Placement	.44				
Rear Teat Placement	.59				
Udder Overall	1.05				
Dairy Conformation	.64				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1338	A2 Protein	A2A2
High Input	1397		

520091 Marshall **Papamoa**

KiwiCross® F6J10

$372/60% gBW REL

Breeding Details

Breeder	R & M Smith		
Sire	Bells OI Floyd S3J	**MGS**	Carsons Mecca Pulse S1F
Dam	CHNQ-17-338	**MGD**	CHNQ-13-39
gBW/Rel	327/64	**gBW/Rel**	324/67
PW/Rel	311/68	**PW/Rel**	497/79

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
41 kg	22 kg	-59 l	-21 kg
5.7 %	4.3 %		

Robustness

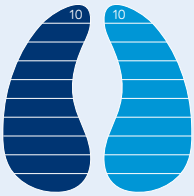
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.3 %	-0.02	0.23	294 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
731 days	-1.4% / 35%	-0.7% / 32%	-4.3 days

Genomic TOP traits

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	.24	
Shed Temperament	.25	
Milking Speed	.26	
Overall Opinion	.35	
Stature	-.50	
Capacity	.86	
Rump Angle	-.04	
Rump Width	.37	
Legs	.12	
Udder Support	.66	
Front Udder	.44	
Rear Udder	1.10	
Front Teat Placement	-.05	
Rear Teat Placement	.22	
Udder Overall	.80	
Dairy Conformation	.73	



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1337	A2 Protein	A1A2
High Input	1378		

520044 Wicklow **High Chaparral**

KiwiCross® F9J7

$333/51% gBW REL

Breeding Details

Breeder	J B Fleming Family Trust		
Sire	Werders Premonition	**MGS**	Tennant Darkstar-OC S1F
Dam	NVFW-14-24	**MGD**	NVFW-09-10
gBW/Rel	328/66	**gBW/Rel**	257/63
PW/Rel	306/79	**PW/Rel**	555/75

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
40 kg	25 kg	154 l	-24 kg
5.4 %	4.2 %		

Robustness

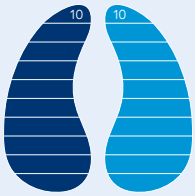
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.1 %	0.24	0.11	233 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
605 days	0.0% / 29%	-0.4% / 30%	-4.5 days

Genomic TOP traits

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	.44	
Shed Temperament	.45	
Milking Speed	.23	
Overall Opinion	.38	
Stature	-.63	
Capacity	.35	
Rump Angle	.00	
Rump Width	-.45	
Legs	.08	
Udder Support	.18	
Front Udder	.23	
Rear Udder	.20	
Front Teat Placement	.03	
Rear Teat Placement	.19	
Udder Overall	.24	
Dairy Conformation	.27	



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1284	A2 Protein	A2A2
High Input	1300		

Fertility 1 carrier

519040 Kegzy **Rotary**

KiwiCross® F10J6

gBW $332/63% REL

Breeding Details

Breeder	V & T Keegan		
Sire	Just Once Cooper	**MGS**	Fairmont Mint-Edition
Dam	Kegzy ME Pansy S0F	**MGD**	KNPW-05-5
gBW/Rel	292/72	**gBW/Rel**	183/63
PW/Rel	499/79	**PW/Rel**	498/77

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
44 kg	24 kg	95 l	8 kg
5.6 %	4.2 %		

Robustness

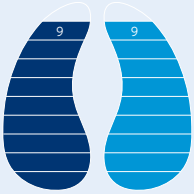
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.6 %	-0.06	0.02	224 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
647 days	-0.2% / 33%	-0.3% / 71%	-6.1 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.34				
Shed Temperament	.32				
Milking Speed	.09				
Overall Opinion	.40				
Stature	.22				
Capacity	.04				
Rump Angle	-.26				
Rump Width	-.17				
Legs	.06				
Udder Support	.35				
Front Udder	.26				
Rear Udder	.38				
Front Teat Placement	-.29				
Rear Teat Placement	.08				
Udder Overall	.24				
Dairy Conformation	.25				



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1281	A2 Protein	A1A2
High Input	1309		

Fertility 1 carrier

12/02/2021

520048 Baldricks **Touchdown**

KiwiCross® F9J7

gBW $381/56% REL

Breeding Details

Breeder	H & C O'Donnell		
Sire	Glen Koru Proclaimer-ET	**MGS**	Lynbrook Terrific ET S3J
Dam	KGQL-16-126	**MGD**	KGQL-14-123
gBW/Rel	304/69	**gBW/Rel**	206/61
PW/Rel	474/78	**PW/Rel**	382/76

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
46 kg	27 kg	6 l	-15 kg
5.7 %	4.4 %		

Robustness

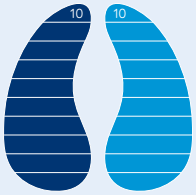
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.0 %	-0.21	0.19	17 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
537 days	0.2% / 28%	0.0% / 34%	3.2 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.28				
Shed Temperament	.28				
Milking Speed	.06				
Overall Opinion	.31				
Stature	-.23				
Capacity	.57				
Rump Angle	-.11				
Rump Width	-.07				
Legs	.06				
Udder Support	.40				
Front Udder	.29				
Rear Udder	.52				
Front Teat Placement	.12				
Rear Teat Placement	.09				
Udder Overall	.47				
Dairy Conformation	.57				



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1349	A2 Protein	A1A2
High Input	1383		

Fertility 1 carrier

520047 Spring River **Kobe**-ET

KiwiCross® F9J7

gBW $317/59% REL

Breeding Details

Breeder	P & D Lowe		
Sire	Glen Koru Beckon	**MGS**	San Ray FM Beamer-ET S2F
Dam	Kaylee	**MGD**	Spring River VHA Ivy S0F
gBW/Rel	282/68	**gBW/Rel**	261/75
PW/Rel	695/68	**PW/Rel**	460/80

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
62 kg	34 kg	506 l	22 kg
5.5 %	4.1 %		

Robustness

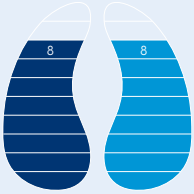
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.0 %	0.30	0.04	-79 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
255 days	0.8% / 34%	0.1% / 36%	-5.0 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.44				
Shed Temperament	.45				
Milking Speed	.15				
Overall Opinion	.58				
Stature	.34				
Capacity	.59				
Rump Angle	-.08				
Rump Width	.34				
Legs	.03				
Udder Support	.30				
Front Udder	.38				
Rear Udder	.43				
Front Teat Placement	.01				
Rear Teat Placement	-.13				
Udder Overall	.45				
Dairy Conformation	.58				



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1337	A2 Protein	A2A2
High Input	1356		

520083 Gaskells **Swagger**-ET

KiwiCross® F5J11

gBW $331/59% REL

Breeding Details

Breeder	K Gaskell		
Sire	Crescent Excell Misty ET	**MGS**	San Ray FM Beamer-ET S2F
Dam	Big Shoes	**MGD**	GLRV-13-14
gBW/Rel	334/66	**gBW/Rel**	269/70
PW/Rel	456/66	**PW/Rel**	547/79

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
35 kg	21 kg	-305 l	-6 kg
5.9 %	4.5 %		

Robustness

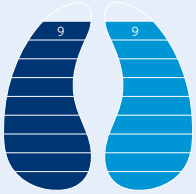
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.6 %	-0.18	0.29	104 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
528 days	-0.7% / 34%	-0.1% / 34%	-1.9 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.17				
Shed Temperament	.15				
Milking Speed	.24				
Overall Opinion	.26				
Stature	-.58				
Capacity	1.10				
Rump Angle	-.15				
Rump Width	.23				
Legs	.09				
Udder Support	.38				
Front Udder	.47				
Rear Udder	.36				
Front Teat Placement	.12				
Rear Teat Placement	.01				
Udder Overall	.47				
Dairy Conformation	.76				



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1306	A2 Protein	A2A2
High Input	1341		

518072 Deans **Professional**

KiwiCross® F7J9

$344/58% gBW REL

Breeding Details

Breeder	B & D Dean		
Sire	Tironui LT Besiege ET	**MGS**	Whinlea PF Esteem-ET S2F
Dam	GYMD-15-250	**MGD**	GYMD-10-110
gBW/Rel	289/67	**gBW/Rel**	280/70
PW/Rel	438/72	**PW/Rel**	626/80

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
41 kg	20 kg	66 l	-11 kg
5.5 %	4.2 %		

Robustness

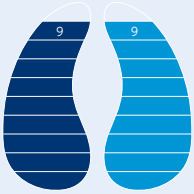
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.2 %	-0.15	0.21	255 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
703 days	0.3% / 96%	0.0% / 89%	-3.1 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.31				
Shed Temperament	.32				
Milking Speed	.05				
Overall Opinion	.31				
Stature	-.22				
Capacity	.37				
Rump Angle	-.08				
Rump Width	.39				
Legs	-.02				
Udder Support	.30				
Front Udder	.16				
Rear Udder	.34				
Front Teat Placement	-.04				
Rear Teat Placement	-.12				
Udder Overall	.30				
Dairy Conformation	.49				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1277	A2 Protein	A2A2
High Input	1310		

520008 Julian **Multiplier**-ET

KiwiCross® F9J7

$335/56% gBW REL

Breeding Details

Breeder	K & R Julian		
Sire	Glen Koru Proclaimer-ET	**MGS**	Okura Lika Murmur S3J
Dam	HJQB-11-6	**MGD**	HJQB-09-18
gBW/Rel	287/70	**gBW/Rel**	186/60
PW/Rel	466/79	**PW/Rel**	354/75

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
41 kg	29 kg	232 l	-15 kg
5.4 %	4.2 %		

Robustness

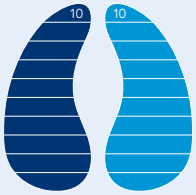
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.5 %	-0.01	0.04	182 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
586 days	0.0% / 29%	-0.3% / 34%	-2.9 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.02				
Shed Temperament	.01				
Milking Speed	.02				
Overall Opinion	.19				
Stature	-.37				
Capacity	.69				
Rump Angle	-.06				
Rump Width	-.25				
Legs	.02				
Udder Support	.77				
Front Udder	.84				
Rear Udder	.90				
Front Teat Placement	.16				
Rear Teat Placement	.31				
Udder Overall	.91				
Dairy Conformation	.69				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1337	A2 Protein	A2A2
High Input	1375		

518038 Werders **Premonition**

KiwiCross® F8J8

$317 gBW / 62% REL

Six-year-old dam. Owner: T & C Werder, Patea

Breeding Details

Breeder	T & C Werder		
Sire	Priests Sierra	**MGS**	Marsden NN Excell ET
Dam	BMWJ-13-65	**MGD**	BMWJ-10-9
gBW/Rel	230/69	**gBW/Rel**	206/64
PW/Rel	459/76	**PW/Rel**	256/77

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
45 kg	22 kg	16 l	17 kg
5.7 %	4.2 %		

Robustness

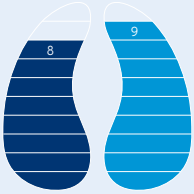
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.8 %	-0.29	0.11	129 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
539 days	-0.1% / 96%	-0.3% / 85%	-7.2 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.50				
Shed Temperament	.53				
Milking Speed	.17				
Overall Opinion	.54				
Stature	.20				
Capacity	.63				
Rump Angle	-.14				
Rump Width	-.08				
Legs	.05				
Udder Support	.80				
Front Udder	.72				
Rear Udder	.74				
Front Teat Placement	.48				
Rear Teat Placement	1.05				
Udder Overall	.85				
Dairy Conformation	.74				



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1325	A2 Protein	A2A2
High Input	1359		

Fertility 1 carrier

520078 Spring River **Jordy**

KiwiCross® F6J10

$327 gBW / 58% REL

Breeding Details

Breeder	P & D Lowe		
Sire	Crescent Excell Misty ET	**MGS**	Galatea MGH Regiment S1F
Dam	Koco	**MGD**	Glen Koru E-Imp Erina
gBW/Rel	265/63	**gBW/Rel**	188/74
PW/Rel	284/58	**PW/Rel**	354/81

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
30 kg	20 kg	-221 l	-4 kg
5.7 %	4.4 %		

Robustness

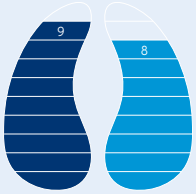
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.4 %	-0.03	0.35	195 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
684 days	-0.2% / 34%	-0.1% / 34%	-2.0 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.13				
Shed Temperament	.15				
Milking Speed	.13				
Overall Opinion	.20				
Stature	-.20				
Capacity	.55				
Rump Angle	-.30				
Rump Width	.05				
Legs	-.01				
Udder Support	.35				
Front Udder	.49				
Rear Udder	.37				
Front Teat Placement	-.22				
Rear Teat Placement	-.41				
Udder Overall	.38				
Dairy Conformation	.38				



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Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1256	A2 Protein	A2A2
High Input	1311		

520085 Snowline **Benji**

KiwiCross® F12J4

$341 gBW / 60% REL

Breeding Details

Breeder	B & M McDonald		
Sire	Glen Koru Ethos-ET S1F	**MGS**	Arkans Perspective-ET
Dam	DPJG-14-11	**MGD**	DPJG-11-26
gBW/Rel	295/68	**gBW/Rel**	210/63
PW/Rel	404/78	**PW/Rel**	348/77

Genomic Production gBVs

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
52 kg	26 kg	51 l	25 kg
5.8 %	4.3 %		

Robustness

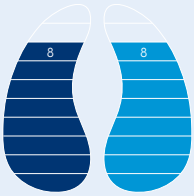
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.9 %	-0.19	0.20	-12 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
451 days	-0.3% / 32%	-0.4% / 34%	-5.2 days

Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.01				
Shed Temperament	.05				
Milking Speed	.01				
Overall Opinion	.02				
Stature	.33				
Capacity	.30				
Rump Angle	.61				
Rump Width	.04				
Legs	-.10				
Udder Support	.24				
Front Udder	.25				
Rear Udder	.29				
Front Teat Placement	.02				
Rear Teat Placement	.15				
Udder Overall	.29				
Dairy Conformation	.36				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1305	A2 Protein	A1A2
High Input	1338		

Fertility 1 carrier

12/02/2021

Genomically Selected

Want the very latest genetics?

