



# Dairy Beef Progeny Test Report

JUNE 2021

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## Introduction

The Dairy Beef Progeny Test (DBPT) 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 DBPT was established at Pāmu's Renown farm at Wairakei Estate. Bulls of any breed for which the EBV indicated they were likely to be excellent bulls for dairy beef systems were selected and progeny tested through the generation of calves in the Renown dairy herd. Calves were reared under commercial conditions and finished at Pāmu's Orakonui farm at Wairakei Estate.

The 2018-born calves from Renown were processed between October 2020 and March 2021. The 2019-born calves have been measured up to 600-day weight and will be ultrasound scanned and processed in 2021/22. The 2020-born calves have been measured up to 200-day weight. A new cohort of calves is expected in spring 2021, and we will shortly be calling for nominations for the 2021 mating to produce the 2022-born cohort.

Part one of this report provides updates on the latest traits recorded for each cohort, including the first birth-to-carcase performance data on bulls tested at Renown. Part two 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

### **2020-born calves: birth, rearing and growth traits up to 200 days of age**

Six hundred and ninety-four calves were DNA-verified to Progeny Test sires in spring 2020. Once again, there was no problem with calving difficulty. There were only 6 assisted calvings, all of which involved a malpresented calf. The mean birth weight was consistent with previous seasons. Calves were reared on two Pāmu farms and weaned at a mean live weight of 85kg.

These calves have been recorded up to 200-day weight, and their next measurement will be 400-day weight in Spring 2021.

Note: one sire with fewer than 10 progeny born has been excluded from the report.

### **2019-born calves: 400-day and 600-day weight**

The 2019-born calves have been run in four groups since weaning (two groups of heifers, two groups of steers) and are on track for processing in the coming spring/summer and will have ultrasound data collected prior to processing.

### **2018-born calves: Carcase traits assessed by ultrasound and at processing**

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. Ultrasound scanning for carcase traits was conducted separately for heifers and steers, with each event occurring prior to the processing of the first heifers, or first steers, respectively. The average age at ultrasound scanning was 825 days, and the average age at processing was 870 days.

All 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, 3% of cattle processed from the 2018-born cohort had pH of 5.8 or more. The majority of cattle (97.6%) graded P2, 1.9% graded L2 and 0.5% graded P3. Fat colour scores of five or above are likely to result in downgrading for yellowness. Overall, 8% of cattle processed from the 2018-born cohort reached this threshold for yellowness. Cattle were processed through Silver Fern Farms' Pacific Plant, where they were assessed using the BeefEQ standard; 38% of heifers and 24% of steers processed reached the reserve grade.

Note: one sire with fewer than 10 progeny processed has been excluded from the report.

**Table 1. Cohort 5 Sires (2020-born calves): Average gestation length, birth weight, weaning age and 200-day weight.**

Sire Name	Herdbook number	Breed	n born	Gestation length (days)	Birth weight (kg)	n weaned	Weaning age (days)	200-day weight (kg)
29AN1920 ABS Protégé 306	N/A	Angus	33	279.6	38.5	31	82.1	177
Focus 173075	194990173075	Angus	31	277.7	36.4	29	82.3	179
Glanworth 17013	12154017013	Angus	45	277.1	32.5	43	89.5	172
Kincardine KC Kingdom 15-531	13459015531	Angus	29	280.1	35.0	28	87.6	162
Rissington 160043	145720160043	Angus	46	275.8	32.9	43	87.9	172
Shalom Waigroup 319/07	10596007319	Angus	21	280.0	36.8	19	82.9	179
Bruno van de Plashoeve	NL671357027	Belgian Blue	36	277.1	39.4	35	83.0	165
JN Balder D403	HB011124	Black Hereford	31	279.7	36.0	28	91.5	158
829XB0064 NuEra T14 0064	829AN1920	Composite	21	280.3	36.4	19	86.5	169
Increva PP	10/171930	Fleckveih	34	288.1	41.3	31	76.2	173
Ardo Ajax 7086	0277177086	Hereford	31	280.7	34.1	28	88.5	166
Ardo Fargo 7022	0277177022	Hereford	45	282.5	37.3	43	84.4	164
Koanui Legend 7109	0216177109	Hereford	36	283.2	36.8	32	84.0	169
Matariki 110637	0281110637	Hereford	28	283.0	39.2	28	80.4	175
Wirruna Matty M288	AUWNAM288	Hereford	29	278.0	36.3	29	85.3	175
Yavenvale Nockout N312	YAVN312	Hereford	27	282.9	38.6	26	79.0	173
Mangatara 798N	MTA1N798	Limousin	33	280.8	37.0	29	81.1	176
Tinopai VJ Awhitu 1373	172917037	Red Devon	19	282.3	38.2	18	81.4	164
Glenside Crumpy C4	1312AC0004	Simmental	55	280.4	36.9	52	80.3	185
Kerrah Exchequer E502	1667AE0502	Simmental	34	285.3	37.8	29	82.6	169
Leafland E121	1614AE0121	Simmental	28	282.6	39.2	27	79.4	180
Rissington New Standard AU158	0049AU0158	Simmental	28	278.1	39.0	28	78.6	188
Stabilizer Prophet S36	N/A	Stabilizer	40	280.8	36.4	37	79.8	178
<b>Average of all DPBT bulls</b>				<b>281.5</b>	<b>37.7</b>		<b>85.4</b>	<b>173</b>

