



B+LNZ Genetics Sheep Progeny Test

HUB Annual Report, April 2019



B+LNZ Genetics Central Progeny Test

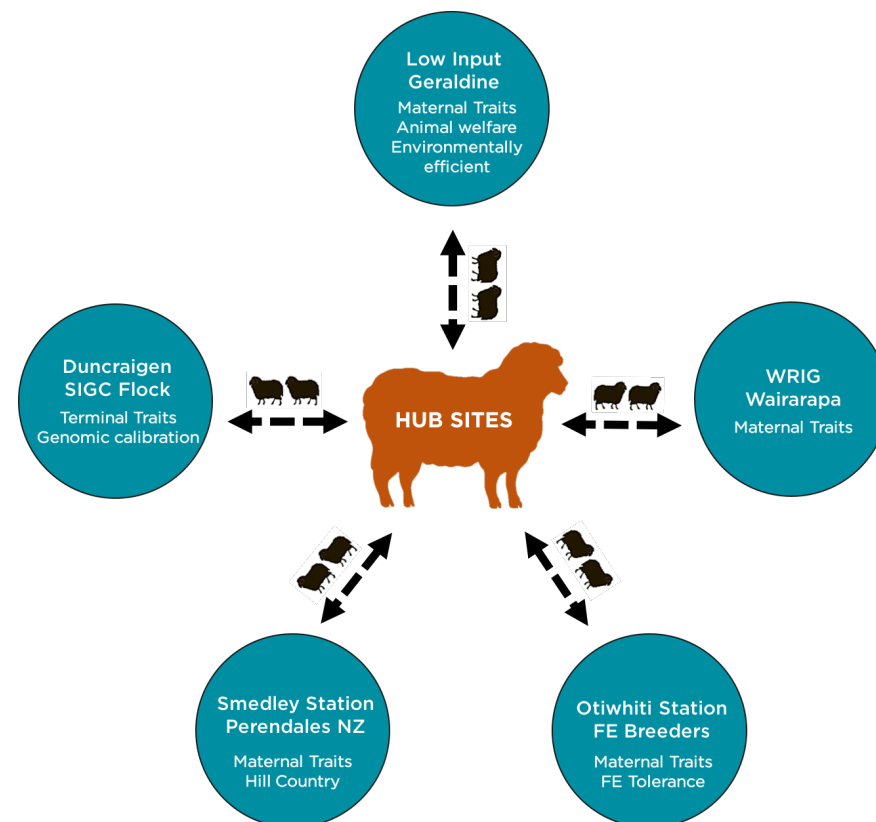
B+LNZ Genetics invest in progeny tests to benchmark the performance of rams sourced from a wide variety of breeds and environments. These benchmarks mean we can correct for differences between flocks such as climate, management conditions, dam genetics, and essentially any non-genetic factor that can affect performance of a rams progeny.

Running a progeny test at one location – a “central progeny test” (CPT) – facilitates comparisons of rams that would not easily be made in industry. It is also an opportunity to provide a practical resource for genetic research development.

There are two types of sites within the B+LNZ Genetics CPT:

1. **Hub sites** focus on flock connectedness that underpins across-industry genetic evaluation. They also provide connectedness between Next Generation flocks, a resource for genetics research as well as add-on innovative projects.
2. **Next Generation sites** build stronger connections with ram breeding flocks in the industry. Each Next Generation site focuses on either a breed type or specialist challenge relevant to the land type and geographical location.

The linkages created by the B+LNZ Genetics CPT underpin NZGE – the weekly large-scale across-flock and across-breed evaluation



Contact

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The results table explained

- All values are sourced from the NZGE Single Step run 12 April 2019.
- NZ Maternal Worth (NZMW) is comprised of Capped Reproduction (DPCR), Survival (DPS), Growth (DPG), Adult Size (DPA) and Wool (DPW).
- NZ Terminal Worth (NZTW) is comprised of Survival (TSS), Growth (TSG) and Meat Yield (TSM).
- In accordance with the ram supply agreement, all submitted rams in order of NZMW or NZTW have been reported.