Individually $31.95

Genomic Packs from $25.97*

*Includes 10% InvestaMate discount

2021 Yearling Bulls

This season the Alpha yearling bulls won't be selected until September.

Due to their age, the earliest these bulls can be collected from is mid-winter and this has caused some supply issues in the past. LIC has therefore decided to wait until straws have been collected before announcing the 2021 yearling sires.

Yearling bulls will be exclusively available for purchase via Alpha. So, if you're looking to fast track your genetic gain and/or want access to the yearling bulls our Bull Acquisition team are using, make sure you register your interest with your LIC Agri Manager. Alternatively view the bulls online in September lic.co.nz/alpha

TOP 5 Daughter Proven Rankings

Breeding Worth

National herd breed average
$ 111

Code	Name	gBW/Rel
517067	Cawdor **Pinnacle**	376/81
517043	Glen Koru **Proclaimer**-ET	365/81
517026	Howses **Springfield**	327/80
516066	Walton **Inferno**	324/86
515025	Speakes **Slipstream** ET	317/86

Protein

National herd breed average
14 kg

Code	Name	gBV
517055	Taramont **Springtide**	42
517069	Brookstead **Cadence**	39
516074	Crossans **Critical**-ET	38
517043	Glen Koru **Proclaimer**-ET	37
514017	Glen Koru **Beckon**	34

Milkfat

National herd breed average
13 kg

Code	Name	gBV
517043	Glen Koru **Proclaimer**-ET	54
514017	Glen Koru **Beckon**	54
517055	Taramont **Springtide**	44
517067	Cawdor **Pinnacle**	43
517060	Kegzys **Remarkable**	43

Milk Volume

National herd breed average
185 litres

Code	Name	gBV
516074	Crossans **Critical**-ET	888
517055	Taramont **Springtide**	838
517069	Brookstead **Cadence**	822
514017	Glen Koru **Beckon**	542
517043	Glen Koru **Proclaimer**-ET	512

Fertility

National herd breed average
0.7 %

Code	Name	gBV
515025	Speakes **Slipstream** ET	6.6
517026	Howses **Springfield**	4.6
511011	Priests **Sierra**	3.8
517073	Lynbrook **Knockout**	3.0
517001	Arkans **Patriarch**-ET	3.0

Total Longevity

National herd breed average
196 days

Code	Name	gBV
511011	Priests **Sierra**	660
517069	Brookstead **Cadence**	658
515025	Speakes **Slipstream** ET	637
517067	Cawdor **Pinnacle**	584
517073	Lynbrook **Knockout**	570

Somatic Cell Score

National herd breed average
0.00

Code	Name	gBV
517026	Howses **Springfield**	-0.94
516066	Walton **Inferno**	-0.56
516074	Crossans **Critical**-ET	-0.35
517073	Lynbrook **Knockout**	-0.32
517060	Kegzys **Remarkable**	-0.32

Capacity

National herd breed average
.20

Code	Name	gBV
517073	Lynbrook **Knockout**	1.12
517003	Arkans **Battleship**	1.02
517055	Taramont **Springtide**	.93
517026	Howses **Springfield**	.91
516074	Crossans **Critical**-ET	.74

Udder Overall

National herd breed average
.16

Code	Name	gBV
515025	Speakes **Slipstream** ET	1.10
517001	Arkans **Patriarch**-ET	1.07
517055	Taramont **Springtide**	1.05
517042	Luck-at-Last **Inspired**-ET	.71
517069	Brookstead **Cadence**	.68

Overall Opinion

National herd breed average
.15

Code	Name	gBV
514017	Glen Koru **Beckon**	.59
511011	Priests **Sierra**	.56
517055	Taramont **Springtide**	.49
517060	Kegzys **Remarkable**	.48
517043	Glen Koru **Proclaimer**-ET	.47

517026 Howses **Springfield**

Available in 4M

Premier Sire

Genomic graduate

KiwiCross® F9J7

gBW $327/80% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: Aramaunga Farms Ltd, Stratford

Two-year-old daughter. Owner: Apex Farming Ltd, Te Awamutu

Breeding Details

Breeder	B & W Howse	**Dam**	KLMH-13-10
Sire	Drysdales Sovereign	**MGS**	Arkans Boomtown

Production gBVs

109 Daughters 39 Herds

Production Efficiency

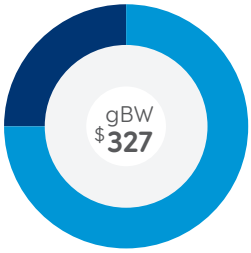
Milkfat	Protein	Milk Volume	Liveweight
35 kg	19 kg	-234 l	3 kg
5.8 %	4.4 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.6 %	-0.94	0.13	49 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
544 days	-0.8% / 95%	-0.7% / 93%	-1.9 days



Production efficiency	$246	75%
Robustness	$81	25%

TOP traits

97 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.26				
Shed Temperament	.25				
Milking Speed	.13				
Overall Opinion	.36				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.02				
Capacity	.91				
Rump Angle	.47				
Rump Width	.24				
Legs	.26				
Udder Support	.64				
Front Udder	.54				
Rear Udder	.23				
Front Teat Placement	.38				
Rear Teat Placement	.80				
Udder Overall	.52				
Dairy Conformation	.60				

New Zealand Genetics 59 %
Fertility 1 carrier

12/02/2021

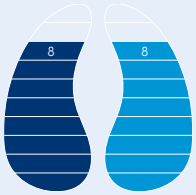
LIC Initiatives

Once-A-Day	1329	A2 Protein	A2A2
High Input	1354		

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



515025 Speakes **Slipstream** ET

KiwiCross® F6J10

gBW $317/86 % REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire | Top 5 gBW | Phenomenal udders

Breeding Details

Breeder	M & F Speake	**Dam**	Blackjack M Sparkles S0F
Sire	Pukeroa TGM Manzello	**MGS**	Fairmont Mint-Edition

Production gBVs

86 Daughters 30 Herds

Production Efficiency

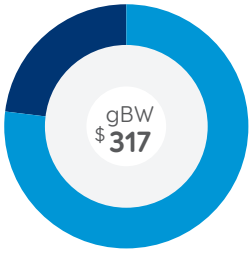
Milkfat	Protein	Milk Volume	Liveweight
39 kg	17 kg	-10 l	-3 kg
5.6 %	4.2 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
6.6 %	-0.07	0.08	214 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
637 days	0.2% / 98%	-0.4% / 92%	1.3 days



Production efficiency	$244	77%
Robustness	$73	23%

Three-year-old daughter. Owner: J & S Shewan, Hamilton

Three-year-old daughter. Owner: Bouton Farming Limited, Walton

TOP traits

81 Daughters TOP Inspected

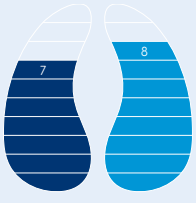
Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.32				
Shed Temperament	.28				
Milking Speed	.24				
Overall Opinion	.33				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.12				
Capacity	.48				
Rump Angle	-.07				
Rump Width	.43				
Legs	-.04				
Udder Support	.95				
Front Udder	.98				
Rear Udder	1.03				
Front Teat Placement	.24				
Rear Teat Placement	.41				
Udder Overall	1.10				
Dairy Conformation	.51				

New Zealand Genetics 64 %

12/02/2021

LIC Initiatives

Once-A-Day	1308	A2 Protein	A2A2
High Input	1359		



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

516066 Walton **Inferno**

Premier Sire

Top 5 gBW

KiwiCross® F9J7

gBW $324/86 % REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	P & P Snoxell	**Dam**	GMWY-13-32
Sire	Priests Solaris-ET	**MGS**	Howies Checkpoint

Production gBVs

119 Daughters 36 Herds

Production Efficiency

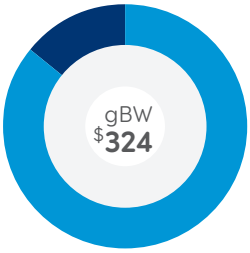
Milkfat	Protein	Milk Volume	Liveweight
38 kg	31 kg	229 l	-3 kg
5.3 %	4.3 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.6 %	-0.56	0.12	27 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
495 days	-1.1% / 64%	-0.9% / 83%	-8.2 days



Production efficiency	$279	86%
Robustness	$45	14%

Two-year-old daughter. Owner: Bouton Farming Limited, Walton

Two-year-old daughter. Owner: Jakero Farms, Otorohanga

TOP traits

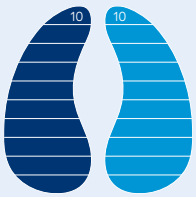
107 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.48				
Shed Temperament	.45				
Milking Speed	.15				
Overall Opinion	.43				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.07				
Capacity	.31				
Rump Angle	-.16				
Rump Width	-.26				
Legs	-.04				
Udder Support	.27				
Front Udder	.35				
Rear Udder	.03				
Front Teat Placement	.53				
Rear Teat Placement	.67				
Udder Overall	.34				
Dairy Conformation	.38				

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



New Zealand Genetics 67 %

12/02/2021

LIC Initiatives

Once-A-Day	1317	A2 Protein	A2A2
High Input	1319		

517055 Taramont **Springtide**

KiwiCross® F10J6

gBW $242/81% REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Top 5 production | Phenomenal udders | Top 5 capacity

Breeding Details

Breeder	J & S Webster	**Dam**	Taramont Riley Spring
Sire	Drysdales Sovereign	**MGS**	Burwells Riley

Production gBVs

111 Daughters 43 Herds

Production Efficiency

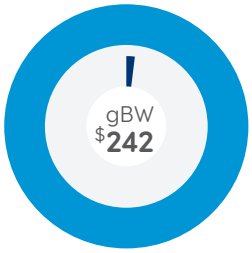
Milkfat	Protein	Milk Volume	Liveweight
44 kg	42 kg	838 l	30 kg
4.8 %	4.0 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-0.6 %	0.33	0.00	92 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
387 days	0.0% / 43%	-0.9% / 73%	-9.8 days



Production efficiency	$248	102%
Robustness	-$6	-2%

TOP traits

100 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.43				
Shed Temperament	.45				
Milking Speed	.28				
Overall Opinion	.49				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.33				
Capacity	.93				
Rump Angle	-.30				
Rump Width	.67				
Legs	.00				
Udder Support	1.29				
Front Udder	.78				
Rear Udder	.87				
Front Teat Placement	.42				
Rear Teat Placement	1.54				
Udder Overall	1.05				
Dairy Conformation	1.08				

New Zealand Genetics 55 %

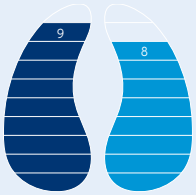
12/02/2021

LIC Initiatives

Once-A-Day	1345	A2 Protein	A2A2
High Input	1374		

Two-year-old daughter. Owner: J & S Shewan, Hamilton

Two-year-old daughter. Owner: Peatlands, Morrinsville



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

517060 Kegzys **Remarkable**

Premier Sire

Top 5 milkfat

KiwiCross® F10J6

gBW $283/79% REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	V & T Keegan	**Dam**	Kegzy ME Pansy S0F
Sire	Drysdales Sovereign	**MGS**	Fairmont Mint-Edition

Production gBVs

90 Daughters 32 Herds

Production Efficiency

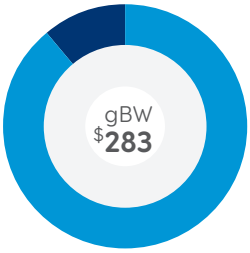
Milkfat	Protein	Milk Volume	Liveweight
43 kg	30 kg	327 l	20 kg
5.3 %	4.2 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.3 %	-0.32	0.03	17 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
410 days	0.0% / 41%	0.7% / 69%	-0.7 days



Production efficiency	$252	89%
Robustness	$31	11%

Two-year-old daughter. Owner: J D McKay & A C Brown, Rotorua

Two-year-old daughter. Owner: Aramaunga Farms Ltd, Stratford

TOP traits

86 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.43				
Shed Temperament	.38				
Milking Speed	.09				
Overall Opinion	.48				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.37				
Capacity	.46				
Rump Angle	.12				
Rump Width	.38				
Legs	.04				
Udder Support	.74				
Front Udder	.57				
Rear Udder	.35				
Front Teat Placement	.16				
Rear Teat Placement	.24				
Udder Overall	.62				
Dairy Conformation	.48				

