



Dairy Beef Progeny Test Report

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Report prepared by Nick Sneddon, Massey University

Contents

INTRODUCTION	3
PART 1. COHORT UPDATES.....	4
2021-born calves: birth, rearing and growth traits up to 200 days of age.....	4
2020-born calves: 400-day and 600-day weight.....	4
2019-born calves: Carcase traits assessed by ultrasound and at processing	4
Table 1. Cohort 6 (2021-born calves): Average gestation length, birth weight, weaning age and 200-day weight of sires.	5
Table 2. Cohort 5 (2020-born calves): Average 400-day and 600-day weight of sires.	6
Table 3. Cohort 4 (2019-born calves): Average live weight, eye muscle area (EMA), intramuscular fat (IMF) and fat depth	7
Table 4. Cohort 4 (2019-born calves): Average pre-slaughter live weight, dressing out percentage, carcase weight, MSA marbling score, rib fat depth, pH, meat colour, fat colour and ossification of sires.	8
PART 2. TOP PERFORMING BULLS ACROSS COHORTS:	10
a. All-round performance from birth-carcase (sires of progeny born 2019 or earlier)	10
Table 5. Bulls with lifetime progeny data that meet the “all-rounder” criteria.....	10
Table 6. All round performance of up-and-coming sires (sires of progeny born 2020 or 2021).	11
b. Carcase weight and marbling (sires of progeny born 2019 or earlier).....	12
Table 7. Top 20 bulls for carcase weight	12
Table 8. Top 20 bulls for marbling score	13
c. 600-day weight (sires of progeny born 2020 or earlier)	14
Table 9. Top 20 bulls for 600-day weight	14
d. 400-day weight (sires of progeny born 2020 or earlier)	15
Table 10. Top 20 bulls for 400-day weight	15
e. 200-day weight (sires of progeny born 2021 or earlier)	16
Table 11. Top 20 bulls for 200-day weight	16
f. Rearing traits.....	17
Table 12. Top 20 bulls for age at weaning.....	17
g. Calving traits (sires of progeny born 2021 or earlier).....	18
Table 13. Top 20 bulls for gestation length	18



Introduction

The Dairy Beef Progeny Test began at Limestone Downs in 2015, where Hereford and Angus bulls with a range of EBVs were tested in a dairy herd to determine how well the progeny performance matched the EBV of the sire. The EBVs proved to be a good predictor of performance in the dairy beef system, and so the second stage of the Dairy Beef Progeny Test was established at Pāmu's Renown farm at Wairakei Estate. In this test, bulls of any breed for which the EBV indicated they were likely to be excellent bulls for dairy beef systems are selected and Progeny Tested through the generation of calves in the Renown dairy herd. Calves are reared under commercial conditions and finished at Pāmu's Orakonui farm at Wairakei Estate.

The 2019-born calves from Renown were processed between October 2021 and March 2022. The 2020-born calves have been measured up to 600-day weight and will be ultrasound scanned and processed in 2022/23. The 2021-born calves have been measured up to 200-day weight. A new cohort of calves is expected in spring 2022, and we will shortly be calling for nominations for the 2022 mating to produce the 2023-born cohort.

The first part of this report provides updates on the latest traits recorded for each cohort, including the second birth-to-carcase performance data on bulls tested at Renown. The second part of this report identifies some top all-round bulls that can be used to the benefit of all players in the industry. In addition, top individual bulls for key traits are identified.

PART 1. COHORT UPDATES

2021-born calves: birth, rearing and growth traits up to 200 days of age

See Table 1, Page 5

Nine hundred and thirty-five calves were DNA-verified to Progeny Test sires in spring 2021. Once again, there was no problem with calving difficulty. There were 16 assisted calvings, all of which involved a mal-presented calf, only one of which required veterinary assistance. The mean birth weight was consistent with previous seasons. Calves were reared on-farm at Pāmu and weaned at a mean live weight of 85 kg.

These calves have been recorded up to 200-day weight, and their next measurement will be a 400-day weight in Spring 2022.

2020-born calves: 400-day and 600-day weight

See Table 2, Page 6

The 2020-born calves have been run in four groups since weaning (two of heifers, two of steers), are on track for processing in the coming spring/summer and will have ultrasound data collected prior to processing.

2019-born calves: Carcase traits assessed by ultrasound and at processing

See Table 3 and Table 4, Pages 7-9

These cattle were managed in four herds from weaning until near to processing, when three of the four groups were split into two subgroups for processing. This resulted in three groups of heifers and four groups of steers at processing. All heifer groups were ultrasound scanned prior to processing of the first heifers, and all steer groups were ultrasound scanned at a later event, prior to processing of the first steers. The average age at ultrasound scanning was 844 days, and the average age at processing was 863 days.

All the traits assessed in the live animals have shown a significant impact of sire – meaning that the progeny performance was better for some sires than others. When carcase traits were considered, we identified two traits – pH and meat colour – that were not affected by sire. Overall, 4% of cattle processed from the 2019-born cohort had a pH of 5.8 or more.

