



# 2019 Genetics Catalogue

There's always room for improvement





### The Genetics Team

From front: Greg Hamill (Genetics Business Manager), April Barnett, Gordon Fullerton and Jon Down (Genetics Product Specialists)

It's a privilege to present the first-ever LIC Genetics Catalogue, combining Alpha sires and the cooperative's prestigious Premier Sires teams in one annual publication.

Throughout 2018, LIC was mindful of the pending change to the value of fat within New Zealand's national breeding objective (NBO), compared to the value of protein. The change, in February 2019, was significant, because of the marked effect it would have on the ranking of individual bulls.

We now see milkfat with a 20% weighting in BW (up from 16%). The change has seen Animal Evaluation (AE)-enrolled:

- Holstein Friesian bulls decrease, on average, by \$27.70 BW points;
- Jersey bulls increase, on average, by \$23.30 BW points, and;
- Crossbred and Ayrshire bulls decrease, on average, by \$4.80 and \$3.40 BW points respectively.

The increase in fat in New Zealand's NBO is in response to the sustained demand for fat internationally, and the consequent price milk processors are continuing to receive for this commodity (and therefore paying their suppliers).

Industry players would have observed fat increase in BW from \$1.90 in 2017, to \$2.85 in 2018, and now \$3.49 in 2019.

LIC's sire analysts and genetics experts have also watched this trend with increasing interest, and have bred accordingly. This helps ensure LIC continues to deliver the most relevant and efficient genetics, with particular emphasis on the conversion of feed to profit.

This year you may note (page 15 through to page 24) LIC's Premier Sires and Sexed teams are displayed, along with respective weighted team averages. For now, these teams are listed as 'potential teams'; final Premier Sires teams are

not decided until just prior to spring (i.e. to ensure LIC sends out its very best genetics, fresh, on any given day).

Due to increased demand, LIC has extended sexed semen availability, which is now available between 5 October and 20 November.

Check out page 24 to view the Holstein Friesian Sexed and KiwiCross Sexed teams. At this stage, the industry does not express enough demand for a Jersey Sexed option. (Note: Daily supply of sexed semen is not available fresh in all regions). Talk more with your LIC Agri Manager if you're interested in sexed semen.

A2/A2 supply continues to be a hot topic in the dairy industry, and LIC has many farmers contemplating a migration of their herd to full A2/A2 status.

Along with the Premier Sires A2/A2 teams (across all breeds), you'll find individual A2/A2 results for all Alpha sires on their individual pages. LIC's Agri Manager sales teams can help guide farmers toward achieving an A2/A2 herd, recommending a breeding programme that's right for your circumstances.

With many farmers now targeting their top 70-90% of their herd for AB replacement semen (in an effort to increase their rate of genetic gain), LIC has seen an increase in alternative AB sales.

In recognition of that, LIC has enhanced this publication's beef section to provide better visibility of the main breeds. It's a good opportunity to also better-profile some of the breeders that LIC's genetics team works so closely with.

On the Alpha sire pages that provide an overview of Daughter Proven information, you'll notice the addition of a pie graph. The pie graph is designed to provide a quick indication of what proportion of the bull's BW comes from production traits as opposed to robustness traits. See page 5 for further information.

These are indeed changing, but exciting, times. LIC's genetics team trusts you enjoy the first edition of the LIC Genetics Catalogue as much as we've enjoyed putting it together for you.

All the very best for the season ahead.

Greg Hamill  
LIC Genetics Business Manager

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## Genomic Holstein-Friesian

	Top 5 Rankings	26
118053	Greenwell GR <b>Governor</b> S1F	27
118070	Tafts GR <b>Supervisor</b> S1F	28
118068	Bagworth GI <b>Original</b> S3F	29
118071	Glenmead SB <b>Trapeze</b> S1F	29
118001	Waimata SB <b>Ransom</b> -ET S2F	30
118031	Dicksons HD <b>Myth</b> -ET S1F	30
118042	Dicksons MH <b>Mason</b> -ET S2F	31
117068	Meander SB <b>Arrow</b> -ET S2F	31
118051	Greenwell DM <b>Alcatraz</b> S1F	32
118104	Woodcote G <b>Lookout</b> -ET S2F	32
117021	Tafts TT <b>Official</b> -ET S2F	33

## Classic Holstein-Friesian

	Top 5 Rankings	34-35
114007	Busy Brook WTP <b>Vector</b> S3F	36
115080	Westedge VHR <b>Sweet As</b> S2F	37
115112	Kingsdown AM <b>Jaxon</b> -ET S2F	38
115068	Hodges GFB <b>Cutlass</b> S3F	39
115023	Tanglewood MT <b>Kauri</b> S2F	40
111037	San Ray FM <b>Beamer</b> -ET S2F	41
114123	Backhouse EO <b>Gravity</b> S2F	42
114032	Woodcote FI <b>Mastermind</b>	43
112034	Carsons FM <b>Cairo</b> S3F	44
115021	Gordons AM <b>Lancelot</b> S3F	45
111067	Byreburn PF <b>Eternal</b> S2F	46
115054	Meander SB <b>Wingman</b> -ET S3F	47
114041	Mitchells KE <b>Hustler</b> S2F	48
114057	Maire FI <b>Golddigger</b>	49
114089	Mossops GB <b>Playmaker</b>	50
113120	Bothwell WT <b>Maxima</b> S2F	51
114023	Arkan Ran <b>Bandito</b> S3F	52
115046	Tralee GB <b>Resonate</b> -ET S3F	53
112032	Jacques <b>Boy Jaks</b> S2F	54
111036	Arkan FM <b>Buster</b> -ET S2F	55

## Economy Holstein-Friesian

113070	Greenwell FI <b>Blade</b> S3F	56
110049	Savannahs HF <b>Hammer</b> S1F	56
111011	Ashdale FM <b>Kelsbells</b> S1F	56
113043	Adams BR <b>Ultimate</b> S3F	56
110052	Gydeland Excel <b>Inca</b> S3F	57
113086	Maire IG <b>Gauntlet</b> -ET	57
110006	Bagworth PF <b>Grandeur</b> S1F	57
110080	Mourne Grove <b>Hothouse</b> S2F	57
	Friesian Also Availables	58



## Genomic Jersey

	Top 5 Rankings	60
318021	Glanton Desi <b>Banff</b>	61
318012	Lynbrook King <b>Quadrant</b>	61
317023	Shepherds LT <b>Flint</b> ET S3J	62
318035	Shelby BC <b>Lotto</b> ET S3J	62
318009	Tironui <b>Superman</b> ET	63
318018	Foxton Dane <b>Cobra</b> S3J ET	63
318027	Bells Oarsome <b>Cojack</b>	64
316031	Greenmile FGP <b>Hadlow</b> ET	64
318015	Glenui Super <b>Lamar</b>	65

## Classic Jersey

	Top 5 Rankings	66-67
314022	Linan Integrity <b>Winston</b>	68
314052	Crescent Excell <b>Misty</b> ET	69
314004	Bells OI <b>Floyd</b> S3J	70
315009	Riverview AND <b>Dexter</b> S2J	71
313023	Crescent Excell <b>Monopoly</b>	72
314012	Kaitaka OI <b>Leopard</b> ET	73
314005	Okura Elicit <b>Invoke</b> ET	74
315049	Kaimatarau Terrific <b>Punch</b>	75
314039	Foxton Manz <b>Clayton</b>	76
315045	Glenui Degree <b>Hoss</b> ET	77
311013	Okura LT <b>Integrity</b>	78
315008	Pukeroa AND <b>Baratone</b> ET	79

## Economy Jersey

309012	Kelland KC <b>Speedway</b>	80
314020	Arrieta Degree <b>Jangle</b> ET	80
311029	Willand LT <b>Dynamo</b>	80
312034	Okura Goldie <b>Index</b>	80
312057	Bells CM <b>Conrad</b> S2J	81
315029	Thornwood Degree <b>Trigger</b>	81
312059	Lynbrook GG <b>Quicksilver</b>	81
313046	Okura OLM <b>Kaino</b> ET	81
	Jersey Also Availables	82

## Genomic KiwiCross®

	Top 5 Rankings	84
518076	Greenwell <b>Blackhawk</b>	85
518015	Smiths <b>Herald</b>	86
517001	Arkans <b>Patriarch</b> -ET	87
518063	Van Straalens <b>Safari</b>	87
517026	Howses <b>Springfield</b>	88
518016	Horizon <b>Ascott</b>	88
517043	Glen Koru <b>Proclaimer</b> -ET	89
518072	Deans <b>Professional</b>	89
518047	Clarkes <b>Masterclass</b>	90
518056	Jacksons <b>Bocelli</b>	90
518037	Shepherds <b>Egmont</b> -ET	91

## Classic KiwiCross®

	Top 5 Rankings	92-93
515025	Speakes <b>Slipstream</b> ET	94
515017	Lynbrook <b>Kartell</b>	95
515011	Lynskeys <b>Liam</b>	96
514017	Glen Koru <b>Beckon</b>	97
515058	Kahurangi <b>Izabull</b>	98
511011	Priests <b>Sierra</b>	99
515062	Duggans <b>Gameplan</b>	100
513098	Arkans <b>Bounty</b>	101
515068	Woodwards <b>Spot On</b>	102
515083	McCaoss <b>Majesty</b>	103
514018	Glen Koru <b>Epic</b>	104
512005	Just Once <b>Cooper</b>	105
513074	Schraders <b>Tusk</b>	106
513050	Woodheys <b>Speed Dial</b>	107

## Economy KiwiCross®

513016	Horizon <b>Blazer</b> ET	108
512048	Athlism <b>Pacemaker</b>	108
513076	Kamaha <b>King</b>	108
512050	Arkans <b>Perspective</b> -ET	108
511026	Arkans <b>Beaut</b> ET	109
511051	Drysdale <b>Sovereign</b>	109
513066	Mouries <b>Luigi</b>	109
514015	Glen Koru <b>Ethos</b> -ET S1F	109
	KiwiCross® Also Availables	110

## Ayrshire

511597	Southwind Jacks <b>Quintin</b>	112
512502	Greenlane <b>Toledo</b>	112
515514	Sanrosa <b>Dalton</b> ET	113
515503	Iwa <b>Super Sonic</b>	113
513521	Sanrosa <b>Deacon</b> ET	114
514509	Iwa Snows <b>Rumba</b> ET	114
	Young Ayrshire	115-116
	Ayrshire Also Availables	116



# How to Read a Sire Page

## Labels

Bulls with standout attributes have these highlighted. The attributes are calculated within breed and based on the RAS list 11/02/2019. 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 BV of 40 kg indicates that the bull will produce daughters which on average, are genetically superior to the base cow by 20 kg per 5t dry matter consumed.

## Fertility

A BV of 7.9% indicates that 3.95% 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 BV of 614 days indicates the bull's daughters are expected to last in the herd for 307 days longer, compared to a bull of 0 days. The average number of New Zealand lactations is now 5.5.

## Shed Temperament

A BV of 0.00 indicates that the bull will produce daughters which on average, are genetically the same as the base cow. (For example by using a bull with a shed temperament of 0.88 the raw score for his daughters on average is expected to be  $6.28 + 0.44 = 6.72$  from a linear score of 9).

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

## Stature

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

## 114007 Busy Brook WTP Vector S3F

Holstein-Friesian F16  
Registered Pedigree (Supplementary)

BW \$182/86% REL

Premier Sire

#1 Fertility bull



## Production BVs 102 Daughters 47 Herds

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
40 kg	36 kg	961 l	104 kg
4.7 %	3.8 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
7.9 %	-0.37	0.47	-2 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
614 days	0.4 %	-2.8 days

● Production efficiency	\$76	42%
● Robustness	\$106	58%

TOP traits 88 Daughters TOP Inspected				
Management	BV	-0.5	0	0.5 1.0
Adapts to Milking	.89			
Shed Temperament	.88			
Milking Speed	.47			
Overall Opinion	.98			
Conformation	BV	-0.5	0	0.5 1.0
Stature	1.20			
Capacity	.81			
Rump Angle	.20			
Rump Width	.73			
Legs	.23			
Udder Support	.33			
Front Udder	.38			
Rear Udder	.09			
Front Teat Placement	.06			
Rear Teat Placement	-.19			
Udder Overall	.37			
Dairy Conformation	.68			

New Zealand Genetics 35%

Fertility carrier

AE 11/02/2019

## BW/Rel

Using this bull at a BW of \$182 indicates that per 5t DM the replacements are expected to generate NZD \$182 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 BV of 104 kg indicates by using this sire over the average cow in New Zealand his daughters are expected to have a mature liveweight 52 kg heavier than the base cow of 500 kg. Because Breeding Values (BV) are calculated across breed you would expect a Holstein Friesian to have a much higher (positive) BV for liveweight and you would expect Jerseys to have a lower (negative) BV.

## Milk

A BV of 961 litres indicates the bull will produce daughters which on average will produce 480 litres more than the base cow per 5t of dry matter fed. Remember the BV is across breeds so Jersey and Crossbred animals may show a negative BV.

## 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 \$76 from Production efficiency and \$106 from Robustness for a total of \$182 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 BV the better as you want to reduce the bulk milk SCC.

## Calving Difficulty

A sires Calving Difficulty BV compares the percentage of assisted calvings expected when he is mated to yearling heifers, 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 (BV) are calculated across breed you would expect a Holstein-Friesian to have a much higher (positive) BV for milk and you would expect Jerseys to have a lower (negative) BV.

### Base cow production information

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



## Premier Sires Pricing

## 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/A2 team* (per insemination)	Daughter Proven (per insemination)
1-100	\$26.95	\$26.95	\$23.95
101-200	\$26.45	\$26.45	\$23.45
201-300	\$25.95	\$25.95	\$22.95
301-400	\$25.35	\$25.35	\$22.35
401-500	\$24.75	\$24.75	\$21.75
501-600	\$24.15	\$24.15	\$21.15
601-700	\$23.55	\$23.55	\$20.55
701-800	\$22.95	\$22.95	\$19.95
801-900	\$22.35	\$22.35	\$19.35
901-1000	\$21.75	\$21.75	\$18.75
1001-1100	\$21.15	\$21.15	\$18.15
1101-2000	\$20.50	\$20.50	\$17.50
2001-5000	\$19.65	\$19.65	\$16.65
5001+	\$19.40	\$19.40	\$16.40

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

\* The Premier Sires A2/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/A2 or Daughter Proven rate.

Example: The 100th and your 101st Forward Pack insemination would be charged at \$26.95 and \$26.45 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

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

## Alpha® Pack 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	<ul style="list-style-type: none"> <li>Minimum order of 20 straws</li> <li>Can mix breeds</li> </ul>	3+ Bulls	\$15.70	\$14.13
Classic Pack	<ul style="list-style-type: none"> <li>Minimum order of 30 straws</li> <li>Can mix breeds</li> </ul>	3 Bulls	\$27.20	\$24.48
		4 Bulls	\$24.95	\$22.46
		5+ Bulls	\$22.70	\$20.43
Genomic Pack	<ul style="list-style-type: none"> <li>Minimum order of 30 straws</li> <li>Can mix breeds</li> </ul>	5+ Bulls	\$28.40	\$25.56
Ayrshire Pack	<ul style="list-style-type: none"> <li>Minimum order of 20 straws</li> </ul>	3+ Bulls	\$19.30	\$17.37
Young Ayrshire Pack	<ul style="list-style-type: none"> <li>Minimum order of 20 straws</li> </ul>	(No choice)	\$4.50	\$4.05
		3+ Bulls (choice)	\$13.12	\$11.81
Beef Pack	<ul style="list-style-type: none"> <li>Range of breeds available - see page 125 for options</li> </ul>	(No choice)	\$9.75	\$8.78
No Choice Packs	<ul style="list-style-type: none"> <li>Once-A-Day (page 12)</li> <li>High Input (page 11)</li> <li>KX high Jersey content (page 10)</li> <li>Minimum order 30 straws</li> </ul>	(No choice)	\$20.55	\$18.50

Volume discounts (1-10%) may apply and will be additional to the InvestaMate discount outlined above (see page 128 for details). Prices exclude insemination costs.

All prices exclude GST

### Compact Calving + BW

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

Compact Calving + BW					
KiwiCross®	Frozen	-9.2	186	\$22.65	\$20.39
Holstein-Friesian	Frozen	-7.5	188	\$22.65	\$20.39

## Polled Teams

### Polled + BW

The polled gene is a single gene that is dominant over horned. This means that an animal need only inherit (from either parent) one copy of the favourable polled gene to display the characteristic.

The polled bulls available through LIC® are mostly heterozygous (Pp) which means they carry just a single copy of the polled gene. This means, if mated to a horned cow, 50% of the progeny will receive a copy of the polled gene from their sire, and will therefore be polled themselves. We do have two sires that are homozygous (PP), which means they carry a double copy of the polled gene, therefore 100% of their progeny will be polled.

For 2019 LIC have put together the below Polled + BW No Choice Pack from \$18.50, Individually \$24.95

Code	Name	gBW/BW\Rel	Protein	Fat	Volume	Fertility	Calv/D	SCC	Udder O	A2	Gene
118086	Costers AB <b>Pollicy</b> -P S2F	211/49	28	30	689	7.4	1.0	-0.51	0.36	A1A1	Pp
117037	Costers <b>Northpoll</b> PP S1F	170/49	22	38	428	0.0	0.6	-0.33	0.07	A1A1	PP
115132	Costers <b>Polarise</b> -ET S3F	159/82	21	36	482	0.1	0.6	-0.28	0.16	A1A1	Pp
119066	Meander <b>Apollo</b> P-ET S2F	156/53	29	32	629	1.3	2.2	-0.16	0.33	A2A2	Pp
118069	Costers <b>Pollice</b> PP-ET S3F	142/54	25	8	722	1.7	0.9	-0.46	0.30	A2A2	PP
117036	Costers <b>Metropolis</b> P S2F	133/60	34	24	650	-1.2	0.6	0.08	-0.10	A1A2	Pp
117002	Arkan <b>Pollisher</b> P-ET S2F	102/59	22	15	695	3.3	2.6	0.20	-0.22	A2A2	Pp
	Average	153/93	26	26	614	1.8	1.2	-0.21	0.13		

Code	Name	gBW/BW\Rel	Protein	Fat	Volume	Fertility	Calv/D	SCC	Udder O	A2	Gene
518008	Arkans <b>Polynesia</b> -P F11J5	208/52	21	34	332	3.4	0.2	0.09	0.50	A1A2	Pp
517004	Arkans <b>Napoleon</b> -P F12J4	164/58	10	11	18	5.0	-0.5	-0.60	0.08	A1A2	Pp
517012	Arkans <b>Pollinator</b> P-ET F11J5	95/59	20	21	534	1.0	-0.9	-0.36	-0.09	A2A2	Pp
	Average	156/87	17	22	295	3.1	-0.4	-0.29	0.16		

### KiwiCross® High Jersey Content Pack

Data Source: 11/02/2019

This year the LIC Premier Sires® KiwiCross® team is made up with higher Holstein-Friesian content bulls. For farmers that are wanting a team of KiwiCross® sires that are predominantly more Jersey, LIC has put together the KiwiCross® high Jersey content pack; a great option for mating young cows and yearlings.

This is a No Choice Pack and is available from \$18.50\*

Code	Name	BW/Rel	Breed Split	Protein	Fat	Volume	Fertility	Calv/D	SCC	Capacity	Udder O	Page
515062	Duggans <b>Gameplan</b>	247/83	J12F4	6	28	-556	1.3	-3.4	-0.07	0.24	0.64	100
514017	Glen Koru <b>Beckon</b>	235/87	J11F5	29	51	502	-1.0	-3.2	-0.21	0.60	0.22	97
515017	Lynbrook <b>Kartell</b>	212/78	J8F7A1	19	22	58	1.6	-1.8	0.07	0.29	0.68	95
515011	Lynskeys <b>Liam</b>	209/79	J9F6	15	16	148	2.9	-1.3	-0.63	0.91	0.61	96
513050	Woodheys <b>Speed Dial</b>	189/98	J8F7	14	24	-155	0.5	-0.2	-0.14	-0.02	0.45	107
513098	Arkans <b>Bounty</b>	178/98	J11F5	18	22	230	0.0	0.0	-0.12	0.63	0.91	101
515025	Speakes <b>Slipstream</b> ET	175/80	J10F6	11	29	-114	1.0	-2.3	0.00	0.41	1.10	94
	Average	207/98		16	27	16	0.9	-1.7	-0.16	0.44	0.66	

\*If 10% InvestaMate discount applies (see page 128)



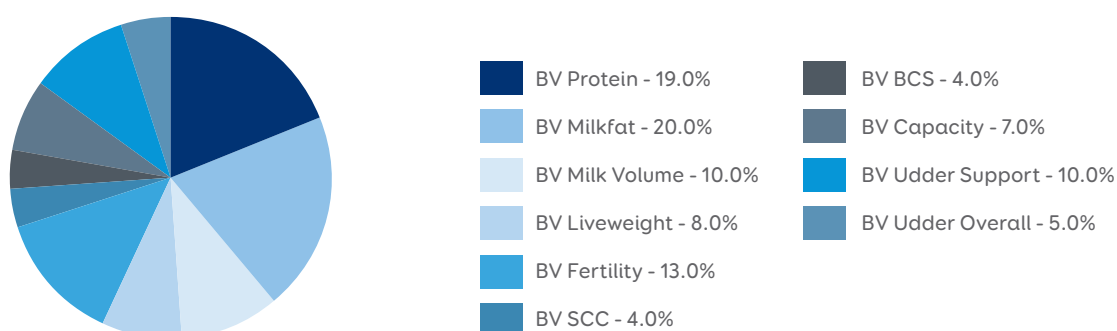
## High Input Teams

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 2019 LIC have put together the below no choice packs which are available from \$18.50\*

### 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 BW.



### 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 BW & PW, it does not represent an economic value of the animal's productive performance or ability to breed profitable replacements.

Code	Name	BW/Rel	HI Index	Protein	Fat	Volume	Fertility	Calv/D	SCC	Capacity	Udder O	Page
114057	Maire FI <b>Golddigger</b>	109/87	1523	38	43	1148	0.0	4.5	-0.10	1.01	1.21	49
115054	Meander SB <b>Wingman</b> -ET S3F	151/81	1465	29	28	754	0.8	1.5	-0.56	-0.08	1.24	47
111037	San Ray FM <b>Beamer</b> -ET S2F	189/99	1463	36	38	762	4.0	0.9	0.25	0.76	0.65	41
114007	Busy Brook WTP <b>Vector</b> S3F	182/86	1423	36	40	961	7.9	0.4	-0.37	0.81	0.37	36
115112	Kingsdown AM <b>Jaxon</b> -ET S2F	121/86	1417	45	46	1389	0.0	2.3	0.03	0.42	0.57	38
113120	Bothwell WT <b>Maxima</b> S2F	150/99	1413	20	29	514	2.5	0.8	-0.22	0.46	1.00	51
115021	Gordons AM <b>Lancelot</b> S3F	144/89	1376	34	29	816	3.0	1.6	-0.01	0.53	0.27	45
Average		150/99	1440	34	36	906	2.6	1.7	-0.14	0.56	0.76	

Code	Name	BW/Rel	HI Index	Protein	Fat	Volume	Fertility	Calv/D	SCC	Capacity	Udder O	Page
513098	Arkans <b>Bounty</b> F5J11	178/98	1425	18	22	230	0.0	0.0	-0.12	0.63	0.91	101
515025	Speakes <b>Slipstream</b> ET F6J10	175/80	1405	11	29	-114	1.0	-2.3	0.00	0.41	1.10	94
515068	Woodwards <b>Spot On</b> F9J7	185/80	1396	17	33	254	3.5	-1.9	-0.09	1.20	0.40	102
514017	Glen Koru <b>Beckon</b> F5J11	235/87	1393	29	51	502	-1.0	-3.2	-0.21	0.60	0.22	97
515058	Kahurangi <b>Izabull</b> F9J7	265/82	1392	25	36	384	3.9	-0.4	-0.31	-0.13	0.49	98
515083	McCaoss <b>Majesty</b> F13J3	190/80	1387	31	33	450	1.1	2.2	-0.11	0.06	0.68	103
514018	Glen Koru <b>Epic</b> F7J9	196/83	1354	24	22	269	3.9	0.1	-0.08	0.27	0.42	104
Average		203/98	1393	22	32	282	1.8	-0.8	-0.13	0.43	0.60	

\* If 10% InvestaMate discount applies (see page 128)

## Once-A-Day

Once-A-Day (OAD) milking is gaining popularity as an efficient way of combating low pay outs through reduction in 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 new OAD index has been developed to help OAD farmers breed animals most suitable to their system.

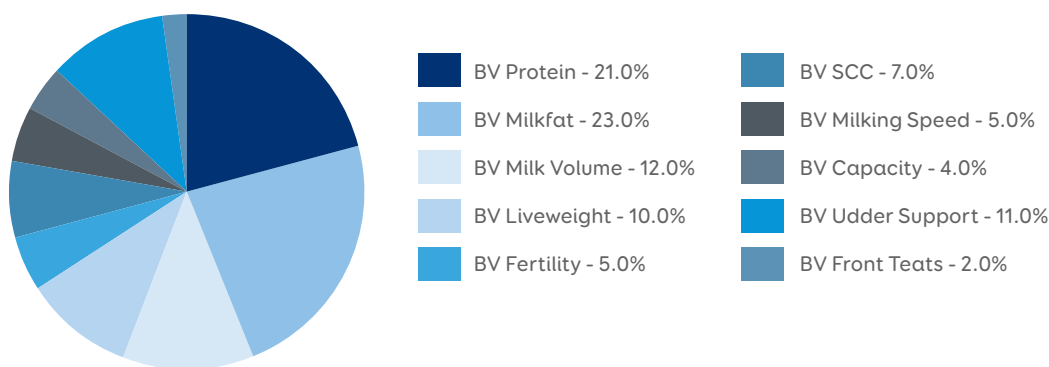
Our goal is to support OAD farmers in breeding cows that persist throughout the lactation and have longevity in the herd. The new index has a strong correlation to Breeding Worth (BW) but also combines the non-negotiable OAD functional traits. It reflects what farmers have told us is required in a desirable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



### 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 BW & 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

## Once-A-Day Teams

Code	Name	BW/Rel	OADS	Fat	Protein	Volume	Fertility	Calv/D	SCC	Capacity	Udder O	Page
115054	Meander SB <b>Wingman</b> -ET S3F	151/81	1324	28	29	754	0.8	1.5	-0.56	-0.08	1.24	47
111037	San Ray FM <b>Beamer</b> -ET S2F	189/99	1305	38	36	762	4.0	0.9	0.25	0.76	0.65	41
114032	Woodcote FI <b>Mastermind</b>	166/85	1282	54	34	811	-1.0	5.9	-0.09	0.15	0.56	43
113120	Bothwell WT <b>Maxima</b> S2F	150/99	1271	29	20	514	2.5	0.8	-0.22	0.46	1.00	51
112034	Carsons FM <b>Cairo</b> S3F	175/98	1259	35	27	712	5.7	0.7	-0.41	0.54	0.45	44
115021	Gordons AM <b>Lancelot</b> S3F	144/89	1255	29	34	817	3.0	1.6	-0.01	0.53	0.27	45
113070	Greenwell FI <b>Blade</b> S3F	121/99	1233	24	30	615	0.8	4.3	0.04	0.58	0.78	56
Average		157/99	1276	34	30	712	2.3	2.2	-0.14	0.42	0.71	

Code	Name	BW/Rel	OADS	Fat	Protein	Volume	Fertility	Calv/D	SCC	Capacity	Udder O	Page
315045	Glenui Degree <b>Hoss</b> ET	255/83	1316	28	3	-533	1.1	-2.3	-0.32	0.32	0.66	77
314012	Kaitaka OI <b>Leopard</b> ET	252/90	1313	23	0	-676	1.6	-2.0	-0.39	-0.06	0.84	73
314022	Linan Integrity <b>Winston</b>	251/91	1313	27	11	-120	1.2	-2.0	0.23	-0.12	0.75	68
315008	Pukeroa AND <b>Baratone</b> ET	260/81	1307	18	5	-563	1.8	-1.2	-0.20	0.34	0.62	79
315009	Riverview AND <b>Dexter</b> S2J	232/82	1295	22	10	-237	4.0	-2.3	-0.11	0.58	0.66	71
313023	Crescent Excell <b>Monopoly</b>	233/86	1288	26	1	-749	-1.7	-3.4	-0.06	0.36	0.40	72
314039	Foxton Manz <b>Clayton</b>	212/93	1262	20	7	-432	1.8	-3.0	-0.48	0.18	0.45	76
Average		242/99	1299	24	5	-473	1.4	-2.3	-0.19	0.23	0.63	

Code	Name	BW/Rel	OADS	Fat	Protein	Volume	Fertility	Calv/D	SCC	Capacity	Udder O	Page
514017	Glen Koru <b>Beckon</b>	235/87	1328	51	29	502	-1.0	-3.3	-0.21	0.60	0.22	97
515083	McCaoss <b>Majesty</b>	190/80	1297	33	31	450	1.1	2.2	-0.11	0.06	0.68	103
515025	Speakes <b>Slipstream</b> ET	175/80	1297	29	11	-114	1.0	-2.3	0.00	0.41	1.10	94
515017	Lynbrook <b>Kartell</b>	212/78	1289	22	19	58	1.6	-1.8	0.07	0.29	0.68	95
515068	Woodwards <b>Spot On</b>	185/80	1272	33	17	254	3.5	-1.9	-0.09	1.20	0.40	102
514018	Glen Koru <b>Epic</b>	196/83	1254	22	24	269	3.9	0.1	-0.08	0.27	0.42	104
514056	Tirohanga <b>Take Note</b>	171/84	1246	22	12	-40	0.5	-2.9	0.00	0.69	0.46	
Average		195/98	1283	30	20	197	1.5	-1.4	-0.06	0.50	0.56	

\* These bulls are available by breed in No Choice Packs from \$18.50\*

\* If 10% InvestaMate discount applies (see page 128)

AE 11/02/2019



## 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).

## 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.

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

A.

Premier Sires®



## Forward Pack Team

## Potential 2019 Holstein-Friesian Premier Sires® Forward Pack Team

Sire
115080 Westedge VHR <b>Sweet As</b> S2F
111037 San Ray FM <b>Beamer</b> -ET S2F
113009 Hazael SH <b>Distinct</b> -ET S1F
114007 Busy Brook WTP <b>Vector</b> S3F
111036 Arkan FM <b>Buster</b> -ET S2F
112034 Carsons FM <b>Cairo</b> S3F
114032 Woodcote FI <b>Mastermind</b>
115046 Tralee GB <b>Resonate</b> -ET S3F
117068 Meander SB <b>Arrow</b> -ET S2F
118031 Dicksons HD <b>Myth</b> -ET S1F

Sire
118070 Tafts GR <b>Supervisor</b> S1F
118068 Bagworth GI <b>Original</b> S3F
118104 Woodcote G <b>Lookout</b> -ET S2F
118001 Waimata SB <b>Ransom</b> -ET S2F
116036 Arkan MGH <b>Backdrop</b> -ET S2F
118051 Greenwell DM <b>Alcatraz</b> S1F
118042 Dicksons MH <b>Mason</b> -ET S2F
117057 Maire GL <b>Graduate</b> -ET
117021 Tafts TT <b>Official</b> -ET S2F
117061 Allans SB <b>Antidote</b> S2F

### WEIGHTED AVERAGES OF PREMIER SIRES

Management	-0.5	0	0.5	1
Adapts to Milking	.33			quickly
Shed Temperament	.31			placid
Milking Speed	.22			fast
Overall Opinion	.44			desirable
Conformation	-0.5	0	0.5	1
Stature	.62			tall
Capacity	.33			capacious
Rump Angle	-.07			sloping
Rump Width	.44			wide
Legs	.02			curved
Udder Support	.43			strong
Front Udder	.37			strong
Rear Udder	.30			high
Front Teat Placement	.07			close
Rear Teat Placement	.21			close
Udder Overall	.40			desirable
Dairy Conformation	.42			desirable

BW/gBW/Rel%	\$ 198/99
Milkfat	38 kgs
Protein	35 kgs
Milk	772 l
Liveweight	40 kgs
Longevity	559 days
Milkfat %	4.8 %
Protein %	3.9 %
Calving Dif	1.7 %
Fertility	3.6 %
SCC	-0.16
BCS	0.11

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

Shaded bulls are daughter proven with AEU BW & BVs.



Non-shaded bulls are genomically selected with LIC gBW & gBV data.

Evaluation date: 11/02/2019



## Forward Pack Team

## Potential 2019 Jersey Premier Sires® Forward Pack Team

Sire
314052 Crescent Excell <b>Misty</b> ET
315008 Pukeroa AND <b>Baratone</b> ET
315045 Glenui Degree <b>Hoss</b> ET
314012 Kaitaka OI <b>Leopard</b> ET
318021 Glanton Desi <b>Banff</b>
316035 Foxton LT <b>Fixation</b> S2J
318035 Shelby BC <b>Lotto</b> ET S3J

Sire
318009 Tironui <b>Superman</b> ET
318018 Foxton Dane <b>Cobra</b> S3J ET
318034 Shelby BC <b>Lunar</b> ET S3J
318012 Lynbrook King <b>Quadrant</b>
318029 Glenui BC <b>Laredo</b> ET S3J
318002 Okura Coyote <b>Lennox</b> S3J
318015 Glenui Super <b>Lamar</b>

### WEIGHTED AVERAGES OF PREMIER SIRES

Management	-0.5	0	0.5	1
Adapts to Milking	.23			quickly
Shed Temperament	.25			placid
Milking Speed	.21			fast
Overall Opinion	.29			desirable
Conformation	-0.5	0	0.5	1
Stature	-.77			tall
Capacity	.39			capacious
Rump Angle	-.12			sloping
Rump Width	.01			wide
Legs	.05			curved
Udder Support	.40			strong
Front Udder	.52			strong
Rear Udder	.59			high
Front Teat Placement	.09			close
Rear Teat Placement	-.11			close
Udder Overall	.57			desirable
Dairy Conformation	.40			desirable

BW/gBW/Rel%	\$ 270/98
Milkfat	28 kgs
Protein	6 kgs
Milk	-453 l
Liveweight	-40 kgs
Longevity	461 days
Milkfat %	6.0 %
Protein %	4.3 %
Calving Dif	-1.9 %
Fertility	3.5 %
SCC	-0.24
BCS	0.17

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

Shaded bulls are daughter proven with AEU BW & BVs.