New Zealand Genetics 52 %
Fertility 1 carrier

12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1314	A2 Protein	A1A2
High Input	1336		

517043 Glen Koru **Proclaimer**-ET

KiwiCross® F11J5

gBW $365/81% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire | Top 5 gBW | Genomic graduate

Breeding Details

Breeder	D & K Camp	**Dam**	Glen Koru Flo ET
Sire	Gydeland Excel Inca S3F	**MGS**	Nevron Showman

Production gBVs

110 Daughters 39 Herds

Production Efficiency

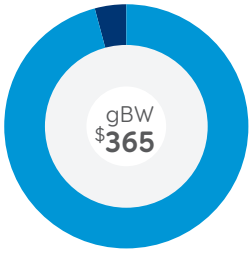
Milkfat	Protein	Milk Volume	Liveweight
54 kg	37 kg	512 l	-6 kg
5.3 %	4.1 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.3 %	0.09	0.04	70 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
504 days	1.8% / 77%	0.1% / 94%	2.2 days



Production efficiency	$349	96%
Robustness	$16	4%

TOP traits

103 Daughters TOP Inspected

Management	gBV	-0.5 0 0.5 1.0
Adapts to Milking	.37	
Shed Temperament	.37	
Milking Speed	-.02	
Overall Opinion	.47	
Conformation	**gBV**	**-0.5 0 0.5 1.0**
Stature	-.13	
Capacity	.54	
Rump Angle	.15	
Rump Width	-.44	
Legs	.05	
Udder Support	.15	
Front Udder	.07	
Rear Udder	.22	
Front Teat Placement	-.06	
Rear Teat Placement	.03	
Udder Overall	.18	
Dairy Conformation	.46	

New Zealand Genetics 42 %

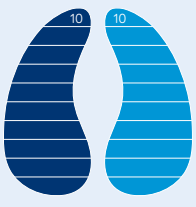
12/02/2021

LIC Initiatives

Once-A-Day	1343	A2 Protein	A2A2
High Input	1360		

Two-year-old daughter. Owner: Cow Freaks Ltd, Te Awamutu

Two-year-old daughter. Owner: G M & H M Julian, New Plymouth



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

511011 Priests **Sierra**

#1 Longevity

Top 5 fertility

KiwiCross® F11J5

gBW $283/99 % REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	R Priest	**Dam**	HHRY-07-32
Sire	Fairmont Mint-Edition	**MGS**	Ingrams Ramrod

Production gBVs

65087 Daughters 4769 Herds

Production Efficiency

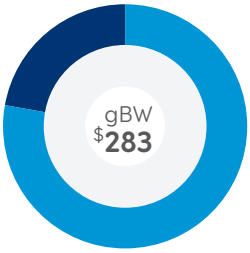
Milkfat	Protein	Milk Volume	Liveweight
42 kg	28 kg	418 l	29 kg
5.2 %	4.0 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.8 %	-0.16	0.06	278 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
660 days	2.0% / 99%	0.0% / 99%	-6.5 days



Production efficiency	$220	78%
Robustness	$63	22%

Two-year-old daughter. Owner: Dewdney Farm Partnership, Morrinsville

Two-year-old daughter. Owner: CDH Farming Ltd, Opunake

TOP traits

454 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.60				
Shed Temperament	.65				
Milking Speed	.07				
Overall Opinion	.56				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.54				
Capacity	.55				
Rump Angle	-.06				
Rump Width	.12				
Legs	.08				
Udder Support	.65				
Front Udder	.45				
Rear Udder	.66				
Front Teat Placement	.25				
Rear Teat Placement	1.09				
Udder Overall	.54				
Dairy Conformation	.68				

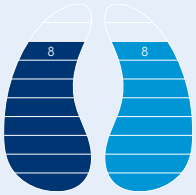
New Zealand Genetics 50 %
Fertility 1 carrier

12/02/2021

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



LIC Initiatives

Once-A-Day	1281	A2 Protein	A2A2
High Input	1313		

517003 Arkans **Battleship**

KiwiCross® F9J7

gBW $276/81% REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: Kaihere Farms Ltd, Ngatea

Breeding Details

Breeder	S & K Anderson	**Dam**	MHT-12-93
Sire	Drysdales Sovereign	**MGS**	Waiwira Warlord

Production gBVs

127 Daughters 47 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
39 kg	24 kg	176 l	16 kg
5.4 %	4.2 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.5 %	0.05	0.25	167 days

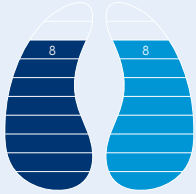
Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
504 days	0.9% / 74%	0.0% / 80%	-8.7 days

TOP traits

119 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.24				
Shed Temperament	.28				
Milking Speed	.17				
Overall Opinion	.34				
Stature	-.40				
Capacity	1.02				
Rump Angle	.58				
Rump Width	.09				
Legs	.08				
Udder Support	.35				
Front Udder	-.05				
Rear Udder	.38				
Front Teat Placement	.40				
Rear Teat Placement	.50				
Udder Overall	.39				
Dairy Conformation	.85				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1268	A2 Protein	A2A2
High Input	1298		

Fertility 1 carrier

21/02/2020

517067 Cawdor **Pinnacle**

KiwiCross® F9J7

gBW $376/81% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Four-year-old dam. Owner: F & C MacBeth, Nelson

Breeding Details

Breeder	F & C MacBeth	**Dam**	Cawdor IN Panarama ET S1J
Sire	San Ray FM Beamer-ET S2F	**MGS**	Okura LT Integrity

Production gBVs

115 Daughters 61 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
43 kg	27 kg	54 l	-58 kg
5.6 %	4.3 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.7 %	0.57	-0.12	255 days

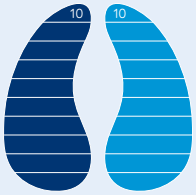
Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
584 days	-1.4% / 79%	-0.2% / 88%	-4.3 days

TOP traits

91 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	-.20				
Shed Temperament	-.18				
Milking Speed	.21				
Overall Opinion	.03				
Stature	-1.05				
Capacity	.23				
Rump Angle	.49				
Rump Width	.09				
Legs	.26				
Udder Support	.28				
Front Udder	.14				
Rear Udder	.32				
Front Teat Placement	.20				
Rear Teat Placement	.58				
Udder Overall	.27				
Dairy Conformation	.17				



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

LIC Initiatives

Once-A-Day	1336	A2 Protein	A2A2
High Input	1337		

517069 Brookstead **Cadence**

Premier Sire | Top 5 udders | Genomic graduate

Two-year-old daughter. Owner: Peatlands, Morrinsville

Two-year-old daughter. Owner: Cow Freaks Ltd, Te Awamutu

KiwiCross® F12J4

gBW $266/80 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	R & J Hamilton	**Dam**	GJGT-13-54
Sire	Mourne Grove Hothouse S2F	**MGS**	Serpentine Crusader

Production gBVs

101 Daughters 38 Herds

Production Efficiency

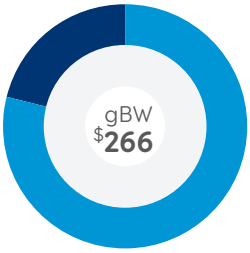
Milkfat	Protein	Milk Volume	Liveweight
38 kg	39 kg	822 l	29 kg
4.7 %	3.9 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.5 %	0.18	0.24	232 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
658 days	3.1% / 44%	0.9% / 79%	-4.8 days



Production efficiency	$209	79%
Robustness	$57	21%

TOP traits

93 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.26				
Shed Temperament	.26				
Milking Speed	-.22				
Overall Opinion	.39				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.07				
Capacity	.74				
Rump Angle	-.60				
Rump Width	.56				
Legs	-.03				
Udder Support	.60				
Front Udder	.71				
Rear Udder	.35				
Front Teat Placement	.45				
Rear Teat Placement	.27				
Udder Overall	.68				
Dairy Conformation	.62				

New Zealand Genetics 51 %

12/02/2021

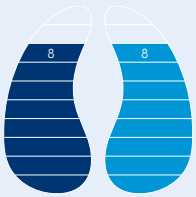
LIC Initiatives

Once-A-Day	1264	A2 Protein	A2A2
High Input	1319		

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



517001 Arkans **Patriarch**-ET

KiwiCross® F10J6

gBW $294/83% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Available in 4M

Premier Sire

Genomic graduate

Breeding Details

Breeder	S & K Anderson	**Dam**	Arkans Priscilla
Sire	Kraakmans Jaydie	**MGS**	Fairmont Mint-Edition

Production gBVs

174 Daughters 71 Herds

Production Efficiency

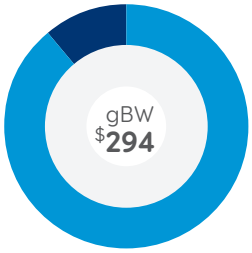
Milkfat	Protein	Milk Volume	Liveweight
38 kg	18 kg	5 l	-17 kg
5.6 %	4.2 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.0 %	0.20	0.06	163 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
486 days	0.0% / 85%	-0.9% / 89%	-4.1 days



Production efficiency	$260	89%
Robustness	$34	11%

Six-year-old dam. Owner: S & K Anderson, Otorohanga

Two-year-old daughter. Owner: Payne Farms Ltd, Cambridge

TOP traits

103 Daughters TOP Inspected

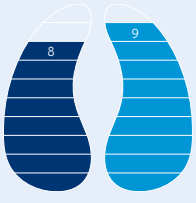
Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.18				
Shed Temperament	.15				
Milking Speed	.36				
Overall Opinion	.34				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.38				
Capacity	.28				
Rump Angle	-.19				
Rump Width	.23				
Legs	.01				
Udder Support	.92				
Front Udder	1.06				
Rear Udder	1.07				
Front Teat Placement	.16				
Rear Teat Placement	.62				
Udder Overall	1.07				
Dairy Conformation	.42				

New Zealand Genetics 47 %

12/02/2021

LIC Initiatives

Once-A-Day	1299	A2 Protein	A1A2
High Input	1331		



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

516074 Crossans **Critical**-ET

Premier Sire | Top 5 capacity | Genomic graduate

KiwiCross® F10J6

gBW $290/90 % REL

Individually $32.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	P & J Crossan	**Dam**	CWHV-13-1
Sire	Kraakmans Jaydie	**MGS**	Alcameno Commander

Production gBVs

1457 Daughters 482 Herds

Production Efficiency

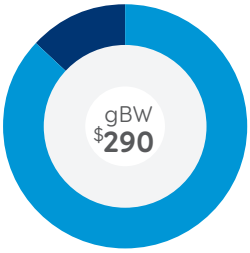
Milkfat	Protein	Milk Volume	Liveweight
38 kg	38 kg	888 l	-8 kg
4.7 %	3.9 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.2 %	-0.35	0.09	18 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
492 days	-0.7% / 97%	-0.3% / 92%	-7.6 days



Production efficiency	$253	87%
Robustness	$37	13%

Two-year-old dam. Owner: P & J Crossan, Te Puke

Two-year-old daughter. Owner: Tanad Farms Ltd, Te Puke

TOP traits

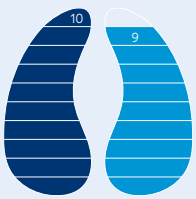
96 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.42				
Shed Temperament	.41				
Milking Speed	.08				
Overall Opinion	.45				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.50				
Capacity	.74				
Rump Angle	.05				
Rump Width	-.45				
Legs	.15				
Udder Support	.53				
Front Udder	.48				
Rear Udder	.49				
Front Teat Placement	.35				
Rear Teat Placement	.88				
Udder Overall	.50				
Dairy Conformation	.51				

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



New Zealand Genetics 48 %

12/02/2021

LIC Initiatives

Once-A-Day	1318	A2 Protein	A2A2
High Input	1338		

517042 Luck-at-Last **Inspired**-ET

KiwiCross® F9J7

gBW $301/81% REL

Individually $34.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Available in 4M

Premier Sire

Genomic graduate

Two-year-old daughter. Owner: Cow Freaks Ltd, Te Awamutu

Breeding Details

Breeder	G & M Shaw	**Dam**	BGLG-11-3
Sire	San Ray FM Beamer-ET S2F	**MGS**	Lynbrook Terrific ET S3J

Production gBVs

108 Daughters 38 Herds

Production Efficiency

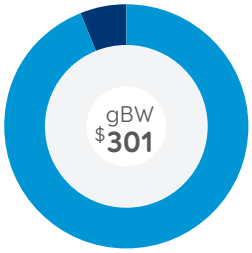
Milkfat	Protein	Milk Volume	Liveweight
41 kg	28 kg	476 l	-25 kg
5.1 %	4.0 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.4 %	0.19	0.09	79 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
444 days	0.3% / 97%	-0.7% / 90%	-6.0 days