The majority of cattle (93.1%) graded P2, 6% graded L2 and 0.55% graded P3. Fat colour scores of 5 or above are likely to result in downgrading for yellowness. Overall, 5.1% of cattle processed from the 2019-born cohort reached this threshold for yellowness. Cattle were processed through Silver Fern Farms Pacific Plant, where they were assessed on the Beef EQ standard; 35.2% of heifers and 31.3% of steers processed reached the reserve grade.

Table 1. Cohort 6 (2021-born calves): Average gestation length, birth weight, weaning age and 200-day weight of sires.

Sire Name	Breed	Herdbook number	n born	Gestation length (days)	Birth weight (kg)	n weaned	Weaning age (days)	200-day weight (kg)
Focus 193013	Angus	NZE194990193013	38	281.0	33.3	35	91.7	165
Focus Cracker 4025	Angus	NZE194810184025	39	282.5	37.5	35	81.4	177
Glanworth 17013	Angus	12154017013	67	277.0	32.2	67	89.4	171
Ngaputahi P219	Angus	NZE21095018P219	35	281.9	35.8	34	80.5	169
Ploughbright Fennessy	Australian Lowline	QLRF046	25	279.5	33.7	24	95.2	154
Ardo Ajax 5014	Hereford	0277155014	74	281.2	34.7	68	85.0	172
Ardo Hustler 8014	Hereford	0277188014	44	283.8	37.4	43	81.3	172
Beechwood Imposer 44	Hereford	0051180044	34	279.1	36.3	30	75.3	175
Beechwood In Time 7	Hereford	0051180007	40	281.4	34.4	37	80.0	175
Foulden Hill King 180500	Hereford	1731180500	42	283.1	40.0	39	82.2	169
Mahuta Ocean 8073	Hereford	0828188073	25	279.6	36.4	22	80.7	183
Shrimptons Hill 190126	Hereford	0300190126	40	281.4	36.1	36	89.5	164
Westholm Fargo U66	Hereford	0421190066	38	281.6	34.9	37	84.4	168
Torrisdale Pegasus P66	Murray Grey	1427180066	47	280.6	38.5	43	81.8	175
Tinopai BA Jed 1633	Red Devon	172916033	39	281.4	36.8	36	86.7	165
Kerrah Exchequer E502	Simmental	1667AE0502	54	285.3	37.5	54	84.0	168
Kerrah Fortress F326	Simmental	1667AF0326	35	283.7	37.9	33	73.4	182
Leafland E121	Simmental	1614AE0121	46	282.3	38.8	46	76.2	179
Maungahina Kidmans Cove	Speckle Park	Mau K247	31	287.8	39.1	25	80.2	171
Totara Hill Steak House N6	Speckle Park	N/A	35	284.5	38.3	31	77.4	173
Focus Stabilizer 5004 (red)	Stabilizer	N/A	40	280.9	37.2	37	83.0	177
Focus Stabilizer S183 (black)	Stabilizer	N/A	39	284.7	34.9	35	84.7	178
Focus Trinity 135263	Stabilizer	N/A	46	281.2	35.6	41	81.1	178
Average of all DBPT Bulls				281.2	37.7		83.5	171

Table 2. Cohort 5 (2020-born calves): Average 400-day and 600-day weight of sires.

Sire Name	Breed	Herdbook number	n at 400d	400-day weight (kg)	600-day weight (kg)
29AN1920 ABS Protégé 306	Angus	N/A	30	282	412
Focus 173075	Angus	NZE194990173075	28	299	427
Glanworth 17013	Angus	12154017013	41	281	415
Kincardine KC Kingdom 15-531	Angus	13459015531	26	275	405
Rissington 160043	Angus	NZE145720160043	40	274	407
Shalom Waigroup 319/07	Angus	10596007319	19	285	424
Bruno van de Plashoeve	Belgian Blue	NL671357027	33	276	400
JN Balder D406	Black Hereford	HB011124	27	268	391
829XB0064 NuEra T14 0064	Composite	829AN1920	20	272	414
Increva PP	Fleckvieh	10/171930	29	283	416
Ardo Ajax 7086	Hereford	0277177086	26	275	406
Ardo Fargo 7022	Hereford	0277177022	41	271	397
Koanui Legend 7109	Hereford	0216177109	31	277	409
Matariki 110637	Hereford	0281110637	25	290	430
Wirruna Matty M288	Hereford	AUWNAM288	28	290	429
Yavenvale Nockout N312	Hereford	YAVN312	23	277	411
Mangatara 798N	Limousin	MTA1N798	25	272	408
Tinopai VJ Awhitu 1373	Red Devon	172917037	19	272	391
Glenside Crumpy AC4	Simmental	1312AC0004	50	298	434
Kerrah Exchequer E502	Simmental	1667AE0502	26	272	396
Leafland E121	Simmental	1614AE0121	25	295	437
Rissington New Standard AU158	Simmental	0049AU0158	25	305	445
Focus 18 Carat S046	Stabilizer	N/A	29	264	406
Focus Prophet S36	Stabilizer	N/A	35	269	409
Average of all DPBT bulls				279	412

Table 3. Cohort 4 (2019-born calves): Average live weight, eye muscle area (EMA), intramuscular fat (IMF) and fat depth at the rib and P8 sites of sires.
All scan traits are adjusted to a common live weight at scanning.