NZMW & NZTW index values
sourced from NZGE

Number progeny (n) or Number of Daughters lambing (n Dgt L) that
contribute to the sires index values

Dual Purpose Results Table

COHORT 2019																					
SIL ID	Flock name	Breed	Type	NZMW	REPRO	SURV	GROWTH	A SIZE	WOOL	MEAT	FEC	FE	FE star	FE prog	n Progeny	n Dgt L	n Growth	n Meat	n Wool	n FEC	n ASize
1072.737/17	Newhaven	Perendale	DP	2964	733	593	2131	-928	577	542					0/75		58	28			
1135.301/17	Gowan Braes	Perendale	DP	2729	515	315	2648	-1195	521	103	-707				0/82		58	22			
480.770/17	ARDG	Romney	DP	2696	1573	609	1570	-559	114		753	2652	5*		0						
630.106/16	Glenbrook	Romney	DP	2584	649	702	1008	135	203		665	2502	5*		0/160		128			61	
4851.225/14	Romani	Coopworth	DP	2570	325	422	1721	70	66	461	-92	1283	FC	5*	127/434	44	352	51	103	80	35
4474.365/13	Twin Farm	TEFRom	DP	1946	580	177	2564	-1260	-23	996	-241				370/545	58	414	192	87	75	59
1811.606/17	Orari Gorge Station	Romney	DP	1826	45	176	2758	-1573	426	613	-718				0/86		69			29	

Terminal Sire Results Table

COHORT 2019										
SIL ID	Ram Flock name	Ram Breed	Type	NZTW	Survival	Growth	Meat	nProg	n Growth	n Meat
3003.1897/17	FG Waikite	FocusBreed	T	2384	119	1322	943	0/101	74	38
3421.790/15	Elite Charolais	Charollais	T	1523	-24	1071	476	50/64	52	13
2945.164/15	Pine Grove	Suffolk	T	1300	129	798	373	48/263	230	51
4688.438/16	Puketotara	Poll Dorset	T		113	800		0/158	128	24

Blank fields mean the ram has failed to be connected for that
trait (not enough progeny at the test site or home site)

The first number equates to the number of progeny in the report period,
the second number equates to total progeny in the analysis

Results Table: Dual Purpose – Cohort 2019

COHORT 2019																					
SIL ID	Flock name	Breed	Type	NZMW	REPRO	SURV	GROWTH	A SIZE	WOOL	MEAT	FEC	FE	FE star	FE prog	n Progeny	n Dgt L	n Growth	n Meat	n Wool	n FEC	n Asize
1072.737/17	Newhaven	Perendale	DP	2964	733	593	2131	-928	577	542					0/75		58	28			
1135.301/17	Gowan Braes	Perendale	DP	2729	515	315	2648	-1195	521	103	-707				0/82		58	22			
480.770/17	ARDG	Romney	DP	2696	1573	609	1570	-559	114		753	2652	5*		0						
630.106/16	Glenbrook	Romney	DP	2584	649	702	1008	135	203		665	2502	5*		0/160		128			61	
4851.225/14	Romani	Coopworth	DP	2570	325	422	1721	70	66	461	-92	1283	FC	5*	127/434	44	352	51	103	80	35
4474.365/13	Twin Farm	TEFRom	DP	1946	580	177	2564	-1260	-23	996	-241				370/545	58	414	192	87	75	59
1811.606/17	Orari Gorge Station	Romney	DP	1826	45	176	2758	-1573	426	613	-718				0/86		69			29	
2672.97/17	Blackdale	Texel	DP	1565	-87	158	2481	-1444	457	958					0/97		87	34			
2759.3573/15	Wairere	Romney	DP	1179	-17	371	958	-231	98	-12					34/411	4	320	44	4		4
228.65/16	Wheeler	Finn	DP		2267	-76	412	72		-61					0/48		29	14		10	
2410.BP26/17	Rangiatea	Beltex X Peren	DP				672	-545							0/230		200	30			
	Average	Young Rams	DP	1745	328	313	1237	-458	159	302	15	1122									
	Average	Mature rams	DP	1826	297	297	1369	-482	177	379	-2	1070									

Insights

Rams in this cohort have been mated in Autumn 2019. Progeny born in September will be monitored in 2020, 2021 and 2022. We expect values of young rams and unconnected rams to change more than mature connected rams through the progeny test programme.

The outcomes of the progeny test feed immediately into SIL and serve to maintain the accuracy of the breeding value and index predictions evaluated in the NZGE.

The values of these rams have been informed by data captured in their source flocks. A target of 25 progeny per sire are evaluated in the HUB. To gain best value for connectedness from these rams, it is recommended that the sires are used in as many flocks as possible in the next 3 years.

The top three rams in this cohort (NZMW >2610) are in the top 10% of young rams, the majority of which are yet to have progeny born and measured. The top two rams have progeny born in 2018.