Production efficiency	$283	94%
Robustness	$18	6%

TOP traits

94 Daughters TOP Inspected

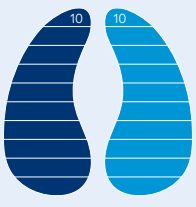
Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.20				
Shed Temperament	.15				
Milking Speed	.22				
Overall Opinion	.30				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.57				
Capacity	.69				
Rump Angle	.30				
Rump Width	.52				
Legs	.33				
Udder Support	.67				
Front Udder	.45				
Rear Udder	.93				
Front Teat Placement	-.07				
Rear Teat Placement	.44				
Udder Overall	.71				
Dairy Conformation	.63				

New Zealand Genetics 50 %

12/02/2021

LIC Initiatives

Once-A-Day	1313	A2 Protein	A2A2
High Input	1342		



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

514017 Glen Koru **Beckon**

Premier Sire | Top 5 production | Genomic graduate

Three-year-old daughter. Owner: Hermansen Family Trust, Rotorua

KiwiCross® F5J11

gBW $295/87 % REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	D & K Camp	**Dam**	Glen Koru Nsea Becca S0F
Sire	Pukeroa TGM Manzello	**MGS**	Scotts Northsea

Production gBVs

113 Daughters 56 Herds

Production Efficiency

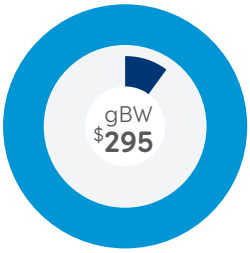
Milkfat	Protein	Milk Volume	Liveweight
54 kg	34 kg	542 l	-2 kg
5.3 %	4.0 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-0.3 %	-0.12	-0.08	-235 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
108 days	1.1% / 99%	0.0% / 98 %	-5.3 days



Production efficiency	$325	110%
Robustness	-$30	-10%

TOP traits

104 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.49				
Shed Temperament	.51				
Milking Speed	.25				
Overall Opinion	.59				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.00				
Capacity	.63				
Rump Angle	-.78				
Rump Width	.51				
Legs	.04				
Udder Support	.07				
Front Udder	.42				
Rear Udder	.05				
Front Teat Placement	.02				
Rear Teat Placement	-.05				
Udder Overall	.24				
Dairy Conformation	.54				

New Zealand Genetics 71 %

12/02/2021

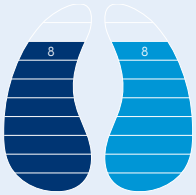
LIC Initiatives

Once-A-Day	1333	A2 Protein	A2A2
High Input	1328		

HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency



517073 Lynbrook **Knockout**

KiwiCross® F9J6A1

gBW $294/80 % REL

Individually $30.95 +gst

Classic Packs from $20.84* +gst

*Includes 10% InvestaMate discount

Premier Sire | Top 5 fertility | #1 capacity

Breeding Details

Breeder	S & N Ireland	**Dam**	Lynbrook LM Karen
Sire	San Ray FM Beamer-ET S2F	**MGS**	Okura Lika Murmur S3J

Production gBVs

83 Daughters 34 Herds

Production Efficiency

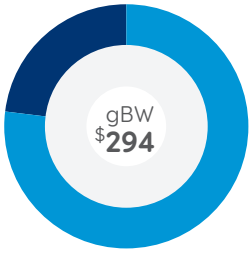
Milkfat	Protein	Milk Volume	Liveweight
40 kg	31 kg	291 l	33 kg
5.3 %	4.2 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.0 %	-0.32	0.25	110 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
570 days	0.6% / 43%	-1.2% / 69%	-1.7 days



Production efficiency	$227	77%
Robustness	$67	23%

Two-year-old daughter. Owner: SM & SM Hooker Limited, New Plymouth.

Two-year-old daughter. Owner: SM & SM Hooker Limited, New Plymouth.

TOP traits

78 Daughters TOP Inspected

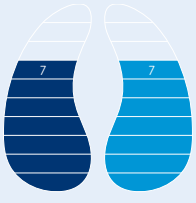
Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.03				
Shed Temperament	-.06				
Milking Speed	.15				
Overall Opinion	.27				
Conformation	**gBV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.26				
Capacity	1.12				
Rump Angle	.22				
Rump Width	.67				
Legs	.05				
Udder Support	.18				
Front Udder	.48				
Rear Udder	.45				
Front Teat Placement	.14				
Rear Teat Placement	-.17				
Udder Overall	.45				
Dairy Conformation	.93				

New Zealand Genetics 51 %

12/02/2021

LIC Initiatives

Once-A-Day	1281	A2 Protein	A1A2
High Input	1322		



HOOFPRINT®

Methane Efficiency

Nitrogen Efficiency

Daughter Proven

516015 Hyjinks **Snapper**

KiwiCross® F7J9

gBW $264/90% REL

- A1A2
- High fertility
- Good udders

Two-year-old daughter. Owner: Cow Freaks Ltd, Te Awamutu

Breeding Details

Breeder	E & D Jenkins	**Dam**	BJKP-10-6
Sire	Lynbrook Terrific ET S3J	**MGS**	Fairmont Mint-Edition

Production gBVs — 1481 Daughters 462 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
28 kg	12 kg	-6 l	-2 kg	4.2 %
5.4 %	4.1 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.12	0.37	612 days	0.3% / 92%	1.3 days

TOP traits — 103 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.52				
Capacity	.46				
Udder Overall	.64				
Dairy Conformation	.44				

515062 Duggans **Gameplan**

KiwiCross® F4J12

gBW $303/88% REL

- A2A2
- High gBW
- Great udders

Two-year-old daughter. Owner: Bracadale Farms Ltd, Walton

Breeding Details

Breeder	R & J Duggan	**Dam**	Duggan's Glamour
Sire	Pukeroa TGM Manzello	**MGS**	Scotts Northsea

Production gBVs — 109 Daughters 46 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
36 kg	10 kg	-550 l	-36 kg	0.9 %
6.3 %	4.5 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
0.06	0.05	255 days	-0.6% / 91%	-6.4 days

TOP traits — 90 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.43				
Capacity	.23				
Udder Overall	.66				
Dairy Conformation	.31				

516043 Arkans **Boombox**-ET

KiwiCross® F11J5

gBW $222/89% REL

- A2A2
- Extreme capacity
- Superior udders

Two-year-old daughter. Owner: G & A Wellington, Stratford

Breeding Details

Breeder	S & K Anderson	**Dam**	MHT-12-16
Sire	Kraakmans Jaydie	**MGS**	Fairmont Mint-Edition

Production gBVs — 1301 Daughters 435 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
23 kg	32 kg	729 l	-6 kg	0.7 %
4.5 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.44	0.23	463 days	0.0% / 84%	3.5 days

TOP traits — 75 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.48				
Capacity	.90				
Udder Overall	1.13				
Dairy Conformation	.81				

514018 Glen Koru **Epic**

KiwiCross® F7J9

gBW $237/90% REL

- A2A2
- Good longevity
- High production

Two-year-old daughter. Owner: G & K Box, Matamata

Breeding Details

Breeder	D & K Camp	**Dam**	Glen Koru E-IMP Erina
Sire	Serpentine Crusader	**MGS**	Ewings Imperial

Production gBVs — 1634 Daughters 455 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
25 kg	28 kg	194 l	-5 kg	1.8 %
5.1 %	4.2 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
-0.16	0.02	391 days	-0.5% / 97%	1.2 days

TOP traits — 78 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.24				
Capacity	.29				
Udder Overall	.39				
Dairy Conformation	.25				

Individually $21.80 +gst

12/02/2021

Economy Packs from $14.53* +gst

*Includes 10% InvestaMate discount

12/02/2021

515066 Van Straalens **Duel**

KiwiCross® F6J10

gBW $249/86% REL

- A1A2
- Excellent capacity
- Great udders

Three-year-old daughter. Owner: M & K Blomfield, Otautau

Breeding Details

Breeder	D & R Van Straalen	**Dam**	GYJH-07-75
Sire	Pilsens Titan	**MGS**	Kirks RI Charisma ET GR

Production gBVs

101 Daughters 40 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
35 kg	18 kg	-67 l	13 kg	3.8 %
5.6 %	4.2 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
0.03	0.16	335 days	-0.6% / 69%	-6.4 days

TOP traits

97 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.23				
Capacity	.76				
Udder Overall	.57				
Dairy Conformation	.63				

516028 Waikorire **Gordon**

KiwiCross® F7J9

gBW $227/86% REL

- A2A2
- Well liked by farmers
- Extreme udders

Two-year-old daughter. Owner: Aratiatia Ltd No 1, Matamata

Breeding Details

Breeder	Waikorire Trust	**Dam**	JRWL-10-21
Sire	Lynbrook Terrific ET S3J	**MGS**	Fairmont Mint-Edition

Production gBVs

100 Daughters 36 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
23 kg	16 kg	-11 l	-17 kg	3.9 %
5.3 %	4.1 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
0.42	0.10	479 days	-0.2% / 68%	-0.2 days

TOP traits

94 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.50				
Capacity	.57				
Udder Overall	1.08				
Dairy Conformation	.57				

515068 Woodwards **Spot On**

KiwiCross® F9J7

gBW $258/85% REL

- A2A2
- Extreme capacity
- High production

Two-year-old daughter. Owner: JBT Farming Limited, Atiamuri

Breeding Details

Breeder	R & S Woodward	**Dam**	BDRB-08-9
Sire	Vanstraalens Vibe	**MGS**	Scotts Northsea

Production gBVs

87 Daughters 41 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
38 kg	22 kg	219 l	6 kg	1.2 %
5.3 %	4.1 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
0.02	0.16	377 days	0.1% / 91%	2.1 days

TOP traits

85 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.37				
Capacity	1.19				
Udder Overall	.40				
Dairy Conformation	.89				

515017 Lynbrook **Kartell**

KiwiCross® F7J8A1

gBW $252/85% REL

- A1A2
- Good udders
- Shorter gestation

Fertility 1 carrier

Two-year-old daughter. Owner: Tanad Farms Ltd, Te Puke

Breeding Details

Breeder	S & N Ireland	**Dam**	Lynbrook LM Karen
Sire	Howies Arkan Ramada ET	**MGS**	Okura Lika Murmur S3J

Production gBVs

76 Daughters 29 Herds

Milkfat	Protein	Milk	Liveweight	Fertility
28 kg	25 kg	82 l	-23 kg	2.7 %
5.3 %	4.3 %			

Somatic Cell Count	Body Condition	Total Longevity	Cow Calving Difficulty	Gestation Length
0.21	-0.04	318 days	-0.7% / 94%	-4.4 days

TOP traits

70 Daughters TOP Inspected

Management	gBV	-0.5	0	0.5	1.0
Overall Opinion	.25				
Capacity	.28				
Udder Overall	.61				
Dairy Conformation	.14				