Sire Name	Breed	Herdbook number	n scanned	Live weight (kg)	EMA (cm ²)	IMF	P8 fat depth (mm)	Rib fat depth (mm)
Focus 171293	Angus	NZE194730171293	22	551	74.4	5.8	7.1	4.8
Linton 16107	Angus	NZE20305016107	19	526	74.1	5.5	4.3	4.0
Rissington 160043	Angus	NZE145720160043	30	533	76.5	6.3	5.9	5.3
Storth Oaks M33	Angus	NZE19507016M33	29	561	75.3	5.3	6.3	4.3
Storth Oaks M64	Angus	NZE19507016M64	25	542	77.3	6.5	7.8	5.5
Te Mania 15380	Angus	NZE16932015380	40	553	76.4	6.0	8.4	5.8
Te Mania Matrix 16018	Angus	NZE16932016018	32	534	76.8	5.6	8.5	5.2
Waitangi M203	Angus	NZE18954016M203	28	539	74.4	5.3	7.4	5.0
Kakahu Gerry 140506	Charolais	001140506E	34	587	76.7	3.1	7.1	4.3
Vollgas PS	Fleckvieh	N/A	33	515	72.9	2.6	3.8	3.0
Ardo Ajax 5014	Hereford	0277155014	46	543	75.1	3.6	7.3	4.7
Ardo Vostock 5341	Hereford	0277155341	24	535	71.9	3.7	7.7	4.9
Matariki 110637	Hereford	0281110637	10	537	74.6	4.4	7.5	4.5
Mangatara 335L	Limousin	MTA1L335	35	536	74.0	3.5	4.6	3.4
Mangatara Jool	Limousin	MTAPJ145	31	511	75.0	3.9	5.5	3.9
Torrisdale Kakanui K123	Murray Grey	1427140123	42	540	75.0	4.8	6.1	4.6
Jipidji	Normande	FR5350920122	29	552	72.0	3.4	3.3	2.6
Glendhu Lochore 16603	Shorthorn	228516603	25	523	76.8	4.7	6.2	4.3
Kerrah Efficient E500	Simmental	1667AE0500	31	522	74.8	3.8	6.0	3.9
Leafland E121	Simmental	1614AE0121	13	562	76.2	2.6	5.0	3.2
Rissington AF184	Simmental	0049AF0184	25	526	73.2	3.4	4.1	3.0
Aschwood Black Sambo 501	South Devon	RVA15501 PZK	36	553	74.2	5.2	6.5	4.1
Parkvale Kiwi K01	Speckle Park	PRK K01	32	512	76.3	4.7	6.8	4.9
Focus Trinity 135263	Stabilizer	N/A	23	549	76.4	4.8	7.8	4.8
Stabilizer 165303	Stabilizer	N/A	47	548	74.5	4.0	7.6	5.0
Stabilizer 16538	Stabilizer	N/A	16	551	72.0	3.8	4.9	3.7
Average of all DBPT bulls*				540	74.5	4.4	6.9	4.5

*The 2018-born calves are the first cohort to be ultrasound scanned, so the average presented is only for the bulls from the 2018 and 2019 cohorts

Table 4. Cohort 4 (2019-born calves): Average pre-slaughter live weight, dressing out percentage, carcass weight, MSA marbling score, rib fat depth, pH, meat colour, fat colour and ossification of sires. Rib fat depth and marbling score are adjusted to a common carcass weight, and meat colour is adjusted for pH.

Sire Name	Breed	Herdbook number	n carcass	Live weight (kg)	Dressing out (%)	Carcass weight (kg)	Marbling score	Rib fat depth (mm)	pH	Meat colour (1-9 scale)	Fat colour (1-9 scale)	Ossification *
Focus 171293	Angus	NZE194730171293	19	575	50.6	285	359	5.8	5.66	3.2	3.1	152
Linton 16107	Angus	NZE20305016107	16	546	49.6	265	351	6.4	5.63	3.1	3.2	154
Rissington 160043	Angus	NZE145720160043	27	557	50.3	275	401	6.9	5.64	3.2	3.2	155
Storth Oaks M33	Angus	NZE19507016M33	25	577	50.3	285	329	5.8	5.62	3.2	3.2	158
Storth Oaks M64	Angus	NZE19507016M64	22	561	50.2	275	402	7.5	5.62	3.3	2.7	160
Te Mania 15380	Angus	NZE16932015380	37	580	49.5	281	366	6.7	5.62	3.2	3.1	157
Te Mania Matrix 16018	Angus	NZE16932016018	28	553	50.0	272	384	6.4	5.62	3.1	3.3	166
Waitangi M203	Angus	NZE18954016M23	25	561	49.8	273	400	6.4	5.63	3.2	3.6	157
Kakahu Gerry 140506	Charolais	001140506E	32	610	50.0	296	274	5.7	5.67	3.4	3.1	155
Vollgas PS	Fleckvieh	N/A	29	534	50.2	264	297	5.5	5.66	3.4	3.6	155
Ardo Ajax 5014	Hereford	0277155014	45	568	50.0	278	323	6.7	5.65	3.1	3.0	157
Ardo Vostock 5341	Hereford	0277155341	19	560	50.5	278	306	6.0	5.64	3.2	3.2	154
Matariki 110637	Hereford	0281110637	10	562	50.1	277	330	5.8	5.60	3.3	3.4	148
Mangatarā 335L	Limousin	MTA1L335	28	556	50.7	276	309	5.3	5.64	3.2	3.0	157
Mangatarā Jool	Limousin	MTAPJ145	28	533	50.8	265	292	5.5	5.65	3.3	3.3	160
Torrisdale Kakanui K123	Murray Grey	1427140123	41	567	50.1	278	311	6.3	5.64	3.2	3.3	156
Average of all DBPT bulls				564	49.6%	274	300	5.6	5.64	3.3	3.0	156