Seven of these rams are in the top 50% (NZMW > 1745) for young rams.

Two rams are in the top 5% for WormFEC and two are in the top 5% for Facial Eczema (FE) for their relevant age.

Results Table: Dual Purpose - Cohort 2018

COHORT 2018																					
SIL ID	Flock name	Breed	Type	NZMW	REPRO	SURV	GROWTH	A SIZE	WOOL	MEAT	FEC	FE	FE star	FE prog	n Progeny	n Dgt L	n Growth	n Meat	n Wool	n FEC	n Asize
4591.9506/15	FG Highlander	Highlander	DP	3716	936	660	2081	-258	521	166	-565	2052	3*	3-	46/608	58	487	233	76	17	15
1425.231/14	Nikau	Coopworth	DP	3615	700	477	1841	345	382	-567	657	2067	5*	3*\5*\FC	326/927	180	767	207	336	92	154
3001.2904/15	FG Goudies	Romney	DP	2865	1597	-252	3034	-1093	208	-169	-468	1633		3*\4*\5*	253/949	110	712	178	139	54	112
2749.1974/16	Mount Linton	Texel Romney	DP	2718	521	903	2208	-1110	271	1217	173	82			31/334	37	279	55	38	58	
2529.12/14	Kereru	Romney	DP	2657	1039	850	1324	-434	152		814	2963	5*	5*	303/611	40	518		181	210	51
2239.597/16	Hautere	Perendale	DP	2585	518	957	1768	-752	170	26	10			fc-	0/526	23	443	74	36	31	26
4797.38/15	Kaahu	Coopworth	DP	2473	1182	-15	1663	-366	360	330	-110	523	5*	5*\FC	261/510	64	408	89	160	71	38
2300.608/15	Dolomite	Perendale	DP	2281	115	-51	1677	182	368	685					55/472	23	367	90	48	13	25
2.713/16	Mt Guardian	Perendale	DP	2107	325	423	1817	-462	38	92				fc-	0/292	20	220	52	21		14
233.143/15	Tamlet	Romney/Texel	DP	1997	680	-122	1878	-626	310	433	-352				298	36	241	84	77	37	17
539.6143/15	Wairere	Romney	DP	1414	305	374	1099	-236	-96	-216					168/428	26	329	72	22	15	25
1973.94/14	Melrose	Mid-Micron	DP	853	671	-519	1259	-751	314	95	-395				246/370	63	288	57	68	86	
2502.835/16	Ile de France	Ile de France	DP			316	2265	-1232		1101					0/168		125	52		15	
2835.651/15	Grassmere	Texel	DP		396	-246	2090	-1078		2071					29/365		280	98	3	15	
Average	Young Rams	DP		1745	328	313	1237	-458	159	302	15	1122									
Average	Mature rams	DP		1826	297	297	1369	-482	177	379	-2	1070									

Insights

This cohort is at the beginning of measurements for Dual Purpose traits and will be mated as hoggets in 2019 and continue to be monitored in 2020 and 2021. A target of 25 progeny per sire are evaluated in the HUB.

The majority of these rams have benefited from additional measures in the birth flocks and with flocks also sharing these rams.

The top three rams in this cohort (NZMW >2782) are in the top 10% of mature rams with progeny born 2016-2019.

Ten of the rams listed above are in the top 50% (NZMW >1826) for mature rams. Rams below this line will benefit from additional measures of progeny and may have notable strengths in other traits.

Four rams are above average for Facial Eczema (FE) Tolerance and Ram 2529.12/14 is in the top 5% of mature rams for this trait.