Individually $21.80 +gst

12/02/2021

Economy Packs from $14.53* +gst

*Includes 10% InvestaMate discount

12/02/2021

12/02/2021

		gBW	Rel.	Milkfat gBV	Protein gBV	Milk Volume gBV	Liveweight gBV	Fertility gBV	SCC gBV	Total Longevity gBV	Overall Opinion gBV	Capacity gBV	Udder Overall gBV	Cow Calving Difficulty gBV	Cow Calving Difficulty Rel.	Gestation Length gBV	A2 Protein	Price (+GST)
517047	Marshalls Silver **Lining** F10J6^	263	81	48	44	789	43	0.8	0.05	289	0.08	0.85	0.59	-0.1	84	-5.8	A2A2	$26.95
517028	Colfols Cruise **Control** F11J5^	258	81	36	34	634	12	1.9	0.08	515	0.30	0.55	0.60	-0.1	71	-4.7	A1A2	$26.95
517021	Horizon **Banzai** F6J10	298	81	39	26	183	10	3.9	-0.18	552	0.00	0.38	0.14	-0.7	90	-2.8	A1A2	$21.80
515019	Lynbrook **Knight** ET F7J8A1	293	83	29	25	262	-20	4.9	-0.37	514	-0.04	1.24	0.15	0.2	91	0.0	A2A2	$21.80
514058	Mahoe **Advisor** F8J8	290	86	24	17	-314	-34	5.3	-0.02	408	0.04	0.43	0.14	-0.7	80	1.6	A2A2	$21.80
515058	Kahurangi **Izabull** F9J7	271	87	36	27	293	-22	-0.1	-0.04	416	0.25	-0.12	0.50	-0.4	96	-6.3	A1A1	$21.80
517023	Horizon **Boulevard**-ET F10J6	271	81	49	46	879	31	-1.8	0.11	354	0.31	0.86	0.42	0.0	91	-3.6	A2A2	$21.80
516070	Baldrick **Trixster**-ET F13J3	270	86	59	47	1148	60	1.1	0.07	409	0.21	0.68	0.03	-0.3	71	-7.9	A1A2	$21.80
517006	Arkans **Billionaire**-ET F12J4	270	80	44	44	784	13	-0.5	0.73	452	0.25	0.48	0.49	0.0	68	-2.3	A2A2	$21.80
516025	Arrieta **Brew**-ET F7J9	265	90	30	26	191	-16	4.3	0.68	408	0.15	0.76	0.13	-0.4	79	-3.6	A1A2	$21.80
516005	Reylands **Ova-N-Out**-ET F9J7	257	85	24	19	79	-23	4.2	-0.31	419	0.26	0.10	0.81	-0.8	65	-2.2	A1A2	$18.95
516049	Tor View **Elliott** F8J8	256	85	32	30	363	-17	0.0	0.37	419	0.26	0.62	0.11	0.2	63	-3.7	A2A2	$18.95
517050	Burmeisters **Hardcore** F6J10	255	83	45	41	764	7	-0.3	0.39	204	0.33	0.23	0.23	0.1	84	-2.4	A2A2	$16.95
515036	Taniwha **Handford** ET F12J4	251	87	37	25	66	10	2.3	0.32	366	0.09	0.23	0.54	0.6	68	0.5	A1A2	$16.95
513076	Kamahi **King** F5J11^	251	98	19	10	-182	-33	4.5	-0.45	451	0.25	0.31	0.72	-0.6	94	1.3	A2A2	$16.95
515028	Zona **Crossfire** F7J9	251	86	16	14	69	-3	6.1	-1.02	716	0.29	0.80	0.21	-1.1	69	-2.7	A2A2	$16.95
513050	Woodheys **Speed Dial** F7J8	249	98	30	19	-84	-21	-0.1	-0.04	368	0.28	-0.01	0.45	-0.5	92	-0.2	A1A2	$16.95
517019	Hansarally **Rad** F10J6	247	79	28	47	647	64	2.9	-0.38	624	0.47	0.66	-0.11	-0.3	83	-7.8	A2A2	$16.95
515083	McCaoss **Majesty** F13J3^	246	86	38	37	362	21	-0.9	0.08	392	0.44	0.08	0.68	0.0	94	-0.1	A1A2	$16.95
510003	Arkans **Promoter** F7J9	243	99	22	2	-698	-30	1.6	0.03	366	-0.16	0.55	0.28	-1.1	96	-5.6	A1A2	$16.95
515056	Greenmile **Persia** F7J9	240	88	12	12	42	-26	6.8	-0.49	626	0.33	0.75	0.25	-0.4	66	-9.6	A1A2	$16.95
515018	Lynbrook **Krypton** ET F7J8A1	226	87	40	36	1095	24	5.3	0.11	465	0.43	0.95	0.38	-0.1	72	-3.7	A1A2	$14.95
516019	Burmeisters **Eros**-ET F9J7	224	90	27	34	606	29	1.1	-0.63	462	0.57	0.74	0.12	-0.8	84	-3.8	A2A2	$14.95
516048	Matahui **Explicit** F13J3	219	85	43	37	614	48	-1.0	-0.08	323	0.33	0.54	0.50	-0.4	88	-3.2	A2A2	$14.95
512037	Greenmile **Game Day** F8J8	218	95	28	23	104	-5	1.2	0.49	325	0.61	0.60	0.22	0.0	80	-6.4	A1A2	$14.95
513054	Burgess **Trickshot** ET F8J8^	218	96	32	23	663	-39	-0.5	0.17	334	0.14	0.00	0.20	-0.3	97	-5.9	A2A2	$14.95
513066	Mouries **Luigi** F6J10^	217	96	12	19	-1	-22	2.9	-0.32	448	0.32	0.06	0.65	-0.1	97	3.4	A2A2	$14.95
511026	Arkans **Beaut** F9J7	216	99	23	30	415	5	-0.6	-0.22	499	0.28	0.46	0.26	0.0	99	-6.6	A1A2	$14.95
513007	Arkans **Best Bet** F8J8	215	95	30	23	121	16	1.0	0.23	419	0.36	0.39	0.48	-0.6	77	-6.6	A1A1	$12.95
515099	Mullins **Fineprint** F10J6	213	86	23	15	-97	-15	-1.5	-0.60	329	0.27	0.08	0.27	-1.1	67	-1.0	A2A2	$12.95
508154	Priests **Solaris**-ET F6J10^	208	99	14	16	127	3	3.3	-0.87	491	0.62	1.06	0.50	-1.1	99	-5.8	A2A2	$12.95
515011	Lynskeys **Liam** F6J9	207	95	7	11	-171	-33	1.1	-0.68	447	0.52	0.86	0.51	-0.2	89	-3.3	A2A2	$12.95
513098	Arkans **Bounty** F5J11	206	97	19	22	228	-16	-0.7	-0.02	428	0.47	0.70	0.77	-0.1	97	0.7	A1A2	$12.95
514015	Glen Koru **Ethos**-ET S1F F14J2	205	91	48	37	704	44	-0.9	-0.15	10	0.06	0.10	0.39	-0.6	93	-3.3	A1A2	$12.95
515050	Rhantana **Optimist** ET F12J4	204	85	28	39	698	13	0.2	-0.03	298	-0.01	0.63	0.15	0.4	66	2.0	A2A2	$12.95
513074	Schraders **Tusk** F9J7	202	92	18	16	242	-25	5.0	-0.12	417	0.48	0.06	0.21	-0.8	96	-9.9	A1A2	$12.95
512030	Daisleys **Renegade** F7J8A1	200	89	31	17	129	-13	-2.0	-0.09	192	0.06	0.54	0.47	-0.9	67	2.2	A2A2	$12.95
511028	Arkans **Blockbuster** F8J8	199	99	16	8	-220	-25	2.6	-0.07	372	0.35	0.34	0.12	-0.8	89	-4.0	A1A2	$12.95
513016	Horizon **Blazer** ET F9J7	199	96	21	16	237	-4	1.8	-0.19	462	0.20	0.74	0.46	-0.1	94	-4.4	A1A2	$12.95
512050	Arkans **Perspective**-ET F8J8	198	98	24	13	20	-12	3.3	0.18	357	0.14	0.18	0.48	0.0	97	-2.9	A1A2	$12.95
510014	Paynes **Propagator** F8J8	186	99	30	22	217	6	0.2	0.11	184	-0.04	0.49	0.09	-0.3	94	-3.6	A1A2	$10.95
513099	Arkans **Beacon** F11J5^	185	98	26	20	297	10	1.3	0.12	457	0.17	-0.07	0.58	0.0	85	-3.1	A1A2	$10.95
515032	Howses **Standout** F9J7	185	94	19	11	-448	-4	2.8	0.33	308	0.28	0.68	1.13	-1.0	72	0.6	A1A2	$10.95
511051	Drysdales **Sovereign** F8J8^	180	98	14	10	-38	0	2.0	-0.43	472	0.35	0.91	0.66	-1.0	98	-5.2	A2A2	$10.95
510057	Ewings **Ivory** F6J10	179	98	27	13	-162	-8	1.1	0.56	120	0.05	0.49	0.30	-0.4	90	-2.7	A1A2	$10.95
512021	Ingrams **Iconic** F8J8	178	91	37	19	248	6	-1.8	-0.21	-6	0.54	0.12	0.68	1.4	67	4.2	A2A2	$10.95
512051	Arkans **Instigator** F7J8	176	96	25	28	555	23	0.4	-0.56	249	0.24	0.99	0.60	0.6	85	-2.0	A1A2	$10.95
513070	Highgarth **Ricochet** F6J10	175	96	6	9	200	-46	4.8	-0.27	563	0.19	0.10	0.33	-0.6	73	2.5	A2A2	$10.95
513015	Horizon **Conscript** ET F7J9	174	93	8	15	305	-23	4.2	-0.17	577	0.09	0.37	0.41	0.0	96	1.1	A2A2	$10.95
511014	Kraakmans **Lionheart** F9J7	172	98	29	11	40	-1	0.0	-0.23	110	-0.06	0.24	0.56	-0.7	79	-1.9	A1A2	$10.95
514014	Greenwell **Breakthrough** ETF13J3	171	91	23	27	347	21	1.7	-0.08	351	0.61	0.19	0.48	-0.4	86	-4.6	A2A2	$10.95
511007	Castlegrace **Mako** F7J9	170	98	15	16	-245	17	3.0	0.05	231	0.36	0.81	0.24	-0.3	91	-4.6	A2A2	$10.95
511052	Moodys **Executive** F6J10	169	98	10	25	344	-16	2.0	-0.15	278	0.09	0.80	0.04	-0.5	94	-3.4	A2A2	$8.95
509035	Mills **Magnificence** F7J9	166	95	15	7	-201	-23	-0.4	-0.20	325	-0.09	0.15	0.51	-1.3	71	-1.9	A1A2	$8.95
512024	Werders **Prelude** F10J6	157	97	20	34	573	25	0.5	0.12	303	0.49	0.78	0.68	0.0	96	-4.1	A2A2	$8.95
506063	Cutforths **Lord Brian** F5J7A4	151	99	12	10	-235	-3	-0.5	-0.36	290	0.12	0.03	0.36	-0.8	98	0.7	A1A1	$8.95
507086	Woods **Equinox** F7J9 ↑	149	99	14	10	-189	-3	1.9	0.18	378	0.35	0.37	0.43	-1.0	89	-3.0	A2A2	$8.95
514081	Ellisons **Gilmore** F5J11	137	89	4	5	25	-52	-1.4	-0.23	368	0.07	0.40	1.22	-1.5	71	0.7	A2A2	$8.95

↑ SCS carrier ^ Recessive Fertility Gene carrier

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Ayrshire

513521 Sanrosa **Deacon** ET

Ayrshire A16
Registered Ayrshire

BW $69/87% REL

Individually $21.80 +gst | Ayrshire Packs from $17.78* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: G &J Glentworth, Hawera

Breeding Details

Breeder	G & J Glentworth	**Dam**	Sanrosa Della 06-128
Sire	Asmo Tosikko ET	**MGS**	Asmo Omatunto

Production BVs — 626 Daughters 97 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
27 kg	25 kg	725 l	10 kg
4.6 %	3.8 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-6.4 %	0.02	-0.18	-115 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
-129 days	0.6% / 78%	-0.6% / 95%	-2.5 days

TOP traits — 258 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.18				
Shed Temperament	.21				
Milking Speed	-.04				
Overall Opinion	.19				
Conformation	**BV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.03				
Capacity	.08				
Rump Angle	.54				
Rump Width	-.16				
Legs	.00				
Udder Support	-.02				
Front Udder	-.15				
Rear Udder	-.10				
Front Teat Placement	-.40				
Rear Teat Placement	.17				
Udder Overall	-.18				
Dairy Conformation	-.11				

New Zealand Genetics NA %

LIC Initiatives

Once-A-Day	1114	A2 Protein	A2A2
High Input	1090		

516504 Iwa Iso **Castlebar** ET

Ayrshire A16
Registered Ayrshire

BW $84/79% REL

Individually $21.80 +gst | Ayrshire Packs from $17.78* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: Bonacord Farms Ltd, Outram

Breeding Details

Breeder	Iwa Syndicate	**Dam**	Sanrosa Snowie 11-260 ET
Sire	Southwind Isabro	**MGS**	Asmo Tosikko ET

Production BVs — 66 Daughters 17 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
32 kg	25 kg	945 l	30 kg
4.5 %	3.6 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-2.9 %	-0.26	-0.08	-111 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
0 days	0.9% / 40%	-1.2% / 58%	1.4 days

TOP traits — 48 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.26				
Shed Temperament	.27				
Milking Speed	-.33				
Overall Opinion	.16				
Conformation	**BV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	.21				
Capacity	.37				
Rump Angle	.38				
Rump Width	-.15				
Legs	.01				
Udder Support	-.18				
Front Udder	-.16				
Rear Udder	-.18				
Front Teat Placement	.02				
Rear Teat Placement	-.18				
Udder Overall	-.15				
Dairy Conformation	.19				

New Zealand Genetics NA %

LIC Initiatives

Once-A-Day	1105	A2 Protein	A2A2
High Input	1110		

517512 Lodore **Stamina**

Ayrshire A16

Registered Ayrshire

BW $50/63% REL

Individually $21.80 +gst

Ayrshire Packs from $17.78* +gst

*Includes 10% InvestaMate discount

Sire of Stamina - 504522 Southwind Jarmo

Breeding Details

Breeder	Lodore Farm Ltd	**Dam**	Lodore Tos Snowlass ET
Sire	Southwind Jarmo	**MGS**	Asmo Tosikko ET

Production BVs — 23 Daughters 10 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
14 kg	9 kg	227 l	-4 kg
4.8 %	3.8 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-4.1 %	0.22	-0.15	136 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
64 days	-0.3% / 27%	-0.7% / 56%	0.0 days

TOP traits — 8 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.22				
Shed Temperament	.20				
Milking Speed	-.04				
Overall Opinion	.18				
Conformation	**BV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.35				
Capacity	.14				
Rump Angle	.02				
Rump Width	-.31				
Legs	.08				
Udder Support	.09				
Front Udder	.07				
Rear Udder	-.01				
Front Teat Placement	.19				
Rear Teat Placement	.27				
Udder Overall	.13				
Dairy Conformation	.03				

New Zealand Genetics NA %

LIC Initiatives

Once-A-Day	1058	A2 Protein	A2A2
High Input	1052		

515503 Iwa **Super Sonic**

Ayrshire A16

Registered Ayrshire

BW $136/80% REL

Individually $21.80 +gst

Ayrshire Packs from $17.78* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: Henderson Family Trust, Otorohanga

Breeding Details

Breeder	Iwa Syndicate	**Dam**	Sanrosa Snowie 11-260 ET
Sire	Salt Spray Bonny George	**MGS**	Asmo Tosikko ET