Table 4. Cohort 4 (2019-born calves) continued from previous page

Sire Name	Breed	Herdbook number	n carcase	Live weight (kg)	Dressing out (%)	Carcase weight (kg)	Marbling score	Rib fat depth (mm)	pH	Meat colour (1-9 scale)	Fat colour (1-9 scale)	Ossification *
Jipidji	Normande	FR5350920122	26	577	50.3	282	296	4.9	5.61	3.0	3.1	148
Glendhu Lochore 16603	Shorthorn	228516603	22	542	51.3	273	343	6.5	5.67	3.2	2.8	160
Kerrah Efficient E500	Simmental	1667AE0500	27	544	49.9	265	326	5.7	5.67	3.4	3.3	163
Leafland E121	Simmental	1614AE0121	12	581	50.5	288	294	5.0	5.67	3.3	3.1	168
Rissington AF184	Simmental	0049AF0184	18	555	49.7	271	324	5.5	5.68	3.2	3.2	153
Aschwood Black Sambo 501	South Devon	RVA15501 PZK	32	577	49.6	281	324	6.2	5.66	3.0	3.2	157
Parkvale Kiwi K01	Speckle Park	PRK K01	27	538	50.3	267	336	5.8	5.64	3.1	3.4	152
Focus Trinity 135263	Stabilizer	N/A	20	572	49.8	280	370	6.4	5.65	3.1	3.0	155
Stabilizer 165303	Stabilizer	N/A	46	573	49.9	280	340	6.0	5.62	3.1	3.2	161
Stabilizer 16S38	Stabilizer	N/A	15	571	49.3	276	318	5.8	5.68	3.2	3.5	162
Average of all DBPT bulls				564	49.6%	274	300	5.6	5.64	3.3	3.0	156

*Ossification was measured for the first time on 2018-born calves, but the number of progeny reported includes those born in previous cohorts for the link sires.

PART 2. TOP PERFORMING BULLS ACROSS COHORTS:

a. All-round performance from birth-carcase (sires of progeny born 2019 or earlier).

The ideal bull for dairy beef must produce a calf that is born easily and on-time, and that calf must then grow quickly to weaning, and then to processing, producing a good level of fatness in the carcase.

There are twelve bulls in the Progeny Test (within those for which carcase data has already been collected), that meet the following criteria: birth weight less than 40 kg, gestation length no more than 282 days, weaning age below average, carcase weight and marbling score above average.

Table 5. Bulls with lifetime progeny data that meet the “all-rounder” criteria - having good birth weight, gestation length, age at weaning, carcase weight and marbling score.

Sire Name	Breed	Herdbook number	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound EMA (cm ²)	Carcase weight (kg)	MSA marbling score
Focus 171293	Angus	NZE194990173075	280.5	38.4	79.2	174	289	422	74.4	285	359
Rissington C200	Angus	NZE14572015C200	278.8	33.5	80.7	174	289	418	75.9	282	392
Rissington Protégé 110002	Angus	NZE145720110002	278.5	37.7	80.2	175	292	431		282	322
Storth Oaks K122	Angus	NZE19507014K122	279.2	35.7	83.5	167	281	417	73.9	281	371
Storth Oaks M33	Angus	NZE1950716M33	279.8	36.2	77.5	179	297	426	75.3	285	329
Te Mania 15380	Angus	NZE16932015380	281.5	37.0	82.3	168	285	420	76.4	281	366
Ardo Vostock 5341	Hereford	0277155341	280.7	35.7	78.5	176	290	412	71.9	278	306
Mangatara 335L	Limousin	MTA1L335	280.3	36.5	81.5	165	280	409	74.0	276	309
Glenside Crumpy C4	Simmental	1312AC0004	280.3	37.1	78.8	182	298	434	76.1	289	308
Aschwood Black Sambo 501	South Devon	RVA15501 PZK	279.2	36.7	83.3	171	283	422	74.2	281	324
Focus Trinity 135263	Stabilizer	N/A	281.2	35.6	81.1	178	285	420	76.4	280	370
Stabilizer 165303	Stabilizer	N/A	278.6	34.5	80.5	175	286	416	74.5	280	340

Note: Bulls are listed alphabetically within breed. Rissington Protégé 110002 was used at Limestone Downs only and does not have ultrasound records on his progeny. Bulls with values highlighted indicate they are within the top 20% of tested bulls for that trait.

Table 6. All round performance of up-and-coming sires (sires of progeny born 2020 or 2021).