**Table 2. Cohort 4 Sires (2019-born calves): Average 400-day and 600-day weight.**

Sire Name	Herdbook Number	Breed	n at 400d	400-day weight (kg)	600-day weight (kg)
Focus 171293	194730171293	Angus	21	298	433
Linton 16-107	20305016107	Angus	19	290	415
Rissington 160043	145720160043	Angus	30	284	422
Storth Oaks M33	1950716M33	Angus	29	305	438
Storth Oaks M64	19507016M64	Angus	25	302	433
Te Mania 15380	16932015380	Angus	39	293	433
Te Mania Matrix	1693201601	Angus	31	293	423
Waitangi M203	18954016M203	Angus	28	294	419
Kakahu Gerry 140506	001140506E	Charolais	35	324	469
Vollgas PS	N/A	Fleckveih	32	278	406
Ardo Ajax 5014	0277155014	Hereford	48	297	428
Ardo Vostock 5341	0277155341	Hereford	24	298	425
Matariki 110637	0281110637	Hereford	9	291	428
Mangatara 335L	MTA1L335	Limousin	36	289	421
Mangatara Jool	MTAPJ145	Limousin	32	276	401
Torrisdale Kakanui K123	1427140123	Murray Grey	43	290	420
Jipidji	FR5350920122	Normande	29	297	434
Glendhu Lochore 16603	228516603	Shorthorn	28	283	413
Kerrah Efficient E500	1667AE0500	Simmental	32	276	413
Leafland E121	1614AE0121	Simmental	13	307	447
Rissington AF184	0049AF0184	Simmental	26	286	427
Aschwood Black Sambo 501	RVA15501 PZK	South Devon	36	291	433
Parkvale Kiwi K01	PRK K01	Speckle Park	32	282	410
Stabilizer Trinity 135263	N/A	Stabilizer	24	293	432
Stabilizer 165303	N/A	Stabilizer	48	294	429
Stabilizer 16S38	N/A	Stabilizer	17	307	442
<b>Average of all DPBT bulls</b>				<b>289</b>	<b>428</b>

**Table 3. Cohort 3 Sires (2018-born calves): Average live weight, eye muscle area (EMA), intramuscular fat (IMF) and fat depth at the P8 and rib sites.**  
All scan traits are adjusted to a common live weight at scanning.

