2024
DAIRY SIRE CATALOGUE

A quantum leap forward for heat tolerance

TROPICAL RESILIENCE GENETICS

TROPICAL RESILIENCE GENETICS

Beat the Heat!

UNDERSTANDING THE DANGERS OF HEAT STRESS
in dairy herds

Cows can get overheated easily, affecting growth reproduction, health, live weight and milk production Cattle are naturally warmer than humans and also create additional heat through rumination. This means cows can overheat quickly with heat stress occurring at around 72 THI (Thermal Heat Index), even when air temperatures are as low as 20C.

Heat stress can reduce milk yield by as much as 50%. It can also lead to lower milk quality, poor reproductive performance, slow growth, increased water intake, reduced nutrient uptake and poor general welfare. These effects contribute to serious inefficiency and lost profitability, and also excessive methane production per unit of product.

As cattle genetics and herds become more productive, the threshold temperature at which heat stress kicks in is becoming lower. Global estimates state that over 250 million dairy cows are in environments of significant heat stress.

Farmers around the world invest heavily in their production systems to mitigate heat stress, but the alternative low-cost option to deliver reduced heat stress is to be found through improved genetics.

TROPICAL RESILIENCE GENETICS

Beat the Heat!

DON'T CHANGE YOUR FARMING PRACTICES

change your genetics

TrRG's new developments with the slick gene are a quantum leap forward for heat tolerance and milk production under heat stress.

- Up to 4 litres more milk per day
- Up to 2 months shorter calving interval
- Heifers reach mating weights 2 months earlier

The 'slick gene' that the TrRG bull teams possess enables their daughters to regulate body temperature whilst maintaining milk yield under heat stress conditions. These cows are able to breed back quicker, offering more days in milk, better reproduction and weight gain performance.

This is a new and exciting science-driven breed, to enhance the longevity, reproduction and productivity of your herd in ever more challenging climatic conditions.

Kiwipole™ from TrRG is a proven Crossbred dairy type with associated milk-ability and genetic potential proven since 2011 in a well-established large-scale New Zealand commercial herd. Kiwipole™ are 100% Taurus breed, with decades of breed improvement, but are as heat tolerant as local Indicus breeds.

True-to-breed and emerging Purebreed bloodlines are in place We understand dairy farming profitability and we have a product for your farming system.

Holstein

Crossbreed

Jersey

TROPICAL RESILIENCE GENETICS

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OUR STORY

Tropical Resilience Genetics

Back in 2006 on a field trip to Venezuela, the Founders noticed that so me Carora cows were not making use of the available shade and were happily grazing in the direct sun, exposed to the considerable heat and humidity.

It turned out that these cows were also producing sustainable and profitable yields.

The following year a similar observation was made in Costa Rica, with dairy cattle derived from the Senepol tropical breed. These cattle were also exhibiting exceptional heat tolerance and solid performance due to a 'slick' gene, a gene that improves heat tolerance and a visibly 'slick' shorter hair coat.

A few years later the opportunity to infer heat tolerance into temperate dairy cattle began in earnest using Senepol cattle. Over the following years, the specific gene marker was identified and introgression of the slick gene made it possible to achieve purebred, heat tolerant dairy herds.

The work refining and developing the breadth and depth of herd and bloodlines continue using natural breeding.

TROPICAL RESILIENCE GENETICS

Beat the Heat!

HOLSTEIN

TROPICAL RESILIENCE GENETICS

Beat the Heat!

A true to breed animal for Free Stall Barn Systems in microclimates of moderate to high heat stress with a milk volume payout scheme.

The naturally bred slick US Holstein line is bred for a Free Stall Barn System, it has its origins in Senepol' genetics imported from Prime Rate Range and Castle Nugent. The semen was mated to top cows in Paul Bardoul's intensively farmed Holstein herd, in Ohaupo, Waikato, New Zealand, starting in 2008. From 2011 we were strongly encouraged by the milk production of the F1s and continued with a series of forward matings to what today has delivered a significant milking herd of true to type and purebred Holsteins, giving us confidence that even in a predominantly cooler climate, they are efficient milking animals with no downside.

In the Waikato summer, we do also experience some periods of moderate heat stress. In those periods we see the SLICK animals out grazing while the others cluster under trees, we have rumen boluses that prove they are definitely running cooler than the non-slicks, the boluses also tell us they are drinking less water, and respiratory rates are much reduced when observed in the rotary platform. All farming indicators align with the published science.

In 2012 we were the first in the world to deliver naturally bred Dairy Type Homozygous Slick Bulls for the purpose of semen export, from one of the highest health status countries in the world. We have named our crossbred lines the Kiwipole, which stands for naturally breed animals, with proven Dam performance. Our 250 cow breeding nucleus of very different bloodlines allows us to work with you to customize a solution for your farm system, milk payout schedules, dairy beef payment schedules, and levels of farm heat stress.

TrRG is establishing a breeding nucleus and bull teams physically located in the USA and Australia, in addition to the existing New Zealand bull team. These teams provide further diversity of genetics, and can reach new markets.

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

C-HAVEN KENTUCKY - ET

Three Generation Pedigree

Only in USA & Mexico

C-HAVEN KENTUCKY - ET

International ID:	HO840003204195297
RHA	93%
Sex:	MALE
Breed:	H H15 S1
Date of Birth :	5/03/2020
Beta Casein:	A2A2
Slick Gene Status:	Heterozygous
TGTPI:	3039
TGNM$:	+1018
	Polled

Milk lbs	2718
Fat	+27
Pro	+19
SCS	2.78
Longevity	+1.8
Calving Ease	2.1
Daughter Preg Rate	2.2

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

Genomic DNA tested USA.

SLICK-GATOR LONE RANGER

Oseas HB No:	HOUSA000144046164
TPI:	2226
NM$:	+312
RHA	87%
Breed:	H H15 S1
Fat %:	0.11
Protein%:	0.02

DAM: C-HAVEN BANDARES VILM

Oseas HB No:	HO840003143282250
TPI:	2470
NM$:	+417
Breed:	H H16

Age Age	Milk (ltr)	Protein (%)	(kg)	Milkfat (%)	(kg)	Days Days
2 yr 0 mo	9402	3.40	315	5.20	487	297

ROYLANE CHAMP VAL 4246-ET

Oseas HB No:	HOUSA000069128164/USA
TPI:	2417
NM$:	+456
RHA	100%
Breed:	H H16

SLICK-GATOR SOFIA

Oseas HB No:	HO840003009366901
TPI:	1946
NM$:	+71
RHA	74%
Breed:	H H14S2

Age Age	Milk (ltr)	Protein (%)	(kg)	Milkfat (%)	(kg)	Days Days	
5 yr 9 mo	9752	3.00	294	4.50	434	305	
4 yr 9 mo	8890	3.40	298	4.00	357	291	
3 yr 9 mo	7683	3.10	241	4.70	358	284	
Avg.	8775	3.17	278	4.40	383	293	3 Lacts.

SIRE:
WA-DEL YODER BANDARES - ET

Oseas HB No:	HOUSA000143189741
TPI:	2345
NM$:	+304
RHA	100%
Breed:	HF H16
DAM:	

C-HAVEN DRACO VILMA-ET

Oseas HB No:	HO840003133881062
TGTPI:	+2485
TGNM$:	+425
RHA	100%
Breed:	HF H16

Age	Milk (ltr)	Protein (%)	(kg)	Milkfat (%)	(kg)	Days	
2 yr 11 mo	10137	3.50	356	4.80	489	305	
1 yr 11 mo	11013	3.40	370	4.90	537	305	
Avg.	10575	3.45	363	4.85	513	305	2 Lact

ROYLANE CHAMPION CHAMP-ET

Oseas HB No:	HOUSA000135056079
Breed:	PH H16

SEAGULL-BAY OMAN MIRROR-ET

Oseas HB No:	HOUSA000062115945
Breed:	H H16

Oseas HB No:	HOUSA000142927746
Breed	H H14

Oseas HB No:	HOUSA00058BMF9249
Breed:	H H16

WOODCREST MOGUL YODER - ET

Oseas HB No:	HOUSA000072254526
Breed:	PH H16

WA-DEL MASSEY BELINDA-ET

Oseas HB No:	HOUSA000142259036
Breed:	H H16

Mr Colin Dracco 15006-ET

Oseas HB No:	HO840003012574853

C-HAVEN MOGUI

Oseas HB No:	HOUSA000071990741
Breed:	F F16

8 Lacts. Milk (ltrs)	Protein (%)	(Kg)	Milkfat (%)	(Kg)	Days
9763	3.14	306	3.34	326	246

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

KIWIPOLE CRICKET KAIPAKI

Three Generation Pedigree

LIMITED STOCKS!!!