Non shaded bulls are genomically selected with LIC gBW & gBV data.

Evaluation date: 11/02/2019

## Forward Pack Team

### Potential 2019 KiwiCross® Premier Sires® **Forward Pack Team** (F9J7)

Sire
515058 Kahurangi <b>Izabull</b>
514017 Glen Koru <b>Beckon</b>
515017 Lynbrook <b>Kartell</b>
511011 Priests <b>Sierra</b>
514018 Glen Koru <b>Epic</b>
515083 Mccaoss <b>Majesty</b>
518076 Greenwell <b>Blackhawk</b>
517026 Howses <b>Springfield</b>
518015 Smiths <b>Herald</b>

Sire
517043 Glen Koru <b>Proclaimer</b> -ET
518037 Shepherds <b>Egmont</b> -ET
518047 Clarkes <b>Masterclass</b>
518056 Jacksons <b>Bocelli</b>
517067 Cawdor <b>Pinnacle</b>
518016 Horizon <b>Ascott</b>
518017 Horizon <b>Barnstormer</b> -ET
516015 Hyjinks <b>Snapper</b>
517021 Horizon <b>Banzai</b>

#### WEIGHTED AVERAGES OF PREMIER SIRES

Management	-0.5	0	0.5	1
Adapts to Milking	.32			quickly
Shed Temperament	.33			placid
Milking Speed	.23			fast
Overall Opinion	.38			desirable
Conformation	-0.5	0	0.5	1
Stature	-.07			tall
Capacity	.39			capacious
Rump Angle	-.15			sloping
Rump Width	.20			wide
Legs	.08			curved
Udder Support	.48			strong
Front Udder	.44			strong
Rear Udder	.48			high
Front Teat Placement	.13			close
Rear Teat Placement	.35			close
Udder Overall	.53			desirable
Dairy Conformation	.38			desirable

BW/gBW/Rel%	\$ 237/98
Milkfat	<b>35 kgs</b>
Protein	<b>24 kgs</b>
Milk	<b>254 l</b>
Liveweight	<b>-2 kgs</b>
Longevity	<b>548 days</b>
Milkfat %	<b>5.2 %</b>
Protein %	<b>4.0 %</b>
Calving Dif	<b>-0.4 %</b>
Fertility	<b>3.6 %</b>
SCC	<b>-0.10</b>
BCS	<b>0.07</b>

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

Shaded bulls are daughter proven with AEU BW & BVs.



Non shaded bulls are genomically selected with LIC gBW & gBV data.

Evaluation date: 11/02/2019

## Daughter Proven Team

### Potential 2019 Holstein-Friesian Premier Sires® Daughter Proven Team

Sire	Sire
115080 Westedge VHR <b>Sweet As</b> S2F	112032 Jacques <b>Boy Jaks</b> S2F
111037 San Ray FM <b>Beamer</b> -ET S2F	113043 Adams BR <b>Ultimate</b> S3F
113009 Hazael SH <b>Distinct</b> -ET S1F	115054 Meander SB <b>Wingman</b> -ET S3F
114007 Busy Brook WTP <b>Vector</b> S3F	115068 Hodges GFB <b>Cutlass</b> S3F
111036 Arkan FM <b>Buster</b> -ET S2F	111067 Byreburn PF <b>Eternal</b> S2F
112034 Carsons FM <b>Cairo</b> S3F	113120 Bothwell WT <b>Maxima</b> S2F
114032 Woodcote FI <b>Mastermind</b>	115023 Tanglewood MT <b>Kauri</b> S2F
115132 Costers <b>Polarise</b> -ET S3F	115017 Langevelds SRB <b>Valour</b> S2F
114089 Mossops GB <b>Playmaker</b>	114123 Backhouse EO <b>Gravity</b> S2F
115046 Tralee GB <b>Resonate</b> -ET S3F	115021 Gordons AM <b>Lancelot</b> S3F

#### WEIGHTED AVERAGES OF PREMIER SIRES

Management	-0.5	0	0.5	1
Adapts to Milking	.26			quickly
Shed Temperament	.23			placid
Milking Speed	.17			fast
Overall Opinion	.37			desirable
Conformation	-0.5	0	0.5	1
Stature	.66			tall
Capacity	.36			capacious
Rump Angle	-.20			sloping
Rump Width	.31			wide
Legs	.01			curved
Udder Support	.47			strong
Front Udder	.35			strong
Rear Udder	.34			high
Front Teat Placement	.09			close
Rear Teat Placement	.37			close
Udder Overall	.42			desirable
Dairy Conformation	.42			desirable

BW/Rel%	\$ 166/99
Milkfat	36 kgs
Protein	28 kgs
Milk	638 l
Liveweight	41 kgs
Longevity	396 days
Milkfat %	4.9 %
Protein %	3.9 %
Calving Dif	1.7 %
Fertility	2.6 %
SCC	-0.10
BCS	0.11

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

Evaluation date: 11/02/2019



## Daughter Proven Team

### Potential 2019 Jersey Premier Sires® Daughter Proven Team

Sire	Sire
314052 Crescent Excell <b>Misty</b> ET	313023 Crescent Excell <b>Monopoly</b>
315008 Pukeroa AND <b>Baratone</b> ET	315009 Riverview AND <b>Dexter</b> S2J
315045 Glenui Degree <b>Hoss</b> ET	314004 Bells OI <b>Floyd</b> S3J
314012 Kaitaka OI <b>Leopard</b> ET	313046 Okura OLM <b>Kaino</b> ET
314022 Linan Integrity <b>Winston</b>	314039 Foxton Manz <b>Clayton</b>
311013 Okura LT <b>Integrity</b>	314005 Okura Elicit <b>Invoke</b> ET

#### WEIGHTED AVERAGES OF PREMIER SIREs

Management	-0.5	0	0.5	1
Adapts to Milking	.19			quickly
Shed Temperament	.23			placid
Milking Speed	.15			fast
Overall Opinion	.29			desirable
Conformation	-0.5	0	0.5	1
Stature	-.87			tall
Capacity	.40			capacious
Rump Angle	-.05			sloping
Rump Width	-.06			wide
Legs	.06			curved
Udder Support	.46			strong
Front Udder	.58			strong
Rear Udder	.65			high
Front Teat Placement	.12			close
Rear Teat Placement	.07			close
Udder Overall	.65			desirable
Dairy Conformation	.39			desirable

BW/Rel%	\$ 245/99
Milkfat	24 kgs
Protein	4 kgs
Milk	-494 l
Liveweight	-48 kgs
Longevity	367 days
Milkfat %	5.9 %
Protein %	4.3 %
Calving Dif	-2.2 %
Fertility	2.0 %
SCC	-0.22
BCS	0.16

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

Evaluation Date: 11/02/2019



## Daughter Proven Team

### Potential 2019 KiwiCross® Premier Sires® Daughter Proven Team (F9J7)

Sire	Sire
515058 Kahurangi <b>Izabull</b>	513050 Woodheys <b>Speed Dial</b>
514017 Glen Koru <b>Beckon</b>	513074 Schraders <b>Tusk</b>
515017 Lynbrook <b>Kartell</b>	515099 Mullins <b>Fineprint</b>
511011 Priests <b>Sierra</b>	515068 Woodward's <b>Spot On</b>
514018 Glen Koru <b>Epic</b>	515025 Speakes <b>Slipstream</b> ET
515083 Mccaoss <b>Majesty</b>	515077 Taramont <b>Hydro</b>

#### WEIGHTED AVERAGES OF PREMIER SIRES

Management	-0.5	0	0.5	1
Adapts to Milking	.31			quickly
Shed Temperament	.32			placid
Milking Speed	.28			fast
Overall Opinion	.38			desirable
Conformation	-0.5	0	0.5	1
Stature	-.06			tall
Capacity	.23			capacious
Rump Angle	-.25			sloping
Rump Width	.21			wide
Legs	.09			curved
Udder Support	.39			strong
Front Udder	.38			strong
Rear Udder	.47			high
Front Teat Placement	.10			close
Rear Teat Placement	.28			close
Udder Overall	.47			desirable
Dairy Conformation	.23			desirable

BW/Rel%	\$ 206/99
Milkfat	30 kgs
Protein	21 kgs
Milk	230 l
Liveweight	-4 kgs
Longevity	413 days
Milkfat %	5.1 %
Protein %	4.0 %
Calving Dif	-0.8 %
Fertility	2.7 %
SCC	-0.18
BCS	-0.02

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

Evaluation date: 11/02/2019



## A2A2 Team

### Potential 2019 Holstein-Friesian Premier Sires® A2A2 Team

Sire	Sire
118053 Greenwell GR <b>Governor</b> S1F	118014 Deans MH <b>Atlantis</b> S2F
118049 Dicksons DM <b>Levi</b> -ET S1F	116039 Arkan HF <b>Freelance</b> S2F
118071 Glenmead SB <b>Trapeze</b> S1F	118023 Tronnoco Inca <b>Shakir</b> S3F
116065 Dicksons BG <b>Mandate</b> S1F	117046 Telesis KJ <b>Emirate</b> S2F
118016 Werders MH <b>Optimal</b> S2F	118045 Dicksons HF <b>Mentor</b> -ET S2F
116013 Stoupes BG <b>Triumphant</b> S1F	117088 Spring River OL <b>Scout</b> S2F
118059 Lightburn AB <b>Riptide</b> S3F	116008 Azreel MGH <b>Jovial</b> S2F

#### WEIGHTED AVERAGES OF PREMIER SIRES \$XXXX/XX%

Management	-0.5	0	0.5	1
Adapts to Milking	.31			quickly
Shed Temperament	.30			placid
Milking Speed	.10			fast
Overall Opinion	.35			desirable
Conformation	-0.5	0	0.5	1
Stature	.46			tall
Capacity	.25			capacious
Rump Angle	-.13			sloping
Rump Width	.27			wide
Legs	-.02			curved
Udder Support	.43			strong
Front Udder	.35			strong
Rear Udder	.28			high
Front Teat Placement	.14			close
Rear Teat Placement	.31			close
Udder Overall	.39			desirable
Dairy Conformation	.30			desirable

gBW/Rel%	\$ 194/98
Milkfat	31 kgs
Protein	34 kgs
Milk	793 l
Liveweight	31 kgs
Longevity	604 days
Milkfat %	4.6 %
Protein %	3.8 %
Calving Dif	1.5 %
Fertility	2.8 %
SCC	-0.07
BCS	0.07

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

Bulls are genomically selected with LIC gBW & gBV data.

Source date 11/02/2019



## A2A2 Team

### Potential 2019 KiwiCross® Premier Sires® A2A2 Team (F9J7)

Sire	Sire
518072 Deans <b>Professional</b>	518001 Arkans <b>Balmoral</b>
517042 Luck-At-Last <b>Inspired</b> -ET	518003 Arkans <b>Slingshot</b> -ET
518044 Juffermans <b>Endurance</b> -ET	518025 Woodheys <b>Soprano</b>
518038 Werders <b>Premonition</b>	516058 Van Straalens <b>Catalyzer</b>
518061 Innovation <b>Homebrew</b>	516074 Crossans <b>Critical</b> -ET
518029 Roubroeks <b>Ammunition</b>	516043 Arkans <b>Boombox</b> -ET
517019 Hansarally <b>Rad</b>	518034 Ellisons <b>Poldark</b> -ET

#### WEIGHTED AVERAGES OF PREMIER SIRES

Management	-0.5	0	0.5	1
Adapts to Milking	.34			quickly
Shed Temperament	.33			placid
Milking Speed	.16			fast
Overall Opinion	.38			desirable
Conformation	-0.5	0	0.5	1
Stature	-.12			tall
Capacity	.40			capacious
Rump Angle	-.12			sloping
Rump Width	.11			wide
Legs	.00			curved
Udder Support	.51			strong
Front Udder	.47			strong
Rear Udder	.50			high
Front Teat Placement	.17			close
Rear Teat Placement	.34			close
Udder Overall	.55			desirable
Dairy Conformation	.43			desirable

gBW/Rel%	\$ 235/98
Milkfat	34 kgs
Protein	26 kgs
Milk	347 l
Liveweight	1 kg
Longevity	581 days
Milkfat %	5.1 %
Protein %	4.0 %
Calving Dif	-0.2 %
Fertility	3.4 %
SCC	-0.05
BCS	0.14

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

Bulls are genomically selected with LIC gBW & gBV data.

Source date 11/02/2019

## Potential 2019 Holstein-Friesian **Sexed** Team

Sire	Sire	
116019	Werders DE Overtime S1F	117082 Mullins SB Revolution S2F
118056	Lightburn MG Relic S2F	118078 Meander AB Raptor S2F
117035	Bellamys MH Gambit-ET S2F	

### TEAM WEIGHTED AVERAGES

Management	-0.5	0	0.5	1	gBW/Rel%	\$ 185/92
Adapts to Milking	.19			quickly	Milkfat	34 kgs
Shed Temperament	.17			placid	Protein	34 kgs
Milking Speed	.11			fast	Milk	741 l
Overall Opinion	.29			desirable	Liveweight	47 kgs
Conformation	-0.5	0	0.5	1	Longevity	544 days
Stature	.64			tall	Milkfat %	4.7 %
Capacity	.50			capacious	Protein %	3.9 %
Rump Angle	-.14			sloping	Calving Dif	2.5 %
Rump Width	.11			wide	Fertility	3.3 %
Legs	-.08			curved	SCC	0.03
Udder Support	.50			strong	BCS	0.17
Front Udder	.31			strong	NB: the reliability of a team of bulls is always higher than using just one bull. Bulls are genomically selected with LIC gBW & gBV data. Source date 11/02/2019	
Rear Udder	.34			high		
Front Teat Placement	.17			close		
Rear Teat Placement	.33			close		
Udder Overall	.45			desirable		
Dairy Conformation	.51			desirable		

## Potential 2019 KiwiCross® **Sexed** Team (F9J7)

Sire	Sire	
518063	Van Straalens Safari	518080 Ervines Rembrant
518069	Totara View Navigator	517014 Arkans Bodyguard
518045	Burmeisters Bullrush	

### TEAM WEIGHTED AVERAGES

Management	-0.5	0	0.5	1	gBW/Rel%	\$ 235/92
Adapts to Milking	.38			quickly	Milkfat	32 kgs
Shed Temperament	.39			placid	Protein	27 kgs
Milking Speed	.20			fast	Milk	368 l
Overall Opinion	.40			desirable	Liveweight	12 kgs
Conformation	-0.5	0	0.5	1	Longevity	578 days
Stature	.04			tall	Milkfat %	5.1 %
Capacity	.43			capacious	Protein %	4.0 %
Rump Angle	.00			sloping	Calving Dif	0.0 %
Rump Width	.26			wide	Fertility	3.7 %
Legs	.07			curved	SCC	-0.09
Udder Support	.52			strong	BCS	0.17
Front Udder	.43			strong	NB: the reliability of a team of bulls is always higher than using just one bull. Bulls are genomically selected with LIC gBW & gBV data. Source date 11/02/2019	
Rear Udder	.55			high		
Front Teat Placement	.12			close		
Rear Teat Placement	.37			close		
Udder Overall	.54			desirable		
Dairy Conformation	.46			desirable		

Q.

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

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Alpha<sup>®</sup> Sires



Holstein  
Friesian

## Holstein-Friesian

## TOP 5 Genomically Selected Rankings

## Breeding Worth

National herd breed average

\$32

Code	Name	gBW/Rel
117068	Meander SB <b>Arrow</b> -ET S2F	260/59
118031	Dicksons HD <b>Myth</b> -ET S1F	258/54
118070	Tafts GR <b>Supervisor</b> S1F	255/47
118053	Greenwell GR <b>Governor</b> S1F	244/49
118068	Bagworth GI <b>Original</b> S3F	235/59

## Protein

National herd breed average

17 kg

Code	Name	gBV
118001	Waimata SB <b>Ransom</b> -ET S2F	48
118104	Woodcote G <b>Lookout</b> -ET S2F	45
118070	Tafts GR <b>Supervisor</b> S1F	44
117068	Meander SB <b>Arrow</b> -ET S2F	37
118053	Greenwell GR <b>Governor</b> S1F	37

## Fertility

National herd breed average

-0.1 %

Code	Name	gBV
118068	Bagworth GI <b>Original</b> S3F	6.9
118031	Dicksons HD <b>Myth</b> -ET S1F	6.0
118042	Dicksons MH <b>Mason</b> -ET S2F	5.8
118053	Greenwell GR <b>Governor</b> S1F	5.5
118104	Woodcote G <b>Lookout</b> -ETS2F	4.3

## Capacity

National herd breed average

.14

Code	Name	gBV
118051	Greenwell DM <b>Alcatraz</b> S1F	.64
118001	Waimata SB <b>Ransom</b> -ET S2F	.58
118071	Glenmead SB <b>Trapeze</b> S1F	.34
117068	Meander SB <b>Arrow</b> -ET S2F	.31
118068	Bagworth GI <b>Original</b> S3F	.27

## Udder Overall

National herd breed average

.15

Code	Name	gBV
117068	Meander SB <b>Arrow</b> -ET S2F	.90
118053	Greenwell GR <b>Governor</b> S1F	.74
117021	Tafts TT <b>Official</b> -ET S2F	.56
118068	Bagworth GI <b>Original</b> S3F	.46
118071	Glenmead SB <b>Trapeze</b> S1F	.46

## 118053 Greenwell GR Governor S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW \$244/49% REL

Individually

\$31.55<sup>+</sup>gstGenomic Packs from \$25.56<sup>+</sup>gst

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Greenwell Farms		
<b>Sire</b>	Galatea MGH Regiment S1F	<b>MGS</b>	Farside M Illustrious S3F
<b>Dam</b>	CPR-13-1	<b>MGD</b>	CPR-03-34
<b>BW/Rel</b>	173/73	<b>BW/Rel</b>	72/89
<b>PW/Rel</b>	367/81	<b>PW/Rel</b>	223/84

## Genomic Production gBVs

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
40 kg	37 kg	701l	43 kg
4.8 %	3.9 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.5 %	-0.29	0.04	157 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
671 days	2.0 %	-5.6 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.21				
Shed Temperament	.20				
Milking Speed	.01				
Overall Opinion	.26				
Stature	.77				
Capacity	.14				
Rump Angle	-.14				
Rump Width	.50				
Legs	-.28				
Udder Support	.54				
Front Udder	.83				
Rear Udder	.41				
Front Teat Placement	.48				
Rear Teat Placement	.18				
Udder Overall	.74				
Dairy Conformation	.41				

New Zealand Genetics 42 %

## LIC Initiatives

Once-A-Day	1379	JDS	-0.6
High Input	1528	A2 Protein	A2A2
RFI	\$-7 / 10%	% Black	45 %



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



Ten-year-old maternal grandam. Owner: Greenwell Farms No 1, Opotiki



## 118070 Tafts GR Supervisor S1F



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



Four-year-old maternal great grandam. Owner: G &amp; L Taft, Te Puke

Holstein-Friesian F16  
Registered Pedigree (Supplementary)

gBW \$255/47% REL

Individually \$31.55<sup>+</sup>gst

Genomic Packs from \$25.56<sup>+</sup>gst

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	G & L Taft		
<b>Sire</b>	Galatea MGH Regiment S1F	<b>MGS</b>	Van Heuven VA Remedy S1F
<b>Dam</b>	DRQ-14-3	<b>MGD</b>	DRQ-12-30
<b>BW/Rel</b>	193/68	<b>BW/Rel</b>	205/69
<b>PW/Rel</b>	259/72	<b>PW/Rel</b>	402/80

## Genomic Production gBVs

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
52 kg	44 kg	1061 l	42 kg
4.8 %	3.8 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.8 %	-0.09	0.01	163 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
684 days	1.6 %	-8.5 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.59				
Shed Temperament	.57				
Milking Speed	.10				
Overall Opinion	.65				
Stature	.63				
Capacity	.12				
Rump Angle	-.31				
Rump Width	.50				
Legs	-.06				
Udder Support	.12				
Front Udder	.50				
Rear Udder	-.01				
Front Teat Placement	.01				
Rear Teat Placement	-.56				
Udder Overall	.24				
Dairy Conformation	.29				

New Zealand Genetics 44 %

## LIC Initiatives

Once-A-Day	1370	JDS	2.5
High Input	1473	A2 Protein	A2A2
RFI	\$-6 / 10%	% Black	95 %



118068 Bagworth GI **Original S3F**

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW \$235/59% REL

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	R & A Siddins		
<b>Sire</b>	Gydeland Excel Inca S3F	<b>MGS</b>	Fairmont Mint-Edition
<b>Dam</b>	JCT-11-3	<b>MGD</b>	JCT-07-137
<b>BW/Rel</b>	176/72	<b>BW/Rel</b>	135/54
<b>PW/Rel</b>	284/84	<b>PW/Rel</b>	255/83

**Genomic Production gBVs**

Production Efficiency			
<b>Milkfat</b>	<b>Protein</b>	<b>Milk Volume</b>	<b>Liveweight</b>
39 kg	32 kg	571 l	54 kg
5.0 %	3.9 %		

Robustness			
<b>Fertility</b>	<b>Somatic Cell Count</b>	<b>Body Condition Score</b>	<b>Residual Survival</b>
6.9 %	-0.09	0.15	202 days

Other		
<b>Total Longevity</b>	<b>Calving Difficulty</b>	<b>Gestation Length</b>
716 days	1.9 %	-2.6 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	-.05				
Shed Temperament	-.07				
Milking Speed	.06				
Overall Opinion	.18				
Stature	.87				
Capacity	.27				
Rump Angle	-.11				
Rump Width	.18				
Legs	.06				
Udder Support	.56				
Front Udder	.34				
Rear Udder	.51				
Front Teat Placement	-.15				
Rear Teat Placement	.08				
Udder Overall	.46				
Dairy Conformation	.43				

New Zealand Genetics 37 %

Fertility 4 carrier

**LIC Initiatives**

Once-A-Day	1337	JDS	0.3
High Input	1500	A2 Protein	A1A2
RFI	\$5 / 10%	% Black	90 %

118071 Glenmead SB **Trapeze S1F**

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

gBW \$221/49% REL



Four-year-old dam. Owner: Glenmead Farms Limited, Waimana

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	K & F Clark		
<b>Sire</b>	Spring Tralee Bass-ET S2F	<b>MGS</b>	Busy Brook Revitup-ET S2F
<b>Dam</b>	Glenmead 14-19-ET S0F	<b>MGD</b>	FMTG-12-151
<b>BW/Rel</b>	169/68	<b>BW/Rel</b>	124/73
<b>PW/Rel</b>	370/74	<b>PW/Rel</b>	287/80

**Genomic Production gBVs**

Production Efficiency			
<b>Milkfat</b>	<b>Protein</b>	<b>Milk Volume</b>	<b>Liveweight</b>
33 kg	27 kg	542 l	8 kg
4.8 %	3.9 %		

Robustness			
<b>Fertility</b>	<b>Somatic Cell Count</b>	<b>Body Condition Score</b>	<b>Residual Survival</b>
2.6 %	0.01	-0.03	315 days

Other		
<b>Total Longevity</b>	<b>Calving Difficulty</b>	<b>Gestation Length</b>
682 days	0.2 %	-6.1 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.26				
Shed Temperament	.33				
Milking Speed	.07				
Overall Opinion	.28				
Stature	-.01				
Capacity	.34				
Rump Angle	.21				
Rump Width	-.02				
Legs	.03				
Udder Support	.60				
Front Udder	.25				
Rear Udder	.36				
Front Teat Placement	.26				
Rear Teat Placement	.77				
Udder Overall	.46				
Dairy Conformation	.24				

New Zealand Genetics 41 %

**LIC Initiatives**

Once-A-Day	1345	JDS	7.4
High Input	1458	A2 Protein	A2A2
RFI	\$5 / 10%	% Black	85 %

## 118001 Waimata SB Ransom-ET S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

\$224/49%  
gBW REL



Individually \$31.55<sub>+gst</sub>

Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	A & S Stevenson		
<b>Sire</b>	Spring Tralee Bass-ET S2F	<b>MGS</b>	Farside M Illustrious S3F
<b>Dam</b>	Waimata 13-14 S1F	<b>MGD</b>	Waimata 10-4 S0F
<b>BW/Rel</b>	141/68	<b>BW/Rel</b>	103/52
<b>PW/Rel</b>	396/74	<b>PW/Rel</b>	317/75

### Genomic Production gBVs

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
40 kg	48 kg	1076 l	50 kg
4.6 %	3.8 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.0 %	-0.06	0.07	253 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
724 days	1.4 %	-5.8 days

### Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.32				
Shed Temperament	.37				
Milking Speed	.17				
Overall Opinion	.48				
Stature	.76				
Capacity	.58				
Rump Angle	-.15				
Rump Width	.65				
Legs	-.24				
Udder Support	.34				
Front Udder	.16				
Rear Udder	.23				
Front Teat Placement	.17				
Rear Teat Placement	.31				
Udder Overall	.32				
Dairy Conformation	.68				

New Zealand Genetics 38 %

### LIC Initiatives

Once-A-Day	1372	JDS	15.7
High Input	1492	A2 Protein	A2A2
RFI	\$1 / 10%	% Black	70 %

## 118031 Dicksons HD Myth-ET S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

\$258/54%  
gBW REL



Two-year-old dam. Owner: M & J Dickson, Te Awamutu

Individually \$31.55<sub>+gst</sub>

Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	M & J Dickson		
<b>Sire</b>	Hazael SH Distinct-ET S1F	<b>MGS</b>	Carsons Mecca Pulse S1F
<b>Dam</b>	Dicksons CP Margy S1F	<b>MGD</b>	Dicksons ME Maggie S0F
<b>BW/Rel</b>	249/68	<b>BW/Rel</b>	205/71
<b>PW/Rel</b>	559/79	<b>PW/Rel</b>	418/78

### Genomic Production gBVs

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
35 kg	33 kg	737 l	3 kg
4.7 %	3.8 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
6.0 %	-0.38	0.00	144 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
660 days	0.3 %	0.2 days

### Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.19				
Shed Temperament	.15				
Milking Speed	.37				
Overall Opinion	.35				
Stature	.19				
Capacity	.07				
Rump Angle	-.41				
Rump Width	.40				
Legs	.21				
Udder Support	.22				
Front Udder	.33				
Rear Udder	.06				
Front Teat Placement	-.17				
Rear Teat Placement	-.16				
Udder Overall	.22				
Dairy Conformation	.15				

New Zealand Genetics 38 %

### LIC Initiatives

Once-A-Day	1351	JDS	4.9
High Input	1447	A2 Protein	A1A2
RFI	\$2 / 10%	% Black	95 %

Data source: 11/02/2019

118042 Dicksons MH **Mason**-ET S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

\$209/58%  
gBW REL



Two-year-old dam. Owner: M &amp; J Dickson, Te Awamutu

Individually \$31.55<sub>+gst</sub>

Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	M & J Dickson		
<b>Sire</b>	Mourne Grove Hothouse S2F	<b>MGS</b>	Carsons Mecca Pulse S1F
<b>Dam</b>	Dicksons CP Margy S1F	<b>MGD</b>	Dicksons ME Maggie S0F
<b>BW/Rel</b>	249/68	<b>BW/Rel</b>	205/71
<b>PW/Rel</b>	559/79	<b>PW/Rel</b>	418/78

## Genomic Production gBVs

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
33 kg	33 kg	853 l	16 kg
4.5 %	3.8 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.8 %	0.06	0.11	56 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
548 days	1.1 %	-2.0 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.55				
Shed Temperament	.59				
Milking Speed	.11				
Overall Opinion	.55				
Stature	.28				
Capacity	.00				
Rump Angle	-.18				
Rump Width	.29				
Legs	-.05				
Udder Support	.32				
Front Udder	.49				
Rear Udder	.22				
Front Teat Placement	.26				
Rear Teat Placement	.14				
Udder Overall	.44				
Dairy Conformation	.16				

New Zealand Genetics 40 %

## LIC Initiatives

Once-A-Day	1300	JDS	-0.6
High Input	1422	A2 Protein	A2A2
RFI	\$0 / 10%	% Black	80 %

117068 Meander SB **Arrow**-ET S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

\$260/59%  
gBW REL



Individually \$31.55<sub>+gst</sub>

Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Meander Holsteins		
<b>Sire</b>	San Ray FM Beamer-ET S2F	<b>MGS</b>	Farside M Illustrious S3F
<b>Dam</b>	Meander FMI April S2F	<b>MGD</b>	Meander 08-153 S1F
<b>BW/Rel</b>	203/80	<b>BW/Rel</b>	103/64
<b>PW/Rel</b>	596/75	<b>PW/Rel</b>	199/85

## Genomic Production gBVs

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
45 kg	37 kg	638 l	37 kg
4.9 %	3.9 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.3 %	0.16	0.12	159 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
684 days	0.1 %	-7.1 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.43				
Shed Temperament	.39				
Milking Speed	.29				
Overall Opinion	.55				
Stature	.48				
Capacity	.31				
Rump Angle	.05				
Rump Width	.64				
Legs	-.04				
Udder Support	.91				
Front Udder	.73				
Rear Udder	.86				
Front Teat Placement	.26				
Rear Teat Placement	.48				
Udder Overall	.90				
Dairy Conformation	.40				

New Zealand Genetics 32 %

## LIC Initiatives

Once-A-Day	1450	JDS	3.3
High Input	1628	A2 Protein	A1A2
RFI	\$-1 / 10%	% Black	65 %



118051 Greenwell DM **Alcatraz** S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW \$215/47% REL



Three-year-old dam. Owner: Greenwell Farms No1, Opotiki

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Greenwell Farms		
<b>Sire</b>	Dicksons BG Mandate S1F	<b>MGS</b>	Morris TF Lamont S1F
<b>Dam</b>	CPR-15-108	<b>MGD</b>	CPR-12-64
<b>BW/Rel</b>	127/68	<b>BW/Rel</b>	65/78
<b>PW/Rel</b>	210/65	<b>PW/Rel</b>	134/52

## Genomic Production gBVs

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
28 kg	28 kg	547 l	9 kg
4.8 %	3.9 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.2 %	-0.52	0.05	141 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
563 days	0.5 %	-4.1 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.45				
Shed Temperament	.44				
Milking Speed	.10				
Overall Opinion	.40				
Stature	.12				
Capacity	.64				
Rump Angle	.00				
Rump Width	.40				
Legs	.22				
Udder Support	.38				
Front Udder	.46				
Rear Udder	.05				
Front Teat Placement	.22				
Rear Teat Placement	.57				
Udder Overall	.31				
Dairy Conformation	.59				

New Zealand Genetics 41 %

## LIC Initiatives

Once-A-Day	1336	JDS	4.7
High Input	1450	A2 Protein	A1A2
RFI	\$5 / 10%	% Black	90 %

118104 Woodcote G **Lookout**-ET S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

gBW \$230/55% REL



Three-year-old dam. Owner: Woodcote Holsteins, Te Awamutu

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Woodcote Holsteins		
<b>Sire</b>	Moorbys FM Granite S2F	<b>MGS</b>	Mourne Grove Hothouse S2F
<b>Dam</b>	Woodcote Hoth Lara-ET S2F	<b>MGD</b>	Woodcote Illust Lara S1F
<b>BW/Rel</b>	140/68	<b>BW/Rel</b>	141/70
<b>PW/Rel</b>	141/68	<b>PW/Rel</b>	271/79

## Genomic Production gBVs

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
37 kg	45 kg	1110 l	41 kg
4.5 %	3.8 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.3 %	-0.26	0.02	219 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
733 days	2.9 %	-5.5 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.57				
Shed Temperament	.52				
Milking Speed	.33				
Overall Opinion	.64				
Stature	.70				
Capacity	.14				
Rump Angle	-.08				
Rump Width	.62				
Legs	-.10				
Udder Support	.26				
Front Udder	.33				
Rear Udder	.03				
Front Teat Placement	.03				
Rear Teat Placement	-.09				
Udder Overall	.25				
Dairy Conformation	.30				

New Zealand Genetics 37 %

## LIC Initiatives

Once-A-Day	1343	JDS	7.7
High Input	1446	A2 Protein	A1A2
RFI	\$1 / 10%	% Black	50 %

Data source: 11/02/2019

## 117021 Tafts TT Official-ET S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

\$196/55%  
gBW REL

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

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	G & L Taft		
<b>Sire</b>	Tregaron Technician S2F	<b>MGS</b>	Van Heuvels VA Remedy S1F
<b>Dam</b>	DRQ-14-3	<b>MGD</b>	DRQ-12-30
<b>BW/Rel</b>	193/68	<b>BW/Rel</b>	205/69
<b>PW/Rel</b>	259/72	<b>PW/Rel</b>	402/80

## Genomic Production gBVs

Production Efficiency			
<b>Milkfat</b>	<b>Protein</b>	<b>Milk Volume</b>	<b>Liveweight</b>
41 kg	32 kg	873 l	28 kg
4.8 %	3.8 %		
Robustness			
<b>Fertility</b>	<b>Somatic Cell Count</b>	<b>Body Condition Score</b>	<b>Residual Survival</b>
-1.2 %	-0.66	0.01	87 days
Other			
<b>Total Longevity</b>	<b>Calving Difficulty</b>	<b>Gestation Length</b>	
482 days	3.8 %	-3.7 days	