For bulls that do not have progeny old enough for processing yet, live weight at 600 days (2020-born) or 200 days (2021-born) was considered in place of carcass traits. There are nine bulls in the Progeny Test that meet the following criteria: birth weight less than 40 kg, gestation length no more than 282 days, 600-day weight (2020-sires only) or 200-day weight (2021-sires only) above average.

Sire Name	Breed	Herdbook number	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)
29AN1920 ABS Protégé 306	Angus	N/A	280	38.3	81.4	176	282	412
Focus 173075	Angus	NZE194990173075	278	36.3	81.6	177	299	427
Beechwood Imposer 44	Hereford	0051180044	279	36.3	75.3	175		
Beechwood In Time 7	Hereford	0051180007	281	34.4	80.0	175		
Mahuta Ocean 8073	Hereford	0828188073	280	36.4	80.7	183		
Wirruna Matty M288	Hereford	AUWNAM288	278	36.1	84.5	175	290	429
Torrisdale Pegasus P66	Murray Grey	1427180066	281	38.5	81.8	175		
Rissington New Standard AU158	Simmental	0049AU0158	278	38.8	77.7	187	305	445
Focus Stabilizer 5004 (red)	Stabilizer	N/A	281	37.2	83.0	177		

Note: Bulls are listed alphabetically within breed. Bulls with values highlighted indicate they are within the top 20% of tested bulls for that trait.

b. Carcase weight and marbling (sires of progeny born 2019 or earlier).

Table 7. Top 20 bulls for carcase weight (that have had at least 10 progeny processed).

Sire Name	Breed	Herdbook number	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound* EMA (cm ²)	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Kakahu Gerry 140506	Charolais	001140506E	282.6	39.4	75.6	185	316	456	76.7	296	274	5.7
Beechwood Doubtless	Hereford	0051140527	280.8	39.1	85.9	170	283	427		292	275	7.4
Storth Oaks H41	Angus	NZE19507012H41	280.0	40.8	81.9	174	288	427		292	299	5.1
Stabilizer 165287	Stabilizer	N/A	282.0	36.0	87.2	180	305	437	74.0	291	319	6.1
Glenside Crumpy C4	Simmental	1312AC0004	280.3	37.1	78.8	182	298	434	76.1	289	308	5.2
Janefield Ed	Simmental	1671AE0001	284.0	39.7	83.7	181	301	430	77.7	288	289	5.5
Leafland E121	Simmental	1614AE0121	282.3	38.8	76.2	179	295	437	76.2	288	294	5.0
Limehills Awesome X117	Hereford	0677020117	287.1	45.6	77.6	181	294	435		288	171	2.5
Koanui Briton 2044	Hereford	0216122044	284.6	37.6	80.0	175	291	427	73.6	285	271	7.0
Focus 171293	Angus	NZE194730171293	280.5	38.4	79.2	174	289	422	74.4	285	359	5.8
Storth Oaks M33	Angus	NZE1950716M33	279.8	36.2	77.5	179	297	426	75.3	285	329	5.8
Flagstaff Big Red E8	Hereford	0759090008	283.7	41.3	83.4	171	288	430		285	247	6.0
Koanui Unanimous 0408	Hereford	0216100408	283.8	40.2	80.0	175	294	431		284	229	4.4
Koanui Bedford 4081	Hereford	0216144081	282.6	41.0	77.0	175	290	433		283	241	4.2
Jipidji	Normande	FR5350920122	278.7	37.5	82.9	171	289	423	72.0	282	296	4.9
Rissington Protégé 110002	Angus	NZE145720110002	278.5	37.7	80.2	175	292	431		282	322	4.5
Rissington C200	Angus	NZE14572015C200	278.8	33.5	80.7	174	289	418	75.9	282	392	6.6
Kakahu For Bond 13007	Angus	NZE13300013007	281.3	38.4	84.8	175	280	409		282	263	4.0
Koanui Rocket 0219	Hereford	0216000219	283.7	38.3	82.5	175	290	423	72.9	282	268	6.0
Riverton Baltic 09 183	Hereford	0091090183	284.6	39.5	89.2	172	283	421		281	228	3.1

*Bulls used at Limestone Downs only do not have ultrasound records on their progeny.

Table 8. Top 20 bulls for marbling score (that have had at least 10 progeny processed).