Sire Name	Herdbook number	Breed	n scanned	Liveweight (kg)	EMA (cm <sup>2</sup> )	IMF (%)	P8 fat depth (mm)	Rib fat depth (mm)
Earnsclough Tussock 144307	210130144307	Angus	15	547	74.4	4.1	4.8	3.6
Rissington C200	14572015C200	Angus	34	539	75.5	6.0	6.8	4.6
Seven Hills 85/15	21159015085	Angus	28	516	75.3	5.8	5.7	4.3
Storth Oaks Angus Prime K5	19507014K5	Angus	10	502	75.0	6.1	6.7	5.8
Storth Oaks K122	19507014K122	Angus	32	542	73.5	5.2	6.6	4.6
Storth Oaks L26	19507015L26	Angus	35	518	73.5	5.1	6.0	4.7
Te Mania 15380	16932015380	Angus	28	544	75.7	5.8	8.0	5.9
Te Whanga 16-039	10752016039	Angus	21	525	73.8	5.7	6.5	5.3
Kakahu Gerry 140506	001140506E	Charolais	24	575	77.2	3.0	6.6	4.3
Ardo Ajax 5014	0277155014	Hereford	33	534	74.4	3.6	6.4	4.9
Ardo Bismarck 4256	0277144256	Hereford	24	502	75.9	4.2	6.7	5.2
Bluestone 160022	1683160022	Hereford	23	510	73.6	4.1	6.3	4.5
Craigmore Ike 140260	0169140260	Hereford	23	511	72.1	3.7	6.0	4.5
Koanui Briton 2044	0216122044	Hereford	27	556	73.1	4.6	8.3	6.1
Koanui Rocket 0219	0216000219	Hereford	16	546	72.5	3.6	7.1	5.0
Limehills Streaker 150368	0677150368	Hereford	25	551	73.1	5.0	8.0	5.8
Monymusk Henry	0272120012	Hereford	18	541	71.0	3.2	6.9	4.9
Shrimptons Hill 130168	0300130168	Hereford	29	516	73.0	3.2	6.4	4.4
Piwakawaka Kagan	PIWPKI	Limousin	21	525	75.0	2.9	4.1	3.0
Torrisdale Kakanui K123	1427140123	Murray Grey	28	523	73.7	4.5	5.2	4.2
Hiwiroa Patriach 14044	232314044	Shorthorn	25	516	73.1	3.4	5.0	4.1
Glenside Crumpy C4	1312AC0004	Simmental	33	557	75.8	4.1	5.2	3.6
Janefield Ed	1671AE0001	Simmental	21	556	77.3	3.2	4.4	3.6
Stabilizer 165287	N/A	Stabilizer	29	565	73.7	4.1	6.4	4.5
Stabilizer 165303	N/A	Stabilizer	32	540	74.9	4.1	6.8	5.2
<b>Average of all DBPT bulls*</b>				<b>535</b>	<b>74.2</b>	<b>4.4</b>	<b>6.3</b>	<b>4.7</b>

\*The 2018-born calves are the first cohort to be ultrasound scanned, so the average presented is only for these bulls.

**Table 4. Cohort 3 Sires (2018-born calves): Average live weight pre-slaughter, dressing out percentage, carcass weight, MSA marbling score, rib fat depth, pH, meat colour, fat colour and ossification.** Rib fat depth and marbling score are adjusted to a common carcass weight, and meat colour is adjusted for pH.