Holstein|pole™

KIWIPOLE CRICKET KAIPAKI

NZ AB Code:	520709
International ID:	HOLNZLM000000520709
Birth Ident:	BDPH-19-325
Sex:	MALE
Breed:	H H13 S2
Date of Birth :	5/09/2019
Beta Casein:	A2A2
Slick Gene Status:	Homozygous
TGTPI:	1988
TGNM$:	+254

Milk lbs	838
Fat %	4.9
Protein %	3.9
SCS	3.03
Longevity	0.2
Calving Ease	0
Daughter Preg Rate	1.3

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

KIWIPOLE PLANET CRICKET

International ID:	HOLNZL123520784517 (117711)
Birth ID:	BDPH-16-102
TGTPI:	2429
TGNM$:	+736
Breed:	H H14S2
Fat %:	4.2
Protein%:	3.7

DAM: KIWIPOLE CANDICE

Birth Ident:	BDPH-16-203
Breed:	HS FRH1J3S2
Slick Gene Status:	Heterozygous

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
2 yr 11 m	5951	3.59	214	4.84	288	180	
1 yr 10 m	6541	3.69	241	5.14	336	285	
Avg.	**6246**	**3.64**	**228**	**4.99**	**312**	**233**	**2Lacts.**

ENSENADA TABOO PLANET-ET

Oseas HB No:	000060597003/USA (108766)
TPI:	2063
NM$:	+188
Breed:	H H16

DAM: KIWIPOLE MARILYN

Birth Ident:	BDPH-13-213
Breed:	HS H12S4
Slick Gene Status:	Heterozygous

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
6 yr 10 m	5802	3.88	225	4.24	246	266	
5 yr 11 m	5969	3.31	198	4.47	267	265	
4 yr 11 m	8,645	3.74	323	3.27	283	273	
3 yr 11 m	8599	3.49	300	3.60	310	281	
2 yr 11 m	7065	3.55	251	3.64	257	293	
2 yr 0 m	6875	3.50	541	3.60	248	258	
Avg.	**7159**	**3.58**	**306**	**3.80**	**269**	**273**	**6 lacts**

KIWIPOLE SLICK GRAZER

Birth Ident:	BDPH-12-183 (514680)
Breed:	HJ H4F4J4S4

DAM:

Birth Ident:	BDPH-11-238
Breed:	HS F14J1

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
5 yr 0 m	8020	3.34	268	4.94	396	246	
2 Yr 11 m	9642	3.46	333	3.97	383	280	
2 yr 0m	7083	3.55	251	4.22	299	259	
Avg.	**8248**	**3.45**	**284**	**4.38**	**359**	**262**	**3Lacts.**

ROSE BAUM TABOO ET

Oseas HB No:	000017121203/USA
Breed:	H H16

PLUSHANSKI AMEL PATTY ET

Oseas HB No:	000130161039/USA
Breed:	H H16

RALMA O-MAN CF CRICKET-ET

Oseas HB No:	000052357928/USA (110601)
TPI 1735	NM$ +42
Breed:	HF H16

DAM:

Birth Ident:	BDPH-09-169
Breed:	HS H8 S8

SCOTTS COMANCHE F8J8

Birth Ident:	HGMC-05-73 (506807)
Breed:	FJ F8J8

DAM:

Birth Ident:	BDPH-09-169
Breed:	H8O8

4 Lacts. Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
4936	3.38	167	3.60	178	202

HSS SHOTTLE LIST - ET

Birth Ident:	DVLB-06-64 (107763)
Breed:	S S16

DAM:

Birth Ident:	BDPH-04-84
Breed:	F F12J2

6 Lacts. Milk (ltrs	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
6989	3.67	256	4.41	308	240

Genomic DNA tested USA.

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

KIWIPOLE SALTY CRICKET

Three Generation Pedigree

LIMITED STOCKS!!!

Holstein | pole™

KIWIPOLE SALTY CRICKET

NZ AB Code:	**120829**
International ID:	**NZLBDPH20190335**
Birth Ident:	**BDPH-19-335**
Sex:	**MALE**
Breed:	**H H14 S2**
Date of Birth :	**21/08/2019**
Beta Casein:	**A2A2**
Slick Gene Status:	**Heterozygous**
TGTPI:	**2555**
TGNM$:	**+847**

Milk lbs	1305
Fat %	4.6
Protein %	3.8
SCS	2.95
Longevity	1.6
Calving Ease	0
Daughter Preg Rate	1.1

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

Genomic DNA tested USA.

DELABERGE SALT PB

Oseas HB No:	**HOCAN000011591483/CAN**
TPI:	**2341**
NM$:	**+531**
Breed:	**H H16**
Fat %:	**4.6**
Protein%:	**3.7**

DAM: KIWIPOLE MARILYN

Birth Ident:	**BDPH-13-213**
Breed:	**HS H12S4**
PRLR deletion at exon10:	**Heterozygous**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
6 yr 10 m	5802	3.88	225	4.24	246	266	
5 yr 11 m	5969	3.31	198	4.47	267	265	
4 yr 11 m	8,645	3.74	323	3.27	283	273	
3 yr 11 m	8599	3.49	300	3.60	310	281	
2 yr 11 m	7065	3.55	251	3.64	257	293	
2 yr 0 m	6875	3.50	541	3.60	248	258	
Avg.	**7159**	**3.58**	**306**	**3.80**	**269**	**273**	**6 lacts**

MOUNTFIELD SSI DCY MOGUL-ET

Oseas HB No:	**003006972816/USA**
TPI:	**2431**
NM$:	**+612**
Breed:	**H H16**

DELABERGE PLANET LOUISA

Oseas HB No:	**000105841581/CAN**
Breed:	**H H16**

RALMA O-MAN CF CRICKET-ET

Oseas HB No:	**000052357928/USA (110601)**
TPI:	**1735**
NM$:	**+42**
Breed:	**HF H16**

DAM:

Birth Ident:	**BDPH-09-169**
Breed:	**HS H8 S8**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
5 yr 0 n	6588	3.31	218	3.61	238	233	
4 Yr 0 r	4569	3.48	159	3.91	179	159	
2 yr 11	4869	3.25	158	3.26	159	171	
2 yr 0 n	3720	3.57	133	3.63	135	246	
Avg.	**4937**	**3.40**	**167**	**3.60**	**178**	**202**	**4 Lacts.**

COYNE-FARMS DORCY ET

Oseas HB No:	**000139005002/USA**
Breed:	**PH H16**

MOUNTFIELD MARSH MAXINE ET

Oseas HB No:	**000062784081/USA**
Breed:	**H H16**

ENSENADA TABOO PLANET-ET

Oseas HB No:	**00060597003/USA**
Breed	**H H16**

DELABERGE JUSTICE LU

Oseas HB No:	**000102736679/CAN**
Breed:	**H H16**

O-BEE MANFRED JUSTICE-ET

Oseas HB No:	**000122358313/USA (103757)**
Breed:	**PH H16**

RALMA CHRISTMAS FUDGE

Oseas HB No:	**000051547373/USA**
Breed:	**H H16**

Milk (ltrs)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days

RED PRR 2110L

Oseas HB No:	**0000PRR21101/USA (707109)**
Breed:	**S S16**
Birth Ident:	**BDPH-05-120**
Breed:	**F F16**

8 Lacts. Milk (ltrs)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
9763	3.14	306	3.3	326	246

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

RESILIENCE TAMA GRAND

Three Generation Pedigree

Holstein | pole™

RESILIENCE TAMA GRAND

NZ AB Code: 52477
Birth Ident: **MDBP-23-3013**

Sex: **MALE**
Breed: **FJ F12J3**
Date of Birth: **08/04/2023**
Slick Gene Status: **Homozygous**

Fat %: **5.2**
Protein %: **4.0**

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

TRG CRICKET TAMA

Birth Ident: MNJL-20-249 (122790)
Breed: **F F14O2**

KIWIPOLE GRACE

Birth Ident: GHY-18-240
Breed: **FJ F10J6**

3 Lacts. Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	LW
5 yr 9 m	833	3.86	32	6.14	51	37	264
4 yr 8 m	3192	4.34	138	5.99	191	254	-135
3 yr 0 m	5288	4.28	226	5.66	299	305	239
2 yr 0 m	2502	4.15	104	5.51	138	219	41
Avg	D 3661	4.27	156	5.72	210	259	

KIWIPOLE PLANET CRICKET

Birth Ident: BDPH-16-102 (117711)
Breed: **FJ F14O2**

KIWIPOLE

Birth Ident: BDPH-18-141
Breed: **F F14J1**

3 Lacts. Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	LW
5 yr 1 m	D 7686	3.50	269	5.04	387	278	-25
3 yr 0 m	6714	3.79	254	4.61	309	305	204
2 yr 0 m	D 7744	3.48	269	4.58	355	266	188
Avg	D 7381	3.58	264	4.75	350	283	

KIWIPOLE SLICK CHECKPOINT

Birth Ident: BDPH-16-120 (517751)
Breed: **FJ F11J4**

DAM

Birth Ident: GHY-16-109
Breed: **F F8J8**

4 Lacts. Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	LW
5 yr 7 m	8363	3.92	328	4.98	416	305	386
3 yr 11 m	6563	4.24	278	5.49	361	298 T	304
3 yr 0 m	5990	4.34	260	5.19	311	274	307
2 yr 0 m	4548	4.18	190	5.59	254	271	265
Avg	6367	4.15	264	5.27	336	287	

ESENADA TABOO PLANET-ET

Oseas HB No: 000060597003/USA (108766)
Breed: **PF F16**

KIWIPOLE MARILYN

Birth Ident: BDPH-13-213
Breed: **FO F12O4**

7 Lacts.	Milk	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days
	D 6830	3.67	251	3.75	256	283

MR MOHUL DELTA 1427-ET

Oseas HB No: 00072128216/USA (117694)
Breed: **PF F16**

KIWIPOLE CANDICE

Birth Ident: BDPH-16-203
Breed: **FJ F11J3**

2 Lacts.	Milk	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days
	D 6246	3.64	227	5.00	312	233

HOWIES CHECKPOINT

Oseas HB No: HHTT-07-90 (508077)
Breed: **FJ F9J7**

DAM

Birth Ident: BDPH-14-250
Breed: **FJ F12J2**

6 Lacts.	Milk	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days
	D 4071	4.15	169	5.88	239	248

ARKANS BEAUT ET

Birth Ident: MHT-10-75 (511026)
Breed: **FJ F9J7**

DAM

Birth Ident: FTPC-11-19
Breed: **JF J9F7**

5 Lacts.	Milk	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days
	4588	3.94	181	5.23	240	247

RESILIENCE JACKO PROPHET-RED

Three Generation Pedigree

Holstein | pole™

RESILIENCE JACKO PROPHET-RED

NZ AB Code:	124775
Birth Ident:	**MDBP-22-2028**
Sex:	**MALE**
Breed:	**F F1501**
Date of Birth:	**21/04/2022**
Fat %:	**4.4**
Protein %:	**3.6**