Production BVs — 58 Daughters 26 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
29 kg	18 kg	540 l	4 kg
4.8 %	3.7 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-2.8 %	-0.79	-0.23	11 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
135 days	-0.7% / 46%	0.4% / 79%	-0.9 days

TOP traits — 24 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.27				
Shed Temperament	.38				
Milking Speed	-.14				
Overall Opinion	.24				
Conformation	**BV**	**-0.5**	**0**	**0.5**	**1.0**
Stature	-.29				
Capacity	.30				
Rump Angle	.09				
Rump Width	-.14				
Legs	-.05				
Udder Support	.55				
Front Udder	.60				
Rear Udder	.53				
Front Teat Placement	.16				
Rear Teat Placement	.25				
Udder Overall	.63				
Dairy Conformation	.31				

New Zealand Genetics NA %

LIC Initiatives

Once-A-Day	1186	A2 Protein	A2A2
High Input	1185		

511597 Southwind Jacks **Quintin**

Ayrshire A16
Registered Ayrshire

BW $119/95% REL

Individually $21.80 +gst | Ayrshire Packs from $17.78* +gst

*Includes 10% InvestaMate discount

Breeding Details

Breeder	A & H Jane	**Dam**	Southwind KC Queenet ET
Sire	Pa Hill Blaze Jack ET	**MGS**	Kilfennan Challenge

Production BVs — 1041 Daughters 166 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
12 kg	4 kg	330 l	-18 kg
4.7 %	3.6 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.0 %	-0.20	-0.04	460 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
563 days	-2.1% / 85%	-1.4% / 94%	-5.9 days

TOP traits — 465 Daughters TOP Inspected

Management	BV	-0.5 0 0.5 1.0
Adapts to Milking	.43	
Shed Temperament	.44	
Milking Speed	.31	
Overall Opinion	.59	
Conformation	**BV**	**-0.5 0 0.5 1.0**
Stature	-.74	
Capacity	.61	
Rump Angle	.01	
Rump Width	-.16	
Legs	.12	
Udder Support	.24	
Front Udder	.55	
Rear Udder	-.09	
Front Teat Placement	.08	
Rear Teat Placement	.20	
Udder Overall	.23	
Dairy Conformation	.46	

New Zealand Genetics NA %

LIC Initiatives

Once-A-Day	1091	A2 Protein	A1A1
High Input	1102		

515514 Sanrosa **Dalton** ET

Ayrshire A16
Registered Ayrshire

BW $4/79% REL

Individually $21.80 +gst | Ayrshire Packs from $17.78* +gst

*Includes 10% InvestaMate discount

Two-year-old daughter. Owner: G & J Glentworth, Hawera

Breeding Details

Breeder	G & J Glentworth	**Dam**	Sanrosa Della 06-128
Sire	Ojaniityn Rumba	**MGS**	Asmo Omatunto

Production BVs — 63 Daughters 25 Herds

Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
17 kg	26 kg	749 l	17 kg
4.4 %	3.8 %		

Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-10.8 %	-0.20	-0.26	-28 days

Other

Total Longevity	Heifer Calving Difficulty	Cow Calving Difficulty	Gestation Length
-175 days	2.7% / 40%	-1.0% / 81%	-3.1 days

TOP traits — 47 Daughters TOP Inspected

Management	BV	-0.5 0 0.5 1.0
Adapts to Milking	.30	
Shed Temperament	.29	
Milking Speed	-.22	
Overall Opinion	.20	
Conformation	**BV**	**-0.5 0 0.5 1.0**
Stature	.14	
Capacity	.55	
Rump Angle	.31	
Rump Width	.15	
Legs	.03	
Udder Support	.17	
Front Udder	.08	
Rear Udder	.06	
Front Teat Placement	-.16	
Rear Teat Placement	.16	
Udder Overall	.09	
Dairy Conformation	.34	

New Zealand Genetics NA %

LIC Initiatives

Once-A-Day	1094	A2 Protein	A2A2
High Input	1061		

520504 Lodore **Ranger** ET

Registered Ayrshire
A2A2

$54/49 % BW REL

Breeding Details	
Sire	Lodore Tropical
Dam	Lodore Brody Royal ET
MGS	Carmelglen Brody

Production BVs			
Milkfat	Protein	Milk	Liveweight
11 kg	-2 kg	-168 l	-5 kg
5.2 %	3.9 %		

520509 Rangeview **Tarry**

Registered Ayrshire
A2A2

$-2/44 % BW REL

Breeding Details	
Sire	Sanrosa Deacon ET
Dam	Rangeview Phils Lesson
MGS	Sanrosa Royal Phillip

Production BVs			
Milkfat	Protein	Milk	Liveweight
8 kg	14 kg	448 l	5 kg
4.5 %	3.7 %		

520511 Sanrosa Royal **Pride**

Registered Ayrshire
A1A2

$-38/25 % BW REL

Breeding Details	
Sire	VR Kuuselan Vimur Viljar
Dam	Sanrosa Royal 15-56
MGS	Asmo Tosikko ET

Production BVs			
Milkfat	Protein	Milk	Liveweight
6 kg	4 kg	153 l	15 kg
4.7 %	3.7 %		

520512 Te Matai **Chester**

Registered Ayrshire
A2A2

$18/27 % BW REL

Breeding Details	
Sire	VR Kuuselan Vimur Viljar
Dam	Te Matai 12-6
MGS	Carmelglen Brody

Production BVs			
Milkfat	Protein	Milk	Liveweight
5 kg	10 kg	247 l	11 kg
4.6 %	3.8 %		

521500 Glenmore V **Henry** ET

Registered Ayrshire
A2A2

$-17/29 % BW REL

Breeding Details	
Sire	VR Kuuselan Vimur Viljar
Dam	Lodore Carters Snow ET
MGS	Semayr Greenlane Carter

Production BVs			
Milkfat	Protein	Milk	Liveweight
1 kg	8 kg	111 l	6 kg
4.7 %	3.9 %		

521501 Glenmore V **James** ET

Registered Ayrshire
A2A2

$-17/29 % BW REL

Breeding Details	
Sire	VR Kuuselan Vimur Viljar
Dam	Lodore Carters Snow ET
MGS	Semayr Greenlane Carter

Production BVs			
Milkfat	Protein	Milk	Liveweight
1 kg	8 kg	111 l	6 kg
4.7 %	3.9 %		

521502 Kiteroa **Johnny Cash**

Registered Ayrshire
A1A2

$2/37 % BW REL

Breeding Details	
Sire	Southwind Bonny Quest ET
Dam	Kiteroa Jae
MGS	Kiteroa Elvis Presley ET

Production BVs			
Milkfat	Protein	Milk	Liveweight
14 kg	13 kg	511 l	26 kg
4.5 %	3.7 %		

521503 Lodore **Colleague**

Registered Ayrshire
A2A2

$-51/17 % BW REL

Breeding Details	
Sire	VR Viking Viljar Vilperi
Dam	Lodore Dea Colleen S3A
MGS	Sanrosa Deacon ET

Production BVs			
Milkfat	Protein	Milk	Liveweight
-1 kg	1 kg	8 l	12 kg
4.7 %	3.8 %		

521504 Lodore **Jandel**

Registered Ayrshire
A1A2

$82/40 % BW REL

Breeding Details	
Sire	Sanrosa Deacon ET
Dam	Te Matai J Q Janette S3A
MGS	Southwind Jacks Quintin

Production BVs			
Milkfat	Protein	Milk	Liveweight
20 kg	11 kg	318 l	2 kg
4.8 %	3.8 %		

521505 Lodore MW **Jeopardy**

Registered Ayrshire
A2A2

$73/38 % BW REL

Breeding Details	
Sire	Iwa Super Sonic
Dam	Lodore Tangs Jebb
MGS	Skyline Mustang

Production BVs			
Milkfat	Protein	Milk	Liveweight
15 kg	11 kg	330 l	-4 kg
4.7 %	3.7 %		

521506 Lodore MW **Nick**

Registered Ayrshire
A1A2

BW $18/39 % REL

Breeding Details	
Sire	Iwa Super Sonic
Dam	Lodore Andys Nicki ET
MGS	Asmo Andrei

Production BVs			
Milkfat	Protein	Milk	Liveweight
22 kg	23 kg	749 l	37 kg
4.5 %	3.7 %		

521507 Lodore **Significance**

Registered Ayrshire
A2A2

BW $19/33 % REL

Breeding Details	
Sire	Sanrosa Dalton ET
Dam	Lodore Rods Siggs ET
MGS	Lodore Jarrod ET

Production BVs			
Milkfat	Protein	Milk	Liveweight
9 kg	13 kg	337 l	1 kg
4.6 %	3.8 %		

521508 Musica **Ice Ice Rumba**

Registered Ayrshire
A1A2

BW $37/40 % REL

Breeding Details	
Sire	Iwa Snows Rumba ET
Dam	Musica 13-25
MGS	Carmelglen Brody

Production BVs			
Milkfat	Protein	Milk	Liveweight
23 kg	17 kg	533 l	28 kg
4.7 %	3.7 %		

521509 Riverlea **Dinomite** S3A

Registered Ayrshire (Supplementary)
A2A2

BW $1/38 % REL

Breeding Details	
Sire	Sanrosa Dalton ET
Dam	Riverlea 17-15 S2A
MGS	Skyline Mustang

Production BVs			
Milkfat	Protein	Milk	Liveweight
9 kg	14 kg	399 l	6 kg
4.5 %	3.8 %		

521510 Riverlea **Sound Super**

Registered Ayrshire
A2A2

BW $74/37 % REL

Breeding Details	
Sire	Iwa Super Sonic
Dam	Riverlea 18-75
MGS	Sanrosa Deacon ET

Production BVs			
Milkfat	Protein	Milk	Liveweight
16 kg	14 kg	377 l	-3 kg
4.7 %	3.8 %		

521511 Riverlea **Viking**

Registered Ayrshire
A1A2

BW $-45/18 % REL

Breeding Details	
Sire	VR Viking Viljar Vilperi
Dam	Riverlea 17-4
MGS	Skyline Mustang

Production BVs			
Milkfat	Protein	Milk	Liveweight
-8 kg	-4 kg	-76 l	-4 kg
4.6 %	3.8 %		

Individually $15.20 +gst | Choice Pack $13.55 +gst | No Choice Pack $4.95 +gst

NB: Young unproven Ayrshire not available for winter mating.

12/02/21 AE

Ayrshire Also Available

AE 12/02/21

		BW	Rel.	Milkfat BV	Protein BV	Milk BV	Liveweight BV	Fertility BV	SCC BV	Total Longevity BV	Overall Opinion BV	Capacity BV	Udder Overall BV	Cow Calving Difficulty BV	Cow Calving Difficulty BV	Gestation Length BV	A2 Protein	Price (+GST)
504522	Southwind **Jarmo**	74	98	21	13	445	-7	-3.5	0.07	92	-0.13	-0.01	-0.18	-1.5	93	-2.2	A1A2	$10.95
508505	Lodore **Blake**	54	92	21	12	782	-10	-4.7	0.25	241	0.48	-0.03	0.12	-1.3	78	3.6	A1A1	$8.95
510544	Pa Hill Brody **Ivo** ET	51	89	1	8	253	-27	-4.3	-0.38	185	0.24	0.21	-0.08	0.1	74	-1.9	A1A2	$8.95
504534	Carmelglen **Brody**	43	99	11	9	427	9	-0.5	-0.05	117	0.76	0.35	-0.09	-0.3	97	1.4	A2A2	$8.95
514613	Te Matai **Elvis**	22	95	-9	3	271	-23	0.3	-0.15	279	0.18	0.36	-0.10	-0.7	88	-1.7	A1A2	$8.95
510539	Lodore **Snapshot** ET	15	91	3	-11	-207	-20	-3.8	0.26	189	0.43	0.50	0.16	-1.6	76	0.1	A2A2	$8.95
504515	Sanrosa **Dice**	11	85	0	5	103	-15	-3.2	-0.10	10	0.17	0.19	0.11	-1.0	48	2.1	A1A1	$8.95
513520	Sanrosa **Danny Boy**	-3	83	22	17	793	61	-8.1	-0.16	253	0.54	0.73	0.31	-0.8	77	1.4	A1A1	$8.95

515600 Bjerring **BJ Curveball**

Milking Shorthorn
Registered Pedigree
A1A1

Breeding Details			
Breeder	W & C Bjerring	**Dam**	Landlyst 04-3 SOS
Sire	Birchlands Eccles ET	**MGS**	Te Kiripi Astronaut MR2

Individually $18.00 +gst

517719 Brecon **Lord Harry**

Milking Shorthorn
Registered Pedigree (Supplementary)
A1A2

Breeding Details			
Breeder	Red Cow Farms Ltd	**Dam**	Brecon ND Lucy S0S
Sire	Beaulands Hilly	**MGS**	Northbrook Duncan S0S
Blend	AUR 8, SHM 4, FRI 2, NWR 1, SWR 1		

Individually $15.00 +gst

519698 Brecon **Eduardo** P

Milking Shorthorn
Registered Pedigree (Supplementary)
A1A2

Breeding Details			
Breeder	Red Cow Farms Ltd	**Dam**	Brecon ND Eliza S1S
Sire	Brecon Bart S1S	**MGS**	Northbrook Duncan S0S
Blend	SHM 8, FRI 4, SWR 2, NWR 1		

Individually $16.00 +gst

520563 Brecon **Harvard** P

Milking Shorthorn
Registered Pedigree (Supplementary)
A2A2

Breeding Details			
Breeder	Red Cow Farms Ltd	**Dam**	Brecon GTH Hope S0S
Sire	VR Hel P	**MGS**	Brecon Goliath S0S
Blend	DAR 8, FRI 4, SWR 2, SHM 1, NWR 1		

Individually $16.00 +gst

518561 **Vinland**

Brown Swiss

Registered Pedigree (Germany)

Breeding Details			
Sire	Viking	**Dam**	Nessi
MGS	Emsland	**A2**	A2A2

Individually $18.00 +gst

518562 **Verdi**

Brown Swiss

Registered Pedigree (Germany)

Breeding Details			
Sire	Versace	**Dam**	Idro
MGS	Pronto	**A2**	A2A2

Individually $18.00 +gst

518567 Meado-Brook Saras **Shar Pp**-ET

Brown Swiss

Registered Pedigree (Germany)

Breeding Details			
Sire	Trout Run Dr Jay-P-ET	**Dam**	Meado-Brook Dreamin Sara-ET
MGS	Victory Acres Genom Cartel	**A2**	A2A2

Individually $20.00 +gst

520559 **Capri**

Brown Swiss

Registered Pedigree (Germany)

Breeding Details			
Sire	Cadence	**Dam**	Graefin
MGS	Vanpari	**A2**	A2A2

Individually $20.00 +gst

What is HoofPrint®?