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.31				
Shed Temperament	.29				
Milking Speed	.21				
Overall Opinion	.45				
Stature	.48				
Capacity	-.13				
Rump Angle	-.13				
Rump Width	.49				
Legs	-.06				
Udder Support	.45				
Front Udder	.36				
Rear Udder	.39				
Front Teat Placement	.37				
Rear Teat Placement	.20				
Udder Overall	.56				
Dairy Conformation	.09				

New Zealand Genetics 49 %

## LIC Initiatives

Once-A-Day	1347	JDS	-0.1
High Input	1411	A2 Protein	A1A2
RFI	\$-1 / 10%	% Black	70 %

## 2019 Yearling Bulls

# Want the very latest genetics?

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

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 2019 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](http://lic.co.nz/alpha)

## TOP 5 Daughter Proven Rankings

## Breeding Worth

National herd breed average

\$ 32

Code	Name	BW/Rel
115080	Westedge VHR <b>Sweet As</b> S2F	210/83
111037	San Ray FM <b>Beamer</b> -ET S2F	189/99
114007	Busy Brook WTP <b>Vector</b> S3F	182/86
111036	Arkan FM <b>Buster</b> -ET S2F	181/99
112034	Carsons FM <b>Cairo</b> S3F	175/95

## Protein

National herd breed average

17 kg

Code	Name	BV
115112	Kingsdown AM <b>Jaxon</b> -ET S2F	45
115080	Westedge VHR <b>Sweet As</b> S2F	39
114057	Maire FI <b>Golddigger</b>	38
114007	Busy Brook WTP <b>Vector</b> S3F	36
111037	San Ray FM <b>Beamer</b> -ET S2F	36

## Milkfat

National herd breed average

12 kg

Code	Name	BV
114032	Woodcote FI <b>Mastermind</b>	54
114089	Mossops GB <b>Playmaker</b>	53
115080	Westedge VHR <b>Sweet As</b> S2F	49
115112	Kingsdown AM <b>Jaxon</b> -ET S2F	46
114057	Maire FI <b>Golddigger</b>	43

## Milk Volume

National herd breed average

524 litres

Code	Name	BV
115112	Kingsdown AM <b>Jaxon</b> -ET S2F	1389
114057	Maire FI <b>Golddigger</b>	1148
114007	Busy Brook WTP <b>Vector</b> S3F	961
115021	Gordons AM <b>Lancelot</b> S3F	817
114032	Woodcote FI <b>Mastermind</b>	811

## Fertility

National herd breed average

-0.1 %

Code	Name	BV
114007	Busy Brook WTP <b>Vector</b> S3F	7.9
112034	Carsons FM <b>Cairo</b> S3F	5.7
111036	Arkan FM <b>Buster</b> -ET S2F	4.9
111037	San Ray FM <b>Beamer</b> -ET S2F	4.0
112032	Jacles <b>Boy Jaks</b> S2F	3.9



## Total Longevity

National herd breed average

125 days

Code	Name	BV
114007	Busy Brook WTP <b>Vector</b> S3F	614
111067	Byreburn PF <b>Eternal</b> S2F	497
114123	Backhouse EO <b>Gravity</b> S2F	471
111037	San Ray FM <b>Beamer</b> -ET S2F	460
115023	Tanglewood MT <b>Kauri</b> S2F	440

## Somatic Cell Score

National herd breed average

0.02

Code	Name	BV
115054	Meander SB <b>Wingman</b> -ET S3F	-.56
114023	Arkan Ran <b>Bandito</b> S3F	-.50
112034	Carsons FM <b>Cairo</b> S3F	-.41
114123	Backhouse EO <b>Gravity</b> S2F	-.40
111067	Byreburn PF <b>Eternal</b> S2F	-.37

## Capacity

National herd breed average

.14

Code	Name	BV
114057	Maire FI <b>Golddigger</b>	1.01
112032	Jacles <b>Boy Jaks</b> S2F	.89
114007	Busy Brook WTP <b>Vector</b> S3F	.81
111037	San Ray FM <b>Beamer</b> -ET S2F	.76
114089	Mossops GB <b>Playmaker</b>	.70

## Udder Overall

National herd breed average

.15

Code	Name	BV
115054	Meander SB <b>Wingman</b> -ET S3F	1.24
114057	Maire FI <b>Golddigger</b>	1.21
115068	Hodges GFB <b>Cutlass</b> S3F	1.02
113120	Bothwell WT <b>Maxima</b> S2F	1.00
111037	San Ray FM <b>Beamer</b> -ET S2F	.65

## Calving Difficulty

National herd breed average

2.0 %

Code	Name	BV
114023	Arkan Ran <b>Bandito</b> S3F	-1.3
114123	Backhouse EO <b>Gravity</b> S2F	-0.9
111067	Byreburn PF <b>Eternal</b> S2F	-0.2
115046	Tralee GB <b>Resonate</b> -ET S3F	0.0
114007	Busy Brook WTP <b>Vector</b> S3F	0.4

# 114007 Busy Brook WTP **Vector** S3F

Premier  
Sire

#1 Fertility  
bull



Holstein-Friesian F16  
Registered Pedigree (Supplementary)

BW \$182/86%  
REL

Individually \$32.95<sup>+</sup><sub>gst</sub>

Classic Packs from \$20.43<sup>+</sup><sub>gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Busy Brook Holsteins	<b>Dam</b>	Busy Brook GB Vivien S2F
<b>Sire</b>	Wearnes FE Te Poi S3F	<b>MGS</b>	Maire PF Golden Boy S2F

## Production BVs

102 Daughters 47 Herds

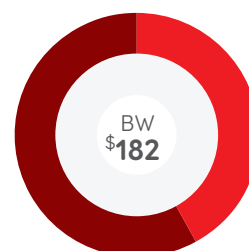
Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
40 kg	36 kg	961 l	104 kg
4.7 %	3.8 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
7.9 %	-0.37	0.47	-2 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
614 days	0.4 %	-2.8 days



● Production efficiency	\$76	42%
● Robustness	\$106	58%

## TOP traits

88 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.89				
Shed Temperament	.88				
Milking Speed	.47				
Overall Opinion	.98				
Conformation	BV	-0.5	0	0.5	1.0
Stature	1.20				
Capacity	.81				
Rump Angle	.20				
Rump Width	.73				
Legs	.23				
Udder Support	.33				
Front Udder	.38				
Rear Udder	.09				
Front Teat Placement	.06				
Rear Teat Placement	-.19				
Udder Overall	.37				
Dairy Conformation	.68				

New Zealand Genetics 35 %

Fertility 4 carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1244	JDS	2.6
High Input	1423	A2 Protein	A1A1
RFI	\$-1 / 10%	% Black	90 %

Daughter Proven



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



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

# 115080 Westedge VHR Sweet As S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

BW \$210/83% REL

Individually \$36.95<sup>+</sup><sub>gst</sub>

Classic Packs from \$20.43<sup>+</sup><sub>gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	P & J Langdon	<b>Dam</b>	Rosie 3
<b>Sire</b>	Van Heuven VA Remedy S1F	<b>MGS</b>	Fairmont Mint-Edition

## Production BVs

107 Daughters 36 Herds

### Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
49 kg	39 kg	797 l	44 kg
4.9 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.3 %	-0.05	-0.03	-59 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
390 days	5.1 %	-7.2 days



● Production efficiency	\$210	100%
● Robustness	\$0	0%

## TOP traits

107 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.41				
Shed Temperament	.36				
Milking Speed	.30				
Overall Opinion	.54				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.65				
Capacity	.13				
Rump Angle	-.56				
Rump Width	.67				
Legs	.05				
Udder Support	.37				
Front Udder	.21				
Rear Udder	.05				
Front Teat Placement	-.28				
Rear Teat Placement	.06				
Udder Overall	.10				
Dairy Conformation	.32				

New Zealand Genetics 46 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1304	JDS	8.8
High Input	1396	A2 Protein	A2A2
RFI	\$-3 / 10%	% Black	50 %

Premier Sire

Top 5 BW

Top 5 milkfat



Eight-year-old dam. Owner: P & J Langdon, Whakatane



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

Daughter Proven



# 115112 Kingsdown AM Jaxon-ET S2F

Top 5  
protein

Top 5  
milk volume

Genomic  
graduate



Two-year-old daughter. Owner: Stichbury Farms Limited, Waiuku



Two-year-old daughter. Owner: Stichbury Farms Limited, Waiuku

Holstein-Friesian F16  
Registered Pedigree (Supplementary)

BW \$121/86%  
REL

Individually \$30.95<sup>+</sup><sub>gst</sub>

Classic Packs from \$20.43<sup>+</sup><sub>gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	T & K O'Connor	<b>Dam</b>	Kingsdown D Jacqui S1F
<b>Sire</b>	Aljo TEF Maelstrom-ET S3F	<b>MGS</b>	MacFarlanes Dauntless

## Production BVs

153 Daughters 71 Herds

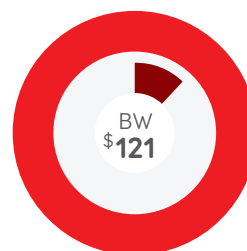
Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
46 kg	45 kg	1389 l	70 kg
4.4 %	3.7 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.0 %	0.03	-0.07	-101 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
275 days	2.3 %	-1.8 days



● Production efficiency	\$141	116%
● Robustness	-\$20	-16%

## TOP traits

94 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.10				
Shed Temperament	.03				
Milking Speed	.20				
Overall Opinion	.21				
Conformation	BV	-0.5	0	0.5	1.0
Stature	1.38				
Capacity	.42				
Rump Angle	-.15				
Rump Width	.77				
Legs	-.28				
Udder Support	.63				
Front Udder	.29				
Rear Udder	.51				
Front Teat Placement	.24				
Rear Teat Placement	.51				
Udder Overall	.57				
Dairy Conformation	.64				

New Zealand Genetics 32 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1271	JDS	22.6
High Input	1417	A2 Protein	A1A2
RFI	\$-4 / 10%	% Black	80 %

# 115068 Hodges GFB Cutlass S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

BW

\$151/77% REL

Individually

\$30.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	A & C Hodges	<b>Dam</b>	BLKN-11-38
<b>Sire</b>	Greenwell FI Blade S3F	<b>MGS</b>	Woodcote TF Maximiser

## Production BVs

70 Daughters 29 Herds

### Production Efficiency

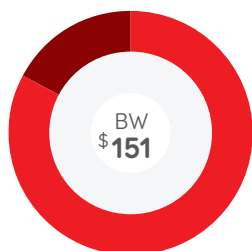
Milkfat	Protein	Milk Volume	Liveweight
30 kg	27 kg	453 l	45 kg
4.9 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.9 %	-0.27	0.15	-42 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
318 days	2.4 %	2.1 days



● Production efficiency	\$125	83%
● Robustness	\$26	17%

## TOP traits

67 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.18				
Shed Temperament	.17				
Milking Speed	-.22				
Overall Opinion	.21				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.57				
Capacity	.13				
Rump Angle	-.35				
Rump Width	.58				
Legs	-.11				
Udder Support	.89				
Front Udder	1.20				
Rear Udder	.48				
Front Teat Placement	.31				
Rear Teat Placement	.17				
Udder Overall	1.02				
Dairy Conformation	.31				

New Zealand Genetics 40 %

Fertility 3 carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1265	JDS	4.1
High Input	1404	A2 Protein	A1A2
RFI	\$-1 / 10%	% Black	70 %

Premier Sire

Phenomenal udders



Two-year-old daughter. Owner: Maunga Views Ltd, Rotorua



Two-year-old daughter. Owner: Maunga Views Ltd, Rotorua

Daughter Proven



**Premier  
Sire**

Holstein-Friesian F16

Registered Pedigree (Supplementary)

BW

**\$149/79%** REL

Individually

**\$28.95**  
+gst

Classic Packs from

**\$20.43\***  
+gst

\*Includes 10% InvestaMate discount

**Breeding Details**

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

**Production BVs**

85 Daughters 39 Herds

**Production Efficiency**

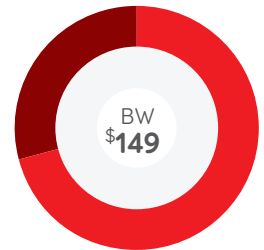
Milkfat	Protein	Milk Volume	Liveweight
29 kg	23 kg	402 l	46 kg
4.9 %	3.9 %		

**Robustness**

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.0 %	-0.16	0.14	112 days

**Other**

Total Longevity	Calving Difficulty	Gestation Length
440 days	3.2 %	-0.7 days



● Production efficiency	<b>\$106</b>	<b>71%</b>
● Robustness	<b>\$43</b>	<b>29%</b>

**TOP traits**

73 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.36				
Shed Temperament	.35				
Milking Speed	.18				
Overall Opinion	.45				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.74				
Capacity	.15				
Rump Angle	-.67				
Rump Width	.05				
Legs	-.07				
Udder Support	.40				
Front Udder	.34				
Rear Udder	.36				
Front Teat Placement	-.03				
Rear Teat Placement	.01				
Udder Overall	.44				
Dairy Conformation	.22				

New Zealand Genetics 37 %

Fertility 2 carrier

**AE** 11/02/2019**LIC Initiatives**

Once-A-Day	1199	JDS	-2.1
High Input	1299	A2 Protein	A1A2
RFI	\$0 / 10%	% Black	85 %



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



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

# 111037 San Ray FM Beamer-ET S2F

Holstein-Friesian F14J2

Registered Pedigree (Supplementary)

BW \$189/99% REL

Individually \$32.95<sup>95</sup><sub>+gst</sub>

Classic Packs from \$20.43<sup>43</sup><sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	R & S Hocking	<b>Dam</b>	SRB Keredene Skelton Bust
<b>Sire</b>	Fairmont Mint-Edition	<b>MGS</b>	SRC Hibi Secret Skelton

## Production BVs

28716 Daughters 3943 Herds

### Production Efficiency

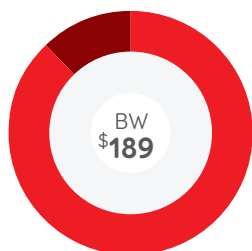
Milkfat	Protein	Milk Volume	Liveweight
38 kg	36 kg	762 l	41 kg
4.8 %	3.9 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.0 %	0.25	0.06	19 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
460 days	0.9 %	-4.7 days



● Production efficiency	\$167	88%
● Robustness	\$22	12%

## TOP traits

748 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.18				
Shed Temperament	.15				
Milking Speed	.43				
Overall Opinion	.43				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.72				
Capacity	.76				
Rump Angle	.53				
Rump Width	.97				
Legs	.15				
Udder Support	.52				
Front Udder	.42				
Rear Udder	.56				
Front Teat Placement	.35				
Rear Teat Placement	.46				
Udder Overall	.65				
Dairy Conformation	.83				

New Zealand Genetics 34 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1305	JDS	13.2
High Input	1463	A2 Protein	A1A2
RFI	\$2 / 10%	% Black	60 %

Premier Sire

Top 5 BW



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



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

Daughter Proven



Premier  
Sire

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



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

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

BW

\$147/85% REL

Individually \$28.95<sup>+</sup><sub>gst</sub>Classic Packs from \$20.43<sup>+</sup><sub>gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

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

## Production BVs

93 Daughters 40 Herds

## Production Efficiency

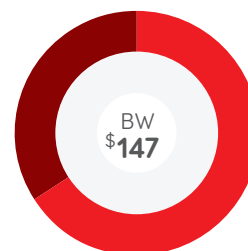
Milkfat	Protein	Milk Volume	Liveweight
25 kg	19 kg	450 l	24 kg
4.8 %	3.8 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.6 %	-0.40	0.12	177 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
471 days	-0.9 %	2.0 days



● Production efficiency	\$97	66%
● Robustness	\$50	34%

## TOP traits

91 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.10				
Shed Temperament	.07				
Milking Speed	-.06				
Overall Opinion	.15				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.46				
Capacity	.25				
Rump Angle	-.43				
Rump Width	.05				
Legs	-.13				
Udder Support	.73				
Front Udder	.22				
Rear Udder	.48				
Front Teat Placement	.20				
Rear Teat Placement	1.01				
Udder Overall	.50				
Dairy Conformation	.06				

New Zealand Genetics 51 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1220	JDS	-10.3
High Input	1332	A2 Protein	A2A2
RFI	\$9/10%	% Black	50 %

# 114032 Woodcote FI Mastermind

Holstein-Friesian F16  
Registered Pedigree

BW \$166/85% REL

Individually \$30.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Woodcote Holsteins	<b>Dam</b>	Woodcote Spicy Melly-ET
<b>Sire</b>	Farside M Illustrious S3F	<b>MGS</b>	Canaan Hails Spicy-ET

## Production BVs

93 Daughters 44 Herds

### Production Efficiency

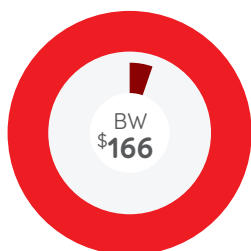
Milkfat	Protein	Milk Volume	Liveweight
54 kg	34 kg	811 l	65 kg
5.0 %	3.8 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-1.0 %	-0.09	-0.01	-56 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
313 days	5.9 %	-4.6 days



● Production efficiency	\$176	106%
● Robustness	-\$10	-6%

## TOP traits

87 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.37				
Shed Temperament	.34				
Milking Speed	.05				
Overall Opinion	.35				
Conformation	BV	-0.5	0	0.5	1.0
Stature	1.18				
Capacity	.15				
Rump Angle	.38				
Rump Width	.40				
Legs	-.26				
Udder Support	.65				
Front Udder	.23				
Rear Udder	.85				
Front Teat Placement	.02				
Rear Teat Placement	.46				
Udder Overall	.56				
Dairy Conformation	.37				

New Zealand Genetics 27 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1282	JDS	7.2
High Input	1394	A2 Protein	A1A2
RFI	\$3/10%	% Black	80 %

Premier  
Sire

#1 Milkfat  
bull



Eleven-year-old dam. Owner: Woodcote Holsteins, Te Awamutu



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

Daughter Proven



Premier  
SireGenomic  
graduateTop 5  
fertility

Three-year-old daughter. Owner: Malrose Properties Ltd, Morrinsville



Three-year-old daughter. Owner: Kovo Farms, Stratford

Holstein-Friesian F16  
Registered Pedigree (Supplementary)BW \$175/98%  
RELIndividually \$32.95<sub>+gst</sub>Classic Packs from \$20.43<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	G & S Carson	<b>Dam</b>	GTDM-06-7
<b>Sire</b>	Fairmont Mint-Edition	<b>MGS</b>	MacFarlanes Dauntless

## Production BVs

1753 Daughters 382 Herds

## Production Efficiency

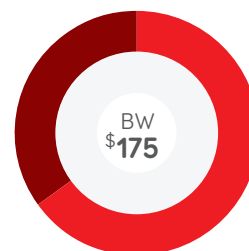
Milkfat	Protein	Milk Volume	Liveweight
35 kg	27 kg	712 l	47 kg
4.8 %	3.8 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.7 %	-0.41	0.21	-70 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
413 days	0.7 %	-4.6 days



● Production efficiency	\$114	65%
● Robustness	\$61	35%

## TOP traits

120 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.45				
Shed Temperament	.44				
Milking Speed	-.06				
Overall Opinion	.46				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.70				
Capacity	.54				
Rump Angle	-.37				
Rump Width	.63				
Legs	-.01				
Udder Support	.68				
Front Udder	.31				
Rear Udder	.60				
Front Teat Placement	-.15				
Rear Teat Placement	.76				
Udder Overall	.45				
Dairy Conformation	.77				

New Zealand Genetics 36 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1259	JDS	10.6
High Input	1413	A2 Protein	A2A2
RFI	\$1 / 10%	% Black	70 %

# 115021 Gordons AM Lancelot S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

BW \$144/89% REL

Individually \$30.95<sub>+gst</sub>

Classic Packs from \$20.43\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	S & S Gordon	<b>Dam</b>	BCCY-08-37
<b>Sire</b>	Aljo TEF Maelstrom-ET S3F	<b>MGS</b>	MacFarlanes Dauntless

## Production BVs

225 Daughters 82 Herds

### Production Efficiency

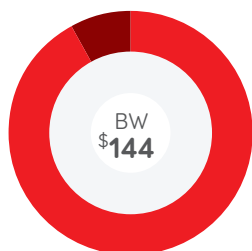
Milkfat	Protein	Milk Volume	Liveweight
29 kg	34 kg	817 l	33 kg
4.6 %	3.8 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.0 %	-0.01	0.12	-168 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
249 days	1.6 %	-2.4 days



● Production efficiency	\$133	92%
● Robustness	\$11	8%

## TOP traits

112 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.32				
Shed Temperament	.27				
Milking Speed	.14				
Overall Opinion	.15				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.59				
Capacity	.53				
Rump Angle	.30				
Rump Width	.45				
Legs	-.10				
Udder Support	.49				
Front Udder	.41				
Rear Udder	.21				
Front Teat Placement	.03				
Rear Teat Placement	.60				
Udder Overall	.27				
Dairy Conformation	.51				

New Zealand Genetics 35 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1255	JDS	9.9
High Input	1376	A2 Protein	A1A1
RFI	\$4 / 10%	% Black	80 %

Premier Sire

Genomic graduate



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



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

Daughter Proven

# 111067 Byreburn PF Eternal S2F

Premier  
Sire



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



Two-year-old daughter. Owner: Kiwa Holdings Ltd, Te Puke

Holstein-Friesian F16  
Registered Pedigree (Supplementary)

BW \$150/99% REL

Individually \$28.95\*  
+gst

Classic Packs from \$20.43\*  
+gst

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	B & J Guy	<b>Dam</b>	Byreburn MD Oprah-RR
<b>Sire</b>	Puketiro Frostman S1F	<b>MGS</b>	MacFarlanes Dauntless

## Production BVs

6220 Daughters 1770 Herds

### Production Efficiency

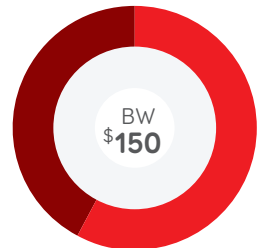
Milkfat	Protein	Milk Volume	Liveweight
27 kg	22 kg	670 l	34 kg
4.7 %	3.7 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.2 %	-0.37	0.38	107 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
497 days	-0.2 %	-0.4 days



● Production efficiency	\$87	58%
● Robustness	\$63	42%

## TOP traits

105 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.02				
Shed Temperament	-.02				
Milking Speed	.11				
Overall Opinion	.23				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.46				
Capacity	.37				
Rump Angle	-.18				
Rump Width	-.43				
Legs	.10				
Udder Support	.09				
Front Udder	-.21				
Rear Udder	-.11				
Front Teat Placement	.35				
Rear Teat Placement	.44				
Udder Overall	.04				
Dairy Conformation	.20				

New Zealand Genetics 43 %

SCS carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1168	JDS	1.8
High Input	1252	A2 Protein	A2A2
RFI	\$-5 / 10%	% Black	45 %

Daughter Proven



# 115054 Meander SB Wingman-ET S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

BW

\$151/81%

REL

Individually

\$32.95<sub>+gst</sub>

Classic Packs from \$20.43\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Meander Holsteins	<b>Dam</b>	Meander FMI April S2F
<b>Sire</b>	Spring Tralee Boss-ET S3F	<b>MGS</b>	Farside M Illustrious S3F

## Production BVs

89 Daughters 36 Herds

### Production Efficiency

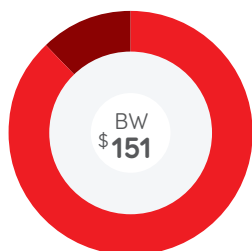
Milkfat	Protein	Milk Volume	Liveweight
28 kg	29 kg	754 l	19 kg
4.6 %	3.8 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.8 %	-0.56	-0.19	95 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
379 days	1.5 %	-4.3 days



● Production efficiency	\$133	88%
● Robustness	\$18	12%

## TOP traits

84 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.30				
Shed Temperament	.29				
Milking Speed	-.04				
Overall Opinion	.24				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.48				
Capacity	-.08				
Rump Angle	-.69				
Rump Width	.14				
Legs	-.14				
Udder Support	1.34				
Front Udder	.88				
Rear Udder	1.15				
Front Teat Placement	.78				
Rear Teat Placement	1.42				
Udder Overall	1.24				
Dairy Conformation	.09				

New Zealand Genetics 33 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1324	JDS	8.7
High Input	1465	A2 Protein	A1A2
RFI	\$2 / 10%	% Black	10 %

Premier Sire

Genomic graduate

Phenomenal udders



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



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

Daughter Proven

# 114041 Mitchells KE Hustler S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

BW \$138/85% REL

Individually \$28.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	C & E Mitchell	<b>Dam</b>	LHV-10-53
<b>Sire</b>	Kaimore Hero Earnie S2F	<b>MGS</b>	Hazael Draco Monarch S3F

## Production BVs

96 Daughters 46 Herds

### Production Efficiency

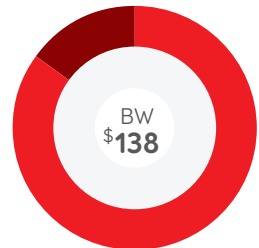
Milkfat	Protein	Milk Volume	Liveweight
33 kg	26 kg	634 l	43 kg
4.8 %	3.8 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.1 %	0.13	0.11	77 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
398 days	2.0 %	-3.5 days



● Production efficiency	\$117	85%
● Robustness	\$21	15%

## TOP traits

76 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.33				
Shed Temperament	.35				
Milking Speed	.25				
Overall Opinion	.48				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.77				
Capacity	.33				
Rump Angle	-.34				
Rump Width	.43				
Legs	.03				
Udder Support	.45				
Front Udder	.15				
Rear Udder	.35				
Front Teat Placement	-.12				
Rear Teat Placement	.24				
Udder Overall	.34				
Dairy Conformation	.31				

New Zealand Genetics 44 %

Fertility 2 carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1208	JDS	-1.1
High Input	1318	A2 Protein	A2A2
RFI	\$0 / 10%	% Black	90 %



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



Three-year-old daughter. Owner: D & B Phillips, Rotorua

Daughter Proven



# 114057 Maire FI Golddigger

Holstein-Friesian F16  
Registered Pedigree

BW \$110/87% REL

Individually \$34.95<sup>+</sup><sub>gst</sub>

Classic Packs from \$20.43<sup>+</sup><sub>gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	C & C Rowe	<b>Dam</b>	Maire Firenze Gina-ET
<b>Sire</b>	Farside M Illustrious S3F	<b>MGS</b>	Telesis Euon Firenze

## Production BVs

108 Daughters 43 Herds

### Production Efficiency

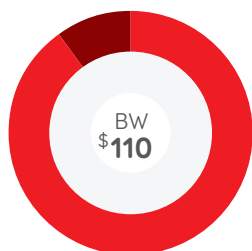
Milkfat	Protein	Milk Volume	Liveweight
43 kg	38 kg	1148 l	86 kg
4.5 %	3.7 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.0 %	-0.10	0.16	-74 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
311 days	4.5 %	-5.5 days



● Production efficiency	\$99	90%
● Robustness	\$11	10%

## TOP traits

97 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.57				
Shed Temperament	.52				
Milking Speed	.46				
Overall Opinion	.69				
Conformation	BV	-0.5	0	0.5	1.0
Stature	1.17				
Capacity	1.01				
Rump Angle	-.17				
Rump Width	.39				
Legs	.01				
Udder Support	1.19				
Front Udder	1.39				
Rear Udder	.71				
Front Teat Placement	.61				
Rear Teat Placement	1.00				
Udder Overall	1.21				
Dairy Conformation	1.10				

New Zealand Genetics 33 %

Fertility 3 carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1324	JDS	-4.3
High Input	1523	A2 Protein	A1A2
RFI	\$3 / 10%	% Black	50 %

Phenomenal  
udders



Three-year-old dam. Owner: Maire Farms No 2, Palmerston North



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

Daughter Proven

# 114089 Mossops GB Playmaker

Premier  
Sire

Top 5  
milkfat



Holstein-Friesian F16  
Registered Pedigree

BW \$154/85% REL

Individually \$30.95<sup>+</sup>gst

Classic Packs from \$20.43<sup>+</sup>gst

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	G & D Hopson	<b>Dam</b>	JKNH-10-84
<b>Sire</b>	Greenwell TF Blitz-ET S3F	<b>MGS</b>	Fairmont Mint-Edition

## Production BVs

108 Daughters 55 Herds

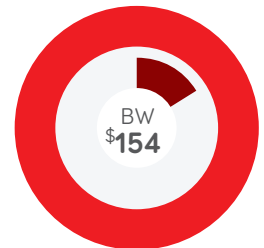
Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
53 kg	34 kg	646 l	65 kg
5.2 %	4.0 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.0 %	0.56	0.02	-170 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
194 days	1.6 %	-1.0 days



● Production efficiency	\$192	124%
● Robustness	-\$38	-24%

## TOP traits

85 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.05				
Shed Temperament	.03				
Milking Speed	.10				
Overall Opinion	.11				
Conformation	BV	-0.5	0	0.5	1.0
Stature	1.03				
Capacity	.70				
Rump Angle	-.68				
Rump Width	.30				
Legs	-.04				
Udder Support	.36				
Front Udder	.01				
Rear Udder	.69				
Front Teat Placement	.16				
Rear Teat Placement	.74				
Udder Overall	.43				
Dairy Conformation	.76				

New Zealand Genetics 32 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1271	JDS	-0.4
High Input	1390	A2 Protein	A2A2
RFI	\$-2 / 10%	% Black	80 %

Daughter Proven



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



Three-year-old daughter, Owner: Lightburn Ltd, Palmerston North

# 113120 Bothwell WT Maxima S2F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

BW \$149/99% REL

Individually \$32.95<sup>95</sup><sub>+gst</sub>

Classic Packs from \$20.43<sup>43</sup><sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Goodwright Family	<b>Dam</b>	KLW-08-26
<b>Sire</b>	Waiau Max Tommo S3F	<b>MGS</b>	SRD Whinlea KL Eclipse-ET

## Production BVs

5066 Daughters 1292 Herds

### Production Efficiency

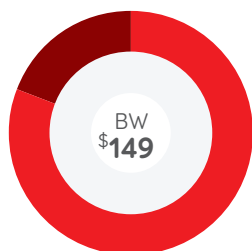
Milkfat	Protein	Milk Volume	Liveweight
29 kg	20 kg	514 l	17 kg
4.8 %	3.8 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.5 %	-0.22	0.02	24 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
342 days	0.8 %	-1.9 days



● Production efficiency	\$121	81%
● Robustness	\$28	19%

## TOP traits

103 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.33				
Shed Temperament	.30				
Milking Speed	.04				
Overall Opinion	.46				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.24				
Capacity	.46				
Rump Angle	-.05				
Rump Width	.36				
Legs	-.04				
Udder Support	.91				
Front Udder	.93				
Rear Udder	.58				
Front Teat Placement	.52				
Rear Teat Placement	.68				
Udder Overall	1.00				
Dairy Conformation	.66				

New Zealand Genetics 49 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1271	JDS	-1.4
High Input	1413	A2 Protein	A1A2
RFI	\$1 / 10%	% Black	85 %

Premier Sire

Genomic graduate



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



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

Daughter Proven



# 114023 Arkan Ran **Bandito** S3F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)

BW

\$141/86% REL

Individually

\$28.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	S & K Anderson	<b>Dam</b>	Arkan FME Bonnie-ET S2F
<b>Sire</b>	Lightburn IG Ranbo-ET S3F	<b>MGS</b>	Fairmont Mint-Edition

## Production BVs

105 Daughters 45 Herds

### Production Efficiency

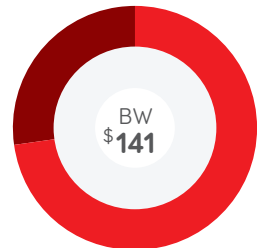
Milkfat	Protein	Milk Volume	Liveweight
25 kg	29 kg	487 l	51 kg
4.8 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-0.9 %	-0.50	0.24	9 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
361 days	-1.3 %	-3.0 days



● Production efficiency	\$103	73%
● Robustness	\$38	27%

## TOP traits

99 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.36				
Shed Temperament	.40				
Milking Speed	.11				
Overall Opinion	.44				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.62				
Capacity	.65				
Rump Angle	-.02				
Rump Width	-.37				
Legs	.15				
Udder Support	.49				
Front Udder	.47				
Rear Udder	.27				
Front Teat Placement	-.08				
Rear Teat Placement	.37				
Udder Overall	.40				
Dairy Conformation	.56				

New Zealand Genetics 36 %

Fertility 4 carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1240	JDS	9.2
High Input	1354	A2 Protein	A1A2
RFI	\$3 / 10%	% Black	20 %



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



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

Daughter Proven

# 115046 Tralee GB Resonate-ET S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)

BW \$152/82% REL

Individually \$28.95<sup>95</sup><sub>+gst</sub>

Classic Packs from \$20.43<sup>43</sup><sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

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

## Production BVs

91 Daughters 51 Herds

### Production Efficiency

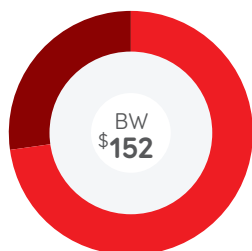
Milkfat	Protein	Milk Volume	Liveweight
28 kg	24 kg	515 l	35 kg
4.8 %	3.9 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.0 %	-0.11	0.23	28 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
401 days	0.0 %	-3.4 days