Sire Name	Breed	Herdbook number	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound* EMA (cm ²)	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Seven Hills 85/15	Angus	NZE21159015085	280.6	35.2	90.8	163	275	399	75.8	269	433	6.4
Storth Oaks M64	Angus	NZE19507016M64	278.0	33.1	84.7	176	293	421	77.3	275	402	7.5
Rissington 160043	Angus	NZE145720160043	275.8	33.0	85.6	170	274	407	76.5	275	401	6.9
Waitangi M203	Angus	NZE18954016M203	279.1	36.4	80.6	172	286	407	74.4	273	400	6.4
Rissington C200	Angus	NZE14572015C200	278.8	33.5	80.7	174	289	418	75.9	282	392	6.6
Storth Oaks Angus Prime K5	Angus	NZE19507014K5	278.5	36.1	88.4	159	264	390	75.6	267	390	7.0
Te Mania Matrix 16018	Angus	NZE16932016018	281.1	36.6	82.8	174	285	411	76.8	272	384	6.4
Limehills Streaker 150368	Hereford	0677150368	284.3	38.2	81.3	177	293	425	73.6	279	372	7.1
Storth Oaks K122	Angus	NZE19507014K122	279.2	35.7	83.5	167	281	417	73.9	281	371	6.7
Focus Trinity 135263	Stabilizer	N/A	281.2	35.6	81.1	178	285	420	76.4	280	370	6.4
Te Mania 15380	Angus	NZE16932015380	281.5	37.0	82.3	168	285	420	76.4	281	366	6.7
Focus 171293	Angus	NZE194730171293	280.5	38.4	79.2	174	289	422	74.4	285	359	5.8
Linton 16107	Angus	NZE20305016107	282.2	34.3	80.1	172	282	404	74.1	265	351	6.4
Ardo Ezicalve Caspian	Hereford	0277066159	282.7	37.7	91.1	161	266	398		259	346	5.6
Te Mania Unlimited U3271	Angus	AUS0VTMU3271	282.3	38.0	86.3	168	279	410		272	346	4.7
Glendhu Lochore 16603	Shorthorn	228516603	282.8	36.4	85.9	166	275	402	76.8	273	343	6.5
Stabilizer 165303	Stabilizer	N/A	278.6	34.5	80.5	175	286	416	74.5	280	340	6.0
Te Whanga 16-039	Angus	10752016039	278.6	34.3	93.1	159	274	402	74.3	269	340	8.0
Storth Oaks Everest J20	Angus	NZE19507013J20	278.3	37.8	88.4	171	280	413		277	337	5.9
Parkvale Kiwi K01	Speckle Park	PRK K01	284.0	36.9	83.9	169	273	398	76.3	267	336	5.8

*Bulls used at Limestone Downs only do not have ultrasound records on their progeny.

c. 600-day weight (sires of progeny born 2020 or earlier)

Table 9. Top 20 bulls for 600-day weight (that have had at least 10 progeny reach 600 days of age).

Sire Name	Breed	Herdbook number	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound* EMA (cm ²)	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Kakahu Gerry 140506	Charolais	001140506E	282.6	39.4	75.6	185	316	456	76.7	296	274	6
Rissington New Standard Au158	Simmental	0049AU0158	278.1	38.8	77.7	187	305	445				
Stabilizer 165287	Stabilizer	N/A	282.0	36.0	87.2	180	305	437	74.0	291	319	6
Leafland E121	Simmental	1614AE0121	282.3	38.8	76.2	179	295	437	76.2	288	294	5
Limehills Awesome X117	Hereford	677020117	287.1	45.6	77.6	181	294	435	0.0	288	171	2
Glenside Crumpy C4	Simmental	1312AC0004	280.3	37.1	78.8	182	298	434	76.1	289	308	5
Koanui Bedford 4081	Hereford	216144081	282.6	41.0	77.0	175	290	433		283	241	4
Koanui Unanimous 0408	Hereford	216100408	283.8	40.2	80.0	175	294	431		284	229	4
Rissington Protégé 110002	Angus	NZE145720110002	278.5	37.7	80.2	175	292	431		282	322	4
Matariki 110637	Hereford	281110637	283.0	39.2	79.1	174	290	430	74.6	277	330	6
Stabilizer 16S38	Stabilizer	N/A	282.5	34.9	77.7	179	299	430	72.0	276	318	6
Janefield Ed	Simmental	1671AE0001	284.0	39.7	83.7	181	301	430	77.7	288	289	6
Flagstaff Big Red E8	Hereford	759090008	283.7	41.3	83.4	171	288	430		285	247	6
Wirruna Matty M288	Hereford	AUWNAM288	277.9	36.1	84.5	175	290	429				
Focus 173075	Angus	NZE194990173075	277.7	36.3	81.6	177	299	427				
Koanui Briton 2044	Hereford	216122044	284.6	37.6	80.0	175	291	427	73.6	285	271	7
Beechwood Doubtless	Hereford	51140527	280.8	39.1	85.9	170	283	427		292	275	7
Storth Oaks H41	Angus	NZE19507012H41	280.0	40.8	81.9	174	288	427		292	299	5
Storth Oaks M33	Angus	NZE19507016M33	279.8	36.2	77.5	179	297	426	75.3	285	329	6
Earnsclaugh Tussock 144307	Angus	210130144307	279.8	38.3	84.9	178	288	426	74.7	281	310	5

*Bulls used at Limestone Downs only do not have ultrasound records on their progeny. Bulls with progeny born in 2020 do not have a full record yet.

d. 400-day weight (sires of progeny born 2020 or earlier)

Table 10. Top 20 bulls for 400-day weight (that have had at least 10 progeny reach 400 days of age).