Results Table: Dual Purpose – Cohort 2017

COHORT 2017																						
SIL ID	Flock name	Breed	Type	NZMW	REPRO	SURV	GROWTH	A SIZE	WOOL	MEAT	FEC	FE	FE star	FE prog	n Progeny	n Dgt L	n Growth	n Meat	n Wool	n FEC	n ASize	
1425.231/14	Nikau	Coopworth	DP	3615	700	477	1841	345	382	-567	657	2067	5*	3*\5*\FC	326/927	180	767	207	336	92	154	
719.142/12	Marlow	Coopworth	DP	3312	237	639	2117	-35	375	1029	-421			3*	123/1029	139	836	195	205	78	196	
3001.2904/15	FG Goudies	Romney	DP	2865	1597	-252	3034	-1093	208	-169	-468	1633		3*\4*\5*	253/949	110	712	178	139	54	112	
1072.866/15	Newhaven	Perendale	DP	2106	499	471	2015	-1032	224	-166	409			2-\3-	237/616	29	542	190	97	47	103	
3855.1250/15	FG Freeston	Romney	DP	1907	159	140	2267	-1157	512	250	-121			3-	363/449	65	352	151	83	45	44	
2054.474/13	Anui	Romney	DP	1793	940	114	1735	-1021	252	-335				3*	186/543	67	417	31	64	15	75	
489.362/15	Longview	Perendale	DP	1440	181	69	961	43	201	-534	76	968	3*	2-\3*\FC	34/239	49	218	64	58	45	81	
1446.1026/15	Rangiatea	Perendale	DP	1000	218	-533	1454	-212	93	119				3-	280/553	19	410	54	34	14	90	
539.1650/15	Wairere	Romney	DP	927	-33	30	885	-67	112	-543					0/95	13	76		11		19	
1023.371/12	Wattlebank	Corriedale	DP	821	-179	149	1053	-317	115	-359				3*	422/1335	207	1072	336	475	15	176	
630.415/15	Glenbrook	Romney	DP	751	274	-311	1277	-834	372		-334	2370	5*	3*	214/586	10	470	25	192	197	38	
4588.734/15	FG Awapai	Primera	DP		58	330	2467	-1045		1170					0/189	13	182		10		12	
2773.7/15	Pinelands	Poll Dorset	DP		202	376	2363	-1025		1255					70/378	9	265	11				
50.38/14	Brooklands	Poll Dorset	DP			-18	2349	-465							198/363	12	298	34				
4502.106/14	Amgibbon	Poll Dorset	DP			572	2320	-757		1352					129/175	23	153	39				
3414.135/15	Raggedy Range	Ile de France	DP		2	-284	1768	-827		828				3*	35/179	21	154	78	8	15	41	
	Average	Young Rams	DP	1745	328	313	1237	-458	159	302	15	1122										
	Average	Mature rams	DP	1826	297	297	1369	-482	177	379	-2	1070										

Insights from this table

This cohort has one more year before Dual Purpose progeny test measures are complete.

A target of 25 progeny per sire are evaluated in the HUB. The majority of these rams have benefited from additional measures in the birth flocks and with flocks also sharing these rams.

The top three rams in this cohort (NZMW >2782) are in the top 10% of mature rams with progeny born 2016-2019.

Five of the rams reported above are in the top 50% (NZMW >1826) for mature rams. Rams below this line will benefit from additional measures of progeny. They also have notable strengths in health traits such as 630.415/15 (NZMW 751) which has a Facial Eczema (FE) of 2370. The FE value for this ram is in the top 10% for mature rams.

Results Table: Dual Purpose – Cohort 2016

COHORT 2016																					
SIL ID	Flock name	Breed	Type	NZMW	REPRO	SURV	GROWTH	A SIZE	WOOL	MEAT	FEC	FE	FE star	FE prog	n Progeny	n Dgt L	n Growth	n Meat	n Wool	n FEC	n Asize
4474.88/14	Twin Farm TEFRom	TEFRom	DP	2934	1138	673	1529	-10	-70	1086	-800			3-	99/368	105	330	132	75	41	76
3001.6109/14	FG Goudies	Romney	DP	2838	944	338	2148	-867	503	-83	-156	2188	5*	3-\5-	302/532	201	461	92	123	17	128
4479.1365/12	Rosedale Growbulk	Growbulk	DP	2737	1089	781	1422	-270	14	416				3-	514/752	133	659	122	125	15	159
712.352/14	Marlow	Coopworth	DP	2623	1439	1106	1601	-1175	166	162	-597	2228	5*	3*\5*\FC	220/555	146	500	80	211	56	113
4808.1718/11	Hollycombe	Romney	DP	2477	470	546	2792	-1367	98	820				3-	451/661	101	559	195	202	15	96
2744.50261/14	Kelso Maternal	Kelso Maternal	DP	2294	814	439	2069	-881	25	744	96	-538	FC	3-\FC	504/944	220	744	325	166	45	157
406.598/13	ARDG - Makino	Romney	DP	2253	918	746	1338	-839	308		417	1994	5*	3*\5-\fc-	346/582	137	509	27	281	140	144
3855.1406/14	FG Freestone	Romney	DP	1948	1338	301	2360	-1536	-68	644	-813			3*	417/497	149	353	138	92	29	134
391.10/13	Hinenui	Coopworth	DP	1797	621	85	1046	-234	383	-650	-168	1891	5*	3*\5*\FC	649/792	161	718	137	322	46	101
719.C571/12	Blackdale	Coopworth	DP	1780	-592	60	2303	-843	352	927	-315	248		3*	360/1029	251	912	245	387	41	286
1941.130801/13	Raupuha	Perendale	DP	1560	-63	518	929	150	26	-237	-141	1929	3*	2*\3*\4-\FC	457/768	150	687	164	181	51	117
1115.136/14	Grassendale	Coopworth	DP	1323	523	-107	146	700	137	94					0/38	16	37				16
2849.S206/14	Longfield	Corriedale	DP	1249	-248	979	1201	-504	-79	-21				3-	150/348	76	304	66	133	18	60
228.53/14	Wheeler	Finnish Landrace	DP		2993	176	-226	434		-60				3*	84/190	50	161	78	26	12	45
	Average	Young Rams	DP	1745	328	313	1237	-458	159	302	15	1122									
	Average	Mature rams	DP	1826	297	297	1369	-482	177	379	-2	1070									