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

CRV DELTA JACKO PP-RED

Oseas HB No: 000742955086/NLD (119563)
Breed: PF F16

DAM

Birth Ident: BDPH-19-145
Breed: FO F1303

2 Lacts. Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	LW
3 yr 11 m	1875	3.46	65	3.64	68	75	-28
2 yr 11 m	7074	3.33	234	3.50	246	299	80
1 yr 11 m	5283	3.84	203	4.43	234	301	252
Avg	6164	3.55	219	3.90	240	300	

DELTA LEADER P

Oseas HB No: 000754797988/NLD
Breed: F F16

JOSLENE

Oseas HB No: 000592676759/NLD
Breed: F F16

KIWIPOLE SLICK PATHOS

Birth Ident: BDPH-15-616 (516583)
Breed: FO F1006

DAM

Birth Ident: BDPH-17-7068
Breed: F F15

3 Lacts. Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	LW
3 yr 10 m	D12505	3.22	403	3.38	423	305	157
3 yr 11 m	D 11358	3.30	375	3.73	424	296	92
2 yr 0 m	D 8423	3.10	261	3.85	324	249	244
Avg	D10762	3.22	346	3.63	391	283	

DELTA RAFTER P

Oseas HB No: 000876695418/NLD
Breed: F F16

K&L LEIDA 2424

Oseas HB No: 000655924247/NLD
Breed: F F16

DE VOLMER BRASIL

Oseas HB No: 000920744181/NLD (116592)
Breed: PF F16

VVH JOSEFIEN 19

Oseas HB No: 000919334337/NLD
Breed: F F16

KIWIPOLE GRAZER SUPER

Birth Ident: GWLT-12-163 (713010)
Breed: FO F808

KIWIPOLE MARILYN

Birth Ident: BDPH-13-213
Breed: FO F1204

7 Lacts.	Milk	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days
D	6830	3.67	251	3.75	256	283

LINCOLN-HILL SHOT LASER-ET

Oseas HB No: 000062072898/USA (111873)
Breed: PF F16

DAM

Birth Ident: BDPH-15-118
Breed: F F14

2 Lacts.	Milk	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days
	12109	3.22	390	3.04	368	303

TTM GEORGE SLICK-ET

Three Generation Pedigree

Only in USA & Mexico

TTM GEORGE SLICK-ET TR PC TC TL TD

International ID:	HO840003204195295	
RHA	93%	
Sex:	MALE	
Breed:	H	H15 S1
Date of Birth :	15/01/2020	
Beta Casein:	A2A2	
Slick Gene Status:	Heterozygous	
TGTPI:	2985	
TGNM$:	+1025	
	Polled	

Milk lbs	3745
Fat	+55
Protein	+35
SCS	2.89
Longevity	0.4
Calving Ease	1.9
Daughter Preg Rate	-0.8

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

Genomic DNA tested USA.

SLICK-GATOR LONE RANGER

Oseas HB No:	HOUSA000144046164	
TPI:	2220	
NM$:	+311	
Breed:	H	H14 S2
Fat %:	0.11	
Protein%:	0.02	

DAM: TTM JO SUPER ECSTATIC

Oseas HB No:	HO840003128162373
TPI:	2611
NM$:	+581
Breed:	H H16

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
4 Yr 3 m	14864	3.10	467	3.20	467	305	
3 yr 1 mo	15689	3.10	481	3.70	481	305	
1 yr 11 m	13707	3.10	429	4.00	541	305	
Avg.	14753	3.10	459	3.63	496	305	3 Lacts.

ROYLANE CHAMP VAL 4246-ET

Oseas HB No:	HOUSA000069128164
TPI:	2417
NM$:	+456
RHA	100%
Breed:	H H16

SLICK-GATOR SOFIA

Oseas HB No:	HO840003009366901
TPI:	1946
NM$:	+71
RHA	74%
Breed:	H H12

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
5 yr 9 mo	9752	3	294	4.50	434	305	
4 yr 9 mo	8890	3.4	298	4.00	357	291	
3 yr 9 mo	7683	3.1	241	4.70	358	284	
Avg.	8775	3.17	278	4.40	383	293	3 Lacts.

UECKER SUPERSIRE JOSUPER-ET

Oseas HB No:	70723929/USA
TPI:	2709
NM$:	+650
RHA	99%
Breed:	HF H16

SEAGULL-BAY MISS EBY-ET

Oseas HB No:	840003012644230/
TGTPI:	2227
TGNM$:	+250
RHA	100%
Breed:	HF H16

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
3 yr 3 mo	18397	3.25	522	3.26	671	305	
1 yr 11 mo	12696	3.57	358	3.63	458	305	
Avg.	15547	3.41	440	3.45	564.5	305	2 Lacts.

ROYLANE CHAMPION CHAMP-ET

Oseas HB No:	HOUSA000135056079
Breed:	PH H16

SEAGULL-BAY OMAN MIRROR-ET

Oseas HB No:	HOUSA000062115945
Breed:	H H16

Oseas HB No:	HOUSA000142927746
Breed	H H14

Oseas HB No:	HOUSA00058BMF9249
Breed:	H H16

SEAGULL BAY SUPERSIRE - ET

Oseas HB No:	HOUSA000069981349
Breed:	PH H16

UECKER BEACON JOYFULLY-ET

Oseas HB No:	HOUSA000068817934

DA-SO-BURN MUM EARNHARDT

Oseas HB No:	HOUSA000068972328

SEAGULL-BAY MIS UNIVERSE-ET

Oseas HB No:	HOUSA000070640282
Breed:	H H16

8 Lacts.	Protein		Milkfat		
Milk (ltrs)	(%)	(Kg)	(%)	(Kg)	Days
9763	3.14	306	3.34	326	246

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

SLICK MOGUL CRICKET

Three Generation Pedigree

LIMITED STOCKS!!!

Female Sexed

Holstein | pole™

SLICK MOGUL CRICKET

NZ AB Code:	**119767**
International ID:	**HONZLBDPH20177229**
Birth Ident:	**BDPH-17-7229**
Sex:	**MALE**
Breed:	**H H14 S2**
Date of Birth :	**14/08/2017**
Beta Casein:	**A1A2**
Slick Gene Status:	**Heterozygous**
TGTPI:	**2715**
TGNM$:	**+1010**

Milk lbs	2604
Fat %	4.3
Protein %	3.5
SCS	2.8
Longevity	-0.7
Calving Ease	5.2
Daughter Preg Rate	-0.2

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

MOUNTFEILD SSI DCY MOGUL-ET

Oseas HB No:	**HO840003006972816**
TPI:	**2431**
NM$:	**+612**
Breed:	**H H16**
Fat %:	**4.5**
Protein%:	**3.3**

Daughters average production

Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)
13382	3.90	525	3.10	412

DAM: KIWIPOLE MARILYN

Birth Ident:	**BDPH-13-213**
Breed:	**HS H12S4**
Slick Gene Status:	**Heterozygous**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
6 yr 10 m	5802	3.88	225	4.24	246	266	
5 yr 11 m	5969	3.31	198	4.47	267	265	
4 yr 11 m	8,645	3.74	323	3.27	283	273	
3 yr 11 m	8599	3.49	300	3.60	310	281	
2 yr 11 m	7065	3.55	251	3.64	257	293	
2 yr 0 m	6875	3.50	541	3.60	248	258	
Avg.	**7159**	**3.58**	**306**	**3.80**	**269**	**273**	**6 lacts**

COYNE-FARMS DORCY ET

Oseas HB No:	**000139005002/USA**
TPI:	**2239**
NM$:	**+175**
Breed:	**H H16**

MOUNTFEILD MARSH MAXINE ET

Oseas HB No:	**000062784081/USA**
TPI:	**2041**
NM$:	**+98**
Breed:	**H H16**

RALMA O-MAN CF CRICKET-ET

Oseas HB No:	**000052357928/USA (110601)**
TPI:	**1735**
NM$:	**+42**
Breed:	**HF H16**

DAM:

Birth Ident:	**BDPH-09-169**
Breed:	**HS H8 S8**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
5 yr 0 m	6588	3.31	218	3.61	238	233	
4 Yr 0 m	4569	3.48	159	3.91	179	159	
2 yr 11 m	4869	3.25	158	3.26	159	171	
2 yr 0 m	3720	3.57	133	3.63	135	246	
Avg.	**4936.5**	**3.40**	**167**	**3.60**	**177.8**	**202**	**4 Lacts.**

SANDY-VALLEY BOLTON-ET

Oseas HB No:	**000131823833/USA**
Breed:	**PH H16**

COYNE-FARMS BRET DAFFERS

Oseas HB No:	**000061319723/USA**
Breed:	**H H16**

PASEN MARSH ET

Oseas HB No:	**00130312332/USA**
Breed	**H H16**

PINE-TREE MISSY MIRANDA-ET

Oseas HB No:	**000061733095/USA**
Breed:	**H H16**

03-08 3x 365d 35550m 4.9 1730f 3.7 1325p

O-BEE MANFRED JUSTICE-ET

Oseas HB No:	**000122358313/USA (10375**
Breed:	**PH H16**

RALMA CHRISTMAS FUDGE

Oseas HB No:	**000051547373/USA**
Breed:	**H H16**

RED PRR 2110L

Oseas HB No:	**0000PRR21101/USA (707109)**
Breed:	**S S16**

Birth Ident:	**BDPH-05-120**
Breed:	**F F16**

8 Lacts. Milk (ltrs)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
9763	3.14	306	3.34	326	246

Genomic DNA tested USA.