Sire Name	Herdbook number	Breed	n carcass	Live weight (kg)	Dressing out (%)	Carcass weight (kg)	MSA Marbling score	Rib fat Depth (mm)	pH	Meat colour (1-9 scale)	Fat colour (1-9 scale)	Ossification*
Earnsclough Tussock 144307*	210130144307	Angus	28	584	50.5	283	308	6.0	5.64	3.2	2.8	159
Rissington C200	14572015C200	Angus	34	581	50.7	284	390	7.3	5.64	3.0	3.3	169
Seven Hills 85/15	21159015085	Angus	26	552	50.9	271	430	7.0	5.65	3.3	3.2	158
Storth Oaks Angus Prime K5*	19507014K5	Angus	20	549	50.7	269	388	7.6	5.64	3.2	2.9	165
Storth Oaks K122	19507014K122	Angus	31	582	50.4	283	369	7.4	5.61	3.0	3.5	162
Storth Oaks L26	19507015L26	Angus	35	563	49.2	266	285	7.3	5.68	3.3	3.1	165
Te Mania 15380	16932015380	Angus	28	587	50.4	285	368	7.4	5.65	3.0	3.1	159
Te Whanga 16-039	10752016039	Angus	21	558	50.4	271	337	8.6	5.65	3.5	3.1	160
Kakahu Gerry 140506	001140506E	Charolais	24	606	51.0	298	257	6.1	5.69	3.4	3.1	158
Ardo Ajax 5014	0277155014	Hereford	33	576	50.4	280	317	7.4	5.67	3.1	3.0	159
Ardo Bismarck 4256*	0277144256	Hereford	31	535	50.2	259	301	6.9	5.64	3.3	2.9	154
Bluestone 160022	1683160022	Hereford	23	546	50.5	266	269	6.6	5.63	3.2	3.3	159
Craigmore Ike 140260	0169140260	Hereford	23	543	49.9	261	290	6.4	5.63	3.3	3.3	165
Koanui Briton 2044*	0216122044	Hereford	36	592	50.2	287	269	7.7	5.67	3.4	3.5	162
Koanui Rocket 0219*	0216000219	Hereford	41	588	50.2	284	266	6.7	5.69	3.3	3.2	150
Limehills Streaker 150368	0677150368	Hereford	25	582	50.0	281	370	7.8	5.63	3.3	3.0	160
Monymusk Henry	0272120012	Hereford	18	581	50.1	281	241	7.1	5.6	3.3	3.5	160
Shrimptons Hill 130168	0300130168	Hereford	29	560	50.1	271	285	6.7	5.63	3.2	2.6	159
Piwakawaka Kagan	PIWPKI	Limousin	21	564	50.8	275	250	5.8	5.63	3.2	3.3	155
Torrisdale Kakanui K123	1427140123	Murray Grey	28	567	50.9	278	313	7.0	5.65	3.1	3.4	158
Hiwiroa Patriach 14044	232314044	Shorthorn	24	563	50.9	276	287	6.3	5.65	3.4	3.3	163
Glenside Crumpy C4	1312AC0004	Simmental	33	600	50.2	291	306	5.9	5.63	3.1	3.4	163
Janefield Ed	1671AE0001	Simmental	21	594	50.9	290	287	6.2	5.63	3.3	3.0	157
Stabilizer 165287	N/A	Stabilizer	29	606	50.2	293	317	6.7	5.66	3.3	3.0	158
Stabilizer 165303	N/A	Stabilizer	32	580	50.3	281	347	6.7	5.63	3.0	3.2	162
<b>Average of all DBPT bulls</b>				<b>570</b>	<b>50.2</b>	<b>276</b>	<b>289</b>	<b>5.9</b>	<b>5.65</b>	<b>3.2</b>	<b>3.0</b>	<b>160</b>

\*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

### All round performance from birth to carcass (sires of progeny born 2018 or earlier).

The ideal bull for dairy beef must produce a calf that is born easily and on-time. That calf must grow quickly to processing, producing a good level of fatness in the carcass. There are eleven bulls in the progeny test (within those for which carcass data has already been collected), that meet the following criteria: birth weight less than 40 kg, gestation length no more than 282 days, carcass 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, carcass weight and marbling score.**

Sire Name	Herdbook number	Breed	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound EMA (cm <sup>2</sup> )	Carcass weight (kg)	Marbling score
Earnsclough Tussock 144307	210130144307	Angus	279.9	37.9	86.8	182	296	440	74.4	283	308
Focus 110002	145720110002	Angus	278.6	37.4	81.0	178	302	447		284	321
Rissington C200	14572015C200	Angus	278.8	33.2	82.6	177	297	432	75.5	284	390
Storth Oaks Everest J20	19507013J20	Angus	278.3	37.5	89.5	174	290	429		279	335
Storth Oaks K122	19507014K122	Angus	279.2	35.4	85.3	170	289	430	73.5	283	369
Te Mania Limitless	16932015380	Angus	281.5	36.7	84.5	171	293	433	75.7	285	368
Ardo Ajax 5014	0277155014	Hereford	281.2	34.1	86.4	177	297	428	74.4	280	317
Torrisdale Kakanui K123	1427140123	Murray Grey	280.5	36.9	87.8	171	290	420	73.7	278	313
Glenside Crumpy C4	1312AC0004	Simmental	280.4	36.9	80.3	185	304	449	75.8	291	306
Stabilizer 165287	N/A	Stabilizer	282.0	35.7	89.3	183	312	451	73.7	293	317
Stabilizer 165303	N/A	Stabilizer	278.6	34.1	82.7	178	294	429	74.9	281	347

Note: bulls are listed alphabetically within breed. Focus 110002 and Storth Oaks Everest J20 were used at Limestone Downs only and do not have ultrasound records on their progeny. Bulls with values highlighted indicate they are within the top 20% of tested bulls for that trait.