● Production efficiency	\$111	73%
● Robustness	\$41	27%

## TOP traits

82 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.09				
Shed Temperament	.06				
Milking Speed	.20				
Overall Opinion	.23				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.22				
Capacity	.49				
Rump Angle	-.25				
Rump Width	-.18				
Legs	.00				
Udder Support	.29				
Front Udder	.73				
Rear Udder	.11				
Front Teat Placement	.05				
Rear Teat Placement	-.12				
Udder Overall	.36				
Dairy Conformation	.29				

New Zealand Genetics 35 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1208	JDS	3.5
High Input	1317	A2 Protein	A1A2
RFI	\$-11 / 10%	% Black	75 %

Premier Sire



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



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

Daughter Proven

Premier  
Sire

Four-year-old daughters. Owner: Birchlands Holdings Ltd, Morrinsville

Daughter Proven

Holstein-Friesian F16

Registered Pedigree (Supplementary)

BW \$152/88% REL

Individually \$30.95<sup>+gst</sup>Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

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

## Production BVs

103 Daughters 44 Herds

## Production Efficiency

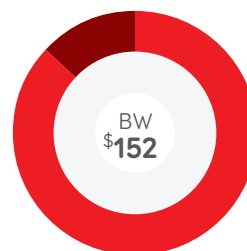
Milkfat	Protein	Milk Volume	Liveweight
28 kg	23 kg	577 l	12 kg
4.8 %	3.8 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.9 %	0.30	0.12	-36 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
329 days	0.5 %	-2.7 days



● Production efficiency	\$133	87%
● Robustness	\$19	13%

## TOP traits

96 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.05				
Shed Temperament	.05				
Milking Speed	.00				
Overall Opinion	.15				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.01				
Capacity	.89				
Rump Angle	-.09				
Rump Width	.26				
Legs	.18				
Udder Support	.15				
Front Udder	.08				
Rear Udder	.13				
Front Teat Placement	.21				
Rear Teat Placement	.47				
Udder Overall	.20				
Dairy Conformation	.60				

New Zealand Genetics 47 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1204	JDS	-8.5
High Input	1330	A2 Protein	A2A2
RFI	\$3 / 10%	% Black	40 %



# 111036 Arkan FM **Buster-ET S2F**

Holstein-Friesian F14J2

Registered Pedigree (Supplementary)

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

Individually **\$28.95**<sub>+gst</sub>

Classic Packs from **\$20.43\***<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	S & K Anderson	<b>Dam</b>	SRB Keredene Skelton Bust
<b>Sire</b>	Fairmont Mint-Edition	<b>MGS</b>	SRC Hibi Secret Skelton

## Production BVs

17026 Daughters 3000 Herds

### Production Efficiency

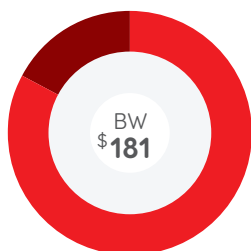
Milkfat	Protein	Milk Volume	Liveweight
36 kg	25 kg	444 l	36 kg
5.1 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.9 %	0.06	0.08	-35 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
375 days	1.4 %	-2.6 days



● Production efficiency	\$150	83%
● Robustness	\$31	17%

## TOP traits

262 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.20				
Shed Temperament	.21				
Milking Speed	.25				
Overall Opinion	.32				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.88				
Capacity	.45				
Rump Angle	.08				
Rump Width	.09				
Legs	-.01				
Udder Support	.53				
Front Udder	.20				
Rear Udder	.25				
Front Teat Placement	-.07				
Rear Teat Placement	.67				
Udder Overall	.23				
Dairy Conformation	.57				

New Zealand Genetics 34 %

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## LIC Initiatives

Once-A-Day	1263	JDS	23.1
High Input	1375	A2 Protein	A1A2
RFI	\$1 / 10%	% Black	60 %

Premier  
Sire

Top 5  
fertility



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



Two-year-old daughter. Owner: GFC & VM Taylor Family Trust, Stratford

Daughter Proven

## 113070 Greenwell FI **Blade** S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)



BW \$121/99 % REL

- A1A2
- Capacious daughters
- Fantastic udders

Fertility 3 carrier

Two-year-old daughter.  
Owner: GT & TL Fisher Ltd, Thames

### Breeding Details

<b>Breeder</b>	Greenwell Farms	<b>Dam</b>	CPR-07-35
<b>Sire</b>	Farside M Illustrious S3F	<b>MGS</b>	Lakeside S D Meadows

### Production BVs

2973 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
24 kg	30 kg	615 l	48 kg	0.8 %
4.7 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
0.04	0.23	322 days	4.3 %	-4.7 days

### TOP traits

168 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.30				
Capacity	.58				
Udder Overall	.78				
Dairy Conformation	.54				

## 110049 Savannahs HF **Hammer** S1F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)



BW \$136/99 % REL

- A2A2
- Great udders
- Excellent longevity

### Breeding Details

<b>Breeder</b>	J & J Lawn	<b>Dam</b>	BNQF-06-67
<b>Sire</b>	Higgins Format	<b>MGS</b>	Scotts Northsea

### Production BVs

23841 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
19 kg	21 kg	552 l	14 kg	2.7 %
4.6 %	3.8 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.38	0.07	419 days	2.1 %	-3.4 days

### TOP traits

247 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.35				
Capacity	.16				
Udder Overall	.60				
Dairy Conformation	.22				

## 111011 Ashdale FM **Kelsbells** S1F

Holstein-Friesian F15J1

Registered Pedigree (Supplementary)



BW \$158/99 % REL

- A1A2
- Great fertility
- Excellent longevity

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

### Breeding Details

<b>Breeder</b>	A & A Van Der Heyden	<b>Dam</b>	Ashdale Hugo Kate-ET S0F
<b>Sire</b>	Fairmont Mint-Edition	<b>MGS</b>	SRB Collins Royal Hugo

### Production BVs

18432 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
24 kg	34 kg	717 l	38 kg	4.2 %
4.6 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.16	0.07	430 days	1.4 %	-1.8 days

### TOP traits

288 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.37				
Capacity	.26				
Udder Overall	.27				
Dairy Conformation	.42				

## 113043 Adams BR **Ultimate** S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)



BW \$151/87 % REL

- A1A2
- Well liked by farmers
- Great conformation

Fertility 3 carrier

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

### Breeding Details

<b>Breeder</b>	P & J Adams	<b>Dam</b>	CNFG-09-67
<b>Sire</b>	Busy Brook Rapture-ET S3F	<b>MGS</b>	SRC Glenmead Rush-ET

### Production BVs

100 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
37 kg	22 kg	602 l	34 kg	2.5 %
4.9 %	3.8 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
0.30	0.13	399 days	3.7 %	-0.6 days

### TOP traits

93 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.66				
Capacity	.54				
Udder Overall	.36				
Dairy Conformation	.57				

Individually

\$21.35<sup>+gst</sup>

Economy Packs from

\$14.13<sup>+gst</sup>

\* Includes 10% InvestaMate discount

## 110052 Gydeland Excel **Inca** S3F

Holstein-Friesian F16

Registered Pedigree (Supplementary)



BW \$131/99 % REL

- A1A2
- Good fertility
- Excellent longevity

Six-year-old dam.  
Owner: G & K Peters, Stratford

### Breeding Details

<b>Breeder</b>	M & C Gyde	<b>Dam</b>	GYDELAND MAGIC IMAGIN S2F
<b>Sire</b>	Whinlea Naut Excel-ET S3F	<b>MGS</b>	Gydeland Magic Imagin S2F

### Production BVs 32802 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
23 kg	29 kg	621 l	55 kg	4.0 %
4.6 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
0.00	0.16	476 days	2.6 %	3.9 days

### TOP traits 430 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.06				
Capacity	.40				
Udder Overall	.33				
Dairy Conformation	.46				

## 113086 Maire IG **Gauntlet**-ET

Holstein-Friesian F16

Registered Pedigree



BW \$99/88 % REL

- A2A2
- Extreme type
- Phenomenal capacity

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

### Breeding Details

<b>Breeder</b>	C & C Rowe	<b>Dam</b>	Maire Spicy Gabriella-ET
<b>Sire</b>	Invernia TGF Ignition S3F	<b>MGS</b>	Canaan Hails Spicy-ET

### Production BVs 119 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
31 kg	43 kg	1410 l	82 kg	2.8 %
4.1 %	3.6 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.20	0.30	343 days	1.9 %	-0.3 days

### TOP traits 79 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.89				
Capacity	1.48				
Udder Overall	1.00				
Dairy Conformation	1.38				

## 110006 Bagworth PF **Grandeur** S1F

Holstein-Friesian F16

Registered Pedigree (Supplementary)



BW \$132/99 % REL

- A2A2
- Capacious daughters
- Extreme type

Red Factor carrier  
Two-year-old daughter.  
Owner: P & M Paterson, Morrinsville

### Breeding Details

<b>Breeder</b>	R & A Siddins	<b>Dam</b>	Bagworth Rileys Glamm S2F
<b>Sire</b>	Puketiro Frostman S1F	<b>MGS</b>	Reillys Might S1F

### Production BVs 7462 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
29 kg	23 kg	687 l	49 kg	3.4 %
4.7 %	3.7 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.16	0.15	475 days	-1.1 %	-4.2 days

### TOP traits 152 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.08				
Capacity	.56				
Udder Overall	.75				
Dairy Conformation	.60				

## 110080 Mourne Grove **Hothouse** S2F

Holstein-Friesian F16

Registered Pedigree (Supplementary)



BW \$107/99 % REL

- A2A2
- Phenomenal udders
- Fantastic longevity

Two-year-old daughter. Owner: Henley  
Farming Company Ltd, Oamaru

### Breeding Details

<b>Breeder</b>	J D McCandless Ltd	<b>Dam</b>	HCGP-05-9
<b>Sire</b>	SRC Glenmead Rocksolid-ET	<b>MGS</b>	Holim NZ Igale Leopard-ET

### Production BVs 7141 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
16 kg	34 kg	1005 l	48 kg	4.0 %
4.2 %	3.7 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.07	0.12	511 days	2.2 %	-5.3 days

### TOP traits 370 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.46				
Capacity	-.12				
Udder Overall	.85				
Dairy Conformation	.21				

Individually

\$21.<sup>35</sup> +gst

AE 11/02/2019

Economy Packs from

\$14.<sup>13</sup> +gst

\* Includes 10% InvestaMate discount

AE 11/02/2019

## Holstein-Friesian Also Available

AE 11/02/2019

		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	Dairy Conformation BV	Calving Difficulty BV	Gestation Length BV	A2 Protein	Price (+ GST)
114106	Hazael FI <b>Jubilee</b> S3F ^	214	87	41	35	585	26	2.4	0.32	464	0.28	-0.09	-0.12	0.07	1.7	-7.3	A1A2	\$26.95
112035	Carsons Mecca <b>Pulse</b> S1F	197	98	8	26	635	-32	4.0	-0.35	601	0.17	0.09	-0.07	-0.01	-3.5	0.3	A1A2	\$26.95
113009	Hazael SH <b>Distinct</b> -ET S1F	186	89	24	27	574	16	4.6	-0.34	519	0.06	-0.13	0.12	-0.05	0.6	-2.6	A1A2	\$26.95
114049	Scotts FI <b>Dusky</b> S3F ^	162	87	35	25	322	46	0.3	-0.01	393	0.54	0.31	0.48	0.20	4.7	-5.8	A1A2	\$18.95
115125	Busy Brook SB <b>Muse</b> -ET S3F ^	162	82	27	42	1231	5	0.9	0.11	458	0.09	-0.44	0.47	-0.25	0.8	-1.4	A2A2	\$16.95
108180	Busy Brook <b>Rastus</b> -ET S3F ^	157	99	23	16	106	22	3.6	0.00	449	0.35	0.05	-0.04	-0.06	2.1	-5.4	A1A2	\$16.95
113046	Meander <b>Rocketman</b> -ET S1F	150	88	30	24	482	32	2.2	-0.19	356	0.28	0.30	0.51	0.24	1.3	-0.6	A1A2	\$16.95
115017	Langevelts SRB <b>Valour</b> S2F ^	147	82	33	31	781	71	5.1	0.01	515	0.14	0.60	0.41	0.53	0.9	-1.9	A1A1	\$16.95
110042	Morris TF <b>Lamont</b> S1F ^	134	99	24	37	785	23	0.1	0.22	169	0.57	0.58	-0.11	0.57	-0.8	-4.0	A1A2	\$16.95
112054	Bagworth SH <b>Keepsake</b> S2F	129	97	26	35	1226	19	2.9	-0.33	355	0.24	-0.13	0.28	0.07	0.9	-0.7	A1A2	\$14.95
115004	Arkan EO <b>Bigshot</b> -ET S3F	124	89	7	24	476	14	4.9	0.24	410	-0.01	0.01	0.75	0.08	0.5	1.4	A2A2	\$14.95
115043	Hyjinks AM <b>Deejay</b> S1F #	119	81	32	34	858	58	1.7	0.01	320	0.57	0.19	0.61	0.27	3.3	-4.3	A1A2	\$14.95
113042	Charltons FI <b>Finalcut</b> S2F ^	118	99	32	12	137	80	5.6	-0.12	404	0.35	0.25	0.60	0.36	1.7	-4.1	A1A2	\$14.95
114081	Tirohanga WTP <b>Flash</b> S3F	116	86	30	33	749	42	3.8	0.65	324	0.59	0.27	0.24	0.46	0.7	-0.6	A1A1	\$14.95
113117	Greenwell SH <b>Bomber</b> S1F	115	98	13	22	484	25	4.3	-0.30	406	0.23	0.04	1.01	0.12	1.9	0.5	A1A2	\$14.95
114004	Telesis GB <b>Stirling</b> S3F #	111	97	24	31	643	18	-1.2	0.06	141	0.34	0.24	0.13	0.45	1.3	0.2	A1A1	\$14.95
110063	Maire PF <b>Golden Boy</b> S2F ↑	109	99	22	20	707	22	0.3	-0.45	304	0.50	0.68	0.49	0.50	1.2	-3.6	A1A2	\$12.95
112063	Padrutts GB <b>Topnotch</b> S2F	107	89	17	32	998	32	2.7	-0.19	401	0.55	0.54	0.36	0.60	0.6	0.6	A1A2	\$12.95
107212	Zinks LM <b>Porter</b> S2F	105	99	31	20	597	70	1.6	-0.55	283	0.27	0.78	-0.06	0.59	1.3	-2.0	A1A2	\$12.95
113067	Whakahora FI <b>Wildman</b> S3F	105	98	23	30	700	53	0.9	-0.04	407	0.14	0.14	0.26	0.38	2.9	-5.6	A1A1	\$12.95
111065	Wills FM <b>Prominent</b> S3F	102	97	17	19	177	41	6.0	0.14	277	0.09	0.51	0.55	0.60	1.9	-7.8	A1A2	\$12.95
115089	Greenwell GB <b>Foil</b> -ET S3F	92	80	27	32	564	45	-1.2	0.23	137	0.42	0.43	0.29	0.57	3.3	-2.6	A1A2	\$12.95
111057	Oakline DI <b>Legacy</b> S2F	90	98	15	34	1246	47	2.7	-0.05	538	0.44	0.55	0.22	0.48	-0.1	-1.7	A1A2	\$12.95
113058	Costers <b>Politician</b> S3F #	90	88	25	35	1093	40	-0.7	-0.11	329	0.25	-0.16	0.18	0.03	1.6	-5.2	A1A2	\$12.95
110056	Tralee PF <b>Alpha</b> -ET S1F ^	89	99	17	24	702	12	-1.2	0.22	291	0.47	0.05	0.26	0.10	2.1	-6.4	A1A2	\$12.95
111049	Clenzie FM <b>Charger</b> S2F	89	98	20	27	690	40	2.7	0.26	299	0.19	0.37	0.14	0.39	5.3	-4.4	A1A1	\$12.95
103042	SRC Lombardi <b>Idol</b>	89	99	24	20	439	30	-2.7	-0.25	178	0.08	0.48	0.14	0.19	-1.1	-1.7	A1A2	\$12.95
107110	Costers <b>Poll Axe</b>	77	99	10	15	391	15	2.1	-0.22	306	-0.01	-0.16	-0.06	-0.09	-0.4	-3.5	A1A2	\$10.95
107075	Goochs LM <b>Heroic</b> S2F	76	99	18	26	623	48	1.4	-0.02	259	0.19	0.37	0.43	0.44	5.7	0.1	A1A1	\$10.95
106083	Hazael MN <b>Sweetdream</b> S2F	76	99	16	20	453	30	1.5	0.45	343	-0.01	-0.11	0.26	0.09	-0.6	-1.7	A1A2	\$10.95
111079	Busy Brook <b>Robust</b> -ET S3F	75	99	19	28	853	37	0.0	-0.25	256	-0.09	0.29	0.33	0.35	1.0	-2.0	A1A2	\$10.95
112064	Wells FM <b>Impact</b> S3F	73	99	30	23	616	30	-3.4	0.32	194	0.25	0.21	0.33	0.25	1.9	-5.9	A1A2	\$10.95
113013	Spring Tralee <b>Boom</b> -ET S3F #	71	99	0	34	605	29	1.0	0.16	325	0.08	0.40	0.58	0.44	0.7	-2.8	A2A2	\$10.95
106149	Westland CI <b>Jasper</b> -ET S1F	69	99	9	18	481	38	2.9	0.25	414	0.45	0.26	0.08	0.13	1.4	-1.5	A1A2	\$10.95
113014	Spring Tralee <b>Boss</b> -ET S3F #	67	99	1	22	600	14	2.9	-0.28	362	0.18	0.41	1.34	0.52	0.5	-1.2	A2A2	\$10.95
112044	Brokdell BR <b>Wiremu</b> S1F	64	96	16	25	532	14	-4.3	0.23	160	-0.07	0.32	1.03	0.31	0.6	-8.2	A1A2	\$10.95
110064	Maire PF <b>Goldie</b> S1F	64	99	15	24	760	30	-1.5	-0.73	152	0.34	0.49	-0.11	0.37	0.6	-0.5	A1A2	\$10.95
106170	Speldhurst <b>Statesman</b> S2F	63	99	16	19	583	17	-0.5	-0.03	212	0.23	0.55	0.29	0.40	0.1	2.3	A1A2	\$10.95
108187	Whinlea GN <b>Express</b> -ET S3F #	63	99	11	20	508	18	1.0	0.21	278	0.02	0.10	0.44	0.11	-0.6	-1.4	A1A2	\$10.95
112080	Maire Mint <b>Fire-Up</b>	63	92	40	46	1188	120	-2.1	0.27	350	0.53	0.70	1.00	1.04	1.3	-5.1	A2A2	\$10.95
107039	Tor View WE <b>Motif</b> -ET S2F	62	98	2	17	539	9	0.0	-0.42	364	0.18	0.27	0.09	0.28	-0.2	0.1	A1A2	\$10.95
108237	Greenwell TF <b>Blitz</b> -Et S3F	60	99	19	33	778	35	-4.4	-0.12	118	0.42	0.52	0.10	0.62	0.6	-4.5	A1A2	\$10.95
112028	Arkan HR <b>Celestial</b> S2F ^	59	86	28	40	1587	70	-2.8	-0.11	429	0.29	0.77	0.27	0.49	0.8	-5.3	A2A2	\$8.95
111082	Hazael FM <b>Majestic</b> -ET	53	99	22	36	1438	32	0.5	0.21	278	0.50	-0.28	0.52	0.20	4.4	-1.4	A1A2	\$8.95
101140	MacFarlanes <b>Dauntless</b>	53	99	22	22	816	25	-2.4	0.00	238	0.30	-0.11	0.06	0.04	-0.3	1.5	A2A2	\$8.95
109052	Woodcote TF <b>Maximiser</b>	51	99	24	35	956	37	-3.8	0.13	100	0.68	0.27	0.44	0.50	3.1	2.0	A1A2	\$8.95
112024	Rangeview B <b>Worthy</b> -ET S3F	43	86	14	22	694	33	-0.6	-0.46	99	0.48	0.30	0.81	0.42	2.8	-7.2	A2A2	\$8.95
112030	Waidugkans HR <b>Clay</b> S3F	41	99	8	23	557	30	-1.6	-0.28	172	0.36	0.45	0.27	0.36	0.0	-4.5	A1A2	\$8.95
111055	Deltop FM <b>Harlequin</b> S2F #	40	99	13	31	924	39	1.0	0.52	258	0.14	-0.03	0.26	0.23	3.5	-0.5	A1A2	\$8.95
111078	Busy Brook <b>Rapture</b> -ET S3F ↑	40	99	12	19	538	36	-2.1	-0.16	266	0.32	0.62	0.58	0.68	2.9	4.4	A1A2	\$8.95
102052	Lakeside SD <b>Meadows</b>	40	99	18	28	862	73	0.0	-0.47	129	0.17	0.92	0.13	0.89	3.3	2.0	A1A2	\$8.95

# Red Factor carrier    ↑ SCS carrier    ^ Recessive Fertility Gene carrier



Q.

What offers you more options, more control, more performance?

A.

Alpha<sup>®</sup> Sires



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**Jersey**

## Jersey

## TOP 5 Genomically Selected Rankings

## Breeding Worth

National herd breed average

\$109

Code	Name	gBW/Rel
318021	Glanton Desi <b>Banff</b>	318/56
318035	Shelby BC <b>Lotto</b> ET S3J	292/56
318027	Bells Oarsome <b>Cojack</b>	291/49
317023	Shepherds LT <b>Flint</b> ET S3J	286/60
318009	Tironui <b>Superman</b> ET	280/60

## Protein

National herd breed average

-8 kg

Code	Name	gBV
318018	Foxton Dane <b>Cobra</b> S3J ET	15
318035	Shelby BC <b>Lotto</b> ET S3J	14
317023	Shepherds LT <b>Flint</b> ET S3J	13
318009	Tironui <b>Superman</b> ET	10
316031	Greenmile FGP <b>Hadlow</b> ET	7

## Milkfat

National herd breed average

2 kg

Code	Name	gBV
318009	Tironui <b>Superman</b> ET	39
318018	Foxton Dane <b>Cobra</b> S3J ET	31
318012	Lynbrook King <b>Quadrant</b>	31
318027	Bells Oarsome <b>Cojack</b>	31
318035	Shelby BC <b>Lotto</b> ET S3J	30

## Udder Overall

National herd breed average

.16

Code	Name	gBV
318012	Lynbrook King <b>Quadrant</b>	.84
318015	Glenui Super <b>Lamar</b>	.73
318018	Foxton Dane <b>Cobra</b> S3J ET	.72
317023	Shepherds LT <b>Flint</b> ET S3J	.64
316031	Greenmile FGP <b>Hadlow</b> ET	.63

## Liveweight

National herd breed average

-50 kg

Code	Name	gBV
318018	Foxton Dane <b>Cobra</b> S3J ET	-26
318009	Tironui <b>Superman</b> ET	-28
318021	Glanton Desi <b>Banff</b>	-31
318035	Shelby BC <b>Lotto</b> ET S3J	-36
317023	Shepherds LT <b>Flint</b> ET S3J	-37



318021 Glanton Desi **Banff**

Jersey J16

Registered Pedigree

gBW \$318/56% REL



Three-year-old dam. Owner: R &amp; A Thwaites, Hawera

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	R & A Thwaites		
<b>Sire</b>	Arrieta Terrific Desi ET	<b>MGS</b>	Tawa Grove KRC Tana
<b>Dam</b>	Glanton Tana Blysse ET	<b>MGD</b>	Glanton Mans Blanche
<b>BW/Rel</b>	247/72	<b>BW/Rel</b>	216/82
<b>PW/Rel</b>	528/78	<b>PW/Rel</b>	435/85

## Genomic Production gBV's

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
30 kg	3 kg	-790 l	-31 kg
6.4 %	4.6 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.5 %	-0.52	0.19	220 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
652 days	-2.4 %	-4.9 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.42				
Shed Temperament	.41				
Milking Speed	.20				
Overall Opinion	.46				
Stature	-.66				
Capacity	.43				
Rump Angle	-.19				
Rump Width	.20				
Legs	.03				
Udder Support	.25				
Front Udder	.57				
Rear Udder	.28				
Front Teat Placement	.08				
Rear Teat Placement	-.53				
Udder Overall	.46				
Dairy Conformation	.48				

New Zealand Genetics 74%

## LIC Initiatives

Once-A-Day	1363	JDS	-10.5
High Input	1481	A2 Protein	A2A2

318012 Lynbrook King **Quadrant**

Jersey J16

Registered Pedigree

gBW \$258/58% REL

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	K Ireland		
<b>Sire</b>	Roma Murmur Kingpin S3J	<b>MGS</b>	Puhipuhi Caps Goldie S3J
<b>Dam</b>	Lynbrook 15-39	<b>MGD</b>	Lynbrook 07-9
<b>BW/Rel</b>	221/70	<b>BW/Rel</b>	224/77
<b>PW/Rel</b>	317/68	<b>PW/Rel</b>	409/87

## Genomic Production gBV's

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
31 kg	5 kg	-341 l	-43 kg
5.8 %	4.2 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.6 %	-0.35	0.03	133 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
465 days	-1.5 %	-0.1 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.45				
Shed Temperament	.49				
Milking Speed	.27				
Overall Opinion	.47				
Stature	-.79				
Capacity	.69				
Rump Angle	-.21				
Rump Width	-.14				
Legs	.10				
Udder Support	.56				
Front Udder	.73				
Rear Udder	.84				
Front Teat Placement	.13				
Rear Teat Placement	-.08				
Udder Overall	.84				
Dairy Conformation	.75				

New Zealand Genetics 70%

## LIC Initiatives

Once-A-Day	1388	JDS	3.2
High Input	1515	A2 Protein	A2A2

317023 Shepherds LT **Flint** ET S3J

Jersey J16

Registered Pedigree (Supplementary)

gBW \$286/60% REL

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	R Shepherd		
<b>Sire</b>	Lynbrook Terrific ET S3J	<b>MGS</b>	Okura Lika Murnur S3J
<b>Dam</b>	Shepherds Francesca S2J	<b>MGD</b>	Shepherds 10-83 S1J
<b>BW/Rel</b>	212/74	<b>BW/Rel</b>	202/58
<b>PW/Rel</b>	569/82	<b>PW/Rel</b>	410/81

## Genomic Production gBVs

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
29 kg	13 kg	-418 l	-37 kg
5.8 %	4.3 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.6 %	-0.02	0.19	121 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
533 days	-0.8 %	1.7 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.47				
Shed Temperament	.46				
Milking Speed	.36				
Overall Opinion	.53				
Stature	-.73				
Capacity	.63				
Rump Angle	-.07				
Rump Width	-.01				
Legs	.09				
Udder Support	.56				
Front Udder	.40				
Rear Udder	.73				
Front Teat Placement	.03				
Rear Teat Placement	.07				
Udder Overall	.64				
Dairy Conformation	.72				

New Zealand Genetics 72%

## LIC Initiatives

Once-A-Day	1409	JDS	-1.9
High Input	1546	A2 Protein	A2A2

318035 Shelby BC **Lotto** ET S3J

Jersey J16

Registered Pedigree (Supplementary)

gBW \$292/56% REL



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

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	T Hughes		
<b>Sire</b>	Bells CM Conrad S2J	<b>MGS</b>	Arrieta NN Degree ET
<b>Dam</b>	Shelby 13-3	<b>MGD</b>	Alciston Mans Lauren
<b>BW/Rel</b>	259/73	<b>BW/Rel</b>	233/85
<b>PW/Rel</b>	377/79	<b>PW/Rel</b>	541/77

## Genomic Production gBVs

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
30 kg	14 kg	-313 l	-36 kg
5.8 %	4.3 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
6.9 %	-0.15	0.13	-76 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
427 days	-2.1 %	-4.1 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	-.01				
Shed Temperament	.02				
Milking Speed	.24				
Overall Opinion	.08				
Stature	-.61				
Capacity	.13				
Rump Angle	-.37				
Rump Width	.25				
Legs	.18				
Udder Support	.05				
Front Udder	.31				
Rear Udder	.17				
Front Teat Placement	.16				
Rear Teat Placement	-.10				
Udder Overall	.23				
Dairy Conformation	.13				

New Zealand Genetics 75%

## LIC Initiatives

Once-A-Day	1347	JDS	-12.9
High Input	1451	A2 Protein	A2A2

318009 Tironui **Superman** ET

Jersey J16

Registered Pedigree

gBW \$280/60% REL



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

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	M & J Gibb		
<b>Sire</b>	Puketawa AD Superstition	<b>MGS</b>	Okura LT Integrity
<b>Dam</b>	Tironui Integ Meg	<b>MGD</b>	Tironui Nevvys Megan
<b>BW/Rel</b>	254/73	<b>BW/Rel</b>	216/63
<b>PW/Rel</b>	443/75	<b>PW/Rel</b>	405/82

## Genomic Production gBV's

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
39 kg	10 kg	-482 l	-28 kg
6.2 %	4.4 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.2 %	0.02	0.07	-5 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
388 days	-1.8 %	-1.4 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.25				
Shed Temperament	.25				
Milking Speed	.22				
Overall Opinion	.25				
Stature	-.38				
Capacity	.31				
Rump Angle	-.46				
Rump Width	.40				
Legs	.09				
Udder Support	.44				
Front Udder	.41				
Rear Udder	.77				
Front Teat Placement	.08				
Rear Teat Placement	.15				
Udder Overall	.60				
Dairy Conformation	.41				

New Zealand Genetics 73%

## LIC Initiatives

Once-A-Day	1402	JDS	-18.5
High Input	1521	A2 Protein	A2A2

318018 Foxton Dane **Cobra** S3J ET

Jersey J16

Registered Pedigree (Supplementary)

gBW \$276/54% REL



Two-year-old dam. Owner: Huzziff Farms Ltd, Foxton

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Huzziff Family		
<b>Sire</b>	Flaxmill LT Dane S3J	<b>MGS</b>	Lynbrook Terrific ET S3J
<b>Dam</b>	Foxton Clare S3J	<b>MGD</b>	BYFK-13-2
<b>BW/Rel</b>	197/70	<b>BW/Rel</b>	212/72
<b>PW/Rel</b>	237/64	<b>PW/Rel</b>	261/82

## Genomic Production gBV's

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
31 kg	15 kg	28 l	-26 kg
5.4 %	4.1 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.8 %	-0.31	0.14	273 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
697 days	-1.8 %	-1.3 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.47				
Shed Temperament	.46				
Milking Speed	.35				
Overall Opinion	.55				
Stature	-.42				
Capacity	.40				
Rump Angle	-.09				
Rump Width	-.04				
Legs	.02				
Udder Support	.59				
Front Udder	.61				
Rear Udder	.75				
Front Teat Placement	-.06				
Rear Teat Placement	-.23				
Udder Overall	.72				
Dairy Conformation	.58				

New Zealand Genetics 67%

## LIC Initiatives

Once-A-Day	1379	JDS	-20.6
High Input	1509	A2 Protein	A2A2



## 318027 Bells Oarsome Cojack

Jersey J16

Registered Pedigree

gBW \$291/49% REL

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	G & G Bell		
<b>Sire</b>	Devon Degree Oarsome	<b>MGS</b>	Lynbrook Terrific ET S3J
<b>Dam</b>	Milldale Theresa S3J	<b>MGD</b>	Bells Cynthia S2J
<b>BW/Rel</b>	236/70	<b>BW/Rel</b>	197/75
<b>PW/Rel</b>	281/55	<b>PW/Rel</b>	366/76

## Genomic Production gBVs

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
31 kg	6 kg	-289 l	-47 kg
5.8 %	4.2 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
6.8 %	0.34	0.14	261 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
688 days	-2.2 %	-4.8 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.14				
Shed Temperament	.14				
Milking Speed	.29				
Overall Opinion	.18				
Stature	-.84				
Capacity	.06				
Rump Angle	-.02				
Rump Width	.03				
Legs	.10				
Udder Support	.11				
Front Udder	.11				
Rear Udder	.30				
Front Teat Placement	.15				
Rear Teat Placement	.09				
Udder Overall	.25				
Dairy Conformation	.13				

New Zealand Genetics 76%

## LIC Initiatives

Once-A-Day	1299	JDS	12.2
High Input	1397	A2 Protein	A2A2

## 316031 Greenmile FGP Hadlow ET

Jersey J16

Registered Pedigree

gBW \$222/60% REL

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	B & B Jensen		
<b>Sire</b>	Freydan Goldie Presely ET	<b>MGS</b>	Tahau Northern Exposure
<b>Dam</b>	Greenmile Helga ET S3J	<b>MGD</b>	Greenmile GSSF Hilda S2J
<b>BW/Rel</b>	173/84	<b>BW/Rel</b>	142/75
<b>PW/Rel</b>	369/83	<b>PW/Rel</b>	318/83

## Genomic Production gBVs

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
15 kg	7 kg	-67 l	-38 kg
5.3 %	4.0 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.1 %	-0.83	0.10	139 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
507 days	-1.3 %	0.0 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.08				
Shed Temperament	.06				
Milking Speed	.13				
Overall Opinion	.12				
Stature	-.56				
Capacity	.05				
Rump Angle	-.20				
Rump Width	-.16				
Legs	.07				
Udder Support	.31				
Front Udder	.80				
Rear Udder	.30				
Front Teat Placement	.35				
Rear Teat Placement	-.10				
Udder Overall	.63				
Dairy Conformation	.18				