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

CROSSBREED

A composite animal bred for high to extreme heat stress, under forage and pasture based milk production systems tending towards a milk solids (fat plus protein) payout schemes

The naturally bred slick Kiwipole CrossBred line is a composite animal bred for high to extreme heat stress, under forage and pasture based milk production systems. The first Senepol semen was mated to Paul Bardoul's high producing Holstein herd, in Ohaupo, Waikato, New Zealand, in 2008 and from then on has blended the milk volume of the US Holstein, with the fertility and forage efficiency of NZ genetics.

A foundation bull from the crossbred line was named Slick Grazer, born in 2012, he was 25% Senepol, 25% US Holstein, 12.5% NZ Holstein and 12.5% NZ Jersey, a great bull by dairy type, his daughters are milking well in New Zealand dairy farms and other farms under heat stress around the world such as Vietnam and Philippines.

In 2015 we were the first in the world to deliver naturally bred Dairy Type Homozygous Slick Bulls for the purpose of export, they were named Eros, Himeros and Pothos. These initial bulls were bred with a high component of residual Senepol delivering a resilient but milky animal with a reasonable opportunity for Dairy
Beef for the bull calf progeny.

Further development of the crossbred line, utilizing several more NZ herds has provided the genetic platform to create more options for farmers. Some of the bull team has reduced residual Senepol for more moderate climates, other options have increased US Holstein for liquid milk markets, and increasing the NZ genetic influence for heat stress and free range pasture base system.

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

KIWIPOLE HOTHOUSE KAKAHU ET

Three Generation Pedigree

Female Sexed

kiwipole™

KIWIPOLE HOTHOUSE KAKAHU ET

Bull Code:	**521707**
Birth Ident:	**MNJL-20-251**
Sex:	**MALE**
Breed:	**F10J5S1**
Date of Birth :	**24/07/2020**
Fat %:	**5.3**
Protein %:	**4.2**
Beta Casein:	**A2A2**
Slick Gene Status:	**Homozygous**

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

Genomic DNA tested USA

KIWIPOLE TEMAWHAI HOTHOUSE

Bull Code	**519573**
Birth Ident:	**DFRK-18-91**
Sex:	**MALE**
Breed:	**F10J04S2**
Date of Birth :	**01/07/2018**
Fat %:	**5.2**
Protein %:	**4.2**
Beta Casein:	**A1A2**

KIWIPOLE GRACE

Birth Ident: GHY-18-240

Breed: **FJ F10J6**

3 Lacts. Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	LW
5 yr 9 m	833	3.86	32	6.14	51	37	264
4 yr 8 m	3192	4.34	138	5.99	191	254	-135
3 yr 0 m	D5288	4.28	226	5.66	299	305	239
2 yr 0 m	2502	4.15	104	5.51	138	219	41
Avg	3661	4.27	156	5.72	210	259	

KIWIPOLE SLICK TEMAWHAI

Bull Code:	**516580**
Birth Ident:	**LWXM-15-94**
Breed:	**J8F4S4**

DAM

Birth Ident:	**DFRK-16-12**
Breed:	**F16**

Age Age	Milk Ltrs	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days Days
2 yr 0 m	1874	3.97	74	4.58	86	93
Avg.	**1874**	**3.97**	**74**	**4.58**	**86**	**93**

KIWIPOLE SLICK CHECKPOINT

Birth Ident:	**BDPH-16-120 (517751)**
Breed:	**F11 J4**
Fat %:	**5.4**
Protein %:	**4.1**

DAM:

Birth Ident:	**GHY-16-109**
Breed:	**F8J8**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
3yr 11 mo	6563	4.24	278	5.49	361	306	
3yr 0 mo	5990	4.34	260	5.19	311	274	
2yr 0 mo	4548	4.18	190	5.59	254	271	
Avg.	**5700**	**4.25**	**243**	**5.42**	**309**	**284**	3 lact

KIWIPOLE GRAZER EFFICIENT

Bull Code:	**713012**
Birth Ident:	GWLT-12-165
Breed:	**F8S8**

DAM:

Birth Ident:	**LWXM-12-57**
Breed:	**J16**

4 Lacts Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
2807	4.37	123	6.37	179	212

MOURNE GROVE HOTHOUSE S2F

Bull Code:	**110080**
Birth Ident:	**HCGP-09-90**
Breed	**F16**

DAM: MONOWHAI 11-21 S0F

Birth Ident:	**DFRK-11-21**
Breed:	**F F16**

5 Lacts Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
6619	3.61	239	4.54	300	246

HOWIES CHECKPOINT

Birth Ident:	**HHTT-07-90 (508077)**
Breed:	**F9J7**

DAM:

Birth Ident:	**BDPH-14-250**
Breed:	**FJ F12J2**

3 Lacts Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
3947	4.04	159	5.87	232	213

ARKANS BEAUT ET

Birth Ident	**MHT-10-75 (511026)**
Breed:	**F9 J7**

DAM:

Birth Ident:	**FTPC-11-19**
Breed:	**J9 F7**

5 Lacts Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
4588	3.94	181	5.23	240	247

KIVIPOLE EFFICIENT WAIPIRI

Three Generation Pedigree

Female Sexed

kiwi pole™

KIWIPOLE EFFICIENT WAIPIRI

Bull Code:	**519575**
Birth Ident:	**BDPH-18-220**
Sex:	**MALE**
Breed:	**F9J4S3**
Date of Birth :	**14/08/2018**
Fat %:	**5.6**
Protein %:	**4.4**
Beta Casein:	**A2A2**
Slick Gene Status:	**Homozygous Polled**

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

Genomic DNA tested USA

KIWIPOLE 6637

Birth Ident:	**BDPH-16-637**
Sex:	**MALE**
Breed:	**F13J102**
Date of Birth :	**14/09/2016**
Fat %:	**4.8**
Protein %:	**4.0**
Beta Casein:	**A1A2**

KIWIPOLE TYRA

Birth Ident: **LWXM-15-96**
Breed: **JF J7F4S4**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
3 yr 7 m	4733	4.20	199	5.67	269	274	
3 yr 0 m	6246	4.18	261	4.42	276	285	
2 yr 0 m	5341	4.14	221	4.31	230	286	
Avg.	**5440**	**4.17**	**227**	**4.80**	**258**	**282**	**3 lact**

KIWIPOLE SLICK SYSTEM 5

Bull Code: **515588**

Birth Ident: **BDPH-14-201**

Breed: **F11S4**

DAM:
Birth Ident: **BDPH-14-191**

Breed: **F15J1**

Age	Milk Ltrs	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
5 yr 0 m	4449	3.19	142	4.37	195	122	
3 yr 7 m	10961	3.53	387	3.98	437	305	
2 yr 8 m	5361	4.04	217	4.43	238	280	
2 yr 0 m	3815	3.61	138	4.69	179	152	
Avg.	**6147**	**3.59**	**221**	**4.37**	**262**	**215**	**4 Lacts.**

KIWIPOLE GRAZER EFFICIENT

Birth Ident: **GWLT-12-165 (713012)**

Breed: **F8S8**

DAM:
Birth Ident: **LWXM-11-27**
Breed: **J14A2**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
7 yr 2 m	3979	4.28	170	6.12	243	249	
6 yr 2 m	2901	4.36	126	6.31	183	182	
5 yr 2 m	3569	4.41	158	6.03	215	222	
4 yr 2 m	4044	4.38	177	5.95	241	229	
3 yr 2 m	3768	4.29	162	6.29	237	242	
Plus 1 unprinted lactation							
Avg.	**3598**	**4.30**	**155**	**6.04**	**217**	**228**	**6 Lacts.**

WAIPIRI PIVOT GIN

Birth Ident: **DVLB-11-333**
Breed: **PF F16**

DAM:
Birth Ident: **BDPH-09-166**
Breed: **OF O8FS**

2 Lact Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
1757	3.88	68	3.35	59	116

HSS FAVOUR PEER-ET S3F

Birth Ident: **GYJN-06-33 (107588)**
Breed **SF F16**

DAM:
Birth Ident: **BDPH-11-192**
Breed: **F F14J2**

3 Lact Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
9855	3.29	324	3.87	381	290

CN 6614 "BELLO"

Oseas HB No: **000001100898/USA (707085)**
Breed: **S S16**

DAM:
Birth Ident: **GWLT-05-25**
Breed: **F F16**

7 Lact Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
5955	3.91	233	5.07	302	262

GLENHAVEN TGM GENIUS S3J

Birth Ident **FMLW-05-81 (306016)**
Breed: **SJ J16**

DAM:
Birth Ident: **HMHW-04-92**
Breed: **JA J11A5 GP2**

6 Lact Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
3073	4.02	123	5.10	157	229

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

KIWIPOLE POTHOS GRAZER

Three Generation Pedigree

Female Sexed

kiwipole™

KIWIPOLE POTHOS GRAZER

NZ AB Code: **519574**
International ID: **HOLNZLM000000519574**

Birth Ident: **BDPH-18-14**

Sex: **MALE**

Breed: **F5H3J4S4**

Date of Birth : **29/03/2018**

Fat %: **5.8**

Protein %: **4.4**

Beta Casein: **A2A2**

Slick Gene Status: **Homozygous**

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

Genomic DNA tested USA

KIWIPOLE SLICK POTHOS

Birth Ident: **BDPH-15-616 (516583)**

Breed: **H6F4S6**

Slick Gene Status: **Homozygous**

Fat %: **4.9**

Protein%: **4.1**

DAM: KIWIPOLE CHRISTIE

Birth Ident: **VQQ-15-22**
Breed: **J8F6S2**
Slick Gene Status: **Heterozygous**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
4 yr 7 m	6612	4.17	276	5.86	387	305	
3 yr 6 m	4669	4.40	205	5.91	276	293	
2 yr 7 m	6933	4.14	287	5.97	414	305	
Avg.	**6071**	**4.24**	**256**	**5.91**	**359**	**301**	**3 lacts**