LIC has developed the HoofPrint index to provide farmers with an indication of the predicted environmental footprint of LIC's dairy genetics.

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

How does the model work?

The modelling uses seven breeding values (BVs) for each animal. These BVs are used to calculate the expected levels of production, calving events, and removals. These BVs are:

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

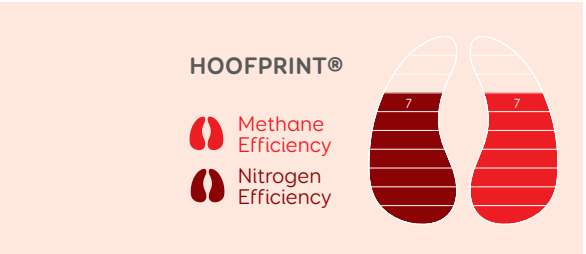
The model's calculations for energy requirements, partitioning and emissions were based on the 'Methodology for calculation of New Zealand's agricultural greenhouse gas emissions' (the inventory). An understanding of an animal's energy requirements was used to estimate dry matter intake from which emissions and excretion were calculated. In the inventory, energy requirements refers to the amount of energy needed for an animal to survive (maintenance), produce (i.e. milk, meat), and conceive (pregnancy). The inventory model assumes the animals' energy requirements are met by a pasture-only diet with no supplementary feed use. However, LIC conducted additional modelling involving supplementary feeds and found only very minor changes in model output – suggesting HoofPrint to be representative of most feeding systems.

Reference Base population:

The reference population for the HoofPrint index includes over 4,000 NZAEL-registered bulls born since January 2010. Beef and SGL Dairy® bulls are excluded. LIC's sires have been rated on their emission and excretion values per kilogram of milksolids relative to this reference population.

Ranking system:

The ranking system is from 10 to 1 with 10 being the best (lowest environmental impact per kg product) and 1 being the poorest ranking (highest environmental impact per kg product). The distribution of ratings for the bulls in the reference population can be seen below.



10	Top 2 %
9	Top 7 %
8	Top 17 %
7	Top 32 %
6	Top 50 %
5	Bottom 50 %
4	Bottom 32 %
3	Bottom 17 %
2	Bottom 7 %
1	Bottom 2 %

In the example, this bull ranked at 7 for both Methane Efficiency and Nitrogen Efficiency is in the top 32% of bulls born since January 1st 2010.

Animal Evaluation

The method of ranking New Zealand dairy animals is known as Animal Evaluation, and the national system is governed by New Zealand Animal Evaluation Ltd (NZAEL).

The three main features of Animal Evaluation are:

- Across breed evaluations – evaluations produced by the system allow animals of all breeds to be compared on the same basis.
- Accuracy – all available information on an animal's relatives, plus all of its own records, are used in calculating its evaluation.
- Breeding animals for profit and efficiency – animals are ranked according to their ability to convert feed into profit. This allows you to identify your most (and least) profitable and efficient animals and increase the money-earning potential of your herd.

There are two types of evaluations calculated for New Zealand dairy animals:

1. Trait evaluations

Trait evaluations are a measure of an animal's genetic merit (Breeding Values), lifetime productive ability (Production Values), and current season productive ability (Lactation Values) for individual traits. Currently breeding values are generated from milkfat, protein, volume, liveweight, longevity, somatic cells, fertility, body condition score, calving difficulty in cows and heifers, gestation length and traits other than production (conformation and management traits).

2. Economic evaluations

Economic evaluations combine an animal's individual trait evaluations into a measure of its ability to convert feed into profit through breeding replacements (Breeding Worth), lifetime production (Production Worth) and current season production (Lactation Worth).

NZAEL Values

Pages displaying BW/BVs are calculated by NZAEL and will display their logo. The Ayrshire bull information in this catalogue is NZAEL data, excluding genomics.

LIC's Genomic Animal Evaluation system

In addition to the outputs of the national system, LIC operates its own animal evaluation system. LIC's evaluation incorporates all the same pedigree and phenotypic information as the national system but also incorporates genomic data.

This results in more accurate predictions of an animal's genetic merit and is shown throughout the catalogue as gBW and gBV.

Genomic Breeding Worth

Genomic Breeding Worth (gBW) can be used as a guide for selecting a team of bulls to breed the most profitable and efficient replacements.

A Genomic Breeding Worth (gBW) of 220/84 indicates the bull is expected to generate an extra $220 profit per year, through breeding replacements which are more efficient converters of feed into profit, above the base of 0.

A bull passes half his gBW to his immediate offspring. The other half is from the dam.

Reliability

In 220/84 %, the 84 % represents the reliability of the 220 gBW.

Reliability is a measure of the amount of information which has contributed to an evaluation.

The more ancestry records, herd tests, progeny information and genomic data included in the evaluation, the higher the reliability or confidence we can place in the gBW figure, and the less likely it is to change with additional records.

Reliability ranges from 0, meaning we know nothing about the animal or any of its ancestors, to 99.

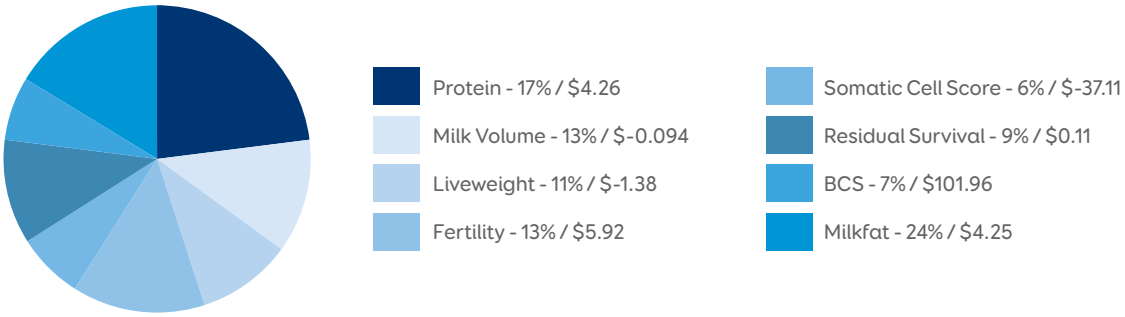
You should be cautious about using a bull with a gBW of low reliability, unless he is being used as part of a large team.

The following table shows the indicative reliabilities for Genomic Breeding Worth of bulls with differing amounts of information:

Reliability			
Ancestry Records	Genomic Data*	Number of Progeny	gBW Reliability
Yes	No	0	35%
Yes	Yes	0	55%
Yes	Yes	20	70%
Yes	Yes	100	85%

* If includes animal's own genomic data

gBW is a combination of an animal's genetic merit for milkfat, protein, milk volume, liveweight, fertility, somatic cells, survivability and body condition score. The genetic merit of an animal for these individual traits is measured using Genomic Breeding Values (gBVs). Based on ancestry, genomic information, individual and progeny records, an animal's gBVs are calculated for each trait and combined into a gBW. Each gBV is allocated an economic weighting, the latest values are as follows:



The economic weighting placed on each trait is calculated using the predicted average prices of fat, protein and milk, minus the feed cost of producing them.

The economic values for this season were updated by NZAEL on 12/02/2021. Always check the date to ensure the latest gBW information has been given.

Your herd management reports will always show the latest information, so the sire information shown on a recent herd report, for example, may be more up-to-date than information published in other places.

Timetable for Animal Evaluation runs

Animal Evaluations are calculated every three weeks. This means it is virtually impossible for publications advertising dairy semen to be absolutely up-to-date. We recommend you check the evaluation date whenever you are looking at any sire information. If it is not a recent date, ask your semen supplier for the latest evaluation. Alternatively, visit the LIC website, which is updated automatically after each AE run (www.lic.co.nz), LIC updates it's genomic evaluation system in accordance with the NZAEL schedule below.

Timetable for Animal Evaluation runs		
23 April 2021	20 August 2021	22 October 2021
21 May 2021	17 September 2021	12 November 2021
18 June 2021	8 October 2021	10 December 2021
16 July 2021	15 October 2021	

Alpha® Information

Alpha® allows you to breed a herd to optimise your breeding objectives by hand picking sires that best fit your criteria. We offer some of the highest-ranking bulls for production, management and type, and to suit farming systems from Once-A-Day milking (OAD) to High Input.

Daughter Proven

Daughter Proven bulls are selected from the Sire Proving Scheme, and have proofs produced from the first lactation of their daughters in herds across New Zealand.

Genomically Selected

Genomically Selected bulls are selected based on their DNA profile and ancestry information.

Selecting the bulls in this way, rather than waiting for information gathered from the performance of their daughters, shortens the generation interval by 3-4 years leading to greater rates of genetic gain.

The data gathered from the DNA, once added to the ancestry information, gives genomic sires a reliability of around 55%. This is a much more reliable estimate of their genetic merit than the 35% reliability figure we see for an unproven bull, but below the 82% reliability figure we see for a daughter-proven bull with 80 or more daughters in his proof.

What the 55% reliability figure means is that we can expect more movement within an individual bull's proof (up or down) when his daughter's information starts to come in. It is for this reason we recommend the use of at least 10 genomically selected sires to ensure a team effect and balance out any individual bull movements.

Alpha® discounts

Volume discount (applies at time of dispatch)

The table below shows the volume discounts applied for Alpha® frozen semen. Discounts apply to all product types (Classic Packs, Genomic Packs, Beef Packs, Short Gestation Packs, etc) and will be applied according to the volume of your order at time of dispatch.

For example, if you order 720 straws you would qualify for the 7% discount for that order when dispatched. If you later order another 200 straws, that order would qualify for the 2% discount. To obtain the best discount possible, order all your semen requirements so they are dispatched at the same time.

Genetics InvestaMate discount

To qualify for the InvestaMate discount, the number of Premier Sires® and/or Alpha® straws purchased in the season must be greater than, or equal to, 95% of qualifying animals (female animals born prior to 31 December 2019 billed at the time of October charging).

For example, if you had 400 qualifying animals billed in October then you would need to purchase 380 straws or more within the season to qualify for an InvestaMate discount.

The discounts are as follows:

3% discount applied in the first year of qualification - applied as a credit in March following the season's mating

5% discount will be applied in second year of qualification - applied at time of charging

10% discount applied in third and subsequent years of qualification - applied at time of charging

Alpha® volume discount			
No. of straws	Discount	No. of straws	Discount
100-199	1%	600-699	6%
200-299	2%	700-799	7%
300-399	3%	800-899	8%
400-499	4%	900-999	9%
500-599	5%	1,000+	10%

You will move up or down the InvestaMate scale each season depending on whether the 95% threshold was met in the previous season.

Please note: your straw purchase can be made up of any combination of Premier Sires® or Alpha® straws. Premier Sires Fresh Sexed and Sire Proving Scheme inseminations contribute towards the 95% of qualifying inseminations but the discount does not apply to these products.

Calving Difficulty Breeding values

The information is supplied to assess the suitability of bulls for mating with cows and with yearling heifers and to give farmers knowledge about bulls which may cause higher than usual rates of calving assistance. The breeding values (BV's) have now been split between calving assistance over cows and over yearling heifers.

Cow calving difficulty

Cow calving difficulty breeding value for a sire is calculated from the difficulty its progeny has being born from a three-year-old cow or older, and is expressed as a percentage of assisted calvings expected when compared to a bull of 0.

Heifer calving difficulty

Heifer calving difficulty breeding value for a sire is calculated from the difficulty its progeny has being born from a two-year-old cow, and is expressed as a percentage of assisted calvings expected when compared to a bull of 0.