New Zealand Genetics 69%

## LIC Initiatives

Once-A-Day	1266	JDS	13.6
High Input	1355	A2 Protein	A2A2



## 318015 Glenui Super Lamar

Jersey J16

Registered Pedigree

gBW \$247/59% REL



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

Individually

\$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	A & L Landers		
<b>Sire</b>	Puketawa AD Superstition	<b>MGS</b>	Puhipuhi Caps Goldie S3J
<b>Dam</b>	Glenui Goldie Lacey ET	<b>MGD</b>	Glenui Integrity Lace ET
<b>BW/Rel</b>	257/71	<b>BW/Rel</b>	280/75
<b>PW/Rel</b>	418/72	<b>PW/Rel</b>	441/84

## Genomic Production gBVs

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
27 kg	0 kg	-441 l	-41 kg
5.9 %	4.3 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.4 %	-0.65	0.14	108 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
443 days	-2.7 %	-3.6 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.48				
Shed Temperament	.44				
Milking Speed	.35				
Overall Opinion	.42				
Stature	-.76				
Capacity	.33				
Rump Angle	-.39				
Rump Width	.21				
Legs	.04				
Udder Support	.53				
Front Udder	.53				
Rear Udder	.80				
Front Teat Placement	.15				
Rear Teat Placement	.04				
Udder Overall	.73				
Dairy Conformation	.48				

New Zealand Genetics 77 %

## LIC Initiatives

Once-A-Day	1349	JDS	-3.0
High Input	1446	A2 Protein	A2A2

## 2019 Yearling Bulls

# Want the very latest genetics?

Individually

\$31.55<sub>+gst</sub>

Genomic Packs from

\$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

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 2019 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](http://lic.co.nz/alpha)

## TOP 5 Daughter Proven Rankings

## Breeding Worth

National herd breed average

\$109

Code	Name	BW/Rel
314052	Crescent Excell <b>Misty</b> ET	290/86
315008	Pukeroa AND <b>Baratone</b> ET	260/81
315045	Glenui Degree <b>Hoss</b> ET	255/83
314012	Kaitaka OI <b>Leopard</b> ET	252/91
314022	Linan Integrity <b>Winston</b>	251/91

## Protein

National herd breed average

-8 kg

Code	Name	BV
314004	Bells OI <b>Floyd</b> S3J	11
314022	Linan Integrity <b>Winston</b>	11
315009	Riverview AND <b>Dexter</b> S2J	10
314039	Foxton Manz <b>Clayton</b>	7
315049	Kaimatarau Terrific <b>Punch</b>	6

## Milkfat

National herd breed average

2 kg

Code	Name	BV
314004	Bells OI <b>Floyd</b> S3J	29
315045	Glenui Degree <b>Hoss</b> ET	28
314052	Crescent Excell <b>Misty</b> ET	27
314022	Linan Integrity <b>Winston</b>	27
311013	Okura LT <b>Integrity</b>	27

## Milk Volume

National herd breed average

-569 litres

Code	Name	BV
314004	Bells OI <b>Floyd</b> S3J	-63
314022	Linan Integrity <b>Winston</b>	-120
315009	Riverview AND <b>Dexter</b> S2J	-237
315049	Kaimatarau Terrific <b>Punch</b>	-397
314039	Foxton Manz <b>Clayton</b>	-432

## Fertility

National herd breed average

0.8 %

Code	Name	BV
314052	Crescent Excell <b>Misty</b> ET	5.2
315009	Riverview AND <b>Dexter</b> S2J	4.0
314005	Okura Elicit <b>Invoke</b> ET	3.7
315049	Kaimatarau Terrific <b>Punch</b>	2.7
314039	Foxton Manz <b>Clayton</b>	1.8

## Total Longevity

National herd breed average

82 days

Code	Name	BV
314004	Bells OI <b>Floyd</b> S3J	541
314052	Crescent Excell <b>Misty</b> ET	450
315009	Riverview AND <b>Dexter</b> S2J	433
314012	Kaitaka OI <b>Leopard</b> ET	393
314022	Linan Integrity <b>Winston</b>	371

## Somatic Cell Score

National herd breed average

-0.08

Code	Name	BV
314052	Crescent Excell <b>Misty</b> ET	-.50
314039	Foxton Manz <b>Clayton</b>	-.48
314012	Kaitaka OI <b>Leopard</b> ET	-.39
314004	Bells OI <b>Floyd</b> S3J	-.33
315045	Glenui Degree <b>Hoss</b> ET	-.32

## Capacity

National herd breed average

.11

Code	Name	BV
314052	Crescent Excell <b>Misty</b> ET	.91
311013	Okura LT <b>Integrity</b>	.83
314004	Bells OI <b>Floyd</b> S3J	.76
315049	Kaimatarau Terrific <b>Punch</b>	.72
315009	Riverview AND <b>Dexter</b> S2J	.58

## Udder Overall

National herd breed average

.16

Code	Name	BV
315049	Kaimatarau Terrific <b>Punch</b>	1.05
314012	Kaitaka OI <b>Leopard</b> ET	.84
314022	Linan Integrity <b>Winston</b>	.75
314005	Okura Elicit <b>Invoke</b> ET	.73
315045	Glenui Degree <b>Hoss</b> ET	.66

## Liveweight

National herd breed average

-50 kg

Code	Name	BV
314004	Bells OI <b>Floyd</b> S3J	-6
314052	Crescent Excell <b>Misty</b> ET	-19
315009	Riverview AND <b>Dexter</b> S2J	-26
315045	Glenui Degree <b>Hoss</b> ET	-45
314039	Foxton Manz <b>Clayton</b>	-45

# 314022 Linan Integrity Winston

Premier  
Sire

Top 5  
protein



Jersey J16

Registered Pedigree

BW \$251/91%  
REL

Individually \$32.95<sup>+gst</sup>

Classic Packs<sup>from</sup> \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	C & L Megaw	<b>Dam</b>	Linan Quality
<b>Sire</b>	Okura LT Integrity	<b>MGS</b>	Tawa Grove Maunga ET SJ3

## Production BVs

187 Daughters 63 Herds

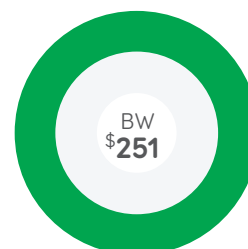
Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
27 kg	11 kg	-120 l	-75 kg
5.5 %	4.1 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.2 %	0.23	-0.03	47 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
371 days	-2.0 %	-2.0 days



● Production efficiency	\$250	100%
● Robustness	\$1	0%

## TOP traits

89 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.16				
Shed Temperament	.21				
Milking Speed	.19				
Overall Opinion	.36				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-1.21				
Capacity	-.12				
Rump Angle	-.11				
Rump Width	-.40				
Legs	.06				
Udder Support	.63				
Front Udder	.46				
Rear Udder	.95				
Front Teat Placement	.02				
Rear Teat Placement	.49				
Udder Overall	.75				
Dairy Conformation	.17				

New Zealand Genetics 74 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1313	JDS	-26.5
High Input	1380	A2 Protein	A2A2

Daughter Proven



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



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



# 314052 Crescent Excell Misty ET

Jersey J16

Registered Pedigree

BW \$290/86% REL

Individually

\$38.95<sub>+gst</sub>

Classic Packs from

\$20.43<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	M & D Townshend	<b>Dam</b>	Crescent RG Madam
<b>Sire</b>	Marsden NN Excell ET	<b>MGS</b>	Riverina Greenman

## Production BVs

98 Daughters 51 Herds

### Production Efficiency

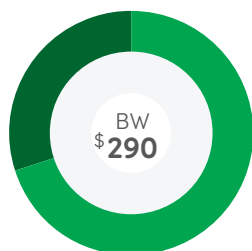
Milkfat	Protein	Milk Volume	Liveweight
27 kg	0 kg	-879 l	-19 kg
6.6 %	4.7 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.2 %	-0.50	0.45	-45 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
450 days	-2.4 %	-1.7 days



● Production efficiency	\$202	70%
● Robustness	\$88	30%

## TOP traits

89 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	-.02				
Shed Temperament	-.04				
Milking Speed	.02				
Overall Opinion	.01				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.63				
Capacity	.91				
Rump Angle	.19				
Rump Width	-.08				
Legs	.06				
Udder Support	.42				
Front Udder	.76				
Rear Udder	.38				
Front Teat Placement	-.01				
Rear Teat Placement	-.32				
Udder Overall	.55				
Dairy Conformation	.54				

New Zealand Genetics 89 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1327	JDS	-11.7
High Input	1420	A2 Protein	A2A2

Premier  
Sire

#1 BW  
bull



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



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

Daughter Proven

# 314004 Bells OI Floyd S3J

Premier  
Sire

Genomic  
graduate

#1 Liveweight



Jersey J15F1

Registered Pedigree (Supplementary)

BW \$230/95 % REL

Individually \$32.95<sup>+gst</sup>

Classic Packs<sup>from</sup> \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	G & G Bell	<b>Dam</b>	Bells Fiona S2J
<b>Sire</b>	Okura LT Integrity	<b>MGS</b>	Shalendy Ideal Ascent S3J

## Production BVs

596 Daughters 231 Herds

### Production Efficiency

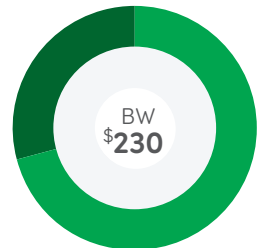
Milkfat	Protein	Milk Volume	Liveweight
29 kg	11 kg	-63 l	-6 kg
5.4 %	4.1 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.4 %	-0.33	0.32	138 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
541 days	-2.1 %	-2.3 days



● Production efficiency	\$163	71%
● Robustness	\$67	29%

## TOP traits

132 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.13				
Shed Temperament	.27				
Milking Speed	-.01				
Overall Opinion	.42				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.22				
Capacity	.76				
Rump Angle	.14				
Rump Width	.32				
Legs	-.03				
Udder Support	.45				
Front Udder	.34				
Rear Udder	.73				
Front Teat Placement	-.11				
Rear Teat Placement	.01				
Udder Overall	.59				
Dairy Conformation	.60				

New Zealand Genetics 68 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1270	JDS	-10.8
High Input	1393	A2 Protein	A2A2

Daughter Proven



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



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

# 315009 Riverview AND Dexter S2J

Jersey J16

Registered Pedigree (Supplementary)

BW \$232/82 % REL

Individually

\$34.95<sub>+gst</sub>

Classic Packs from

\$20.43<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	R G Lowe	<b>Dam</b>	HFYM-12-24
<b>Sire</b>	Arrieta NN Degree ET	<b>MGS</b>	Okura Lika Murmur S3J

## Production BVs

98 Daughters 45 Herds

### Production Efficiency

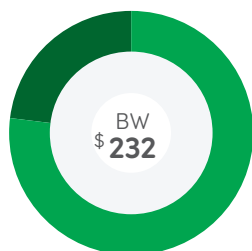
Milkfat	Protein	Milk Volume	Liveweight
22 kg	10 kg	-237 l	-26 kg
5.5 %	4.2 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.0 %	-0.11	0.24	33 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
433 days	-2.3 %	-1.4 days



● Production efficiency	\$178	77%
● Robustness	\$54	23%

## TOP traits

93 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.21				
Shed Temperament	.16				
Milking Speed	.33				
Overall Opinion	.34				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.52				
Capacity	.58				
Rump Angle	-.11				
Rump Width	.33				
Legs	.01				
Udder Support	.42				
Front Udder	.58				
Rear Udder	.39				
Front Teat Placement	.70				
Rear Teat Placement	.72				
Udder Overall	.66				
Dairy Conformation	.58				

New Zealand Genetics 76 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1295	JDS	-6.1
High Input	1383	A2 Protein	A2A2

Premier Sire

Top 5 protein



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



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

Daughter Proven



## 313023 Crescent Excell Monopoly

Premier  
Sire



Jersey J16

Registered Pedigree

BW \$233/86 % REL

Individually \$28.95<sup>+gst</sup>

Classic Packs<sup>from</sup> \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	M & D Townshend	<b>Dam</b>	Crescent Banjo Melva
<b>Sire</b>	Marsden NN Excell ET	<b>MGS</b>	Crescent SB Banjo

### Production BVs

90 Daughters 43 Herds

#### Production Efficiency

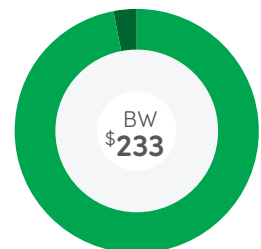
Milkfat	Protein	Milk Volume	Liveweight
26 kg	1 kg	-749 l	-49 kg
6.4 %	4.5 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-1.7 %	-0.06	0.06	70 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
303 days	-3.4 %	-1.7 days



● Production efficiency	\$227	97%
● Robustness	\$6	3%

### TOP traits

76 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.34				
Shed Temperament	.39				
Milking Speed	.42				
Overall Opinion	.40				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.83				
Capacity	.36				
Rump Angle	-.07				
Rump Width	-.05				
Legs	.18				
Udder Support	.30				
Front Udder	.54				
Rear Udder	.21				
Front Teat Placement	.09				
Rear Teat Placement	-.04				
Udder Overall	.40				
Dairy Conformation	.25				

New Zealand Genetics 80 %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1288	JDS	-23.6
High Input	1297	A2 Protein	A2A2

Daughter Proven



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



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



# 314012 Kaitaka OI Leopard ET

Jersey J16

Registered Pedigree

BW \$252/90% REL

Individually

\$30.95<sub>+gst</sub>

Classic Packs from \$20.43<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	D Hickey	<b>Dam</b>	Kaitaka TGM Leonie
<b>Sire</b>	Okura LT Integrity	<b>MGS</b>	Tawa Grove Maunga ET SJ3

## Production BVs

198 Daughters 78 Herds

### Production Efficiency

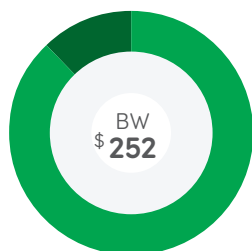
Milkfat	Protein	Milk Volume	Liveweight
23 kg	0 kg	-676 l	-58 kg
6.2 %	4.5 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.6 %	-0.39	-0.08	134 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
393 days	-2.0 %	-4.4 days



● Production efficiency	\$221	88%
● Robustness	\$31	12%

## TOP traits

93 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.43				
Shed Temperament	.48				
Milking Speed	.12				
Overall Opinion	.39				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.85				
Capacity	-.06				
Rump Angle	-.51				
Rump Width	.05				
Legs	-.20				
Udder Support	.66				
Front Udder	.63				
Rear Udder	.75				
Front Teat Placement	.46				
Rear Teat Placement	.66				
Udder Overall	.84				
Dairy Conformation	.23				

New Zealand Genetics 69 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1313	JDS	-15.5
High Input	1353	A2 Protein	A2A2

Premier Sire

Genomic graduate

Top 5 BW



Three-year-old dam. Owner: Des Hickey, Ohinewai



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

Daughter Proven

Premier  
Sire

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



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

Jersey J16  
Registered Pedigree

BW \$204/85 % REL

Individually \$28.95<sup>+</sup><sub>gst</sub>Classic Packs<sup>from</sup> \$20.43<sup>+</sup><sub>gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	L & L Beehre	<b>Dam</b>	Okura Maunga I-Cupid
<b>Sire</b>	Marsden NN Elicit ET	<b>MGS</b>	Tawa Grove Maunga ET SJ3

**Production BVs**

94 Daughters 46 Herds

**Production Efficiency**

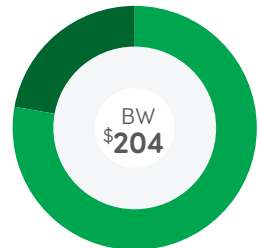
Milkfat	Protein	Milk Volume	Liveweight
14 kg	-1 kg	-594 l	-47 kg
5.8 %	4.3 %		

**Robustness**

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.7 %	-0.06	0.16	43 days

**Other**

Total Longevity	Calving Difficulty	Gestation Length
328 days	-1.7 %	2.2 days



● Production efficiency	\$160	78%
● Robustness	\$44	22%

**TOP traits**

89 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.28				
Shed Temperament	.29				
Milking Speed	.25				
Overall Opinion	.26				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.77				
Capacity	.13				
Rump Angle	.08				
Rump Width	-.23				
Legs	.17				
Udder Support	.47				
Front Udder	.62				
Rear Udder	.73				
Front Teat Placement	.38				
Rear Teat Placement	.09				
Udder Overall	.73				
Dairy Conformation	.17				

New Zealand Genetics 83 %

AE 11/02/2019

**LIC Initiatives**

Once-A-Day	1241	JDS	-26.2
High Input	1293	A2 Protein	A2A2



## 315049 Kaimatarau Terrific Punch

Jersey J16

Registered Pedigree

BW \$209/81% REL

Individually

\$32.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	Pedley Family	<b>Dam</b>	Kaimatarau Aim Pinot
<b>Sire</b>	Lynbrook Terrific ET S3J	<b>MGS</b>	Haywards TGM Aim S3J

### Production BVs

91 Daughters 36 Herds

#### Production Efficiency

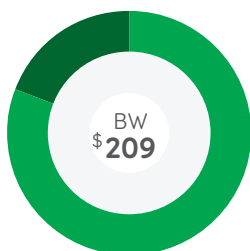
Milkfat	Protein	Milk Volume	Liveweight
13 kg	6 kg	-397 l	-47 kg
5.5 %	4.3 %		

#### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.7 %	0.08	0.22	47 days

#### Other

Total Longevity	Calving Difficulty	Gestation Length
368 days	-2.9 %	-0.5 days



● Production efficiency	\$169	81%
● Robustness	\$40	19%

### TOP traits

81 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.42				
Shed Temperament	.44				
Milking Speed	.23				
Overall Opinion	.39				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.96				
Capacity	.72				
Rump Angle	-.11				
Rump Width	-.43				
Legs	-.02				
Udder Support	.90				
Front Udder	1.01				
Rear Udder	1.13				
Front Teat Placement	-.08				
Rear Teat Placement	-.22				
Udder Overall	1.05				
Dairy Conformation	.64				

New Zealand Genetics 73 %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1306	JDS	-7.5
High Input	1435	A2 Protein	A2A2

Phenomenal udders



Eight-year-old dam. Owner: Carnarvon Farms Limited, Palmerston North



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

Daughter Proven

Premier  
SireGenomic  
graduate

Jersey J16

Registered Pedigree

BW \$212/93 % REL

Individually \$30.95<sup>+</sup><sub>gst</sub>Classic Packs<sub>from</sub> \$20.43<sup>+</sup><sub>gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Huzziff Family	<b>Dam</b>	Foxtan Clarissa
<b>Sire</b>	Pukeroa TGM Manzello	<b>MGS</b>	Kirks RI Charisma ET GR

## Production BVs

416 Daughters 203 Herds

## Production Efficiency

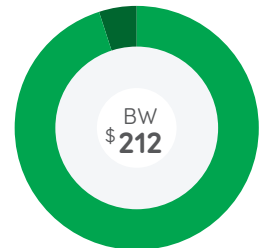
Milkfat	Protein	Milk Volume	Liveweight
20 kg	7 kg	-432 l	-45 kg
5.7 %	4.4 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.8 %	-0.48	-0.01	-144 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
157 days	-3.0 %	-5.9 days



● Production efficiency	\$201	95%
● Robustness	\$11	5%

## TOP traits

90 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.14				
Shed Temperament	.14				
Milking Speed	.06				
Overall Opinion	.04				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.73				
Capacity	.18				
Rump Angle	.07				
Rump Width	.03				
Legs	.03				
Udder Support	.20				
Front Udder	.60				
Rear Udder	.49				
Front Teat Placement	-.16				
Rear Teat Placement	-.29				
Udder Overall	.45				
Dairy Conformation	.35				

New Zealand Genetics 81 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1262	JDS	-20.0
High Input	1288	A2 Protein	A2A2

Daughter Proven



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



Two-year-old daughter. Owner: Millington Jerseys Limited, Morrinsville



# 315045 Glenui Degree Hoss ET

Jersey J16

Registered Pedigree

BW \$255/83 % REL

Individually

\$32.95<sub>+gst</sub>

Classic Packs from \$20.43<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	A & L Landers	<b>Dam</b>	Glenui Bowies Honeydew
<b>Sire</b>	Arrieta NN Degree ET	<b>MGS</b>	Konui Glen Elmos Bowie

## Production BVs

106 Daughters 45 Herds

### Production Efficiency

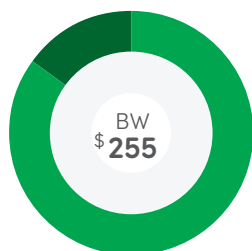
Milkfat	Protein	Milk Volume	Liveweight
28 kg	3 kg	-533 l	-45 kg
6.1 %	4.4 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.1 %	-0.32	0.22	-22 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
349 days	-2.3 %	1.7 days



● Production efficiency	\$217	85%
● Robustness	\$38	15%

## TOP traits

97 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	-.05				
Shed Temperament	.00				
Milking Speed	.23				
Overall Opinion	.19				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.75				
Capacity	.32				
Rump Angle	.04				
Rump Width	-.02				
Legs	.14				
Udder Support	.53				
Front Udder	.51				
Rear Udder	.74				
Front Teat Placement	.20				
Rear Teat Placement	.01				
Udder Overall	.66				
Dairy Conformation	.35				

New Zealand Genetics 78 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1316	JDS	-9.8
High Input	1368	A2 Protein	A2A2

Premier Sire

Top 5 BW



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



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

Daughter Proven

## 311013 Okura LT Integrity

Premier  
Sire

Genomic  
graduate



Jersey J16

Registered Pedigree

BW \$245/99% REL

Individually \$30.95<sup>+gst</sup>

Classic Packs<sup>from</sup> \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	L & L Beehre	<b>Dam</b>	Okura Lika I-Charmaine ET
<b>Sire</b>	Lynbrook Terrific ET SJJ	<b>MGS</b>	Mitchells Likabull SJJ

### Production BVs

13016 Daughters 2436 Herds

#### Production Efficiency

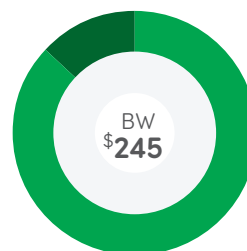
Milkfat	Protein	Milk Volume	Liveweight
27 kg	2 kg	-474 l	-52 kg
5.9 %	4.3 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.6 %	-0.11	0.25	5 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
355 days	-2.1 %	-0.5 days



● Production efficiency	\$213	87%
● Robustness	\$32	13%

### TOP traits

714 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.13				
Shed Temperament	.27				
Milking Speed	-.33				
Overall Opinion	.31				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-1.09				
Capacity	.83				
Rump Angle	-.02				
Rump Width	-.13				
Legs	.09				
Udder Support	.40				
Front Udder	.21				
Rear Udder	.85				
Front Teat Placement	-.13				
Rear Teat Placement	.27				
Udder Overall	.54				
Dairy Conformation	.70				

New Zealand Genetics 59 %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1279	JDS	-12.7
High Input	1373	A2 Protein	A1A2

Daughter Proven



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



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

# 315008 Pukeroa AND Baratone ET

Jersey J16

Registered Pedigree

BW \$260/81% REL

Individually

\$34.95<sup>+gst</sup>

Classic Packs from

\$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	A & V Lockwood-Geck	<b>Dam</b>	Pukeroa Mans Bracelet
<b>Sire</b>	Arrieta NN Degree ET	<b>MGS</b>	Okura Manhattan ET SJ3

## Production BVs

92 Daughters 45 Herds

### Production Efficiency

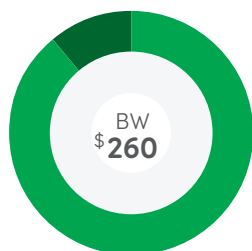
Milkfat	Protein	Milk Volume	Liveweight
18 kg	5 kg	-563 l	-73 kg
5.9 %	4.4 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.8 %	-0.20	0.14	-28 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
329 days	-1.2 %	-5.0 days



● Production efficiency	\$231	89%
● Robustness	\$29	11%

## TOP traits

80 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.24				
Shed Temperament	.27				
Milking Speed	.33				
Overall Opinion	.34				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-1.36				
Capacity	.34				
Rump Angle	.12				
Rump Width	-.22				
Legs	.07				
Udder Support	.32				
Front Udder	.77				
Rear Udder	.66				
Front Teat Placement	-.12				
Rear Teat Placement	-.77				
Udder Overall	.62				
Dairy Conformation	.26				

New Zealand Genetics 70 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1307	JDS	-0.1
High Input	1356	A2 Protein	A2A2

Premier Sire

Genomic graduate

Top 5 BW



Seven-year-old dam. Owner: Bracelet Syndicate, Waikato



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

Daughter Proven



## 309012 Kelland KC **Speedway**

Jersey J16

Registered Pedigree



BW \$152/99% REL

- A2A2
- Phenomenal udders
- Well liked by farmers

Seven-year-old dam.  
Owner: K Tosland, Otakeho

### Breeding Details

<b>Breeder</b>	K Tosland	<b>Dam</b>	Kelland Mans Nicole ET
<b>Sire</b>	Kirks RI Charisma ET GR	<b>MGS</b>	Okura Manhatten ET SJ3

### Production BVs

31891 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
8 kg	-1 kg	-452 l	-41 kg	2.5 %
5.5 %	4.2 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.19	0.07	252 days	-2.6	-5.5 days

### TOP traits

1975 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.38				
Capacity	.24				
Udder Overall	1.03				
Dairy Conformation	.25				

## 314020 Arrieta Degree **Jangle** ET

Jersey J16

Registered Pedigree



BW \$200/85% REL

- A2A2
- Capacious daughters
- High fertility

### Breeding Details

<b>Breeder</b>	J & T Bailey	<b>Dam</b>	Hillstar Bowies Jingle
<b>Sire</b>	Arrieta NN Degree ET	<b>MGS</b>	Konui Glen Elmos Bowie

### Production BVs

86 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
9 kg	-6 kg	-722 l	-49 kg	6.5 %
5.9 %	4.3 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
0.2	0.24	367 days	-3.1	-4.3 days

### TOP traits

81 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.14				
Capacity	.51				
Udder Overall	.30				
Dairy Conformation	.50				

## 311029 Willand LT **Dynamo**

Jersey J16

Registered Pedigree



BW \$195/99% REL

- A2A2
- Fantastic udders
- Great temperament

Two-year-old daughter. Owner:  
Upland Park Jerseys, Matamata

### Breeding Details

<b>Breeder</b>	G & R Fleming	<b>Dam</b>	Willand Dynamo Duet
<b>Sire</b>	Lynbrook Terrific ET SJ3	<b>MGS</b>	Te Henui Lemvig Dynamo ET

### Production BVs

3567 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
6 kg	-2 kg	-661 l	-59 kg	1.7 %
5.7 %	4.4 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.1	0.09	403 days	-2.0	0.6 days

### TOP traits

163 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.34				
Capacity	.27				
Udder Overall	.92				
Dairy Conformation	.30				

## 312034 Okura Goldie **Index**

Jersey J16

Registered Pedigree



BW \$225/96% REL

- A2A2
- High production
- Solid cow family

Two-year-old daughter.  
Owner: P & J Jochems, Hikurangi

### Breeding Details

<b>Breeder</b>	L & L Beehre	<b>Dam</b>	Okura Lika I-Charmaine ET
<b>Sire</b>	Puhipuhi Caps Goldie SJ3	<b>MGS</b>	Mitchells Likabull SJ3

### Production BVs

762 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
32 kg	10 kg	-18 l	-63 kg	-1.5 %
5.5 %	4.0 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.22	0.02	169 days	-2.1	-1.7 days

### TOP traits

129 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.30				
Capacity	.10				
Udder Overall	-.03				
Dairy Conformation	.16				

Individually

\$21.35<sup>+gst</sup>

80

AE 11/02/2019

Economy Packs from

\$14.13<sup>+gst</sup>

\*Includes 10% InvestaMate discount

AE 11/02/2019



## 312057 Bells CM Conrad S2J

Jersey J15F1

Registered Pedigree (Supplementary)



BW \$187/88 % REL

- A2A2
- Larger Jersey
- Shorter gestation

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

### Breeding Details

<b>Breeder</b>	G & G Bell	<b>Dam</b>	Bells Cynthia S2J
<b>Sire</b>	Crescent AMC Marvel	<b>MGS</b>	Williams Minstrel

### Production BVs

97 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
20 kg	7 kg	-201 l	-19 kg	2.9 %
5.4 %	4.1 %			
Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.02	0.21	395 days	-1.8	-7.3 days

### TOP traits

87 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	-.08				
Capacity	.38				
Udder Overall	.39				
Dairy Conformation	.29				

## 315029 Thornwood Degree Trigger

Jersey J16

Registered Pedigree



BW \$195/90 % REL

- A2A2
- Phenomenal udders
- Capacious daughters

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

### Breeding Details

<b>Breeder</b>	S Good & M Adam	<b>Dam</b>	Hillstar Manzello Trudy
<b>Sire</b>	Arrieta NN Degree ET	<b>MGS</b>	Pukeroa TGM Manzello

### Production BVs

230 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
19 kg	1 kg	-500 l	-40 kg	0.5 %
5.8 %	4.3 %			
Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.41	0.12	228 days	-1.7	-4.8 days

### TOP traits

144 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	-.12				
Capacity	.60				
Udder Overall	1.25				
Dairy Conformation	.62				

## 312059 Lynbrook GG Quicksilver

Jersey J16

Registered Pedigree



BW \$223/97 % REL

- A2A2
- Excellent udders
- Great capacity

Two-year-old daughter.  
Owner: P & H Horo, Rahotu

### Breeding Details

<b>Breeder</b>	K Ireland	<b>Dam</b>	Lynbrook 07-9
<b>Sire</b>	Glenhaven TGM Genius S3J	<b>MGS</b>	Noakes Nevvy S3J

### Production BVs

893 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
18 kg	-7 kg	-1027 l	-34 kg	3.6 %
6.6 %	4.7 %			
Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.07	0.17	361 days	-1.9	-2.3 days

### TOP traits

94 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.27				
Capacity	.44				
Udder Overall	.65				
Dairy Conformation	.32				

## 313046 Okura OLM Kaino ET

Jersey J16

Registered Pedigree



BW \$230/98 % REL

- A2A2
- Phenomenal udders
- Well liked by farmers

Two-year-old daughter. Owner:  
Greenacres (Kereone) Ltd, Morrinsville

### Breeding Details

<b>Breeder</b>	L & L Beehre	<b>Dam</b>	Okura NN Karen ET
<b>Sire</b>	Okura Lika Murmur S3J	<b>MGS</b>	Noakes Nevvy S3J

### Production BVs

1940 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
13 kg	-1 kg	-350 l	-72 kg	4.2 %
5.5 %	4.1 %			
Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.4	0.19	370 days	-1.6	-2.4 days

### TOP traits

98 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.43				
Capacity	.59				
Udder Overall	1.04				
Dairy Conformation	.50				

Individually

\$21.35<sup>+gst</sup>

AE 11/02/2019

Economy Packs from

\$14.13<sup>+gst</sup>

\*Includes 10% InvestaMate discount

AE 11/02/2019

## Jersey Also Available

 11/02/2019

	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	Dairy Conformation BV	Calving Difficulty BV	Gestation Length BV	A2 Protein	Price (+ GST)
	229	95	22	10	-273	-77	-2.9	-0.20	239	0.42	0.32	0.73	0.47	-2.9	2.7	A1A2	\$21.35
	229	98	36	18	102	-20	0.4	-0.21	248	0.64	0.37	-0.24	0.46	-3.0	1.4	A2A2	\$14.95
	222	85	5	-5	-755	-77	2.9	-0.47	382	0.07	0.17	0.16	-0.15	-2.0	-4.9	A2A2	\$14.95
	221	71	25	8	-279	-63	0.0	0.11	250	0.29	0.08	0.30	-0.03	-0.5	-1.4	A2A2	\$14.95
	214	96	2	-3	-641	-79	3.2	-0.42	347	0.40	0.38	0.21	0.14	-2.3	0.3	A2A2	\$14.95
	214	85	12	2	-611	-70	-0.8	-0.32	288	0.26	0.00	0.58	0.01	-2.4	-7.2	A2A2	\$14.95
	209	87	9	-1	-449	-71	1.9	-0.65	285	0.23	0.61	0.02	0.39	-3.4	-2.7	A2A2	\$14.95
	208	99	13	-7	-570	-74	3.0	-0.54	333	0.02	0.04	0.37	0.07	-1.5	0.2	A2A2	\$14.95
	205	87	7	6	-372	-72	-2.5	-0.49	356	0.58	0.17	0.22	0.21	-2.4	-2.8	A2A2	\$14.95
	201	99	20	0	-686	-33	3.0	0.05	352	0.31	-0.02	0.33	0.08	-1.8	-2.9	A2A2	\$14.95
	200	89	12	1	-362	-64	0.5	-0.81	291	0.24	0.07	0.28	0.20	-3.7	-6.3	A1A2	\$14.95
	195	94	16	2	-405	-38	1.5	-0.13	334	0.36	0.44	-0.05	0.44	-1.2	-4.8	A1A2	\$12.95
	194	96	3	-13	-749	-49	9.0	-0.26	504	0.18	0.08	0.24	0.05	-2.8	-3.7	A2A2	\$12.95
	187	99	31	9	-587	-25	-4.0	0.24	6	0.39	0.66	0.43	0.76	-1.1	-3.6	A2A2	\$12.95
	184	87	-12	1	-680	-64	5.1	0.03	474	0.08	0.17	0.29	0.00	-2.7	0.6	A2A2	\$12.95
	182	86	25	17	132	-38	-1.4	-0.14	203	0.44	-0.22	-0.19	0.04	-1.8	-1.7	A2A2	\$12.95
	180	87	10	3	-427	-50	-1.7	-0.49	350	0.13	0.09	0.55	0.25	-2.0	3.5	A2A2	\$12.95
	179	99	9	-3	-625	-33	3.4	-0.44	311	0.29	0.47	0.64	0.42	-2.2	0.0	A1A2	\$12.95
	178	96	17	1	-445	-54	-1.0	-0.18	170	0.06	0.19	-0.05	0.08	-1.1	-1.8	A1A2	\$12.95
	178	84	5	-2	-410	-36	6.2	-0.37	389	0.44	0.28	0.43	0.12	-3.1	0.0	A2A2	\$12.95
	177	99	8	-6	-599	-42	2.0	-0.48	272	0.21	0.66	0.74	0.45	-2.4	1.3	A2A2	\$12.95
	175	85	3	-4	-625	-51	3.3	-0.29	338	0.30	0.68	0.74	0.55	-1.6	-3.8	A2A2	\$12.95
	175	92	9	-10	-720	-54	3.2	-0.30	253	0.26	0.39	0.23	0.37	-0.4	5.3	A2A2	\$12.95
	166	70	4	0	-320	-69	3.6	0.01	262	0.37	0.01	0.50	0.09	-2.7	-1.3	A1A2	\$12.95
	157	95	7	-11	-460	-83	1.2	-0.57	102	0.23	0.62	0.85	0.52	-1.3	-4.6	A1A1	\$10.95
	154	86	5	5	61	-43	3.2	-0.35	373	0.29	0.48	0.37	0.24	-2.1	1.3	A2A2	\$10.95
	151	99	10	-12	-942	-51	0.5	-0.14	88	0.17	0.24	0.47	0.20	-2.5	0.3	A2A2	\$10.95
	145	99	8	-6	-676	-43	3.3	-0.01	165	0.25	-0.02	0.23	0.08	-1.7	0.1	A2A2	\$10.95
	144	99	27	3	-239	-33	-3.2	-0.09	87	0.22	0.02	0.41	0.03	-2.2	-1.1	A1A2	\$10.95
	142	99	5	-13	-640	-68	0.5	-0.41	210	0.48	0.25	0.73	0.25	-2.8	-2.4	A2A2	\$10.95
	141	98	7	-7	-663	-62	2.7	-0.05	67	0.09	0.14	0.38	0.17	-3.1	-7.7	A2A2	\$10.95
	141	95	-6	-9	-1043	-35	4.2	0.00	287	0.15	0.37	0.31	0.18	-3.0	3.2	A2A2	\$10.95
	138	99	2	-7	-860	-53	-0.7	-0.16	92	0.39	0.57	0.59	0.45	-2.1	-4.3	A2A2	\$10.95
	137	99	5	-2	-409	-56	-0.6	-0.32	148	0.24	0.13	0.82	0.16	-0.9	-5.8	A2A2	\$10.95
	136	99	16	-8	-488	-45	-3.0	-0.22	144	0.46	0.44	0.46	0.37	-2.4	-2.5	A1A2	\$10.95
	136	86	2	0	-256	-56	0.4	-0.19	313	0.18	0.23	0.52	0.21	-2.3	-2.5	A1A2	\$10.95
	128	99	-11	-4	-511	-84	1.5	-0.15	223	0.37	0.26	0.63	0.31	-1.4	-4.7	A2A2	\$8.95
	126	99	-8	-10	-706	-87	2.1	0.20	269	0.54	0.07	1.56	0.24	-1.8	-1.7	A2A2	\$8.95
	126	99	19	1	-481	-24	-3.3	-0.01	14	0.39	0.74	0.55	0.61	-2.3	-6.3	A2A2	\$8.95
	123	99	-1	-4	-452	-74	-1.5	-0.18	173	-0.16	0.21	0.68	0.22	-2.4	-5.0	A2A2	\$8.95
	114	90	-4	-6	-668	-74	-0.2	0.13	130	0.20	0.19	0.37	0.16	-2.9	-6.5	A2A2	\$8.95
	105	98	-14	-8	-479	-49	4.8	-0.36	236	0.22	0.13	0.85	-0.02	-1.4	-4.0	A1A2	\$8.95
	100	89	4	5	-122	-37	-0.7	-0.30	139	0.47	0.26	-0.12	0.18	-0.9	-2.1	A2A2	\$8.95

^ Recessive Fertility Gene Carrier

Q.