KIWIPOLE GRAZER SUPER

Birth Ident: **GWLT-12-163 (713010)**
Breed: **FS F8S8**

KIWIPOLE MARILYN

DAM:
Birth Ident: **BDPH-13-213**
Breed: **H12S4**
Slick Gene Status: **Heterozygous**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
6 yr 10 m	5802	3.88	225	4.24	246	266	
5 yr 11 m	5969	3.31	198	4.47	267	265	
4 yr 11 m	8,645	3.74	323	3.27	283	273	
3 yr 11 m	8599	3.49	300	3.60	310	281	
2 yr 11 m	7065	3.55	251	3.64	257	293	
2 yr 0 m	6875	3.50	541	3.60	248	258	
Avg.	**7159**	**3.58**	**306**	**3.80**	**269**	**273**	**6 lacts**

KIWIPOLE SLICK GRAZER

Birth Ident: **BDPH-12-183 (514680)**

Breed: **F4H4J4S4**

DAM:

Birth Ident: **VQQ-11-123**
Breed: **JF J12F4**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
9 yr 1 m	2235	3.88	87	5.08	113	100	
8 yr 1 m	3402	3.81	130	5.82	198	256	
7 yr 1 m	3146	3.93	124	5.35	168	257	
4 yr 11 r	3048	4.36	133	6.53	199	195	
Avg.	**2958**	**4.00**	**119**	**5.70**	**170**	**202**	**Lacts.**

CN 6614 "BELLO"

Oseas HB No: **000001100898/USA (707085)**
Breed: **S S16**

DAM:

Birth Ident: **GWLT-03-17**
Breed: **F F16**

8 Lacts.	Protein		Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
6557	3.4	220	3.85	252	258

RALMA O-MAN CF CRICKET-ET

Oseas HB No: **000052357928/USA (110601)**
Breed **PH H16**

DAM:

Birth Ident: **BDPH-09-169**
Breed: **H8O8**

4 Lacts.	Protein		Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
4936	3.4	167	3.60	178	202

SCOTTS COMANCHE F8J8

Birth Ident: **HGMC-05-73 (506807)**
Breed: **FJ F8J8**

DAM:

Birth Ident: **BDPH-09-169**
Breed: **H8O8**

4 Lacts.	Protein		Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
4936	3.4	167	3.60	178	202

JUST ONCE FINN

Birth Ident: **CQYL-09-180 (510018)**
Breed: **JF J11F5**

DAM:

Birth Ident: **LFLC-07-98**
Breed: **JF J12F4**

6 Lact	Protein		Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
2815	4.1	116	6.07	171	218

KIWIPOLE HIBI FATAL

Three Generation Pedigree

LIMITED STOCKS!!!

kiwipole™

KIWIPOLE HIBI FATAL

NZ AB Code: **517758**
International ID: **HOLNZLM000000517758**

Birth Ident: **BDPH-17-7250**

Sex: **MALE**

Breed: **F5H2J3A1S5**

Date of Birth : **12/08/2017**

Fat %: **6.2**

Protein %: **4.7**

Beta Casein: **A2A2**

Slick Gene Status: **Homozygous**

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
A = NZ Airshire
S = Senepol

Genomic DNA tested USA

KIWIPOLE SLICK HIMEROS

Birth Ident: **BDPH-15-626 (516574)**

Breed: **F4J6S6**

Slick Gene Status: **Homozygous**

Fat %: **6.8**

Protein%: **4.9**

DAM: KIWIPOLE NAOMI

Birth Ident: **BDPH-15-256**
Breed: **F4H4S4A2**

Slick Gene Status: **Heterozygous**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
3 yr 11 m	3492	3.36	117	3.40	119	146	
2 yr 11 m	7280	3.75	273	4.50	327	258	
1 yr 10 m	5367	3.62	194	4.23	227	286	
Avg.	**5380**	**3.58**	**195**	**4.04**	**224.3**	**230**	**3 lacts**

KIWIPOLE SLICK GRAZER

Birth Ident: **BDPH-12-183 (514680)**

Breed: **F4H4J4S4**

DAM:

Birth Ident: **GHY-12-41**

Breed: **JS J8S8**

	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
7 yr 0 m	5817	4.51	263	6.98	406	305	
6 yr 0 m	6100	4.22	258	5.80	354	295	
4 Yr 0 m	5512	4.14	228	5.31	293	293	
Avg.	**5810**	**4.29**	**250**	**6.03**	**351**	**298**	**3 lacts**

KIWIPOLE GRAZER EFFICIENT

Birth Ident: **GWLT-12-165 (713012)**

Breed: **F8S8**

DAM:

Birth Ident: **BDPH-13-262**
Breed: **H8F4A4**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
2 yr 10 m	9557	3.27	312	3.50	336	285	
Avg.	**9557**	**3.27**	**312**	**3.51**	**336**	**285**	**1 Lacts.**

SCOTTS COMANCHE F8 J8

Birth Ident: **HGMC-05-73 (506807)**
Breed: **FJ F8J8**

DAM:
Birth Ident: **BDPH-09-169**
Breed: **HS H8S8**

4 Lact	Protein		Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
4936	3.4	167	3.60	178	202

CN 6614 "BELLO"

Oseas HB No: **000001100898/USA (707085)**
Breed **S S16**

WAIKARE MAESTRO CARLENE

Birth Ident: **GHY-08-69**
Breed: **PJ J16**

3 Lact	Protein		Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
3514	4.7	164	6.15	216	241

CN 6614 "BELLO"

Oseas HB No: **000001100898/USA (707085)**
Breed: **S S16**

DAM:
Birth Ident: **GWLT-05-25**
Breed: **FS F16**

7 Lact	Protein		Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
5955	3.9	233	5.07	302	262

HIBI FATAL EUON-ET

Birth Ident: **HGFK-97-4 (663967)**
Breed: **PH F16**

DAM:
Birth Ident: **BDPH-07-22**
Breed: **AH A8H8**

6 Lact	Protein		Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
7981	3.6	285	4.14	330	237

KIVIPOLE SLICK EROS

Three Generation Pedigree

Female Sexed

kiwipole™

KIVIPOLE SLICK EROS

NZ AB Code: **516573**
International ID: **HOLNZLM000000516573**

Birth Ident: **BDPH-15-625**

Sex: **MALE**

Breed: **J6 F2 H2 S6**

Date of Birth : **2/08/2015**

Fat %: **6.1**

Protein %: **4.5**

Beta Casein: **A2A2**

Slick Gene Status: **Homozygous**

Polled

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

Genomic DNA tested USA

KIVIPOLE SLICK GRAZER

Birth Ident: **BDPH-12-183 (514680)**

Breed: **F4 H4 J4 S4**

Slick Gene Status: **Heterozygous**

Fat %: **6.7**

Protein%: **4.8**

DAM: KIWIPOLE CLAUDIA

Birth Ident: **GHY-12-46**
Breed: **J8 S8**

Slick Gene Status: **Heterozygous**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
5 yr 5 m	2237	3.65	81.68	5.93	133	222	
4 yr 1 m	6057	3.67	222	3.67	222	280	
Avg.	**4147**	**3.66**	**152**	**4.80**	**178**	**251**	**2 lacts**

SCOTTS COMANCHE F8 J8

Birth Ident: **HGMC-05-73 (506807)**

Breed: **FJ F8 J8**

DAM:

Birth Ident: **BDPH-09-169**

Breed: **H8 S8**

Age	Milk Ltrs	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
5 yr 0 m	6588	3.31	218	3.61	238	233	
4 Yr 0 m	4569	3.48	159	3.91	179	159	
2 yr 11 m	4869	3.25	158	3.26	159	171	
2 yr 0 m	3720	3.57	133	3.63	135	246	
Avg.	**4937**	**3.40**	**167**	**3.60**	**178**	**202**	**4 Lacts.**

CN 6614 "BELLO"

Oseas HB No: **000001100898/USA (707085)**

Breed: **S16**

WAIKARE TYRONE HANNA S2J

Birth Ident: **GHY-06-12**
Breed: **J16**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
10 yr 0 m	4070	4.00	163	5.72	233	283	
9 yr 0 m	3988	3.98	159	5.66	226	269	
8 yr 0 m	4770	3.89	186	5.54	264	267	
7 yr 0 m	4244	4.00	170	5.65	240	242	
6 yr 0 m	1710	3.79	65	5.91	101	75	
Plus 4 unprinted lactations							
Avg.	**4032**	**3.91**	**158**	**5.63**	**227**	**257**	**8 Lacts.**

OKURA MANHATTEN ET SJ3

Birth Ident: **CFWR-99-47 (300534)**
Breed: **SJ J16**

SCOTTS EASY CANDY

Birth Ident: **HGMC-03-18**
Breed: **PF F16 84GP**

4 Lact Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
6129	3.72	228	4.6	284	267

RED PRR 2110L

Oseas HB No: **0000PRR21101/USA (707109)**
Breed **S S16**

DAM:

Birth Ident: **BDPH-05-120**
Breed: **H H16**

8 Lact Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
9763	3.14	306	3.3	326	246

CN 5497

Oseas HB No: **000001060907/USA**
Breed: **S S16**

OH 237

Oseas HB No: **000001064421/USA**
Breed: **S S16**

Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days

BROOKVALE BERRETTA TYRONE

Birth Ident **BGRN-96-200 (664020)**
Breed: **PJ J16**

WAIKARE CASPER HANNAH SJ1

Birth Ident: **JHKH-01-4**
Breed: **SJ J15 F1 GP2**

13 Lacts. Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
3749	4.13	155	6.4	241	242

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

JERSEY

For heat stress, forage and pasture based milk production systems.

The naturally bred slick Jersey line has been developed as Jersey is a more heat tolerant base than the Holstein. The Jersey bloodline feeds the NZ Crossbred lines, adding significant hybrid vigor. TRG has Jersey cows milking well in New Zealand dairy farms (with heat stress during summer season) and other farms that are under heat stress all year round around the world, such as Vietnam and Philippines.