### All round performance for up-and-coming sires (sires of progeny born 2019 or 2020).

For bulls that do not have progeny old enough for processing yet, live weight at 600 days (2019-born) or 200 days (2020-born) was considered in place of carcass traits. There are twelve 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 (2019-sires only) or 200-day weight (2020-sires only) above average.

**Table 6. Bulls that meet “up-and-coming” criteria, having good birth weight, gestation length, 600-day weight (2019-sires) or 200-day weight (2020-sires).**

Sire Name	Herdbook number	Breed	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	N/A	Angus	279.6	38.5	82.1	177		
Focus 171293	194730171293	Angus	280.5	38.1	82.0	176	298	433
Focus 173075	194990173075	Angus	277.7	36.4	82.3	179		
Storth Oaks M33	1950716M33	Angus	279.8	35.9	80.3	181	305	438
Storth Oaks M64	19507016M64	Angus	278.1	32.8	87.5	177	302	433
Wirruna Matty M288	AUWNAM288	Hereford	278.0	36.3	85.3	175		
Mangatarā 798N	MTA1N798	Limousin	280.8	37.0	81.1	176		
Jipidji	FR5350920122	Normande	278.7	37.2	85.6	172	297	434
Rissington New Standard AU158	0049AU0158	Simmental	278.1	39.0	78.6	188		
Aschwood Black Sambo 501	RVA15501 PZK	South Devon	279.2	36.4	86.1	172	291	433
Stabilizer Prophet S36	N/A	Stabilizer	280.8	36.4	79.8	178		
Stabilizer Trinity 135263	N/A	Stabilizer	281.1	35.0	86.7	179	293	432

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

## Top performing bulls for individual traits.

**Table 7. Top 20 bulls for gestation length (for bulls that have had at least 10 progeny born).**

Sire Name	Herdbook number	Breed	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	US* EMA (cm <sup>2</sup> )	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Rissington 160043	145720160043	Angus	275.8	32.9	87.9	172	284	422				
Bluestone 140027	1683140027	Hereford	276.5	38.4	89.2	172	285	424		275	318	5.1
Seven Hills 173-06	21159006173	Angus	276.7	37.4	91.7	168	278	417		265	264	4.3
Glanworth 17013	12154017013	Angus	277.1	32.5	89.5	172						
Bruno van de Plashoeve	NL671357027	Belgian Blue	277.1	39.4	83.0	165						
Matauri Reality 839	14647008839	Angus	277.7	37.8	84.3	170	285	424		274	329	5.0
Focus 173075 (P)	194990173075	Angus	277.7	36.4	82.3	179						
Wirruna Matty M288	AUWNAM288	Hereford	278.0	36.3	85.3	175						
Storth Oaks M64	19507016M64	Angus	278.1	32.8	87.5	177	302	433				
Rissington New Standard AU158	0049AU0158	Simmental	278.1	39.0	78.6	188						
Bluestone 140015	1683140015	Hereford	278.2	41.0	86.9	167	282	432		282	289	3.4
Storth Oaks Everest J20	19507013J20	Angus	278.3	37.5	89.5	174	290	429		279	335	6.5
Hiwiroa Patriach 14044	232314044	Shorthorn	278.3	37.0	84.1	175	286	416	73.1	276	287	6.3
Flagstaff Dynamo	0759110006	Hereford	278.3	37.7	86.4	172	288	428		273	278	6.1
Storth Oaks Angus Prime K5	19507014K5	Angus	278.5	35.8	90.2	162	272	404	75.0	269	388	7.6
Focus 110002	145720110002	Angus	278.6	37.4	81.0	178	302	447		284	321	5.1
Te Whanga 16-039	10752016039	Angus	278.6	33.9	95.0	163	281	415	73.8	271	337	8.6
Stabilizer 165303	N/A	Stabilizer	278.6	34.1	82.7	178	294	429	74.9	281	347	6.7
Grampians Lottery K13	21150014K13	Angus	278.6	39.9	89.7	161	271	405		258	287	5.2
Jipidji	FR5350920122	Normande	278.7	37.2	85.6	172	297	434				

\*Bulls used at Limestone Downs only do not have ultrasound records on their progeny. Bulls with progeny born in 2019 or 2020 do not have a full record yet.