How do we deliver  
handpicked sires  
to create your  
perfect herd?



A.

Alpha<sup>®</sup> Sires

 **LIC<sup>®</sup>**

**KiwiCross<sup>®</sup>**

## TOP 5 Genomically Selected Rankings

### Breeding Worth

National herd breed average

**\$75**

Code	Name	gBW/Rel
518076	Greenwell <b>Blackhawk</b>	316/48
518072	Deans <b>Professional</b>	314/48
517026	Howses <b>Springfield</b>	296/57
518015	Smiths <b>Herald</b>	288/57
517043	Glen Koru <b>Proclaimer</b> -ET	278/59

### Protein

National herd breed average

**8 kg**

Code	Name	gBV
518063	Van Straalens <b>Safari</b>	32
518015	Smiths <b>Herald</b>	31
518076	Greenwell <b>Blackhawk</b>	31
517043	Glen Koru <b>Proclaimer</b> -ET	28
518016	Horizon <b>Ascott</b>	24

### Fertility

National herd breed average

**0.4 %**

Code	Name	gBV
518076	Greenwell <b>Blackhawk</b>	6.8
518037	Shepherds <b>Egmont</b> -ET	6.3
518047	Clarkes <b>Masterclass</b>	6.3
517001	Arkans <b>Patriarch</b> -ET	5.3
518072	Deans <b>Professional</b>	5.0

### Capacity

National herd breed average

**.15**

Code	Name	gBV
517026	Howses <b>Springfield</b>	1.20
518063	Van Straalens <b>Safari</b>	.91
518037	Shepherds <b>Egmont</b> -ET	.63
518047	Clarkes <b>Masterclass</b>	.60
518015	Smiths <b>Herald</b>	.41

### Udder Overall

National herd breed average

**.09**

Code	Name	gBV
518047	Clarkes <b>Masterclass</b>	1.10
517001	Arkans <b>Patriarch</b> -ET	.91
518015	Smiths <b>Herald</b>	.68
518063	Van Straalens <b>Safari</b>	.68
518037	Shepherds <b>Egmont</b> -ET	.64



## 518076 Greenwell Blackhawk

KiwiCross® F11J5

gBW \$316/48% REL

Individually

\$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Greenwell Farms		
<b>Sire</b>	Dicksons BG Mandate S1F	<b>MGS</b>	Lynbrook Terrific ET S3J
<b>Dam</b>	CPR-15-4	<b>MGD</b>	CPR-13-13
<b>BW/Rel</b>	232/69	<b>BW/Rel</b>	202/74
<b>PW/Rel</b>	323/64	<b>PW/Rel</b>	357/81

## Genomic Production gBVs

Production Efficiency			
<b>Milkfat</b>	<b>Protein</b>	<b>Milk Volume</b>	<b>Liveweight</b>
41 kg	31 kg	378 l	15 kg
5.1 %	4.0 %		
Robustness			
<b>Fertility</b>	<b>Somatic Cell Count</b>	<b>Body Condition Score</b>	<b>Residual Survival</b>
6.8 %	-0.28	0.15	267 days
Other			
<b>Total Longevity</b>	<b>Calving Difficulty</b>	<b>Gestation Length</b>	
854 days	-1.0 %	-4.2 days	

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.44				
Shed Temperament	.46				
Milking Speed	.09				
Overall Opinion	.49				
Stature	.28				
Capacity	.48				
Rump Angle	.24				
Rump Width	.32				
Legs	.19				
Udder Support	.60				
Front Udder	.51				
Rear Udder	.43				
Front Teat Placement	.47				
Rear Teat Placement	.65				
Udder Overall	.66				
Dairy Conformation	.55				

New Zealand Genetics 54 %

## LIC Initiatives

Once-A-Day	1441	JDS	-6.1
High Input	1617	A2 Protein	A2A2



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



Ten-year-old maternal great grandam. Owner: Greenwell Farms No 1, Opotiki

## 518015 Smiths Herald



Seven-year-old dam. Owner: S &amp; D Smith, Otorohanga



Eight-year-old paternal grandam. Owner: S &amp; K Anderson, Otorohanga

KiwiCross® F9J7

gBW \$288/57% REL

Individually \$31.55<sup>+gst</sup>Genomic Packs from \$25.56\*<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	S & D Smith		
<b>Sire</b>	Arkans Bounty	<b>MGS</b>	Fairmont Mint-Edition
<b>Dam</b>	GCYQ-11-91	<b>MGD</b>	GCYQ-05-60
<b>BW/Rel</b>	200/70	<b>BW/Rel</b>	182/72
<b>PW/Rel</b>	446/78	<b>PW/Rel</b>	401/81

## Genomic Production gBVs

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
40 kg	31 kg	366 l	-10 kg
5.3 %	4.0 %		
Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.3 %	0.26	0.13	65 days
Other			
Total Longevity	Calving Difficulty	Gestation Length	
597 days	0.6 %	-1.1 days	

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.43				
Shed Temperament	.52				
Milking Speed	.23				
Overall Opinion	.57				
Stature	-.18				
Capacity	.51				
Rump Angle	-.32				
Rump Width	.26				
Legs	.03				
Udder Support	.75				
Front Udder	.86				
Rear Udder	.67				
Front Teat Placement	.04				
Rear Teat Placement	.31				
Udder Overall	.80				
Dairy Conformation	.50				

New Zealand Genetics 51 %

## LIC Initiatives

Once-A-Day	1458	JDS	-3.6
High Input	1641	A2 Protein	A2A2



517001 Arkans **Patriarch-ET**

KiwiCross® F10J6

gBW \$232/58% REL



Six-year-old dam. Owner: S &amp; K Anderson, Otorohanga

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	S & K Anderson		
<b>Sire</b>	Kraakmans Jaydie	<b>MGS</b>	Fairmont Mint-Edition
<b>Dam</b>	Arkans Priscilla	<b>MGD</b>	Aponga Pair ET
<b>BW/Rel</b>	221/73	<b>BW/Rel</b>	179/85
<b>PW/Rel</b>	580/80	<b>PW/Rel</b>	224/86

**Genomic Production gBVs**

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
33 kg	14 kg	-24 l	0 kg
5.3 %	4.1 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.3 %	0.10	0.13	128 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
530 days	-1.6 %	-4.0 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.25				
Shed Temperament	.22				
Milking Speed	.39				
Overall Opinion	.37				
Stature	-.21				
Capacity	.46				
Rump Angle	-.19				
Rump Width	.00				
Legs	-.05				
Udder Support	.82				
Front Udder	.87				
Rear Udder	1.01				
Front Teat Placement	.18				
Rear Teat Placement	.42				
Udder Overall	1.00				
Dairy Conformation	.51				

New Zealand Genetics 47 %

**LIC Initiatives**

Once-A-Day	1375	JDS	9.1
High Input	1543	A2 Protein	A1A2

518063 Van Straalens **Safari**

Kiwicross® F11J5

gBW \$248/55% REL



Sire of Safari - Moorbys FM Granite S2F

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	D & R Van Straalen		
<b>Sire</b>	Moorbys FM Granite S2F	<b>MGS</b>	Arkans Promoter
<b>Dam</b>	GYJH-13-112	<b>MGD</b>	GYJH-09-90
<b>BW/Rel</b>	249/69	<b>BW/Rel</b>	253/53
<b>PW/Rel</b>	476/69	<b>PW/Rel</b>	421/75

**Genomic Production gBVs**

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
36 kg	32 kg	653 l	8 kg
4.9 %	3.9 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.3 %	-0.26	0.20	27 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
557 days	0.7 %	-2.4 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.22				
Shed Temperament	.21				
Milking Speed	.16				
Overall Opinion	.32				
Stature	-.22				
Capacity	.87				
Rump Angle	-.11				
Rump Width	.45				
Legs	.12				
Udder Support	.62				
Front Udder	.59				
Rear Udder	.65				
Front Teat Placement	.13				
Rear Teat Placement	-.03				
Udder Overall	.70				
Dairy Conformation	.71				

New Zealand Genetics 54%

**LIC Initiatives**

Once-A-Day	1416	JDS	1.8
High Input	1597	A2 Protein	A2A2

517026 Howses **Springfield**

KiwiCross® F9J7

gBW \$296/57% REL

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	B & W Howse		
<b>Sire</b>	Drysdale Sovereign	<b>MGS</b>	Arkans Boomtown
<b>Dam</b>	KLMH-13-10	<b>MGD</b>	KLMH-11-2
<b>BW/Rel</b>	209/67	<b>BW/Rel</b>	181/73
<b>PW/Rel</b>	366/73	<b>PW/Rel</b>	351/76

**Genomic Production gBVs**

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
37 kg	21 kg	-47 l	2 kg
5.4 %	4.1 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.9 %	-0.99	0.16	35 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
554 days	-0.9 %	-2.7 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.26				
Shed Temperament	.28				
Milking Speed	.01				
Overall Opinion	.20				
Stature	-.19				
Capacity	.94				
Rump Angle	.10				
Rump Width	.31				
Legs	.15				
Udder Support	.50				
Front Udder	.28				
Rear Udder	.23				
Front Teat Placement	.14				
Rear Teat Placement	.50				
Udder Overall	.36				
Dairy Conformation	.75				

New Zealand Genetics 59 %

Fertility 1 carrier

**LIC Initiatives**

Once-A-Day	1449	JDS	4.1
High Input	1595	A2 Protein	A2A2

518016 Horizon **Ascott**

KiwiCross® F9J7

gBW \$264/55% REL



Maternal grandsire of Ascott - Kraakmans Jaydie

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	M & P Scott		
<b>Sire</b>	Burmeisters Bandana	<b>MGS</b>	Kraakmans Jaydie
<b>Dam</b>	Astrid	<b>MGD</b>	HGMC-13-17
<b>BW/Rel</b>	219/64	<b>BW/Rel</b>	170/71
<b>PW/Rel</b>	397/63	<b>PW/Rel</b>	355/78

**Genomic Production gBVs**

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
38 kg	24 kg	283 l	-9 kg
5.2 %	4.1 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.0 %	0.08	0.11	133 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
592 days	-1.3 %	-4.7 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.14				
Shed Temperament	.12				
Milking Speed	.29				
Overall Opinion	.23				
Stature	-.30				
Capacity	.51				
Rump Angle	-.26				
Rump Width	-.07				
Legs	.04				
Udder Support	.52				
Front Udder	.40				
Rear Udder	.57				
Front Teat Placement	.11				
Rear Teat Placement	.49				
Udder Overall	.51				
Dairy Conformation	.47				

New Zealand Genetics 58 %

**LIC Initiatives**

Once-A-Day	1399	JDS	1.7
High Input	1535	A2 Protein	A2A2



517043 Glen Koru **Proclaimer-ET**

KiwiCross® F11J5

gBW \$278/59% REL

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	D & K Camp		
<b>Sire</b>	Gydeland Excel Inca S3F	<b>MGS</b>	Nevron Showman
<b>Dam</b>	Glen Koru Flo ET	<b>MGD</b>	LDJT-06-52
<b>BW/Rel</b>	203/71	<b>BW/Rel</b>	204/74
<b>PW/Rel</b>	503/85	<b>PW/Rel</b>	518/84

**Genomic Production gBVs****Production Efficiency**

Milkfat	Protein	Milk Volume	Liveweight
41 kg	28 kg	354 l	6 kg
5.0 %	4.0 %		

**Robustness**

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
4.0 %	-0.14	0.23	5 days

**Other**

Total Longevity	Calving Difficulty	Gestation Length
559 days	1.6 %	1.1 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.26				
Shed Temperament	.29				
Milking Speed	-.07				
Overall Opinion	.35				
Stature	-.17				
Capacity	.46				
Rump Angle	.16				
Rump Width	.04				
Legs	.00				
Udder Support	.50				
Front Udder	.37				
Rear Udder	.42				
Front Teat Placement	.01				
Rear Teat Placement	.35				
Udder Overall	.45				
Dairy Conformation	.39				

New Zealand Genetics 42 %

**LIC Initiatives**

Once-A-Day	1403	JDS	-2.8
High Input	1566	A2 Protein	A2A2

518072 Deans **Professional**

KiwiCross® F7J9

gBW \$314/48% REL

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	B & D Dean		
<b>Sire</b>	Tironui LT Besiege ET S2J	<b>MGS</b>	Whinlea PF Esteem-ET S2F
<b>Dam</b>	GYMD-15-250	<b>MGD</b>	GYMD-10-110
<b>BW/Rel</b>	186/66	<b>BW/Rel</b>	190/71
<b>PW/Rel</b>	320/49	<b>PW/Rel</b>	498/74

**Genomic Production gBVs****Production Efficiency**

Milkfat	Protein	Milk Volume	Liveweight
43 kg	20 kg	195 l	-17 kg
5.3 %	4.0 %		

**Robustness**

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.0 %	-0.25	0.20	149 days

**Other**

Total Longevity	Calving Difficulty	Gestation Length
702 days	-0.6 %	-1.3 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.28				
Shed Temperament	.26				
Milking Speed	.10				
Overall Opinion	.33				
Stature	-.38				
Capacity	.37				
Rump Angle	-.02				
Rump Width	.27				
Legs	-.02				
Udder Support	.36				
Front Udder	.38				
Rear Udder	.47				
Front Teat Placement	-.08				
Rear Teat Placement	-.11				
Udder Overall	.42				
Dairy Conformation	.45				

New Zealand Genetics 57 %

**LIC Initiatives**

Once-A-Day	1399	JDS	-0.5
High Input	1545	A2 Protein	A2A2

518047 Clarkes **Masterclass**

KiwiCross® F8J8

gBW \$271/47% REL

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	S & V Clarke		
<b>Sire</b>	Hyjinks Snapper	<b>MGS</b>	Taylor's Highlight
<b>Dam</b>	JWLP-14-1	<b>MGD</b>	JWLP-12-42
<b>BW/Rel</b>	211/66	<b>BW/Rel</b>	196/69
<b>PW/Rel</b>	475/63	<b>PW/Rel</b>	421/70

**Genomic Production gBVs**

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
38 kg	20 kg	172 l	1 kg
5.3 %	4.0 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
6.3 %	-0.13	0.18	81 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
596 days	0.1 %	0.6 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.37				
Shed Temperament	.36				
Milking Speed	.03				
Overall Opinion	.30				
Stature	-.04				
Capacity	.51				
Rump Angle	-.10				
Rump Width	.22				
Legs	.02				
Udder Support	1.03				
Front Udder	.79				
Rear Udder	.90				
Front Teat Placement	.32				
Rear Teat Placement	.70				
Udder Overall	1.04				
Dairy Conformation	.53				

New Zealand Genetics 61 %

**LIC Initiatives**

Once-A-Day	1442	JDS	6.3
High Input	1648	A2 Protein	A1A2

518056 Jacksons **Bocelli**

KiwiCross® F7J9

gBW \$266/50% REL



Six-year-old dam. Owner: J Jackson, Morrinsville

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

**Breeding Details**

<b>Breeder</b>	J Jackson		
<b>Sire</b>	Arrieta Branson-ET	<b>MGS</b>	Waiwira Warlord
<b>Dam</b>	HYC-12-21	<b>MGD</b>	HYC-06-21
<b>BW/Rel</b>	178/69	<b>BW/Rel</b>	216/72
<b>PW/Rel</b>	426/80	<b>PW/Rel</b>	474/81

**Genomic Production gBVs**

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
36 kg	26 kg	87 l	-16 kg
5.4 %	4.2 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.5 %	0.43	0.05	96 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
521 days	-1.1 %	-4.7 days

**Genomic TOP traits**

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.37				
Shed Temperament	.39				
Milking Speed	.53				
Overall Opinion	.49				
Stature	-.21				
Capacity	.05				
Rump Angle	-.16				
Rump Width	.17				
Legs	.18				
Udder Support	.47				
Front Udder	.28				
Rear Udder	.41				
Front Teat Placement	.35				
Rear Teat Placement	.71				
Udder Overall	.48				
Dairy Conformation	.12				

New Zealand Genetics 60 %

**LIC Initiatives**

Once-A-Day	1402	JDS	17.8
High Input	1499	A2 Protein	A2A2

## 518037 Shepherds Egmont-ET

KiwiCross® F9J7

gBW \$272/48% REL



Three-year-old dam. Owner: R M Farms Ltd, Whangarei

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	R P Shepherd		
<b>Sire</b>	Spring Tralee Beauden-ET	<b>MGS</b>	Lynbrook Terrific ET S3J
<b>Dam</b>	CGPX-15-104	<b>MGD</b>	CGPX-12-88
<b>BW/Rel</b>	281/69	<b>BW/Rel</b>	242/53
<b>PW/Rel</b>	502/64	<b>PW/Rel</b>	433/81

## Genomic Production gBVs

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
32 kg	17 kg	129 l	-15 kg
5.2 %	4.0 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
6.3 %	-0.18	0.25	81 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
602 days	-1.0 %	-4.3 days

## Genomic TOP traits

Management	gBV	-0.5	0	0.5	1.0
Adapts to Milking	.02				
Shed Temperament	.03				
Milking Speed	.03				
Overall Opinion	.05				
Stature	-.27				
Capacity	.67				
Rump Angle	.15				
Rump Width	.04				
Legs	.01				
Udder Support	.61				
Front Udder	.46				
Rear Udder	.66				
Front Teat Placement	.29				
Rear Teat Placement	.62				
Udder Overall	.68				
Dairy Conformation	.53				

New Zealand Genetics 51 %

## LIC Initiatives

Once-A-Day	1384	JDS	-6.0
High Input	1566	A2 Protein	A1A2

## 2019 Yearling Bulls

# Want the very latest genetics?

Individually \$31.55<sub>+gst</sub>Genomic Packs from \$25.56\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

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 2019 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 Sire 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](http://lic.co.nz/alpha)

## TOP 5 Daughter Proven Rankings

### Breeding Worth

National herd breed average

**\$75**

Code	Name	BW/Rel
515058	Kahurangi <b>Izabull</b>	265/82
515062	Duggans <b>Gameplan</b>	247/83
514017	Glen Koru <b>Beckon</b>	236/87
515017	Lynbrook <b>Kartell</b>	212/78
515011	Lynskeys <b>Liam</b>	209/79

### Protein

National herd breed average

**8 kg**

Code	Name	BV
515083	McCaoss <b>Majesty</b>	31
514017	Glen Koru <b>Beckon</b>	29
515058	Kahurangi <b>Izabull</b>	25
514018	Glen Koru <b>Epic</b>	24
511011	Priests <b>Sierra</b>	22

### Milk Fat

National herd breed average

**9 kg**

Code	Name	BV
514017	Glen Koru <b>Beckon</b>	51
515058	Kahurangi <b>Izabull</b>	36
511011	Priests <b>Sierra</b>	35
515068	Woodwards <b>Spot On</b>	33
515083	McCaoss <b>Majesty</b>	33

### Milk Volume

National herd breed average

**62 litres**

Code	Name	BV
514017	Glen Koru <b>Beckon</b>	502
515083	McCaoss <b>Majesty</b>	450
515058	Kahurangi <b>Izabull</b>	384
511011	Priests <b>Sierra</b>	359
514018	Glen Koru <b>Epic</b>	269

### Fertility

National herd breed average

**0.4 %**

Code	Name	BV
513074	Schraders <b>Tusk</b>	7.5
511011	Priests <b>Sierra</b>	5.6
515058	Kahurangi <b>Izabull</b>	3.9
514018	Glen Koru <b>Epic</b>	3.9
515068	Woodwards <b>Spot On</b>	3.5



## Total Longevity

National herd breed average

129 days

Code	Name	BV
511011	Priests <b>Sierra</b>	560
515058	Kahurangi <b>Izabull</b>	539
515083	McCaoss <b>Majesty</b>	458
515017	Lynbrook <b>Kartell</b>	447
514018	Glen Koru <b>Epic</b>	437

## Somatic Cell Score

National herd breed average

-0.03

Code	Name	BV
515011	Lynskeys <b>Liam</b>	-0.63
515058	Kahurangi <b>Izabull</b>	-0.31
511011	Priests <b>Sierra</b>	-0.31
514017	Glen Koru <b>Beckon</b>	-0.21
512005	Just Once <b>Cooper</b>	-0.19

## Capacity

National herd breed average

.15

Code	Name	BV
515068	Woodwards <b>Spot On</b>	1.20
515011	Lynskeys <b>Liam</b>	.91
513098	Arkans <b>Bounty</b>	.63
514017	Glen Koru <b>Beckon</b>	.60
511011	Priests <b>Sierra</b>	.41

## Udder Overall

National herd breed average

.09

Code	Name	BV
515025	Speakes <b>Slipstream</b> ET	1.10
513098	Arkans <b>Bounty</b>	.91
515017	Lynbrook <b>Kartell</b>	.68
515083	McCaoss <b>Majesty</b>	.68
515062	Duggans <b>Gameplan</b>	.64

## Overall Opinion

National herd breed average

.11

Code	Name	BV
514017	Glen Koru <b>Beckon</b>	.64
511011	Priests <b>Sierra</b>	.63
515011	Lynskeys <b>Liam</b>	.53
512005	Just Once <b>Cooper</b>	.52
513074	Schraders <b>Tusk</b>	.50

# 515025 Speakes Slipstream ET

Premier  
Sire

Phenomenal  
udders



KiwiCross® F6J10

BW \$175/80 % REL

Individually \$32.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	M & F Speake	<b>Dam</b>	Blackjack M Sparkles S0F
<b>Sire</b>	Pukeroa TGM Manzello	<b>MGS</b>	Fairmont Mint-Edition

## Production BVs

85 Daughters 28 Herds

### Production Efficiency

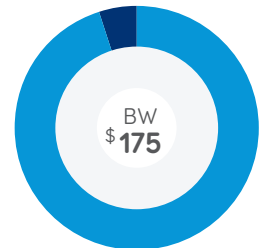
Milkfat	Protein	Milk Volume	Liveweight
29 kg	11 kg	-114 l	-5 kg
5.5 %	4.1 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.0 %	0.00	0.02	11 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
271 days	-2.3 %	0.1 days



● Production efficiency	\$166	95%
● Robustness	\$9	5%

## TOP traits

80 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.29				
Shed Temperament	.25				
Milking Speed	.20				
Overall Opinion	.30				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.16				
Capacity	.41				
Rump Angle	-.10				
Rump Width	.42				
Legs	-.05				
Udder Support	.94				
Front Udder	.97				
Rear Udder	1.05				
Front Teat Placement	.27				
Rear Teat Placement	.46				
Udder Overall	1.10				
Dairy Conformation	.46				

New Zealand Genetics 64 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1297	JDS	-6.5
High Input	1405	A2 Protein	A2A2

Daughter Proven



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



Two-year-old daughter. Owner: Calm Farms Limited, Hamilton

# 515017 Lynbrook Kartell

KiwiCross® F7J8A1

BW \$212/78% REL

Individually \$32.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	S & N Ireland	<b>Dam</b>	Lynbrook LM Karen
<b>Sire</b>	Howies Arkan Ramada ET	<b>MGS</b>	Okura Lika Murmur S3J

## Production BVs

75 Daughters 27 Herds

### Production Efficiency

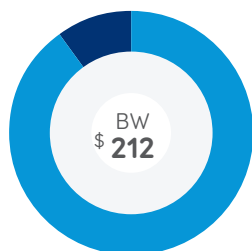
Milkfat	Protein	Milk Volume	Liveweight
22 kg	19 kg	58 l	-26 kg
5.2 %	4.2 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.6 %	0.07	-0.02	138 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
447 days	-1.8 %	-4.8 days



Production efficiency	\$191	90%
Robustness	\$21	10%

## TOP traits

70 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.34				
Shed Temperament	.33				
Milking Speed	.34				
Overall Opinion	.34				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.63				
Capacity	.29				
Rump Angle	.12				
Rump Width	.45				
Legs	.18				
Udder Support	.52				
Front Udder	.74				
Rear Udder	.73				
Front Teat Placement	.03				
Rear Teat Placement	.12				
Udder Overall	.68				
Dairy Conformation	.18				

New Zealand Genetics 71 %

Fertility 1 carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1289	JDS	21.3
High Input	1385	A2 Protein	A1A2

Premier Sire



Two-year- old daughter. Owner: Tanad Farms Ltd, Te Puke



Two-year-old daughter. Owner: Tanad Farms Ltd, Te Puke

Daughter Proven



## 515011 Lynskeys Liam

Genomic  
graduate



KiwiCross® F6J9

BW \$209/79% REL

Individually \$30.95<sup>+</sup><sub>gst</sub>

Classic Packs<sup>from</sup> \$20.43<sup>+</sup><sub>gst</sub>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	J & C Lynskey	<b>Dam</b>	Livvy
<b>Sire</b>	Priests Solaris-ET	<b>MGS</b>	Nevron Showman

### Production BVs

81 Daughters 37 Herds

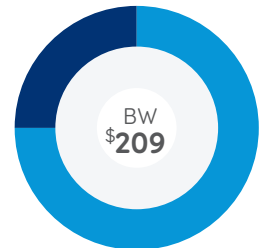
Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
16 kg	15 kg	148 l	-36 kg
4.9 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.9 %	-0.63	0.29	-132 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
311 days	-1.3 %	-3.9 days



● Production efficiency	\$156	75%
● Robustness	\$53	25%

### TOP traits

74 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.56				
Shed Temperament	.53				
Milking Speed	.23				
Overall Opinion	.52				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-1.06				
Capacity	.91				
Rump Angle	-.63				
Rump Width	-.14				
Legs	-.04				
Udder Support	.55				
Front Udder	.66				
Rear Udder	.62				
Front Teat Placement	.18				
Rear Teat Placement	.39				
Udder Overall	.61				
Dairy Conformation	.71				

New Zealand Genetics 65 %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1311	JDS	1.6
High Input	1421	A2 Protein	A2A2

Daughter Proven



Two-year-old daughter. Owner: JBT Farming Limited, Atiamuri



Two-year-old daughter. Owner: JBT Farming Limited, Atiamuri



# 514017 Glen Koru Beckon

KiwiCross® F5J11

BW \$236/87% REL

Individually \$32.95<sup>95</sup><sub>+gst</sub>

Classic Packs from \$20.43<sup>43\*</sup><sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	D & K Camp	<b>Dam</b>	Glen Koru Nsea Becca S0F
<b>Sire</b>	Pukeroa TGM Manzello	<b>MGS</b>	Scotts Northsea

## Production BVs

114 Daughters 54 Herds

### Production Efficiency

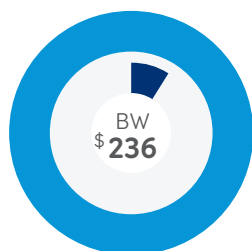
Milkfat	Protein	Milk Volume	Liveweight
51 kg	29 kg	502 l	-2 kg
5.3 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-1.0 %	-0.21	-0.08	-136 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
273 days	-3.2 %	-6.1 days



● Production efficiency	\$257	109%
● Robustness	-\$21	-9%

## TOP traits

104 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.49				
Shed Temperament	.53				
Milking Speed	.31				
Overall Opinion	.62				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.00				
Capacity	.60				
Rump Angle	-.83				
Rump Width	.49				
Legs	.01				
Udder Support	.09				
Front Udder	.44				
Rear Udder	.00				
Front Teat Placement	-.01				
Rear Teat Placement	-.05				
Udder Overall	.22				
Dairy Conformation	.53				

New Zealand Genetics 71 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1328	JDS	-9.9
High Input	1393	A2 Protein	A2A2

Premier Sire

Top 5 BW

#1 Milkfat bull



Three-year-old daughter. Owner: Hermansen Family Trust, Rotorua



Two-year-old daughter. Owner: Aratiatia Ltd No 1, Matamata

Daughter Proven

## 515058 Kahurangi Izabull

Premier  
Sire

#1 BW  
bull

Top 5  
milkfat



KiwiCross® F9J7

\$265/82 %  
BW REL

Individually \$32.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	P & D Langford	<b>Dam</b>	Izaria
<b>Sire</b>	Howies Arkan Ramada ET	<b>MGS</b>	Okura Lika Murmur S3J

### Production BVs

101 Daughters 35 Herds

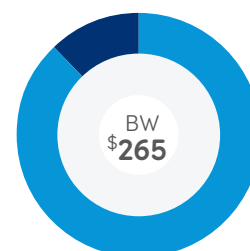
Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
36 kg	25 kg	384 l	-24 kg
5.1 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.9 %	-0.31	-0.16	119 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
539 days	-0.4 %	-7.3 days



● Production efficiency	\$233	88%
● Robustness	\$32	12%

### TOP traits

93 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.17				
Shed Temperament	.25				
Milking Speed	.36				
Overall Opinion	.24				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.36				
Capacity	-.13				
Rump Angle	-.15				
Rump Width	.09				
Legs	-.02				
Udder Support	.29				
Front Udder	.42				
Rear Udder	.77				
Front Teat Placement	-.24				
Rear Teat Placement	-.10				
Udder Overall	.49				
Dairy Conformation	-.16				

New Zealand Genetics 71 %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1309	JDS	1.5
High Input	1392	A2 Protein	A1A1

Daughter Proven



Two-year-old daughter. Owner: Cow Freaks Ltd, Te Awamutu



Two-year-old daughter. Owner: Cow Freaks Ltd, Te Awamutu



# 511011 Priests Sierra

KiwiCross® F11J5

BW \$207/99 % REL

Individually

\$30.95<sub>+gst</sub>

Classic Packs from

\$20.43<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	R Priest	<b>Dam</b>	HHRy-07-32
<b>Sire</b>	Fairmont Mint-Edition	<b>MGS</b>	Ingrams Ramrod