Insights from this table

This cohort has completed all Dual Purpose progeny test measures. A target of 25 progeny per sire are evaluated in the HUB. The majority of these rams have benefited from additional measures in the birth flocks and with flocks also sharing these rams.

The top ram in this cohort 4474.88/14 (NZMW 2934) is in the top 10% of mature rams with progeny born 2016-2019.

Eight of the rams reported above are in the top 50% (NZMW >1826) for mature rams.

Results Table: Terminal Sire

COHORT 2019										
SIL ID	Ram Flock name	Ram Breed	Type	NZTW	Survival	Growth	Meat	nProg	n Growth	n Meat
3003.1897/17	FG Waikite	FocusBreed	T	2384	119	1322	943	0/101	74	38
3421.790/15	Elite Charolais	Charollais	T	1523	-24	1071	476	50/64	52	13
2945.164/15	Pine Grove	Suffolk	T	1300	129	798	373	48/263	230	51
4688.438/16	Puketotara	Poll Dorset	T		113	800		0/158	128	24
	Average	Young Rams	T	1210	75	632	417			
	Average	Mature rams	T	1325	73	708	477			

COHORT 2018										
SIL ID	Ram Flock name	Ram Breed	Type	NZTW	Survival	Growth	Meat	nProg	n Growth	n Meat
2747.5080/16	Mt Linton	Sufter	T	2379	304	1452	623	40/501	377	163
4880.60050/15	Kelso	Kelso Comp	T	2134	307	1239	588	199/424	337	231
4880.60165/16	Kelso	Kelso Comp	T	1787	130	808	850	0/184	163	36
3570.3230/13	Charollais NZ	Charollais	T	1721	-101	1133	690	311/520	371	199
4448.119/14	Willowhaugh	Southdown	T	1475	72	879	524	56/307	260	133
20.28/16	Tyanee	Suffolk	T	1441	215	849	377	0/167	142	4
827.368/13	Paki-iti	Suffolk	T	1023	148	602	274	128/540	441	115
2795.331/15	Glendu	Dorset Down	T		6	600		33/118	84	22
	Average	Young Rams	T	1210	75	632	417			
	Average	Mature rams	T	1325	73	708	477			

COHORT 2017										
SIL ID	Ram Flock name	Ram Breed	Type	NZTW	Survival	Growth	Meat	nProg	n Growth	n Meat
20.22/15	Tyanee	Suffolk	T	2195	272	1285	638	0/164	153	11
4772.41/15	Taronga	Suffolk	T	1906	188	1044	673	0/522	417	84
2595.384/15	Nithdale	SuffTex	T	1727	216	1020	491	230/495	402	227
3499.456/14	Lochee	Charollais	T	1479	-57	740	796	339/669	551	201
4448.119/14	Willowhaugh	Southdown	T	1475	72	879	524	56/307	260	133
	Average	Young Rams	T	1210	75	632	417			
	Average	Mature rams	T	1325	73	708	477			

COHORT 2016										
SIL ID	Ram Flock name	Ram Breed	Type	NZTW	Survival	Growth	Meat	nProg	n Growth	n Meat
2835.401/13	Grasmere	Texel	DP & T	1933	158	868	1224	109/569	452	298
3004.1772/13	FG Kepler	FocusPrime	DP & T	1381	102	607	672	0/39	36	
	Average	Young Rams	T	1210	75	632	417			
	Average	Mature rams	T	1325	73	708	477			