Further development of the Jersey line, utilizing several more NZ herds, has provided the genetic platform to create more options for farmers. Some of the bull team has reduced residual Senepol for more moderate climates, other options have increased US Jersey for liquid milk markets, or increased NZ genetic influence for heat stress free range pasture based systems.

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

KIWIPOLE TERRIFIC MANGAWHERO

Three Generation Pedigree

kiwi|pole™

KIWIPOLE TERRIFIC MANGAWHERO

Bull Code:	**520711**	
Birth Ident:	**BDPH-20-604**	
Sex:	**MALE**	
Breed:	**J**	**J10F2S4**
Date of Birth :	**1/4/20**	
Fat %:	**6.2**	
Protein %:	**4.7**	
Beta Casein:	**A2A2**	
KCN HAP GV		**BB**
PRLR deletion at exon10:		**Homozygous**
		Polled : PO

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

KIWIPOLE SLICK TERRIFIC

Bull Code:	**517753**	
Birth Ident:	**BDPH-16-160**	
Breed:	**JS**	**J12S4**
Fat %:	**5.7**	
Protein%:	**4.4**	
PRLR deletion at exon10:	**Heterozygous**	

DAM: KIWIPOLE ADRIANA

Birth Ident:	**LWXM-15-92**	
Breed:	**J**	**J8F4S4**
PRLR deletion at exon10:	**Heterozygous**	

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
4 yr 7 m	5,214	4.68	244	5.19	271	305	
* 3 yr 6 mo	5,453	4.66	254	6.51	355	301	
2 yr 0 m	4,000	4.43	177	4.87	195	259	
Avg.	**4,889**	**4.59**	**225**	**5.52**	**274**	**288**	**3 lact**

LYNBROOK TERRIFIC ET S3J

Birth Ident:	**DQBT-08-38 (309084)**	
Breed:	**SJ**	**J16**

KIWIPOLE **KIWIPOLE CLAUDIA**

Birth Ident:	**GHY-12-46**	
Breed:	**JS**	**J8S8**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
5 yr 5 mo	2,237	3.65	82	5.93	133	222	
4 yr 1 mo	6,057	3.67	222	3.67	222	280	
Avg.	**4147**	**3.66**	**151.84**	**4.8**	**177.5**	**251**	**2 lacts**

KIWIPOLE GRAZER EFFICIENT

Bull Code:	**713012**
Birth Ident:	**GWLT-12-165**
Breed:	**FO** **F808**

DAM:

Birth Ident:	**LWXM-10-25**
Breed:	**J** **J15F1**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days
8 yr 3 mo	3,606	4.21	152	5.47	197	207
7 yr 1 mo	3,153	4.29	135	5.95	188	173
6 yr 2 mo	3,433	4.32	148	5.93	203	210
5 yr 3 mo	3,689	4.10	151	5.66	209	202
4 yr 2 mo	4,221	4.17	176	5.64	238	236
+ 2 unprinted lactations						
Avg.	**3636**	**4.16**	**151**	**5.6**	**204**	**217**
						7 Lact

FERNAIG ADMIRAL SJ3

Birth Ident:	**XKC-96-305 (664092)**	
Breed:	**SJ**	**J16**

LYNBROOK OM TRICK ET S3J

Birth Ident:	**DQBT-05-10**	
Breed:	**SJ** **J16**	**EX2**

3 Lacts. Protein			Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
6440	3.93	253	4.7	302	265

CN 6614 "BELLO"

Oseas HB No:	**000001100898/USA**	
Breed	**S**	**S16**

WAIKARE TYRONE HANNA S2J

Birth Ident:	**GHY-06-12**	
Breed:	**SJ**	**J16**

8 Lacts. Protein			Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
4032	3.91	158	5.6	227	267

CN 6614 BELLO

Osea HB No:	0000011(
CCCK-00-54 (301104)	
Breed:	**SJ** **J16**
DAM:	
Birth Ident:	**GWLT-05-25**
Breed:	**F** **F16**

7 Lact Protein			Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
5955	3.91	233	5.1	302	262

LEITHLEA LIKA DEACON ETC

Birth Ident:	**JVLH-04-30 (305173)**	
Breed:	**PJ**	**J16**

DAM:

Birth Ident:	**LWXM-06-25**	
Breed:	**SJ**	**J14F2**

3 Lacts. Protein			Milkfat		
Milk	(%)	(Kg)	(%)	(Kg)	Days
2444	4.21	103	5.8	141	248

Genomic DNA tested USA

KIWIPOLE MANGA BARDOULUS

Three Generation Pedigree

Female Sexed

kiwi|pole™

KIWIPOLE MANGA BARDOULUS

Bull Code: **520710**

Birth Ident: **BDPH-20-503**

Sex: **MALE**

Breed: **J** **J11F3S2**

Date of Birth : **9/03/2020**

Fat %: **6.2**

Protein %: **4.6**

Beta Casein: **A1A2**

PRLR deletion at exon10: **Homozygous**

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

KIWIPOLE MANGA

Birth Ident: **GKYY-17-241 (519576)**

Breed: **JS** **J12F2S2**

Fat %: **5.8**

Protein%: **4.5**

DAM: KIWIPOLE RACHAEL

Birth Ident: **LWXM-15-100**

Breed: **J** **J10F4S2**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days	
4 yr 7 m	5162	4.05	209	6.00	310	305	
3 yr 1 m	7152	3.95	283	5.59	400	305	
2 yr 0 m	3636	4.18	152	5.82	212	214	
Avg	**5317**	**4.06**	**215**	**5.80**	**307**	**275**	**3 Lacts**

KIWIPOLE SLICK MANGATOATOA

Birth Ident: **LWXM-15-95 (516581)**

Breed: **JF** **J8F4S4**

DAM:

Birth Ident: **GHY-15-103**

Breed: **J** **J16**

Age	Milk Ltrs	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
5 yr 1 mo	2806	4.03	113	5.67	159	124	
4 yr 1 mo	2999	4.29	129	5.33	160	180	
2 y 11 mo	3770	4.28	161	5.58	210	271	
1 yr 11 m	1953	4.09	80	5.69	111	158	
Avg.	**2882**	**4.17**	**121**	**5.57**	**160**	**183.3**	**4 Lacts.**

KIWIPOLE SLICK GRAZER

Birth Ident: **BDPH-12-183 (514680)**

Breed: **JF** **F8J4S4**

DAM:

Birth Ident: **LWXM-12-20**

Breed: **JF** **J16**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
6 yr 0 mo	4221	4.22	178	6.30	266	264	
5 yr 1 mo	3077	4.20	129	5.67	175	163	
4 yr 1 mo	4111	4.27	176	6.30	259	233	
3 yr 1 mo	4112	4.22	173	6.07	250	238	
2 yr 1 mo	3456	3.92	135	5.98	207	242	
Avg.	**3795**	**4.17**	**158**	**6.1**	**231**	**228**	**5 Lacts.**

KIWIPOLE GRAZER EFFICIENT

Birth Ident: **GWLT-12-165 (713012)**
Breed: **FO** **F808**

DAM:
Birth Ident: **LWXM-12-83**
Breed: **J** **J15F1**

2 Lacts. Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
2998	3.89	117	5.04	151	218

LYNBROOK TERRIFIC ET S3J

Birth Ident: **DQBT-08-38 (309084)**
Breed: **SJ** **J16** **S√D√**

DAM: **Birth Ident MYVQ-11-66**
Breed: **J** **J16**

5 Lacts. Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
3322	4.34	144	6.11	203	239

SCOTTS COMANCHE F8J8

Birth Ident: **HGMC-05-73 (506807)**
Breed: **FJ** **F8J8** **S√D√**

DAM:
Birth Ident: **BDPH-09-169**
Breed: **FO** **F8O8**

4 Lacts. Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days 251
4936	3.38	167	3.60	178	202

TIRONUI OM JOSKIN

Birth Ident: **DFYL-06-79 (306025)**
Breed: **PJ** **J16**

DAM
Birth Ident: **LMXM-08-38**
Breed: **JF** **J15F1**

3 Lacts. Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
3347	3.86	129	5.62	188	252

Genomic DNA tested USA

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

KIWIPOLE MANGA TAOROA

Three Generation Pedigree

SOLD OUT!!!

kiwipole™

KIWIPOLE MANGA TAOROA

Bull Code:	**520708**	
Birth Ident:	**PTCW-19-66**	
Sex:	**MALE**	
Breed:	**JF**	**J10F3S3**
Date of Birth :	**20/07/2019**	
Fat %:	**5.3**	
Protein %:	**4.2**	
Beta Casein:	**A1A2**	
PRLR deletion at exon10:	**Homozygous**	

F = NZ Fresian (pasture selection)
H = Holstein (Free Stall Barn selection)
J = NZ Jersey
S = Senepol

Genomic DNA tested USA

KIWIPOLE MANGA MANZELLO

Bull Code:	**519726**	
Birth Ident:	**GKYY-17-82**	
Breed:	**JF**	**J12F2S2**
Fat %:	**5.9**	
Protein%:	**4.5**	

DAM: KIWIPOLE GIGI

Birth Ident: **GKYY-17-217**
Breed: **JF** **J8F5S4**

Age	Milk (ltr)	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
2 yr 0 m	5478	4.18	229	4.89	268	305

KIWIPOLE SLICK MANGATOATOA

Bull Code: **516581**

Birth Ident: **LWXM-15-95**

Breed: **JF** **J8F4S4**

DAM:

Birth Ident: **GHY-15-37**

Breed: **J** **J16**

Age	Milk Ltrs	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
5 yr 0 m	1011	4.08	41	6.28	63	47	
4 yr 2 m	2936	4.19	123	6.18	182	154	
3 yr 0 m	3438	4.57	157	6.11	210	147	
2 yr 0 m	2137	4.05	86	5.92	126	208	
Avg.	**2837**	**4.27**	**122**	**6.07**	**173**	**170**	**3 Lacts.**