## Production BVs

10515 Daughters 2218 Herds

### Production Efficiency

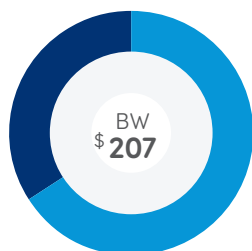
Milkfat	Protein	Milk Volume	Liveweight
35 kg	22 kg	359 l	37 kg
5.1 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
5.6 %	-0.31	0.11	130 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
560 days	1.3 %	-7.0 days



Production efficiency	\$137	66%
Robustness	\$70	34%

## TOP traits

123 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.64				
Shed Temperament	.63				
Milking Speed	.10				
Overall Opinion	.60				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.66				
Capacity	.41				
Rump Angle	-.02				
Rump Width	.16				
Legs	.07				
Udder Support	.44				
Front Udder	.28				
Rear Udder	.47				
Front Teat Placement	.20				
Rear Teat Placement	.97				
Udder Overall	.34				
Dairy Conformation	.59				

New Zealand Genetics 50 %

Fertility 1 carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1254	JDS	15.0
High Input	1375	A2 Protein	A2A2

Premier Sire

Top 5 milkfat

Top 5 fertility



Two-year-old daughter. Owner: Dewdney Farm Partnership, Morrinsville



Two-year-old daughter. Owner: CDH Farming Ltd, Opunake

Daughter Proven

## 515062 Duggans Gameplan

Top 5  
BW



Two-year-old daughter. Owner: McGowan-Weake Limited, Taupiri



Two-year-old daughter. Owner: Bracadale Farms Ltd, Walton

KiwiCross® F4J12

BW \$247/83 % REL

Individually \$30.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	R & J Duggan	<b>Dam</b>	Duggan's Glamour
<b>Sire</b>	Pukeroa TGM Manzello	<b>MGS</b>	Scotts Northsea

### Production BVs

104 Daughters 44 Herds

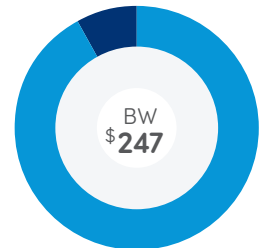
Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
28 kg	6 kg	-556 l	-40 kg
6.1 %	4.5 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.3 %	-0.07	0.08	13 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
335 days	-3.4 %	-7.2 days



● Production efficiency	\$228	92%
● Robustness	\$19	8%

### TOP traits

87 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.43				
Shed Temperament	.44				
Milking Speed	.25				
Overall Opinion	.40				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.61				
Capacity	.24				
Rump Angle	-.24				
Rump Width	.01				
Legs	-.07				
Udder Support	.42				
Front Udder	.53				
Rear Udder	.84				
Front Teat Placement	-.10				
Rear Teat Placement	-.47				
Udder Overall	.64				
Dairy Conformation	.29				

New Zealand Genetics 69 %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1301	JDS	-4.6
High Input	1353	A2 Protein	A2A2

Daughter Proven



# 513098 Arkans Bounty

KiwiCross® F5J11

BW \$178/98 % REL

Individually \$30.95<sub>+gst</sub>

Classic Packs from \$20.43\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	S & K Anderson	<b>Dam</b>	Arkan Beautiful-ET S0F
<b>Sire</b>	Okura LT Integrity	<b>MGS</b>	Telesis Euon Firenze

## Production BVs

3652 Daughters 897 Herds

### Production Efficiency

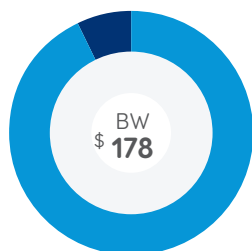
Milkfat	Protein	Milk Volume	Liveweight
22 kg	18 kg	230 l	-22 kg
5.0 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.0 %	-0.12	0.21	-103 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
252 days	0.0 %	0.4 days



● Production efficiency	\$165	93%
● Robustness	\$13	7%

## TOP traits

78 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.18				
Shed Temperament	.31				
Milking Speed	-.07				
Overall Opinion	.44				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.38				
Capacity	.63				
Rump Angle	-.10				
Rump Width	.47				
Legs	-.01				
Udder Support	.81				
Front Udder	.97				
Rear Udder	.93				
Front Teat Placement	-.18				
Rear Teat Placement	.15				
Udder Overall	.91				
Dairy Conformation	.71				

New Zealand Genetics 51 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1291	JDS	-20.1
High Input	1425	A2 Protein	A1A2

Genomic graduate

Phenomenal udders



Two-year-old daughter. Owner: Glen View (2009) Ltd, Palmerston North



Two-year-old daughter. Owner: Glen View (2009) Ltd, Palmerston North

Daughter Proven

Premier  
SirePhenomenal  
capacity

KiwiCross® F9J7

BW \$185/80 % REL

Individually \$32.95<sup>+gst</sup>Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

Breeder	R & S Woodward	Dam	BDRB-08-9
Sire	Vanstraelens Vibe	MGS	Scotts Northsea

## Production BVs

84 Daughters 39 Herds

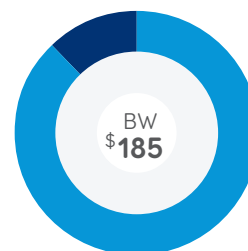
Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
33 kg	17 kg	254 l	3 kg
5.2 %	3.9 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.5 %	-0.09	0.14	-132 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
263 days	-1.9 %	0.7 days



● Production efficiency	\$162	88%
● Robustness	\$23	12%

## TOP traits

83 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.30				
Shed Temperament	.34				
Milking Speed	.16				
Overall Opinion	.36				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.25				
Capacity	1.20				
Rump Angle	-.37				
Rump Width	.09				
Legs	-.01				
Udder Support	.35				
Front Udder	.35				
Rear Udder	.38				
Front Teat Placement	-.12				
Rear Teat Placement	.22				
Udder Overall	.40				
Dairy Conformation	.87				

New Zealand Genetics 60 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1272	JDS	-10.8
High Input	1396	A2 Protein	A2A2

Daughter Proven



Two-year-old daughter. Owner: DNG Farming Ltd, Te Puke



Two-year-old daughter. Owner: JBT Farming Limited, Atiamuri



# 515083 McCaoss Majesty

KiwiCross® F13J3

BW \$190/80 % REL

Individually

\$30.95  
+gst

Classic Packs from \$20.43\*  
+gst

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	J & S Ross	<b>Dam</b>	MFCT-10-72
<b>Sire</b>	Hazael Draco Monarch S3F	<b>MGS</b>	Nevron Showman

## Production BVs

89 Daughters 36 Herds

### Production Efficiency

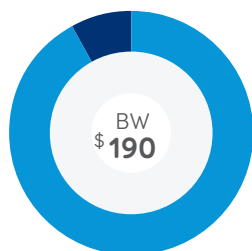
Milkfat	Protein	Milk Volume	Liveweight
33 kg	31 kg	450 l	25 kg
5.0 %	4.1 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.1 %	-0.11	-0.10	134 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
458 days	2.2 %	-0.2 days



● Production efficiency	\$175	92%
● Robustness	\$15	8%

## TOP traits

82 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.34				
Shed Temperament	.34				
Milking Speed	.46				
Overall Opinion	.45				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.66				
Capacity	.06				
Rump Angle	-.61				
Rump Width	.51				
Legs	.03				
Udder Support	.54				
Front Udder	.70				
Rear Udder	.04				
Front Teat Placement	.69				
Rear Teat Placement	.36				
Udder Overall	.68				
Dairy Conformation	.23				

New Zealand Genetics 39 %

Fertility 2 carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1297	JDS	-9.4
High Input	1387	A2 Protein	A1A2

Premier Sire

Top 5 milkfat

Top 5 protein



Two-year-old daughter. Owner: Tanad Farms Ltd, Te Puke



Two-year-old daughter. Owner: Craig Tretheway, Waihi

Daughter Proven

# 514018 Glen Koru Epic

Premier  
Sire



KiwiCross® F7J9

BW \$196/83 % REL

Individually \$28.95<sup>+gst</sup>

Classic Packs<sup>from</sup> \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	D & K Camp	<b>Dam</b>	Glen Koru E-Imp Erina
<b>Sire</b>	Serpentine Crusader	<b>MGS</b>	Ewings Imperial

## Production BVs

81 Daughters 38 Herds

### Production Efficiency

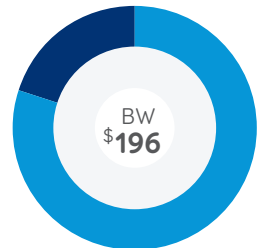
Milkfat	Protein	Milk Volume	Liveweight
22 kg	24 kg	269 l	2 kg
4.9 %	4.1 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
3.9 %	-0.08	0.06	58 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
437 days	0.1 %	0.6 days



● Production efficiency	\$157	80%
● Robustness	\$39	20%

## TOP traits

74 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.13				
Shed Temperament	.09				
Milking Speed	.20				
Overall Opinion	.27				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.12				
Capacity	.27				
Rump Angle	-.90				
Rump Width	.03				
Legs	.19				
Udder Support	.35				
Front Udder	.09				
Rear Udder	.50				
Front Teat Placement	.09				
Rear Teat Placement	.12				
Udder Overall	.42				
Dairy Conformation	.25				

New Zealand Genetics 75 %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1254	JDS	8.0
High Input	1354	A2 Protein	A2A2

Daughter Proven



Two-year-old daughter. Owner: G & K Box, Matamata



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



# 512005 Just Once Cooper

KiwiCross® F9J7

BW \$197/86 % REL

Individually \$30.95<sup>+</sup><sub>gst</sub>

Classic Packs from \$20.43<sup>+</sup><sub>gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	S & K Bicknell	<b>Dam</b>	CQYL-08-175
<b>Sire</b>	St Peters Obsidian	<b>MGS</b>	Valden HI Applause-ET S2F

## Production BVs

88 Daughters 44 Herds

### Production Efficiency

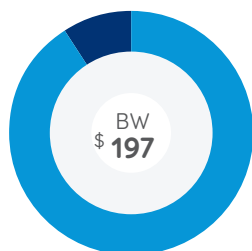
Milkfat	Protein	Milk Volume	Liveweight
27 kg	11 kg	2 l	-31 kg
5.3 %	4.0 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
1.3 %	-0.19	0.02	11 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
310 days	-1.6 %	-9.9 days



● Production efficiency	\$179	91%
● Robustness	\$18	9%

## TOP traits

77 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.43				
Shed Temperament	.40				
Milking Speed	.11				
Overall Opinion	.47				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.29				
Capacity	.13				
Rump Angle	-.14				
Rump Width	-.12				
Legs	.04				
Udder Support	.60				
Front Udder	.33				
Rear Udder	.72				
Front Teat Placement	.26				
Rear Teat Placement	.87				
Udder Overall	.49				
Dairy Conformation	.18				

New Zealand Genetics 71 %

Fertility 1 carrier

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1270	JDS	14.2
High Input	1331	A2 Protein	A2A2

Shorter gestation



Two-year-old daughter. Owner: Lakeland Dairies Ltd, Rotorua



Two-year-old daughter. Owner: Lakeland Dairies Ltd, Rotorua

Daughter Proven

# 513074 Schraders Tusk

Premier  
Sire

#1 Fertility  
Bull



Three-year-old daughter. Owner: Tirohia Valley Ltd, Paeroa



Three-year-old daughter. Owner: Tirohia Valley Ltd, Paeroa

KiwiCross® F9J7

BW \$189/87% REL

Individually \$28.95<sup>+gst</sup>

Classic Packs from \$20.43<sup>+gst</sup>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	H Schrader	<b>Dam</b>	Choco Chunder
<b>Sire</b>	Waiwira Warlord	<b>MGS</b>	Arkans Athlete ET

## Production BVs

101 Daughters 34 Herds

### Production Efficiency

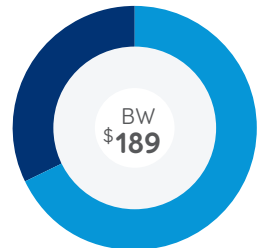
Milkfat	Protein	Milk Volume	Liveweight
17 kg	12 kg	191 l	-25 kg
4.9 %	3.9 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
7.5 %	-0.12	0.05	63 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
431 days	-2.1 %	-10.5 days



● Production efficiency	\$129	68%
● Robustness	\$60	32%

## TOP traits

81 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.28				
Shed Temperament	.30				
Milking Speed	.32				
Overall Opinion	.47				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.42				
Capacity	.06				
Rump Angle	-.63				
Rump Width	-.38				
Legs	.03				
Udder Support	.36				
Front Udder	.04				
Rear Udder	.58				
Front Teat Placement	.03				
Rear Teat Placement	.03				
Udder Overall	.39				
Dairy Conformation	.14				

New Zealand Genetics 63 %

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## LIC Initiatives

Once-A-Day	1212	JDS	3.9
High Input	1298	A2 Protein	A1A2

Daughter Proven

# 513050 Woodheys Speed Dial

KiwiCross® F7J8

BW \$189/98 % REL

Individually \$28.95<sub>+gst</sub>

Classic Packs from \$20.43<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	B & S Shaw	<b>Dam</b>	JHPQ-10-165
<b>Sire</b>	Hillstar Terrific 5-Star	<b>MGS</b>	Fairmont Mint-Edition

## Production BVs

2426 Daughters 786 Herds

### Production Efficiency

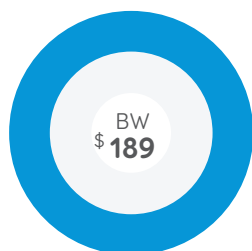
Milkfat	Protein	Milk Volume	Liveweight
24 kg	14 kg	-155 l	-24 kg
5.5 %	4.2 %		

### Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
0.5 %	-0.14	-0.15	57 days

### Other

Total Longevity	Calving Difficulty	Gestation Length
284 days	-0.2 %	-0.7 days



● Production efficiency	\$189	100%
● Robustness	\$0	0%

## TOP traits

112 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.28				
Shed Temperament	.30				
Milking Speed	.13				
Overall Opinion	.27				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.32				
Capacity	-.02				
Rump Angle	.20				
Rump Width	.38				
Legs	.32				
Udder Support	.54				
Front Udder	.11				
Rear Udder	.65				
Front Teat Placement	.01				
Rear Teat Placement	.68				
Udder Overall	.45				
Dairy Conformation	.04				

New Zealand Genetics 56 %

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## LIC Initiatives

Once-A-Day	1265	JDS	-0.7
High Input	1310	A2 Protein	A1A2

Premier Sire



Four-year-old daughter. Owner: D & R Van Straalen, Te Awamutu

Daughter Proven



## 513016 Horizon **Blazer** ET

KiwiCross® F9J7

BW \$172/89 % REL



- A1A2
- Outstanding capacity
- Great fertility

Two-year-old daughter.  
Owner: Eichler Holdings Ltd, Te Puke

### Breeding Details

<b>Breeder</b>	M & P Scott	<b>Dam</b>	Belle
<b>Sire</b>	Il Vero Amore Power	<b>MGS</b>	Puketiro Frostman S1F

### Production BVs

116 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
17 kg	13 kg	241 l	-9 kg	4.4 %
4.9 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.25	0.29	392 days	-0.5 %	-5.1 days

### TOP traits

112 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.03				
Capacity	.84				
Udder Overall	.47				
Dairy Conformation	.46				

## 512048 Athlham **Pacemaker**

KiwiCross® F6J10

BW \$206/98 % REL



- A1A2
- Shorter gestation
- Excellent longevity

Fertility 2 carrier

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

### Breeding Details

<b>Breeder</b>	R Crawford	<b>Dam</b>	LVBB-07-88
<b>Sire</b>	Nevron Showman	<b>MGS</b>	Scotts Northsea

### Production BVs

3267 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
15 kg	9 kg	-136 l	-39 kg	3.6 %
5.2 %	4.1 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
0.00	0.10	508 days	0.3 %	-7.4 days

### TOP traits

85 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.02				
Capacity	.17				
Udder Overall	.16				
Dairy Conformation	.21				

## 513076 Kamahi **King**

KiwiCross® F5J11

BW \$188/98 % REL



- A2A2
- Great udders
- Somatic cell improver

Fertility 3 carrier

Two-year-old daughter.  
Owner: G & L Irwin, Morrinsville

### Breeding Details

<b>Breeder</b>	N & R Tidey	<b>Dam</b>	Kyra
<b>Sire</b>	Okura Lika Murmur SJJ	<b>MGS</b>	Valden HI Applause-ET S2F

### Production BVs

2483 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
12 kg	2 kg	-354 l	-31 kg	3.2 %
5.4 %	4.2 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.52	0.20	354 days	-1.1 %	0.7 days

### TOP traits

97 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.15				
Capacity	.31				
Udder Overall	.60				
Dairy Conformation	.16				

## 512050 Arkans **Perspective-ET**

KiwiCross® F8J8

BW \$171/98 % REL



- A1A2
- Great udders
- Excellent fertility

Two-year-old daughter.  
Owner: Manuka Downs Trust, Hamilton

### Breeding Details

<b>Breeder</b>	S & K Anderson	<b>Dam</b>	Aponga Pair ET
<b>Sire</b>	Fairmont Mint-Edition	<b>MGS</b>	Tawa Grove Maunga ET SJ3

### Production BVs

2150 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
20 kg	12 kg	36 l	-19 kg	4.8 %
5.1 %	4.0 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
0.11	-0.01	324 days	-0.6 %	-3.5 days

### TOP traits

72 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.21				
Capacity	.14				
Udder Overall	.57				
Dairy Conformation	.34				

Individually

\$21.35<sup>+</sup>gst

AE 11/02/2019

Economy Packs from

\$14.13<sup>+</sup>gst

\*Includes 10% InvestaMate discount

AE 11/02/2019



## 511026 Arkans **Beaut** ET

KiwiCross® F9J7

BW \$168/99% REL



- A1A2
- Capacious daughters
- Shorter gestation

Two-year-old daughter.  
Owner: S & K Anderson, Otorohanga

### Breeding Details

<b>Breeder</b>	S & K Anderson	<b>Dam</b>	Arkan Beautiful-ET S0F
<b>Sire</b>	Nevron Showman	<b>MGS</b>	Telesis Evon Firenze

### Production BVs

19810 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
20 kg	23 kg	342 l	3 kg	0.4 %
4.8 %	4.0 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.34	0.09	392 days	-0.5 %	-7.3 days

### TOP traits

208 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.22				
Capacity	.38				
Udder Overall	.25				
Dairy Conformation	.27				

## 511051 Drysdale's **Sovereign**

KiwiCross® F8J8

BW \$169/99% REL



- A2A2
- Extreme capacity
- Fantastic udders

Fertility 1 carrier

Two-year-old daughter.  
Owner: Jems Family Trust, Opunake

### Breeding Details

<b>Breeder</b>	G & G Drysdale	<b>Dam</b>	CBBP-06-15
<b>Sire</b>	Priests Solaris-ET	<b>MGS</b>	Scotts Northsea

### Production BVs

23356 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
16 kg	11 kg	70 l	-2 kg	2.8 %
5.0 %	4.0 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.42	0.33	409 days	-1.3 %	-5.5 days

### TOP traits

274 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.41				
Capacity	.95				
Udder Overall	.71				
Dairy Conformation	.67				

## 513066 Mouries **Luigi**

KiwiCross® F6J10

BW \$188/85% REL



- A2A2
- Excellent udders
- Low somatic cells

Fertility 1 carrier

Two-year-old daughter.  
Owner: S & C Terry, Te Kuiti

### Breeding Details

<b>Breeder</b>	S & K Mourie	<b>Dam</b>	Carolina
<b>Sire</b>	Scotts Bristestar	<b>MGS</b>	Priests Solaris-ET

### Production BVs

88 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
12 kg	16 kg	61 l	-30 kg	1.5 %
4.9 %	4.1 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.35	0.16	398 days	-1.7 %	2.8 days

### TOP traits

71 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.17				
Capacity	.08				
Udder Overall	.71				
Dairy Conformation	-.08				

## 514015 Glen Koru **Ethos**-ET S1F

KiwiCross® F14J2

BW \$166/93% REL



- A1A2
- Higher Friesian content
- High production

Two-year-old daughter.

Owner: P & C Shortt, Te Awamutu

### Breeding Details

<b>Breeder</b>	D & K Camp	<b>Dam</b>	Glen Koru O-B Eden-ET S0F
<b>Sire</b>	Greenwell TF Blitz-ETS3F	<b>MGS</b>	O-Bee Manfred Justice-ET

### Production BVs

260 Daughters

Milkfat	Protein	Milk	Liveweight	Fertility
48 kg	35 kg	803 l	52 kg	0.0 %
4.9 %	3.9 %			

Somatic Cell Count	Body Condition	Total Longevity	Calving Difficulty	Gestation Length
-0.24	0.01	212 days	-1.8 %	-4.0 days

### TOP traits

228 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Overall Opinion	.01				
Capacity	.08				
Udder Overall	.36				
Dairy Conformation	.30				

Individually

\$21.35<sup>+gst</sup>

AE 11/02/2019

Economy Packs from

\$14.13<sup>+gst</sup>

\*Includes 10% InvestaMate discount

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## KiwiCross® Also Available

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		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	Dairy Conformation BV	Calving Difficulty BV	Gestation Length BV	A2 Protein	Price (+ GST)
515100	Morgans <b>Mitigate</b> F6J10	214	81	29	28	362	-13	-0.1	-0.23	378	0.33	0.60	-0.20	0.31	3.1	-5.9	A2A2	\$16.95
515050	Rhantana <b>Optimist</b> ET F12J4	201	79	31	36	740	7	1.7	-0.11	347	-0.07	0.56	0.10	0.59	-0.2	2.1	A2A2	\$16.95
508140	Howies <b>Easyrider</b> F7J9 ^	190	99	25	3	-353	-22	2.0	0.20	336	0.08	0.75	0.26	0.48	-1.5	-3.9	A1A2	\$14.95
510003	Arkans <b>Promoter</b> F7J9	189	99	15	-4	-810	-39	1.6	0.03	284	-0.23	0.55	0.22	0.23	-1.9	-6.2	A1A2	\$14.95
513054	Burgess <b>Trickshot</b> ET F8J8 ^	189	84	36	27	740	-17	0.3	-0.19	306	0.25	-0.02	-0.03	0.15	1.2	-6.4	A2A2	\$14.95
513067	Colfols <b>Crikey</b> F7J9 ^	181	99	10	-4	-538	-32	7.5	-0.08	385	0.17	-0.10	0.44	-0.03	-2.1	-1.8	A2A2	\$14.95
508077	Howies <b>Checkpoint</b> F9J7 ↑	177	99	29	17	35	-15	-2.4	0.12	321	0.27	-0.07	-0.21	0.01	-1.9	-5.2	A2A2	\$14.95
514064	Lynskys <b>Aced It</b> F8J7	177	97	26	17	80	-19	0.4	-0.11	264	0.35	-0.31	0.11	0.01	-1.8	-5.7	A2A2	\$14.95
512037	Greenmile <b>Game Day</b> F8J8	177	85	27	21	131	2	1.6	0.40	366	0.67	0.65	0.14	0.58	-0.9	-6.9	A1A2	\$14.95
515077	Taramont <b>Hydro</b> F10J6	173	83	33	20	428	18	5.2	0.14	401	0.16	0.01	0.52	0.06	0.9	-0.1	A1A2	\$16.95
515056	Greenmile <b>Persia</b> F7J9	172	82	5	8	-10	-26	4.4	-0.56	429	0.47	0.79	0.22	0.51	0.3	-9.9	A1A2	\$14.95
514041	Burgess <b>Touchdown</b> F10J6	166	88	21	22	376	-14	-0.6	-0.03	400	0.32	-0.11	-0.03	0.04	-1.7	-2.4	A2A2	\$12.95
509047	Ambrose <b>Super Stan</b> F4J11A1	165	99	13	8	-147	-59	-1.7	-0.29	189	0.52	0.10	-0.01	0.03	-1.0	-0.6	A1A2	\$12.95
508154	Priests <b>Solaris</b> -ET F6J10 ^	164	99	9	10	17	0	2.2	-0.99	392	0.70	1.10	0.49	0.91	-1.5	-6.4	A2A2	\$12.95
513015	Horizon <b>Conscript</b> ET F7J9	162	87	11	14	296	-19	3.3	-0.28	493	0.08	0.41	0.36	0.40	-0.7	0.6	A2A2	\$12.95
515018	Lynbrook <b>Krypton</b> ET F7J8A1	162	81	33	29	912	19	4.2	0.14	433	0.48	0.95	0.43	0.74	-1.7	-3.9	A1A2	\$12.95
511028	Arkans <b>Blockbuster</b> F8J8	161	99	12	4	-299	-28	3.2	-0.16	279	0.41	0.35	0.02	0.24	-1.1	-4.5	A1A2	\$12.95
513007	Arkans <b>Best Bet</b> F8J8	158	88	26	20	215	23	0.4	0.01	423	0.33	0.38	0.46	0.47	1.2	-7.3	A1A1	\$12.95
515032	Howses <b>Standout</b> F9J7	155	79	23	19	159	-7	2.2	0.35	285	0.14	0.69	1.10	0.60	2.3	0.5	A1A2	\$12.95
511052	Moodys <b>Executive</b> F6J10	151	99	8	19	301	-18	4.8	-0.22	279	0.08	0.87	0.02	0.53	-0.9	-3.6	A2A2	\$12.95
515024	Kraakmans <b>Explorer</b> ET F10J6	146	88	16	14	52	-44	0.0	0.04	114	-0.17	0.01	-0.12	-0.13	0.2	-7.3	A2A2	\$12.95
515059	Taunts <b>Revenge</b> F6J10	143	82	29	15	54	28	4.9	0.36	259	0.45	0.75	0.53	0.75	-0.7	-3.4	A2A2	\$12.95
509035	Mills <b>Magnificence</b> F7J9	143	96	11	2	-316	-29	0.0	-0.22	308	-0.07	0.09	0.52	0.01	0.7	-2.5	A1A2	\$12.95
514014	Greenwell <b>Breakthrough</b> ET F13J3	142	92	19	24	385	29	3.2	-0.12	424	0.52	0.19	0.47	0.24	-1.1	-5.4	A2A2	\$12.95
512020	Collins <b>Challenge</b> F6J9 ↑	139	96	18	13	38	-44	-3.5	0.40	196	0.14	-0.03	0.04	-0.03	0.1	-6.7	A2A2	\$10.95
513099	Arkans <b>Beacon</b> F11J5 ^	137	99	23	16	256	13	2.2	0.11	390	0.09	-0.10	0.53	0.14	2.0	-3.9	A1A2	\$10.95
514084	Greenmile HC <b>Milan</b> F9J7	135	97	21	17	178	-14	-0.9	0.30	218	0.01	0.19	0.14	0.07	-1.8	-8.3	A2A2	\$10.95
514047	Taramont <b>Hightide</b> F9J7	135	98	24	18	122	17	2.9	0.26	239	0.25	0.27	-0.06	0.29	-0.7	1.8	A1A2	\$10.95
512024	Werders <b>Prelude</b> F10J6	133	86	10	26	445	19	3.0	-0.18	399	0.28	0.76	0.58	0.61	0.5	-4.5	A2A2	\$10.95
511014	Kraakmans <b>Lionheart</b> F9J7	132	98	25	6	-51	-6	0.2	-0.29	133	-0.05	0.20	0.61	0.20	-0.2	-2.5	A1A2	\$10.95
508071	McDonalds <b>Tweed</b> -ET F5J11 ^	131	99	4	-11	-645	-35	2.6	-0.39	137	0.24	1.02	0.36	0.58	-2.0	-0.4	A2A2	\$10.95
510014	Paynes <b>Propagator</b> F8J8	124	99	24	15	98	3	-0.3	0.10	118	-0.01	0.50	0.10	0.42	0.0	-4.3	A1A2	\$10.95
513070	Highgarth <b>Ricochet</b> F6J10	124	97	5	7	123	-43	1.3	-0.29	269	0.26	0.10	0.28	0.10	-1.2	2.6	A2A2	\$10.95
512051	Arkans <b>Instigator</b> F7J8	123	82	18	23	533	16	-1.6	-0.53	308	0.22	0.85	0.64	0.72	-0.4	-2.3	A1A2	\$10.95
506063	Cutforths <b>Lord Brian</b> F5J7A4	122	99	11	10	-165	-3	-0.9	-0.41	219	0.07	-0.02	0.36	0.02	-1.6	0.2	A1A1	\$10.95
511007	Castlegrace <b>Mako</b> F7J9	121	99	10	11	-309	16	1.7	-0.09	159	0.33	0.79	0.07	0.50	-1.2	-5.5	A2A2	\$10.95
507056	Ryes <b>Rhythm</b> F7J9 ↑	119	99	9	0	-60	-26	3.1	-0.17	347	-0.18	0.04	0.35	0.12	-0.3	-0.2	A2A2	\$8.95
515091	Derrynane <b>Debut</b> F10J6	115	90	17	14	-14	31	3.2	0.30	366	0.52	0.37	0.62	0.29	0.4	-7.8	A2A2	\$8.95
510018	Just Once <b>Finn</b> F5J11	115	99	13	3	-282	0	0.4	0.13	271	0.42	0.74	0.35	0.41	-2.1	-4.6	A2A2	\$8.95
510057	Ewings <b>Ivory</b> F6J10	109	99	22	8	-274	-5	-0.8	0.59	62	0.06	0.47	0.34	0.59	-1.1	-3.5	A1A2	\$8.95
512035	Ettrick <b>Thunderball</b> F5J11	109	88	13	5	-97	-31	-1.6	-0.24	-8	0.20	0.44	0.87	0.46	-1.7	-2.5	A2A2	\$8.95
507086	Woods <b>Equinox</b> F7J9 ↑	109	99	9	6	-212	-8	2.1	0.18	265	0.38	0.36	0.49	0.49	-0.9	-3.5	A2A2	\$8.95
511045	Cawdor <b>Pharoah</b> F5J11	107	99	2	8	-80	-22	1.7	-0.37	298	0.19	0.01	0.03	0.14	0.1	3.6	A2A2	\$8.95
507019	Mitchells <b>Priority</b> F10J6 ↑	104	96	20	20	601	26	3.8	-0.04	234	0.06	0.90	0.50	0.74	0.4	-4.4	A1A2	\$8.95
510040	Hazaels <b>Delight</b> F8J8	101	99	13	5	64	-3	0.6	-0.12	345	0.37	0.18	0.34	0.37	-1.2	3.4	A2A2	\$8.95
506104	Nevron <b>Showman</b> F6J10	101	99	8	19	309	-6	-0.6	-0.12	243	0.11	0.18	0.52	0.29	-0.8	2.0	A1A2	\$8.95

↑ SCS carrier    ^ Recessive Fertility Gene carrier

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How can you  
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**Ayrshire**

## 511597 Southwind Jacks **Quintin**

Ayrshire A16

Registered Ayrshire

BW

\$91/92%

REL



Individually

\$21.35<sub>+gst</sub>

Ayrshire Packs from

\$17.37\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	A & H Jane	<b>Dam</b>	Southwind KC Queenet ET
<b>Sire</b>	Pa Hill Blaze Jack ET	<b>MGS</b>	Kilfennan Challenge

### Production BVs

226 Daughters 37 Herds

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
6 kg	4 kg	236 l	-17 kg
4.6 %	3.7 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
2.9 %	-0.23	-0.02	263 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
399 days	-0.4 %	-6.2 days

### TOP traits

123 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.60				
Shed Temperament	.57				
Milking Speed	.28				
Overall Opinion	.61				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.61				
Capacity	.46				
Rump Angle	-.04				
Rump Width	-.16				
Legs	.03				
Udder Support	.25				
Front Udder	.42				
Rear Udder	-.07				
Front Teat Placement	.15				
Rear Teat Placement	.28				
Udder Overall	.22				
Dairy Conformation	.37				

New Zealand Genetics NA %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1107	A2 Protein	A1A1
High Input	1178		

## 512502 Greenlane **Toledo**

Ayrshire A16

Registered Ayrshire

BW

\$41/77%

REL



Two-year-old daughter. Owner: Liam Newton, Stratford

Individually

\$21.35<sub>+gst</sub>

Ayrshire Packs from

\$17.37\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	Tahuna Pastoral Co Ltd	<b>Dam</b>	Greenlane Julli Lisa
<b>Sire</b>	Asmo Tosikko ET	<b>MGS</b>	Hirvivainion Julli

### Production BVs

46 Daughters 19 Herds

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
7 kg	7 kg	91 l	-7 kg
4.8 %	3.9 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-4.8 %	-0.81	-0.14	-10 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
0 days	-1.7 %	-1.8 days

### TOP traits

29 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.82				
Shed Temperament	.77				
Milking Speed	.25				
Overall Opinion	.69				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.33				
Capacity	.10				
Rump Angle	.24				
Rump Width	-.21				
Legs	.03				
Udder Support	.17				
Front Udder	.43				
Rear Udder	.03				
Front Teat Placement	.03				
Rear Teat Placement	-.10				
Udder Overall	.24				
Dairy Conformation	-.01				

New Zealand Genetics NA %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1111	A2 Protein	A2A2
High Input	1094		



## 515514 Sanrosa Dalton ET

Ayrshire A16

Registered Ayrshire

BW

\$1/70%

REL



Two-year-old daughter. Owner: G &amp; J Glentworth, Hawera

Individually \$21.35<sub>+gst</sub>

Ayrshire Packs from \$17.37\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	G & J Glentworth	<b>Dam</b>	SanrosaDella06-128
<b>Sire</b>	Ojaniityn Rumba	<b>MGS</b>	Asmo Omatunto

## Production BVs

49 Daughters 19 Herds

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
17 kg	28 kg	775 l	24 kg
4.4 %	3.8 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-10.0 %	-0.17	-0.20	-45 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
-65 days	-0.7 %	-2.5 days