**Table 8. Top 20 bulls for birth weight (for bulls that have had at least 10 progeny born).**

SireName	Herdbook number	Breed	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	US* EMA (cm <sup>2</sup> )	Carcase weight (kg)	MSA marbling score
Glanworth 17013	12154017013	Angus	277.1	32.5	89.5	172					
Storth Oaks M64	19507016M64	Angus	278.1	32.8	87.5	177	302	433			
Rissington 160043	145720160043	Angus	275.8	32.9	87.9	172	284	422			
Rissington C200	14572015C200	Angus	278.8	33.2	82.6	177	297	432	75.5	284	390
Te Whanga 16-039	10752016039	Angus	278.6	33.9	95.0	163	281	415	73.8	271	337
Linton 16-107	20305016107	Angus	282.6	34.0	82.8	174	290	415			
Ardo Ajax 5014	0277155014	Hereford	281.2	34.1	86.4	177	297	428	74.4	280	317
Ardo Ajax 7086	0277177086	Hereford	280.7	34.1	88.5	166					
Stabilizer 165303	N/A	Stabilizer	278.6	34.1	82.7	178	294	429	74.9	281	347
Storth Oaks L26	19507015L26	Angus	278.9	34.3	89.8	174	278	416	73.5	266	285
Stabilizer 16S38	N/A	Stabilizer	282.7	34.6	80.5	181	307	442			
Seven Hills 85/15	21159015085	Angus	280.6	34.9	92.6	166	283	412	75.3	271	430
Kincardine KC Kingdom 15-531	13459015531	Angus	280.1	35.0	87.6	162					
Stabilizer Trinity 135263	N/A	Stabilizer	281.1	35.0	86.7	179	293	432			
Kerrah Efficient E500	1667AE0500	Simmental	283.5	35.3	87.9	172	276	413			
Storth Oaks K122	19507014K122	Angus	279.2	35.4	85.3	170	289	430	73.5	283	369
Ardo Vostock 5341	0277155341	Hereford	280.7	35.4	81.3	178	298	425			
Stabilizer 165287	N/A	Stabilizer	282.0	35.7	89.3	183	312	451	73.7	293	317
Storth Oaks Angus Prime K5	19507014K5	Angus	278.5	35.8	90.2	162	272	404	75.0	269	388
Linton 13041	20305013041	Angus	281.4	35.8	89.8	170	283	424		271	321

\*Bulls used at Limestone Downs only do not have ultrasound records on their progeny. Bulls with progeny born in 2019 or 2020 do not have a full record yet.

**Table 9. Top 20 bulls for age at weaning (for bulls that have had at least 10 progeny reach weaning).**

SireName	Herdbook number	Breed	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	US* EMA (cm <sup>2</sup> )	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Increva PP	10/171930	Fleckveih	288.1	41.3	76.2	173						
Kakahu Gerry 140506	001140506E	Charolais	282.6	39.1	77.7	187	324	469	77.2	298	257	6.1
Rissington New Standard AU158	0049AU0158	Simmental	278.1	39.0	78.6	188						
Koanui Bedford 4081	0216144081	Hereford	282.6	40.7	78.8	178	299	448		285	240	4.8
Yavenvale Nockout N312	YAVN312	Hereford	282.9	38.6	79.0	173						
Limehills Awesome X117	0677020117	Hereford	287.2	45.3	79.0	184	304	451		289	170	3.1
Leafland E121	1614AE0121	Simmental	282.6	39.2	79.4	180	307	447				
Stabilizer Prophet S36	N/A	Stabilizer	280.8	36.4	79.8	178						
Limehills Stamper 20719	0677110428	Hereford	285.3	41.7	79.9	176	288	431		273	217	4.1
Kairaumati Coal Face 1482	1483140082	Hereford	284.5	40.0	80.1	176	285	417		268	239	7.9
Storth Oaks M33	1950716M33	Angus	279.8	35.9	80.3	181	305	438				
Glenside Crumpy C4	1312AC0004	Simmental	280.4	36.9	80.3	185	304	449	75.8	291	306	5.9
Matariki 110637	0281110637	Hereford	283.0	39.2	80.4	175	291	428				
Stabilizer 16S38	N/A	Stabilizer	282.7	34.6	80.5	181	307	442				
Rissington AF184	0049AF0184	Simmental	283.4	37.3	80.6	178	286	427				
Beechwood Turk	0051100094	Hereford	281.4	38.3	80.9	172	289	431		274	211	4.6
Focus 110002	145720110002	Angus	278.6	37.4	81.0	178	302	447		284	321	5.1
Mangatara 798N	MTA1N798	Limousin	280.8	37.0	81.1	176						
Westholm Koala K13	0421090013	Hereford	282.6	37.8	81.3	175	291	429		273	266	5.9
Koanui Unanimous 0408	0216100408	Hereford	283.8	39.9	81.3	179	304	445		286	227	5.1