Sire Name	Breed	Herdbook number	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound* EMA (cm ²)	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Kakahu Gerry 140506	Charolais	001140506E	282.6	39.4	75.6	185	316	456	76.7	296	274	5.7
Rissington New Standard Au158	Simmental	0049AU0158	278.0	38.8	77.7	187	305	445				
Stabilizer 165287	Stabilizer	N/A	282.0	36.0	87.2	180	305	437	74.0	291	319	6.1
Janefield Ed	Simmental	1671AE0001	284.0	39.7	83.7	181	301	430	77.7	288	289	5.5
Focus 173075	Angus	NZE194990173075	278.0	36.3	81.6	177	299	427				
Stabilizer 16S38	Stabilizer	N/A	282.5	34.9	77.7	179	299	430	72.0	276	318	5.8
Glenside Crumpy C4	Simmental	1312AC0004	280.3	37.1	78.8	182	298	434	76.1	289	308	5.2
Storth Oaks M33	Angus	NZE19507016M33	279.8	36.2	77.5	179	297	426	75.3	285	329	5.8
Leafland E121	Simmental	1614AE0121	282.3	38.8	76.2	179	295	437	76.2	288	294	5.0
Koanui Unanimous 0408	Hereford	216100408	283.8	40.2	80.0	175	294	431		284	229	4.4
Storth Oaks K134	Angus	NZE19507014K134	279.2	42.7	80.2	174	294	446		302	266	2.3
Limehills Awesome X117	Hereford	677020117	287.1	45.6	77.6	181	294	435		288	171	2.5
Storth Oaks M64	Angus	NZE19507016M64	278.0	33.1	84.7	176	293	421	77.3	275	402	7.5
Limehills Streaker 150368	Hereford	0677150368	284.3	38.2	81.3	177	293	425	73.6	279	372	7.1
Rissington Protégé 110002	Angus	NZE145720110002	278.5	37.7	80.2	175	292	431		282	322	4.5
Koanui Briton 2044	Hereford	216122044	284.6	37.6	80.0	175	291	427	73.6	285	271	7.0
Matariki 110637	Hereford	281110637	283.0	39.2	79.1	174	290	430	74.6	277	330	5.8
Koanui Rocket 0219	Hereford	0216000219	283.7	38.3	82.5	175	290	423	72.9	282	268	6.0
Wirruna Matty M288	Hereford	AUWNAM288	278.0	36.1	84.5	175	290	429				
Ardo Vostock 5341	Hereford	0277155341	280.7	35.7	78.5	176	290	412	71.9	278	306	6.0

*Bulls used at Limestone Downs only do not have ultrasound records on their progeny.

e. 200-day weight (sires of progeny born 2021 or earlier)

Table 11. Top 20 bulls for 200-day weight (that have had at least 10 progeny reach 200 days of age).

Sire Name	Breed	Herdbook number	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound* EMA (cm ²)	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Rissington New Standard Au158	Simmental	0049AU0158	278.1	38.8	77.7	187	305	445				
Kakahu Gerry 140506	Charolais	001140506E	282.6	39.4	75.6	185	316	456	76.7	296	274	5.7
Mahuta Ocean 8073	Hereford	0828188073	279.6	36.4	80.7	183						
Glenside Crumpy C4	Simmental	1312AC0004	280.3	37.1	78.8	182	298	434	76.1	289	308	5.2
Kerrah Fortress F326	Simmental	1667AF0326	283.7	37.9	73.4	182						
Janefield Ed	Simmental	1671AE0001	284.0	39.7	83.7	181	301	430	77.7	288	289	5.5
Limehills Awesome X117	Hereford	677020117	287.1	45.6	77.6	181	294	435		288	171	2.5
Stabilizer 165287	Stabilizer	N/A	282.0	36.0	87.2	180	305	437	74.0	291	319	6.1
Leafland E121	Simmental	1614AE0121	282.3	38.8	76.2	179	295	437	76.2	288	294	5.0
Storth Oaks M33	Angus	NZE19507016M33	279.8	36.2	77.5	179	297	426	75.3	285	329	5.8
Stabilizer 16S38	Stabilizer	N/A	282.5	34.9	77.7	179	299	430	72.0	276	318	5.8
Earnsclaugh Tussock 144307	Angus	NZE210130144307	279.8	38.3	84.9	178	288	426	74.7	281	310	5.4
Focus Trinity 135263	Stabilizer	N/A	281.2	35.6	81.1	178	285	420	76.4	280	370	6.4
Focus Stabilizer S183 (Black)	Stabilizer	N/A	284.7	34.9	84.7	178						
Focus Prophet S36	Stabilizer	N/A	280.7	36.3	79.2	177	269	409				
Focus 173075	Angus	NZE194990173075	277.7	36.3	81.6	177	299	427				
Focus Cracker 4025	Angus	NZE194810184025	282.5	37.5	81.4	177						
Focus Stabilizer 5004 (Red)	Stabilizer	N/A	280.9	37.2	83.0	177						
Limehills Streaker 150368	Hereford	0677150368	284.3	38.2	81.3	177	293	425	73.6	279	372	7.1
Ardo Vostock 5341	Hereford	0277155341	280.7	35.7	78.5	176	290	412	71.9	278	306	6.0

*Bulls used at Limestone Downs only do not have ultrasound records on their progeny. Bulls with progeny born in 2020 or 2021 do not have a full record yet.

f. Rearing traits

Age at weaning has a significant impact on the cost of rearing calves.

Table 12. Top 20 bulls for age at weaning (for bulls that have had at least 10 progeny reach weaning).