Calving Difficulty Reliability

The accuracy of heifer and cow calving difficulty will vary depending on the age of the sire and on how widely used he has been within the industry, young sires generally will have a low reliability compared to an older sire. Reliability figures will also vary between the heifer calving difficulty BV and the cow calving difficulty BV depending on his use over those cohorts of animals. It is highly recommended that farmers utilise the reliability figures of the calving difficulty BV's when making breeding decisions around calving difficulty. For example reliability figures around 30% would indicate there is little more information above parent average feeding into the breeding value, and figures over 60% would indicate there would be a minimum of 100 calvings feeding into the BV.

Sexed Semen

LIC offers SexedULTRA 4M® sexed semen across a selection of our top bulls. SexedULTRA 4M® is the trademark of Inguran LLC, trading as Sexing Technologies.
Single AI Use Provision: The customer agrees that each straw of sorted semen purchased or otherwise acquired by LIC shall only be used by the customer for the single use artificial insemination of one female bovine with the intent to produce a single offspring, and not for in vitro fertilization or embryo transfer unless specifically approved on an individual customer basis by Inguran d/b/a Sexing Technologies (Navasota, Texas, USA) in writing.
Note: Users of frozen sexed semen are required to sign a disclaimer to acknowledge they may experience lower NRR results than expected

Inbreeding and Recessive Gene Protection

Clients using an LIC AB Technician have access to DataMATE technology, which will warn against potential inbreeding and recessive genes. DIY clients can order a DIY mating report from their Agri Manager. You supply a list of bull codes of the sires you plan to use over your herd, and the report identifies any cows that are closely related to these bulls, or have a risk of being a carrier. The report only shows the cows affected along with the codes of the bulls that cow should not be mated to. Alpha's Customate Plus programme also incorporates protection for inbreeding and recessive genes.

CVM (Complex Vertebral Malformation)

The genetic defect CVM in dairy cattle (found only in Holstein-Friesian and crossbred animals to date) is caused by a single locus recessive gene. If a CVM-positive bull is mated with a CVM-positive dam, the expectation is that one out of four of the offspring will die before, or just after, birth as the result of CVM. It is considered possible that CVM causes not only stillbirths and malformations, but also embryonic mortality and abortion.

Fertility 1, 2, 3 & 4

Fertility 1, 2, 3 & 4 are genetic variations which is one of the causes of dairy cows being empty through the loss of their pregnancy. The variations affect fertility and calf survival. Animals are thought to die in utero or stillborn. No live animals have been seen with the variation.

The fertility genes are recessive genetic variations which means that both the sire and dam need to have a copy of the genetic variation before a calf will be affected. Fertility 1 variation is present in 3% of Jersey animals and 1.5% of crossbred animals. Fertility 2, 3 & 4 are present in about 2% of the Holstein-Friesian population and 1% of the crossbred.

If using LIC Tech service Datamate will minimise the frequency of carrier to carrier matings.

Small Calf Syndrome (SCS)

Small Calf Syndrome is a recessive genetic variation which can result in affected calves showing a smaller appearance at birth or as they grow out. SCS needs both sire and dam to carry a copy of the genetic variation in order for the progeny to have a chance of being affected (one in four chance of being affected from carrier to carrier matings).

This genetic variation has been in the New Zealand national herd since at least 1960 and it is estimated 0.25% of calves bred from Holstein-Friesian or crossbred animals are likely to have been affected by SCS.

LIC has a policy to ensure that no new bulls entering the LIC Sire Proving Scheme will be SCS carriers. Combine this with the use of DataMATE to minimise carrier to carrier matings and affected calves will reduce to almost zero over time.

New releases

During the year, additional bulls that have not been catalogued may become available. Please visit LIC's website for the most up to date information, or speak to your Agri Manager.

AB Technician Service

The LIC AB Technician service is a simple, door-to-door service that makes AB easier.

Why use an LIC AB Technician?

When you choose LIC's technician service, you get the peace of mind of knowing that you are using skilled professionals for a first-class AB service, backed by both DataMATE and our Low Group Policy.

AB Technician Service for Alpha semen

A sliding volume discount is offered on the insemination of all Alpha® semen.

LIC AB Technician Service Volume Discount – LIC Straws	
No. of Inseminations	Price
1 - 300	$6.85 + GST
301 - 600	$6.55 + GST
601 +	$6.20 + GST

For example, if you were to use the AB Technician Service for 720 Alpha inseminations, you would be charged as follows: First 300 inseminations at $6.85 each ($2,055 + GST); second 300 inseminations at $6.55 each ($1,965 + GST); third 120 inseminations at $6.20 each ($744 + GST) = a total of 720 inseminations at $4,764 + GST.

Non-LIC straw inseminations are $8.90 + GST per insemination.

AB Equipment

DIY AB Supplies		
Product	Unit	Price+gst
AB Insemination Gloves - Full length, disposable	Pkt 100	$40.50
Insemination Wipes	Pkt 100	$14.00
AB Lubricant	2 litre	$18.00
Sheaths Clear Tip	Pkt 50	$8.85
Sheaths Green Tip	Pkt 50	$8.50
AB Inseminators Stainless Steel GGI	Each	$89.00
Tweezers	Each	$15.60
Scissors	Each	$12.20
LN2 Measuring Stick	Each	$3.36

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.

"The best heat detection results are achieved by combining paddock observation with heat detection aids."

- Dairy NZ InCalf book.

Just one missed heat costs around $288* in lost production at today's milk price, so when the heat is on our range of products makes picking heats that much easier.

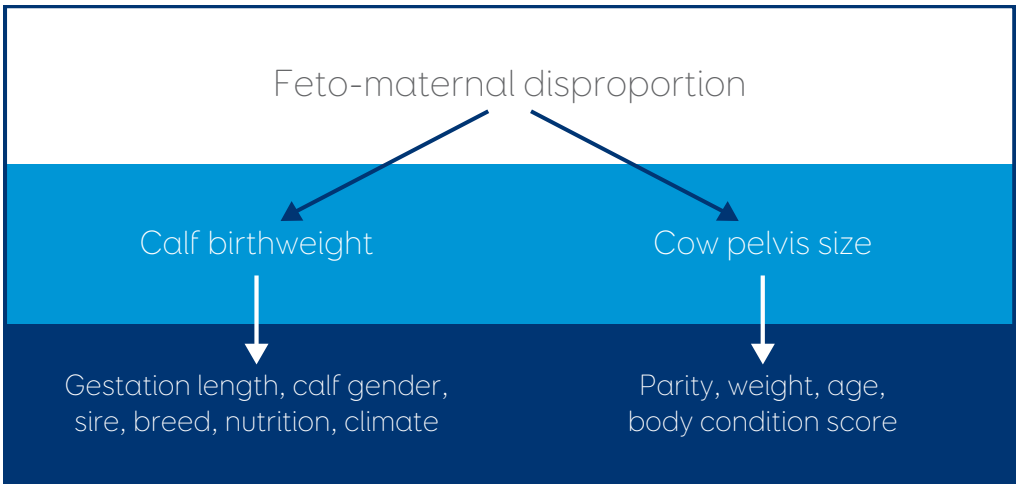
*(21 days less in milk X 1.96kgMS/day in peak lactation = 41.16kgMS lost) 41.16kgMS X $7.00 = $288

Product	Features	Benefits
 **LIC Bulls-i®** (Starting from $1.95**)	• Self-adhesive • Available in five colours: Red, green, yellow, pink and blue • Sold in multiples of 50	• No need to spend time gluing the cow or the heat patch • 5 colours allow for multiple rounds of heat detection • Friction-based technology
 **LIC Heat Patch** (Starting from: $2.55**)	• Self-adhesive • Available in two colours: Red and blue • Built-in timing mechanism • Sold in multiples of 50	• No need to spend time gluing the cow or the heat patch • 2 colours, allow for multiple rounds of heat detection • 4-second time release technology helps to identify true standing heats
 **LIC Heat Patch Plus** (Starting from: $2.80**)	• Self-adhesive • Available in three colours: Red, blue and pink • Built-in timing mechanism • Channel and chamber technology • Sold in multiples of 50	• No need to spend time gluing the cow or the heat patch • 3 colours allow for multiple rounds of heat detection • 4-second time release technology helps to identify true standing heats • New technology allows the dye to bleed to the edges of the patch for greater visibility and prioritisation
 **KAMAR® Heatmount® Detectors** (Classic starting from: $2.35**) Peel'nGlue starting from: $2.45**)	• Available in classic and peel and glue options • Built-in timing mechanism • Available in two colours: Red and blue	• 4-second time release technology helps to identify true standing heats • 2 colours allow for subsequent heat detection

Prices exclude GST and are subject to change.
**Further volume discounts may apply.

Calving Ease and Gestation Length

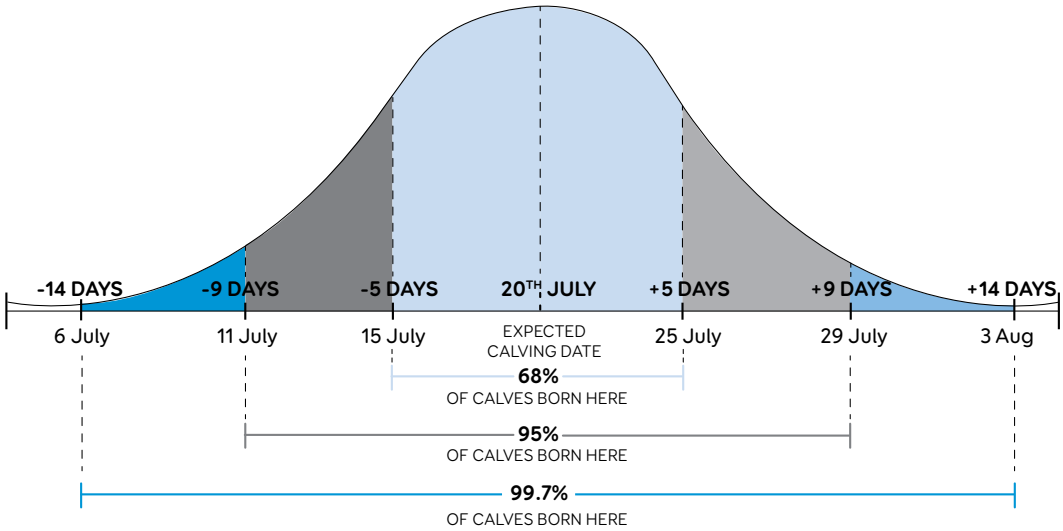
It is important to remember that whilst LIC selects for easier-calving sires and reports calving difficulty/calving ease breeding values where available, there is always natural variation within a trait. This means that even some of the easiest calving sires can still be associated with difficult calvings. The use of larger breeds (i.e. beef) can increase the risk of calving difficulty, but a number of factors also influence this:



** Image credit to Agrisciencer (2019), sourced from https://www.agrisciencer.com/post/calving-difficulty-in-dairy-cattle-genetics*

Relative to other genetic traits, gestation length is quite heritable. Despite this, there is significant natural variation in gestation length. Based on New Zealand research:

- 68% of calves will be born within ±5 days of their expected calving date
  For example, if 100 heifers were expected to calve on July 20th, 68 of them should calve between July 15th and July 25th.
- 95% of calves will be born within ± 9 days of their expected calving date
  For example, of those same 100 heifers expected to calve on July 20th, 95 of them should calve between July 11th and July 29th. The remaining five heifers would still be expected to calve outside of this window due to normal biological variation.



National Herd Averages

	Holstein-Friesian	Jersey	HF X J Cross	Ayrshire
Production gBVs				
Breeding Worth ($)	48	159	111	-68
Protein (kg)	21	-1	14	-1
Milkfat (kg)	13	9	13	-6
Milk Volume (litres)	556	-409	185	112
Liveweight (kg)	34	-47	1	6
Fertility (%)	-0.4	1.8	0.7	-5.3
Somatic Cell (score)	0.05	-0.07	0.00	-0.21
Total Longevity (days)	135	166	196	-55
Body Condition (score)	0.01	0.08	0.04	-0.13
Traits Other Than Production				
Adaptability to Milking	.11	.13	.13	.20
Shed Temperament	.10	.15	.12	.19
Milking Speed	.04	.08	.06	.00
Overall Opinion	.16	.12	.15	.17
Stature	.60	-.84	.01	-.13
Capacity	.16	.17	.20	.29
Rump Angle	-.04	-.10	-.05	.32
Rump Width	.29	-.23	.07	-.14
Legs	-.03	.09	.04	.01
Udder Support	.23	.08	.15	.09
Front Udder	.14	.23	.13	.12
Rear Udder	.14	.26	.15	-.09
Front Teat Placement	.06	.05	.03	.12
Rear Teat Placement	.20	-.13	.10	.09
Udder Overall	.19	.23	.16	.06
Dairy Conformation	.19	.14	.19	.11
Sire Breed Average				
Heifer Calving Difficulty (%)	2.0	-2.1	-0.1	-0.5
Cow Calving Difficulty (%)	1.0	-0.9	-0.3	-0.2

21/02/2021

These statistics are calculated by LIC. 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 gBV, which is a sire trait, is based on all enrolled bulls, with a gBW 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.

Want to know how your herd compares? Ask your Agri Manager for a breakdown of your Herd gBV Averages.

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