KIWIPOLE SLICK EROS

Birth Ident: **BDPH-15-625 (516573)**

Breed: **JS** **J6S6F4**

DAM:

Birth Ident: **GKYY-15-114**
Breed: **JF** **J9F6A1**

Age	Milk (ltr)	Protein (%)	Protein (kg)	Milkfat (%)	Milkfat (kg)	Days	
4 yr 0 m	4399	3.98	175	5.30	234	246	
3 yr 0 m	2275	4.27	97	4.69	107	173	
2 yr 0 m	1411	4.12	58	5.44	77	158	
Avg.	**2695**	**4.12**	**110**	**5.14**	**139**	**192**	**3 Lacts.**

KIWIPOLE GRAZER EFFICIENT

Birth Ident: **GWLT-12-165 (713012)**
Breed: **FO** **F808**

Birth Ident: **LWXM-12-83**
Breed: **J** **J15F1**

2 Lacts Milk	Protein (%)	Protein	Milkfat (%)	Milkfat	Days
2998	3.89	117	5.04	151	218

PUKEROA TGM MANZELLO

Birth Ident: **HLB-07-58 (308533)**
Breed **PJ** **J16**

Birth Ident: **GHY-11-131**
Breed: **J** **J16**

4 Lacts Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
3003	4.17	125	5.96	179	225

KIWIPOLE SLICK GRAZER

Birth Ident: **BDPH-12-183 (514680)**
Breed: **FJ** **F8J4S4**

KIWIPOLE CLAUDIA

Birth Ident: **GHY-12-46**
Breed: **JS** **J8S8**

3 Lacts Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
4147	3.66	152	4.28	177	251

ARKANS PROMOTOR

Birth Ident: **MHT-09-80 (510003)**
Breed: **JF** **J9F7**

Birth Ident: **GKYY-13-32**
Breed: **JF** **J8F6**

5 Lacts Milk	Protein (%)	Protein (Kg)	Milkfat (%)	Milkfat (Kg)	Days
3262	3.70	126	5.14	175	156

RESILIENCE GENETICS *Beat the Heat!*

BEEF CATALOGUE

With the SLICK gene for Tropical Resilience

The SLICK gene enables these cattle to maintain high feed intake and growth in Tropical conditions.

World Class efficient Beef Productivity in Tropical Zones!!!

This objective is achievable with the superior Sire genetics available from Tropical Resilience Genetics. The SLICK gene has been introgressed into the top bracket of a mix of the established Beef breeds; Simmental, Angus, Gelbvieh and South Devon.

This breeding program is run by Rissington Cattle Co. using the latest genetic tools available; Embryo Transfer and Genomics, referencing the Leachman Global beef database, with data from greater than1.5 million breeding cattle across North America, Australasia and the United Kingdom.

Initially top Senepol sires were inseminated over top ranked Simmental cows and then the other breeds have been utilised to ensure the optimal mix of; Growth, Maternal traits, Fertility andMeat quality. The most profitable dams and sires are selected for breeding using the $Profit Indexes which combine:

REVENUE TRAITS

Calving ease -more calves = more revenue.

200 Day Weight & 400 Day Weight EBV -more weight = more $

Fertility (less days to conception) = more calves at higher weights

Carcass weight -from increased muscling

Marbling -valued based on grid premiums

Eye muscle area -value as impacts yield grade

% Retail Product -more saleable higher value meat

COST TRAITS

Cow mature size -higher maintenance cost

Cow intake -grazing capacity and efficiency

Feedlot feed efficiency -identifying better feed utilization

$Profit = Profitability from conception to slaughter; **$Ranch** = Profitability of Breeding Herd; **$Feeder** = Profitability in Feedlot Finishing

RISSINGTON SAVANNAH P101
DOB: 09/12/2018

Homozygous SLICK

Homozygous Polled

Sire: Hazeldean SK024

MGS: CDI Rimrock 325Z

Recorded Progeny: 37

Tremendous muscling sire, that is proven to transmit milk and fertility for a highly profitable cow herd!
Every calf will be extra Heat Tolerant.!

Tag	Brand	Leachman Global Analysis (1.5> million animals)															
		$Profit	$P Rank	$Ranch	$R Rank	$Feeder	$F Rank	BW	WW	YW	MW	Milk	Intake	Fertility	CW	EMA	IMF
180101	P101	$15,420	21%	$107	24%	$65	52%	0.3	44	75	9	27	17.66	1.69	48	1.05	0.14
Global Average		*$8,817*		*$39*		*$68*		*1.9*	*40*	*67*	*28*	*22*	*27.56*	*1.42*	*44*	*0.82*	*0.30*

SAVANNAH RISSINGTON T148
DOB: 27/09/2022

Heterozygous SLICK

Homozygous Polled

Sire: Leachman Docs Remedy U683E

MGS: Leachman Acceleate X166D

A real "curve-bender" with easy calving, but extreme yearling growth, with lower feed intake. In the top 2% globally for $Profit. Half the calves will get the SLICK gene, so you can prove the benefit!

Tag	Brand	Leachman Global Analysis (1.5> million animals)															
		$Profit	$P Rank	$Ranch	$R Rank	$Feeder	$F Rank	BW	WW	YW	MW	Milk	Intake	Fertility	CW	EMA	IMF
220148	T148	$27,237	2%	$131	6%	$198	1%	-2.4	46	89	2	23	-52.74	1.86	54	0.94	0.69
Global Average		*$8,817*		*$39*		*$68*		*1.9*	*40*	*67*	*28*	*22*	*27.56*	*1.42*	*44*	*0.82*	*0.30*

Embryo Transfer Impact

IMPROVED versus LOCAL GENETICS

In the Tropical environments typically local cattle are adapted to the hot and harsh conditions. However, these cattle are bred for survival as the main selection objective, and they have not usually had generations of breeding and careful selection for growth and milk production efficiency, as occurs in the developed dairy country cattle breeds.

The Bos Taurus dairy breeds have benefited from many decades of herd recording, performance testing and intensive use of Embryo Transfer and AI. These tools have driven dramatic improvements in production and efficiency, providing a base for the implementation of genomic selection to further increase the rate of gain. While the dataset for beef genetic improvement is smaller and AI is not as widely used, there still has been major gains in growth and maternal traits and genomics are adding further genetic momentum.

The global map highlights the result of the genetic selection and efficient feeding programs in the Northernhemisphere and Australasia. It shows that **across the tropical zones there is between 2 and 7 times the amount of methane produced per kg of meat or milk compared to the temperate zones.** The methane produced is a major contributor to the green house gas emissions of these countries, but it is also directly correlated with the forage feed intake of the cattle, so it confirms the inefficient feed utilisation and low profitability of production with the local cattle.

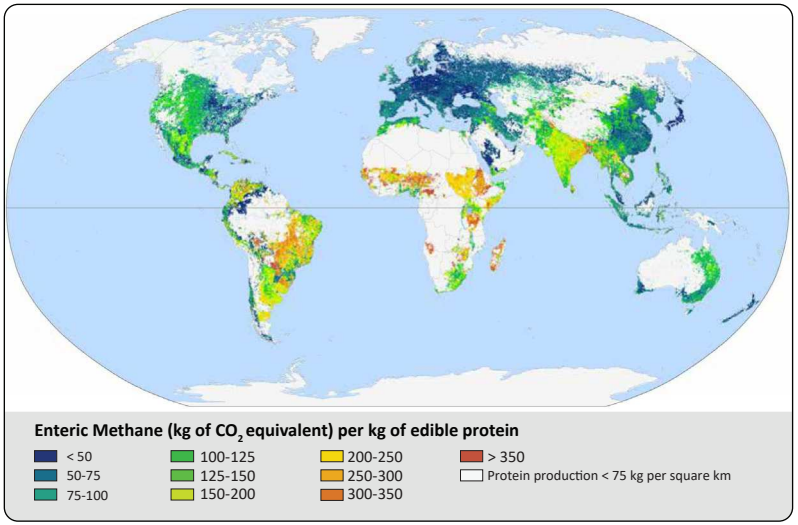


Diagram 1: Map of Intensity of Methane Emissions per kg of Meat or Milk: source FAO

SLICK gene offers a step change in genetic tolerance to heat and humidity, exceeding the benefit of providing shade or other cooling mechanisms. Cows are more comfortable and are able to continue to eat normally with high efficiency of feed conversion and higher productivity. When the SLICK gene is bred into the highly selected Bos Taurus breeds it enables them to adapt to perform closer to their genetic potential in the hotter climate, but still limited by the quality of feed they are offered.

Hence the SLICK genetics offer farmers in the tropics the opportunity to:

- **Boost growth and production (milk to sell and/or feed a calf)**
- **Improve fertility and herd growth (earlier calvings)**
- **Massively improve feed conversion efficiency**
- **Dramatically reduce methane intensity, thus increasing farm and industry sustainability**

The performance "kick" from the gene substantially outweighs any incremental improvement in the improved breeds genetic indexes in these environments.

OPTIONS TO UPGRADE TO SLICK GENETICS

To obtain the benefits of SLICK genetics a farmer can use AI, but if it is over a local base cow (usually Bos indicus) the performance results will be variable and it will take several generations to breed up to the full genetic level of the "SLICK" sires.

If the farmer wants to achieve the higher performance potential in one generation then the two options are:

1. Importation of heifers sired by "SLICK" sires
2. Importation and transfer of embryos out of top cows sired by "SLICK" sires.

While live importation could be a quicker way to achieve the full impact from improved genetics with SLICK gene, these heifers will need to be produced by planned contract mating so then the timeline becomes similar.

There are several key advantages to utilising embryo importation.