Sire Name	Breed	Herdbook number	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	US* EMA (cm ²)	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Kerrah Fortress F326	Simmental	1667AF0326	283.7	37.9	73.4	182						
Beechwood Imposer 44	Hereford	51180044	279.1	36.3	75.3	175						
Increva PP	Fleckvieh	10/171930	288.0	41.2	75.5	172	283	416				
Kakahu Gerry 140506	Charolais	001140506E	282.6	39.4	75.6	185	316	456	76.7	296	274	5.7
Leafland E121	Simmental	1614AE0121	282.3	38.8	76.2	179	295	437	76.2	288	294	5.0
Koanui Bedford 4081	Hereford	0216144081	282.6	41.0	77.0	175	290	433		283	241	4.2
Totara Hill Steak House N6	Speckle Park	N/A	284.5	38.3	77.4	173						
Storth Oaks M33	Angus	NZE19507016M33	279.8	36.2	77.5	179	297	426	75.3	285	329	5.8
Limehills Awesome X117	Hereford	677020117	287.1	45.6	77.6	181	294	435		288	171	2.5
Stabilizer 16S38	Stabilizer	N/A	282.5	34.9	77.7	179	299	430	72.0	276	318	5.8
Rissington New Standard Au158	Simmental	0049AU0158	278.1	38.8	77.7	187	305	445				
Rissington AF184	Simmental	0049AF0184	283.4	37.6	77.9	176	278	416	73.2	271	324	5.5
Yavenvale Nockout N312	Hereford	YAVN312	282.8	38.4	78.3	173	277	411				
Ardo Vostock 5341	Hereford	0277155341	280.7	35.7	78.5	176	290	412	71.9	278	306	6.0
Limehills Stamper	Hereford	0677110428	285.3	42.0	78.8	173	279	416		271	219	3.5
Glenside Crumpy C4	Simmental	1312AC0004	280.3	37.1	78.8	182	298	434	76.1	289	308	5.2
Kairaumati Coal Face 1482	Hereford	1483140082	284.5	40.3	78.9	173	276	402		267	241	7.2
Matariki 110637	Hereford	281110637	283.0	39.2	79.1	174	290	430	74.6	277	330	5.8
Focus 171293	Angus	NZE194730171293	280.5	38.4	79.2	174	289	422	74.4	285	359	5.8
Focus Prophet S36	Stabilizer	N/A	280.7	36.3	79.2	177	269	409				

*Bulls used at Limestone Downs only do not have ultrasound records on their progeny. Bulls with progeny born in 2020 or 2021 do not have a full record yet.

g. Calving traits (sires of progeny born 2021 or earlier)

Table 13. Top 20 bulls for gestation length (for bulls that have had at least 10 progeny born).

Sire Name	Breed	Herdbook number	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound* EMA (cm ²)	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Rissington 160043	Angus	NZE145720160043	275.8	33.0	85.6	170	274	407	76.5	275	401	6.9
Bluestone 140027	Hereford	1683140027	276.5	38.7	88.6	169	276	409		273	320	4.5
Seven Hills 173-06	Angus	NZE21159006173	276.7	37.7	89.6	165	269	402		263	267	3.7
Glanworth 17013	Angus	12154017013	277.0	32.2	89.4	171	281	415				
Bruno van de Plashoeve	Belgian Blue	NL671357027	277.1	39.2	82.3	164	276	400				
Matauri Reality 839	Angus	14647008839	277.7	38.1	83.0	167	276	408		272	331	4.4
Focus 173075	Angus	NZE194990173075	277.7	36.3	81.6	177	299	427				
Wirruna Matty M288	Hereford	AUWNAM288	278.0	36.1	84.5	175	290	429				
Storth Oaks M64	Angus	NZE19507016M64	278.0	33.1	84.7	176	293	421	77.3	275	402	7.5
Rissington New Standard AU158	Simmental	0049AU0158	278.1	38.8	77.7	187	305	445				
Bluestone 140015	Hereford	1683140015	278.2	41.3	85.2	164	273	418		280	291	2.8
Storth Oaks Everest J20	Angus	NZE19507013J20	278.3	37.8	88.4	171	280	413		277	337	5.9
Hiwiroa Patriach 14044	Shorthorn	232314044	278.3	37.4	82.4	172	279	402	73.5	275	289	5.6
Flagstaff Dynamo G6	Hereford	759110006	278.3	38.0	84.6	169	279	414		271	280	5.4
Storth Oaks Angus Prime K5	Angus	NZE19507014K5	278.5	36.1	88.4	159	264	390	75.6	267	390	7.0
Rissington Protégé 110002	Angus	NZE145720110002	278.5	37.7	80.2	175	292	431		282	322	4.5
Te Whanga 16-039	Angus	10752016039	278.6	34.3	93.1	159	274	402	74.3	269	340	8.0
Stabilizer 165303	Stabilizer	N/A	278.6	34.5	80.5	175	286	416	74.5	280	340	6.0
Grampians Lottery K13	Angus	21150014K13	278.6	40.2	89.3	157	262	392		256	290	4.6
Jipidji	Normande	FR5350920122	278.7	37.5	82.9	171	289	423	72.0	282	296	4.9

*Bulls used at Limestone Downs only do not have ultrasound records on their progeny. Bulls with progeny born in 2020 or 2021 do not have a full record yet.