## TOP traits

35 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.47				
Shed Temperament	.47				
Milking Speed	-.18				
Overall Opinion	.34				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.27				
Capacity	.49				
Rump Angle	.36				
Rump Width	.17				
Legs	.00				
Udder Support	.18				
Front Udder	.09				
Rear Udder	-.01				
Front Teat Placement	-.13				
Rear Teat Placement	.33				
Udder Overall	.07				
Dairy Conformation	.31				

New Zealand Genetics NA %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1114	A2 Protein	A2A2
High Input	1149		

## 515503 Iwa Super Sonic

Ayrshire A16

Registered Ayrshire

BW

\$45/71%

REL



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

Individually \$21.35<sub>+gst</sub>

Ayrshire Packs from \$17.37\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

## Breeding Details

<b>Breeder</b>	Iwa Syndicate	<b>Dam</b>	SanrosaSnowie11-260ET
<b>Sire</b>	Salt Spray Bonny George	<b>MGS</b>	Asmo Tosikko ET

## Production BVs

54 Daughters 21 Herds

## Production Efficiency

Milkfat	Protein	Milk Volume	Liveweight
16 kg	11 kg	314 l	-3 kg
4.8 %	3.8 %		

## Robustness

Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-5.1 %	-0.55	-0.22	-3 days

## Other

Total Longevity	Calving Difficulty	Gestation Length
9 days	0.2 %	-0.6 days

## TOP traits

20 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.42				
Shed Temperament	.49				
Milking Speed	-.04				
Overall Opinion	.37				
Conformation	BV	-0.5	0	0.5	1.0
Stature	-.31				
Capacity	.13				
Rump Angle	.04				
Rump Width	-.25				
Legs	-.05				
Udder Support	.53				
Front Udder	.54				
Rear Udder	.48				
Front Teat Placement	.14				
Rear Teat Placement	.34				
Udder Overall	.58				
Dairy Conformation	.16				

New Zealand Genetics NA %

AE 11/02/2019

## LIC Initiatives

Once-A-Day	1147	A2 Protein	A2A2
High Input	1178		

## 513521 Sanrosa Deacon ET

Ayrshire A16  
Registered Ayrshire

BW \$72/71% REL



Two-year-old daughter. Owner: G & J Glentworth, Hawera

Individually \$21.35<sub>+gst</sub> Ayrshire Packs from \$17.37\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	G & J Glentworth	<b>Dam</b>	Sanrosa Della 06-128
<b>Sire</b>	Asmo Tosikko ET	<b>MGS</b>	Asmo Omatunto

### Production BVs 32 Daughters 20 Herds

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
28 kg	27 kg	759 l	20 kg
4.6 %	3.7 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-6.8 %	-0.35	-0.12	-85 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
52 days	2.2 %	-2.9 days

### TOP traits 15 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.28				
Shed Temperament	.28				
Milking Speed	-.13				
Overall Opinion	.23				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.19				
Capacity	.14				
Rump Angle	.29				
Rump Width	-.11				
Legs	-.01				
Udder Support	.29				
Front Udder	.31				
Rear Udder	.14				
Front Teat Placement	-.05				
Rear Teat Placement	.32				
Udder Overall	.27				
Dairy Conformation	.04				

New Zealand Genetics NA %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1171	A2 Protein	A2A2
High Input	1214		

## 514509 Iwa Snows Rumba ET

Ayrshire A16  
Registered Ayrshire

BW \$-18/77% REL



Two-year-old daughter. Owner: Rangeview Farming Ltd., Norsewood

Individually \$21.35<sub>+gst</sub> Ayrshire Packs from \$17.37\*<sub>+gst</sub>

\*Includes 10% InvestaMate discount

### Breeding Details

<b>Breeder</b>	Iwa Syndicate	<b>Dam</b>	Lodore Phils Snowie
<b>Sire</b>	Ojaniityn Rumba	<b>MGS</b>	Sanrosa Royal Phillip

### Production BVs 70 Daughters 25 Herds

Production Efficiency			
Milkfat	Protein	Milk Volume	Liveweight
37 kg	21 kg	699 l	58 kg
4.8 %	3.7 %		

Robustness			
Fertility	Somatic Cell Count	Body Condition Score	Residual Survival
-6.0 %	0.38	-0.21	-242 days

Other		
Total Longevity	Calving Difficulty	Gestation Length
-236 days	0.8 %	-2.7 days

### TOP traits 26 Daughters TOP Inspected

Management	BV	-0.5	0	0.5	1.0
Adapts to Milking	.79				
Shed Temperament	.76				
Milking Speed	.45				
Overall Opinion	.75				
Conformation	BV	-0.5	0	0.5	1.0
Stature	.79				
Capacity	.66				
Rump Angle	.17				
Rump Width	.50				
Legs	-.05				
Udder Support	.06				
Front Udder	-.11				
Rear Udder	-.11				
Front Teat Placement	.03				
Rear Teat Placement	.23				
Udder Overall	.00				
Dairy Conformation	.56				

New Zealand Genetics NA %

AE 11/02/2019

### LIC Initiatives

Once-A-Day	1107	A2 Protein	A1A2
High Input	1120		

## Young Unproven Ayrshire

519500 Brookview D **Extreme**

Registered Ayrshire

A1A2

BW

\$0/31 %

REL

**Breeding Details**

Sire	Sanrosa Deacon ET
Dam	Brookview Lots Elsie
MGS	Plum-Bottom Trident's Lot

**Production BVs**

Milkfat	Protein	Milk	Liveweight
14 kg	15 kg	508 l	21 kg
4.6 %	3.7 %		

519501 Iwa **Snowman**

Registered Ayrshire

A1A2

BW

\$-37/29 %

REL

**Breeding Details**

Sire	Purolan Orkko
Dam	Sanrosa Snowie 11-260 ET
MGS	Asmo Tosikko ET

**Production BVs**

Milkfat	Protein	Milk	Liveweight
4 kg	5 kg	206 l	21 kg
4.6 %	3.7 %		

519502 Lodore **Jackman** ET

Registered Ayrshire

A2A2

BW

\$35/33 %

REL

**Breeding Details**

Sire	Sanrosa Deacon ET
Dam	Lodore Brody Jebbie ET
MGS	Carmelglen Brody

**Production BVs**

Milkfat	Protein	Milk	Liveweight
20 kg	18 kg	665 l	13 kg
4.5 %	3.7 %		

519503 Lodore **Jackson** ET

Registered Ayrshire

A1A2

BW

\$35/33 %

REL

**Breeding Details**

Sire	Sanrosa Deacon ET
Dam	Lodore Brody Jebbie ET
MGS	Carmelglen Brody

**Production BVs**

Milkfat	Protein	Milk	Liveweight
20 kg	18 kg	665 l	13 kg
4.5 %	3.7 %		

519504 Lodore **Jason** ET

Registered Ayrshire

A2A2

BW

\$35/33 %

REL

**Breeding Details**

Sire	Sanrosa Deacon ET
Dam	Lodore Brody Jebbie ET
MGS	Carmelglen Brody

**Production BVs**

Milkfat	Protein	Milk	Liveweight
20 kg	18 kg	665 l	13 kg
4.5 %	3.7 %		

519505 Lodore **Jensen** ET

Registered Ayrshire

A1A2

BW

\$35/33 %

REL

**Breeding Details**

Sire	Sanrosa Deacon ET
Dam	Lodore Brody Jebbie ET
MGS	Carmelglen Brody

**Production BVs**

Milkfat	Protein	Milk	Liveweight
20 kg	18 kg	665 l	13 kg
4.5 %	3.7 %		

519506 Lodore **Risque** ET

Registered Ayrshire

A1A2

BW

\$76/37 %

REL

**Breeding Details**

Sire	Sanrosa Deacon ET
Dam	Lodore Brody Royal ET
MGS	Carmelglen Brody

**Production BVs**

Milkfat	Protein	Milk	Liveweight
22 kg	17 kg	501 l	9 kg
4.7 %	3.8 %		

519507 Lodore **Ritual** ET

Registered Ayrshire

A2A2

BW

\$76/37 %

REL

**Breeding Details**

Sire	Sanrosa Deacon ET
Dam	Lodore Brody Royal ET
MGS	Carmelglen Brody

**Production BVs**

Milkfat	Protein	Milk	Liveweight
22 kg	17 kg	501 l	9 kg
4.7 %	3.8 %		

519508 Lodore **Romance** ET

Registered Ayrshire

A1A2

BW

\$76/37 %

REL

**Breeding Details**

Sire	Sanrosa Deacon ET
Dam	Lodore Brody Royal ET
MGS	Carmelglen Brody

**Production BVs**

Milkfat	Protein	Milk	Liveweight
22 kg	17 kg	501 l	9 kg
4.7 %	3.8 %		

519509 Lodore **Ruler**

Registered Ayrshire

A1A2

BW

\$36/31 %

REL

**Breeding Details**

Sire	Greenlane Toledo
Dam	Lodore Karis Royal
MGS	Southwind Inkkari

**Production BVs**

Milkfat	Protein	Milk	Liveweight
8 kg	6 kg	172 l	4 kg
4.7 %	3.8 %		

519510 Musica DJ **Clef**

Registered Ayrshire

A1A2

\$-17/22 %  
BW REL

## Breeding Details

Sire	Sanrosa Dee Jay ET
Dam	Musica 13-67
MGS	Lodore Blake

## Production BVs

Milkfat	Protein	Milk	Liveweight
14 kg	15 kg	628 l	31 kg
4.4 %	3.6 %		

519511 Musica DJ **Treble**

Registered Ayrshire

A1A2

\$-12/23 %  
BW REL

## Breeding Details

Sire	Sanrosa Dee Jay ET
Dam	Musica 11-20
MGS	Carmelglen Brody

## Production BVs

Milkfat	Protein	Milk	Liveweight
12 kg	14 kg	415 l	35 kg
4.6 %	3.8 %		

519512 Musica **Tromboner**

Registered Ayrshire

A1A2

\$9/23 %  
BW REL

## Breeding Details

Sire	Sanrosa Dynamite ET
Dam	Musica 13-25
MGS	Carmelglen Brody

## Production BVs

Milkfat	Protein	Milk	Liveweight
13 kg	16 kg	594 l	25 kg
4.4 %	3.7 %		

519513 Rangeview Blues **Teacher**

Registered Ayrshire

A1A2

\$43/35 %  
BW REL

## Breeding Details

Sire	Musica Blues S3A
Dam	Rangeview Phils Lesson
MGS	Sanrosa Royal Phillip

## Production BVs

Milkfat	Protein	Milk	Liveweight
11 kg	8 kg	379 l	-10 kg
4.6 %	3.7 %		

519514 Rangeview Deacons **Luke ET**

Registered Ayrshire

A1A2

\$37/34 %  
BW REL

## Breeding Details

Sire	Sanrosa Deacon ET
Dam	Rangeview Phils Lesson
MGS	Sanrosa Royal Phillip

## Production BVs

Milkfat	Protein	Milk	Liveweight
15 kg	20 kg	688 l	9 kg
4.4 %	3.7 %		

519515 Sanrosa **Liam**

Registered Ayrshire

A1A2

\$28/33 %  
BW REL

## Breeding Details

Sire	Sanrosa Deacon ET
Dam	Sanrosa Lantern 09-262
MGS	Sanrosa Royal Phillip

## Production BVs

Milkfat	Protein	Milk	Liveweight
14 kg	22 kg	638 l	18 kg
4.4 %	3.7 %		

Individually

\$14.75  
+gst

Choice Pack

\$13.12  
+gst

No Choice Pack

\$4.50  
+gst

## Ayrshire Also Available

AE 11/02/2019

		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	Dairy Conformation BV	Calving Difficulty BV	Gestation Length BV	A2 Protein	Price (+GST)
514613	Te Matai <b>Elvis</b>	54	95	-6	6	277	-37	1.5	-0.17	177	0.36	0.27	-0.16	0.04	-0.2	-1.8	A1A2	\$12.95
504522	Southwind <b>Jarmo</b>	48	99	15	10	340	-9	-1.4	-0.04	76	-0.05	-0.02	-0.17	-0.14	-1.1	-2.6	A1A2	\$12.95
512508	Lodore <b>Tropical</b>	43	77	8	-1	-74	-12	-0.2	-0.66	-95	0.42	0.13	0.63	0.00	-0.3	-1.3	A2A2	\$12.95
508505	Lodore <b>Blake</b>	32	94	15	8	623	-13	-3.1	0.23	239	0.47	-0.06	0.09	-0.32	-1.3	3.2	A1A1	\$8.95
510544	Pa Hill Brody <b>Ivo ET</b>	30	89	0	6	180	-33	-7.0	-0.37	107	0.33	0.12	-0.06	-0.12	-0.1	-2.2	A1A2	\$8.95
504534	Carmelglen <b>Brody</b>	13	99	4	4	244	6	0.8	-0.08	63	0.82	0.32	-0.07	0.03	-0.2	0.8	A2A2	\$8.95
504515	Sanrosa <b>Dice</b>	5	87	-5	1	-42	-15	-0.7	-0.03	6	0.21	0.16	0.12	-0.13	-2.4	1.8	A1A1	\$8.95
513520	Sanrosa <b>Danny Boy</b>	-2	75	12	13	530	40	-6.2	-0.40	220	0.27	0.60	0.14	0.43	-1.5	1.1	A1A1	\$8.95
508530	Te Matai <b>Protein Pak</b>	-3	97	-6	8	352	-23	-2.1	0.15	19	0.30	0.44	-0.21	0.21	0.8	-3.1	A2A2	\$8.95
501526	Semayr Kilbarchan <b>Merv</b>	-11	96	-9	1	-7	-33	-5.5	-0.04	85	0.08	0.03	-0.43	-0.22	-2.2	0.4	A2A2	\$8.95
510539	Lodore <b>Snapshot ET</b>	-35	92	-5	-15	-352	-25	-4.5	0.23	-7	0.50	0.46	0.16	0.16	-1.6	-0.2	A2A2	\$8.95



515600 Bjerring **BJ Curveball**

Milking Shorthorn  
Registered Pedigree

**Breeding Details**

<b>Breeder</b>	W & C Bjerring	<b>Dam</b>	Landlyst 04-3 S0S
<b>Sire</b>	Birchlands Eccles ET	<b>MGS</b>	Te Kiripi Astronaut MR2

Individually \$15.00<sub>+gst</sub>

517719 Brecon **Lord Harry**

Milking Shorthorn  
Registered Pedigree (Supplementary)

**Breeding Details**

<b>Breeder</b>	Red Cow Farms Ltd	<b>Dam</b>	Brecon ND Lucy S0S
<b>Sire</b>	Beaulands Hilly	<b>MGS</b>	Northbrook Duncan S0S
<b>Blend</b>	AUR 8, SHM 4, FRI 2, NWR 1, SWR 1		

Individually \$15.00<sub>+gst</sub>

514596 Brecon **Harold S1S**

Milking Shorthorn  
Registered Pedigree (Supplementary)

**Breeding Details**

<b>Breeder</b>	Red Cow Farms Ltd	<b>Dam</b>	Brecon Turbo 277 S0S
<b>Sire</b>	Brecon Jamiroquoi S0S	<b>MGS</b>	Northbrook Turbo S0S
<b>Blend</b>	SWR 6, SHM 4, NWR 2, AYR 2, FRI 2		

Individually \$14.00<sub>+gst</sub>

TBA Brecon **Eduardo P**

Milking Shorthorn  
Registered Pedigree (Supplementary)

**Breeding Details**

<b>Breeder</b>	Red Cow Farms Ltd	<b>Dam</b>	Brecon ND Eliza S1S
<b>Sire</b>	Brecon Bart S1S	<b>MGS</b>	Northbrook Duncan S0S
<b>Blend</b>	SHM 8, FRI 4, SWR 2, NWR 1		

Individually \$16.00<sub>+gst</sub>

518561 Vinland



Brown Swiss  
Registered Pedigree (Germany)

Breeding Details			
Sire	Viking	Dam	Nessi
MGS	Emsland		

Individually \$20.00  
+gst

518562 Verdi



Brown Swiss  
Registered Pedigree (Germany)

Breeding Details			
Sire	Versace	Dam	Idro
MGS	Pronto		

Individually \$20.00  
+gst

519552 David



Brown Swiss  
Registered Pedigree (Germany)

Breeding Details			
Sire	Dane	Dam	Palida
MGS	Vivid		

Individually \$20.00  
+gst



Q.

What gives you  
more opportunities?

A.

Alternative AB



# 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® gives cows a longer period to recover increasing their chances of getting back in calf to AB.

2018 sales activity of SGL Dairy® is expected to generate in excess of \$9 million in additional revenue to the New Zealand dairy farmer in the upcoming 2019 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.

Frozen	- 21 days	\$16.25
Fresh (Including technician)		Premier Sires sliding Scale
Fresh DIY		

\*InvestaMate and volume discounts may apply (see page 128)



## Wagyu

### Dairy Beef Contract Opportunities

Wanting another income option? LIC in conjunction with First Light are offering 10-30 day old or 90Kg contracts, for male and female offspring.

Wagyu is a Japanese beef breed, often considered as the 'Rolls Royce' of beef known for its meat being sweet, nutty, juicy, and tender with high marbling, making the meat succulent and delicious.

Frozen	\$16.85
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\*InvestaMate and volume discounts may apply (see page 128)





### Short Gestation Length (SGL) Hereford

SGL Hereford is New Zealand's leading short gestation product, offering farmers the ability to achieve more days in milk while producing a calf that is easily identifiable compared to your AB dairy replacements.

SGL Hereford activity from 2018 is expected to generate in excess of \$4 million in additional revenue to the New Zealand dairy farmer through additional days in milk, in the upcoming 2019 season.

All SGL Hereford semen is supplied through an exclusive agreement between LIC and Shrimpton's Hill Herefords.

Shrimpton's Hill's short gestation programme was established in 2001, today they are the breeders of the leading Herefords, both male and female in Australasia for Short Gestation Length.

The McKerchar's Shrimpton's Hill Hereford Stud, first established by John's father in 1969, pride themselves in providing LIC with Herefords specifically bred for gestation length and calving ease for New Zealand's dairy farmers.

Frozen		\$12.45
Fresh (Including technician)*	- 8 days	\$17.40
Fresh DIY*		\$16.40

\*Contributes to Premier Sires Sliding Scale

InvestaMate and volume discounts may apply (see page 128)

Beef information is within breed only. Heterozygous polled bulls included in packs



# Angus

Angus cattle are a black beef breed that can be traced in Scottish history as far back as the 16th century.

Angus is known for its finely marbled meat, which means that the fat is dispersed evenly against the actual cut of meat. The marbling trait of Angus typically creates a tender, juicy, flavourful meat compared to some other beef breeds.

LIC has for many years been working with both the Rissington Cattle Company and Waigroup Angus for the supply of our Angus semen, which is selected for known traits that can make a real difference in cow herd profitability.

Angus advantages include

- Naturally polled
- Low birthweights
- Short gestation
- Calving ease
- Carcass quality with high growth rates

Beef Pack		\$9.75
SGL Angus Pack	-10 days	\$12.45

\*InvestaMate and volume discounts may apply (see page 128)







## Speckle Park

Speckle Park originated from British White Park crossed with a Shorthorn/Angus, and have over 60 years of breeding.

Speckle Park are polled, medium frame (mature cow 650-800kg and mature bull 1000-1200kg), early maturing and incredible yielding carcass with impressive weight gains targeting 18 month markets

Speckle Park animals are high marbling yet possess a perfect fat covering resulting in an impressive quality, fine tender eating meat

Speckle Park progeny are attractive and easy on the eye with three distinctive colour patterns; white, leopard and speckle.

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

Code	Name	Colour	Sire	Dam	Price
716061	Maungahina <b>Kidmans Cove</b>	Leopard	SPKNZ Falcon (ET)(P)	MainstreamE12(ET)(P)	\$22.00
718032	Maungahina <b>Maximus</b>	White	Maungahina King of Kings(MAU)	Spknz E36(ET)(SPNE36)	\$20.00
TBC	Maungahina <b>Northern Star</b>	White	Maungahina Kidmans Cove	SPN H6 (P) White	\$20.00
717176	Maungahina <b>Lord Stars</b>	Leopard	SPN Grand Slam (ET)(P)	MainstreamE12(ET)(P)	\$18.00
TBC	Maungahina <b>Montego Bay</b>	Leopard	SPKNZ Eldorado E11	SPKNZ E3 (ET) (P) White	\$18.00

\*InvestaMate and volume discounts may apply (see page 128)

LIC has been purchasing Speckle Park semen exclusively through Maungahina Stud since 2011.

The McKenzie family, based just out of Masterton, have been running the Maungahina Stud since 1907.

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



## Stabilizer®

Stabilizer® are dual-purpose, multi-breed composite cattle that combine the fleshing ability, marbling and moderate size of the British breeds with the muscle, milk and growth of the European breeds.

Focus Genetics and Hazlett Ltd have joined forces to create the United Dairy Beef Partnership enabling farmers access to top beef genetics with calf rearing and finishing opportunities.

Stabilizer advantages include

- Low birthweights (around 36kg over crossbred cows\*)
- Accelerated growth from birth

- Less cost to wean and earlier finishing
- Increased intra-muscular fat and yields
- Increased carcass weight 30-50kg
- Solid colour progeny that are easily identifiable
- 282 average gestation length

\*Dairy Beef Progeny Test (Massey University & B+LNZG)

- As part of their sire offering Focus Genetics provide a unique opportunity to purchase Stabilizer® semen through LIC which have been proven to provide increased calf growth and carcass values.
- Stabilizer® comes in two colours, Black and Red.



\$18.00\* Per Straw

\*InvestaMate and volume discounts may apply (see page 128)



Stabilizer® is a registered trademark of Focus Genetics



## Beef Bulls

Code	Breed	Name	Sire	Dam	Price (+ GST)
716005	Dexter	Jimaris Oakley Cruise	Whare Ra Cruise	Summer Wine Elleen Og	\$20.00
717080	Galloway (Belted)	Lilliesleaf Arrow 780 (Black)	Southfield Double -O- Seven (UK)	Lilliesleaf Amici 445	\$35.00
717134	Galloway (Belted)	Lilliesleaf Wallis 1173 (Black)	Clanfingon Limelight (AUS)	Balcairn Isadora 83	\$35.00
711004	Galloway	Suncrest Arctiv Bayley (White)	Ngutunui White David	Ngutunui White Thea 3498	\$35.00
711005	Galloway	Whisperings Jasper (White)	Glacier White Yak * 73 (GL)	Colvend Lizzy 352 (CV)	\$35.00
709055	Galloway	Belvedere Buster (White)	Ngutunui White Dallas	Ngutunui White Elza	\$40.00
711052	Galloway	Tullamore Dusky Joe 93 (Dun)	Tullamore Dusky Lad 130	Colvend Lizzy 348	\$40.00
716090	Galloway	Pinzridge White Ranger 15779	Moonshine P Boy Eli	Birchfield Nina	\$35.00
717007	Gelbvieh	Tawera Rau U822 (AI)	Double U Freedom Fog 201M (AI)	Tawera Mere PM213 (AI)	\$16.00
716016	Hereford	Craigmore Opium 10214 Polled	Ardo Wairoa 5218 (BM) Polled	Craigmore Lydia 04074 Polled	\$20.00
702004	Maine Anjou	Thanet Francois	HRS Patriot	Thanet Pandora	\$20.00
704030	Miniature Hereford	Cottle Tonto U2 (ET)	Poe Brandon 1	LS MS Silver MT D931	\$35.00
504573	MRI	Killeymoon McGregor 903	Bert (Imp)	Killeymoon Hannah	\$12.00
504574	MRI	Glenmark Laurie	Crosslea Julius	Crosslea Hazel	\$12.00
504575	MRI	Redford Manus 41	Jasiri Ivan	Crosslea Ina	\$12.00
703097	Red Angus	Rissington Lion King	Rissington Red	Rissington Red Sarah	\$12.00
715049	Red Devon	Red Rocket 08/49	-	-	\$18.00
717040	Red Devon	Waiuku Fire 48/16	Tinopai TO 1359 (P)	Tinopai IQ Helen 1256 (P)	\$16.00
703046	Red Poll	Willowlea Super Sire	Oakwood Super Sire	Willow Lea Christina R15	\$8.00
716004	Santa Gertrudis	Blue Stone CJ 174	Gyranda Crackerjack V532	Bluestone Anne A506	\$10.00
714031	Scottish Highland	Boris TNU 25 (Brindle)	Umberto Boy of Egmont	-	\$25.00
714033	Scottish Highland	Harry PBW4 (Black)	-	-	\$25.00
715139	Scottish Highland	Balmoral of Berwick (Red)	Campbell Og of Killara	Isabella of Berwick	\$25.00
700001	Scottish Highland	Broderick Ben of Willowbank (cream)	-	-	\$25.00
716032	Wagyu*	HFNZ Masharu 882	Taraire Musuko Itimicho	HFNZ No Magomusume Itimicho	\$20.00

Order in quantities of x5 straws per bull.

\*Above Wagyu is limited to x20 straws maximum per customer.

## Beef Pack

Bulls in Beef Pack are selected predominantly for low birth weights (calving ease) within breed.

You may purchase Beef Pack semen from any of the following breeds (you have no choice of bulls within each breed):

- Angus
- Belgian Blue
- Beef Shorthorn
- Blonde D'Aquitaine
- Charolais
- Limousin
- Lowline Angus
- Murray Grey
- Piedmontese
- Polled Hereford
- Romagnola
- Salers
- Simmental

Order in quantities of x5 straws per pack

\*InvestaMate discounts may apply if all discount criteria are met (see page 128).

Per straw

\$9.75\*  
+gst

# Animal Evaluation

The method of ranking New Zealand dairy animals is known as Animal Evaluation, and 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 evaluation 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, including milkfat, protein, volume, liveweight, longevity, somatic cells, cow fertility, conformation, body condition score (BCS), gestation length, calving difficulty 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).

For more information on BW, contact NZAEL for a copy of Your Index – Your Evaluation System.

### Breeding Worth

Breeding Worth (BW) can be used as a guide for selecting bulls to breed the most profitable and efficient replacements.

A Breeding Worth (BW) 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 BW to his immediate offspring. The other half is from the dam.

### Reliability

In 220/84 %, the 84 % represents the reliability of the 220 BW.

Reliability is a measure of the amount of information which has contributed to an evaluation.

The more ancestry records, herd tests and progeny information included in the evaluation, the higher the reliability or confidence we can place in the BW 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.

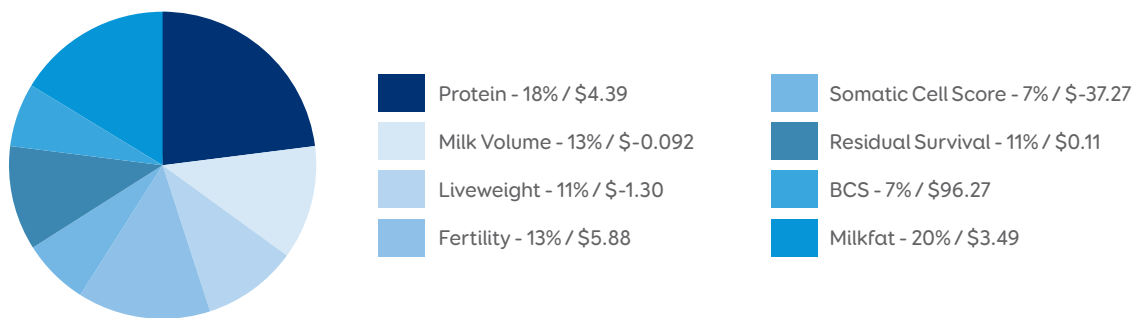
You should be cautious about using a bull with a BW of low reliability, unless he is being used as part of a large team.

## Animal Evaluation

The following table shows the estimated reliabilities for Breeding Worth of bulls with differing amounts of information:

Reliability			
Ancestry Records	Genomic Data	Number of Progeny	BW Reliability
Yes	No	0	30%
Yes	Yes	0	60%
Yes	No	20	70%
Yes	No	100	90%

BW 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 Breeding Values (BVs). Based on ancestry, individual and progeny records, an animal's BVs are calculated for each trait and combined into a BW. Each BV is allocated an economic weighting and calculated 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 on 11/02/2019. Always check the date to ensure the latest BW 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](http://www.lic.co.nz)), or the Animal Evaluation website ([www.dairynz.co.nz/animal/animal-evaluation](http://www.dairynz.co.nz/animal/animal-evaluation)).

Timetable for Animal Evaluation runs		
22 April 2019	12 August 2019	21 October 2019
20 May 2019	16 September 2019	11 November 2019
17 June 2019	7 October 2019	9 December 2019
15 July 2019	14 October 2019	

## 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 60%. 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 60% 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 2017 in the whole herd group in MINDA® at the time of October charging).

For example, if you had 400 qualifying animals in the herd on MINDA 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 after first year of qualification – applied at time of charging on purchases the following season

5% discount after second year of qualification – applied at time of charging on purchases the following season

10% discount after third year of qualification – applied at time of charging on purchases the following season

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.

### Residual Feed Intake (RFI)

RFI is the difference between the actual amount of feed eaten and the estimated intake based on the production level of the animal.

RFI is an outcome from the feed conversion efficiency study, undertaken in collaboration with DairyNZ. LIC is now generating a breeding value (BV) for residual feed intake. It is a genomically-derived BV expressed in dollars, reflecting the different feed efficiency of some animals for growth and milk production over their lifetime. Farmers interested in RFI can use the BV to select sires that will leave progeny who are more efficient. The higher the dollar value for the BV, the more desirable. The dollar value can be directly added to BW.

RFI is solely estimated from genomic predictions and the reliability of this trait is low at approximately 10%. RFI is relatively heritable with it being at a similar level to milk production traits. The RFI BV is not an NZAEL output, is not a component of BW, and is available for LIC Holstein-Friesian bulls only.

### Johne's Disease Susceptibility (JDS)

JDS is an outcome of a study undertaken by LIC as part of the Johne's Disease Research Consortium (JDRC). LIC have calculated a breeding value (the JDS) that reflects an animal's susceptibility to Johne's Disease. Lower values indicate an animal is genetically less likely to contract JD than animals with higher values. An animal with a JDS of -10 is approximately 10% less likely to contract Johne's Disease than the average animal. JDS is estimated using genomic predictions and the reliability is low at approximately 10%. Using sires with low JDS will have a small impact on the incidence of Johne's Disease and should be used in combination with a Johne's Disease herd health plan [dairynz.co.nz/animal/health-conditions/johnes-disease](http://dairynz.co.nz/animal/health-conditions/johnes-disease)

In support of the Johne's Disease Management Guide, LIC Diagnostics have blood and milk tests available to help on-farm management of JD. Tests via herd testing milk samples must be booked directly through your vet prior to your herd test date. For more information on JD testing please contact LIC Diagnostics on 0800 436 362.

### 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	\$6.80 + GST
301 - 600	\$6.50 + GST
601 +	\$6.15 + 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 \$6.80 each (\$2,040 + GST); second 300 inseminations at \$6.50 each (\$1,950 + GST); third 120 inseminations at \$6.15 each (\$738 + GST) = a total of 720 inseminations at \$4,728 + GST.

Non-LIC straw inseminations are \$8.85 + GST per insemination.

# AB Equipment

DIY AB Supplies		
Product	Unit	Price
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 \$234\* 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 1.86kgMS/day in peak lactation = 39.06kgMS lost) 39.06kgMS X \$6 = \$234

Product	Features	Benefits
 <p><b>LIC Bulls-i@</b> (Starting from: \$1.95**)</p>	<ul style="list-style-type: none"> <li>• Self-adhesive</li> <li>• Available in five colours: Red, green, yellow, pink and blue</li> <li>• Sold in packs of 100</li> </ul>	<ul style="list-style-type: none"> <li>• No need to spend time gluing the cow or the heat patch</li> <li>• 5 colours allow for multiple rounds of heat detection</li> <li>• Friction-based technology</li> </ul>
 <p><b>LIC Heat Patch</b> (Starting from: \$2.55**)</p>	<ul style="list-style-type: none"> <li>• Self-adhesive</li> <li>• Available in two colours: Red and blue</li> <li>• Built-in timing mechanism</li> <li>• Sold in packs of 100</li> </ul>	<ul style="list-style-type: none"> <li>• No need to spend time gluing the cow or the heat patch</li> <li>• 2 colours, allow for multiple rounds of heat detection</li> <li>• 4-second time release technology helps to identify true standing heats</li> </ul>
 <p><b>LIC Heat Patch Plus</b> (Starting from: \$2.80**)</p>	<ul style="list-style-type: none"> <li>• Self-adhesive</li> <li>• Available in two colours: Red and blue</li> <li>• Built-in timing mechanism</li> <li>• Channel and chamber technology</li> </ul>	<ul style="list-style-type: none"> <li>• No need to spend time gluing the cow or the heat patch</li> <li>• 2 colours allow for multiple rounds of heat detection</li> <li>• 4-second time release technology helps to identify true standing heats</li> <li>• New technology allows the dye to bleed to the edges of the patch for greater visibility and prioritisation</li> </ul>
 <p><b>KAMAR® Heatmount® Detectors</b> (Classic starting from: \$2.30**) Peel'nGlue starting from: \$2.40**)</p>	<ul style="list-style-type: none"> <li>• Available in classic and peel and glue options</li> <li>• Built-in timing mechanism</li> <li>• Available in two colours: Red and blue</li> </ul>	<ul style="list-style-type: none"> <li>• 4-second time release technology helps to identify true standing heats</li> <li>• 2 colours allow for subsequent heat detection</li> </ul>

Prices exclude GST and are subject to change.

\*\*Further volume discounts may apply.

# National Herd Averages

AE 11/02/2019

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

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

## Traits Other Than Production

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

## Sire Breed Average

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

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

Want to know how your herd compares? Ask your Agri Manager for a breakdown of your herd BV averages.



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