- **The genetic level will usually be better with the embryos, as they can readily be produced from donor cows in the top quartile of the purebred population.**
- **The embryo calves will receive antibodies to local diseases from their local recipient dams and may even be reared on these dams for best start.**
- **Batches of embryos are more flexible and easier to arrange than logistics for importations of live heifers.**
- **The management of recipient cows and the rearing of embryo calves through to mating and calving can fit well with farm and team development, ready for managing and feeding the milking herd as it grows.**

THE TROPICAL RESILIENCE EMBRYO PROGRAM

Source Country Options:

Tropical Resilience Genetics has a dedicated embryo export centre in Te Awamutu, **New Zealand**. We have access to partner facilities in Illinois **USA**, and Victoria **Australia**

Donors are only sourced from high health status herds.
Contact us for more information and advice on breed and technology options for your Program!

Breed Options:

Holstein -Selection of top-quality cows with lifetime production, outstanding conformation, and regular calving history

THE TROPICAL RESILIENCE EMBRYO PROGRAM

Jersey – Selection of high-capacity top performing cows with regular calving history



Beef Breeds: A beef SLICK gene breeding program at Rissington Cattle Co. has involved Simmental, Angus (Red & Black) and the hybrid breed, Profitmaker. Breeding selections are based on genomics the $Profit indexes from the Leachman Global Beef analysis, with > 1.5 million performance recorded cattle

THE TROPICAL RESILIENCE EMBRYO PROGRAM

Technology Options:
Embryos can be produced by In-Vivo (MOET) or In-Vitro production (IVP) depending on country protocols and donor status.
Sexed or conventional semen can be used depending on herd growth and breeding strategies.

Embryo Inventory:
Embryos are produced to order, due to variation in client selection based on their breeding objectives and different country health status. When production exceeds order requirements some embryo may be added to our catalog of inventory.

Terms and Conditions:
Price on Application: 50% advance payment with order
Balance plus preparation and shipping costs payable prior to shipment.

ABOUT TROPICAL RESILIENCE GENETICS

why we are unique

Thermo Regulatory Genetics Limited (TRG) was formed in 2018. The company purchased the breeding programme from the Founders and made a long-term investment to globalise the tropically resilient bull team. The team has assembled an internationally regarded genetics and scientific advisory team with strong governance.

The 250 animal NZ breeding nucleus has animals that have been milked in New Zealand since 2011. It spans several different bloodlines from US Holstein, to NZ Crossbreeds to Jersey, to allow development and selection of the best fit genetics for the farming systems and relative degree of heat stress of its tropical farming clients.

The slick gene is now present in several dairy clusters around the world, including New Zealand, Australia, the USA, Costa Rica, Venezuela, Colombia, Puerto Rico, Philippines, Thailand, Vietnam, Tanzania and Mozambique. Thermo Regulatory Genetics Limited has already led the development of the slick nucleus in many of these markets and offers outcross options for those with established herd improvement momentum.

In a recent restructure Tropical Resilience Genetics Ltd was formed and now owns the world's first Homozygous dairy crossbred bulls born in 2015, Pothos, Eros and Himeros, and owns the world's largest and most diverse next generation Homozygous bull team genotypes for future farmer confidence in breeding development.

TrRG maintains it's breeding nucleus on a dairy farm near Hamilton. Waikato and also currently has breeding programs on other farms throughout the upper North Island. The TrRG bulls are housed in a government approved export centre and there are embryo production options in both Waikato New Zealand, and the USA.

TrRG is offering Pure Holstein, Jersey and KiwiPole™ to the global dairy market - plus composite Beef breeds, all conditioned to thrive in tropical climates and combat the risks of heat stress in dairy cattle around the world.

MEET OUR TEAM

the people making it happen

TIM HEELEY (Chairman)

- Former Institutional investment banker and public company CEO
- Strategic Implementation consultant
- Director on profit and not-for profit boards

DAVE HAYMAN (CEO & Director)

- Veterinarian with experience in livestock genetics and AI and Embryo Transfer
- Has managed substantial cattle improvement projects in Tropical zones
- Committed to improving livestock productivity and sustainability

DAVE McEWEN (Director Finance)

- Experienced Agribusiness Management accountant
- Has managed finances for large scale reprotech and
- Director on profit and not-for profit boards

DAVID HEALD (Director)

- Managing Partner Baker Tilly Staples Rodway Chartered Accountancy
- Investment Advisor
- Significant Professional Directorships

BRENT WALLACE (Ethiopia based Director & Breeding Center operator)

- Promoter of SLICK gene Jersey genetics for efficient milk production in East Africa
- Beef supply chain experience in Ethiopia
- Operating well developed farm for transfer of imported embryos to supply pregnant recipients

SHUBHENDRA SINGH (Business Development Manager)

- MBA from Waikato University
- Project planning and management experience in large scale livestock projects

DAVE FULLERTON (Breeder)

- Partner Hi Speed Sustained Genetics
- Holstein Owner and Breeder
- Currently a top 5% producer (solids per cow) within the NZ herd
- Experience in High index Cattle breeding
- Investor in Robindale Farm and Synlait Milk

PAUL BARDOUL (Founder & Breeder)

- Co-founder of the Kiwipole
- Owner/operator Dairy farmer
- Currently a top 5% producer (solids per cow) within the NZ herd
- Expertise in farming systems, nutrition and design

HENK SMIT (Breeder)

- MSc from Wageningen University, Holland in Animal Breeding, Animal Feeding and Agricultural Economics
- Partner Hi Speed Sustained Genetics
- Historically has been a top 1% (solids per cow) within the NZ herd
- Holstein Owner and Breeder

TROPICAL RESILIENCE GENETICS *Beat the Heat!*

MEET OUR TEAM

the people making it happen

NZ NUCLEUS BREEDING HERD
(Cochrane Road Dairy Farm)
The purpose is to showcase TrRG's genetics and to allow precision breeding to be applied.

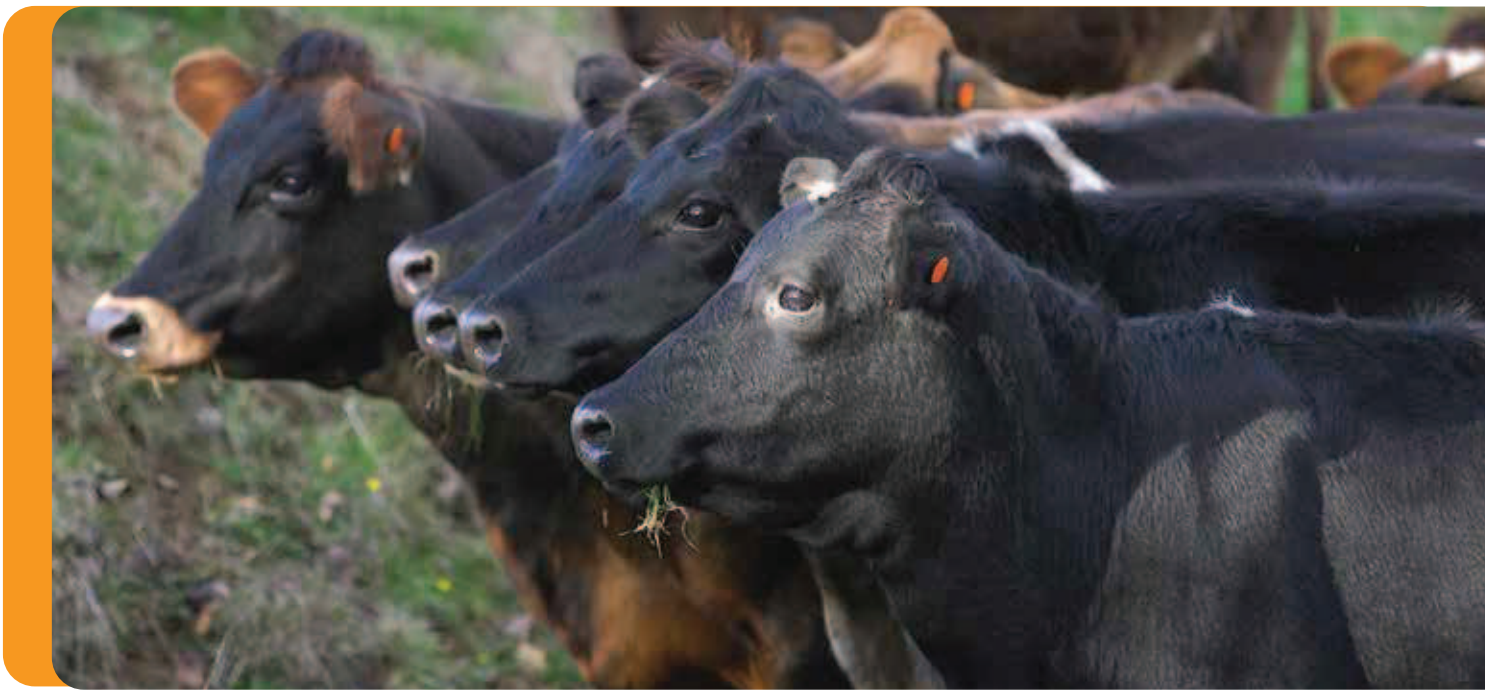
CUTTING EDGE GENETICS
US Breeding Nucleus development and Bull team partner.

HERDBUILDER FARMING LTD
Breeding Center for embryo production and with high health status for global markets

DAIRY SOLUTIONZ
Purpose to develop farming systems that improve the economics of farmers in tropical environments. Reduce the environmental impact of current cooling methods, improve the economics of farmers in tropical environments and improve the welfare of cattle.

CALL OR EMAIL US TODAY TO GET EXPERT ADVICE ON YOUR GENETIC SELECTION AND TECHNOLGY REQUIREMENTS!

DISCLAIMER: Information provided in this catalogue is a combination of MINDA, L/C Herd Tests, DAL Automation, ST Genetic USA and other parties. Whilst TRG endeavours to keep this information up to date and accurate it cannot guarantee its precision or reliability



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