\*Bulls used at Limestone Downs only do not have ultrasound records on their progeny. Bulls with progeny born in 2019 or 2020 do not have a full record yet.

**Table 10. Top 20 bulls for 600-day weight (that have had at least 10 progeny reach 600 days of age, born 2019 or earlier).**

SireName	Herdbook number	Breed	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound* EMA (cm <sup>2</sup> )	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Kakahu Gerry 140506	001140506E	Charolais	282.6	39.1	77.7	187	324	469	77.2	298	257	6.1
Stabilizer 165287	N/A	Stabilizer	282.0	35.7	89.3	183	312	451	73.7	293	317	6.7
Limehills Awesome X117	0677020117	Hereford	287.2	45.3	79.0	184	304	451		289	170	3.1
Glenside Crumpy C4	1312AC0004	Simmental	280.4	36.9	80.3	185	304	449	75.8	291	306	5.9
Koanui Bedford 4081	0216144081	Hereford	282.6	40.7	78.8	178	299	448		285	240	4.8
Leafland E121	1614AE0121	Simmental	282.6	39.2	79.4	180	307	447				
Focus 110002	145720110002	Angus	278.6	37.4	81.0	178	302	447		284	321	5.1
Koanui Unanimous 0408	0216100408	Hereford	283.8	39.9	81.3	179	304	445		286	227	5.1
Flagstaff Big Red E8	0759090008	Hereford	283.8	41.0	84.8	174	297	445		286	246	6.6
Janefield Ed	1671AE0001	Simmental	284.0	39.3	85.7	185	309	443	77.3	290	287	6.2
Shalom Waigroup 319/07	10596007319	Angus	280.0	36.8	82.9	179	298	443		282	268	4.6
Storth Oaks H41	19507012H41	Angus	280.0	40.5	83.0	177	298	443		293	298	5.7
Stabilizer 16S38	N/A	Stabilizer	282.7	34.6	80.5	181	307	442				
Beechwood Doubtless	0051140527	Hereford	280.8	38.8	86.5	173	292	441		294	273	8.1
Koanui Briton 2044	0216122044	Hereford	284.6	37.2	81.7	178	299	441	73.1	287	269	7.7
Earnsclaugh Tussock 144307	210130144307	Angus	279.9	37.9	86.8	182	296	440	74.4	283	308	6.0
Limehills Streaker 150368	0677150368	Hereford	284.3	37.9	83.1	180	300	439	73.1	281	370	7.8
Storth Oaks M33	1950716M33	Angus	279.8	35.9	80.3	181	305	438				
Wirruna Echucae 99	AUWNAE99	Hereford	283.4	38.6	82.4	174	296	437		283	265	5.1
Koanui Rocket 0219	0216000219	Hereford	283.7	38.0	83.8	179	298	437	72.5	284	266	6.7

\*Bulls used at Limestone Downs only do not have ultrasound records on their progeny. Bulls with progeny born in 2019 do not have a full record yet.

**Table 11. Top 20 bulls for carcase weight (that have had at least 10 progeny processed, born 2018 or earlier).**

Sire Name	Herdbook number	Breed	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound* EMA (cm <sup>2</sup> )	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Kakahu Gerry 140506	001140506E	Charolais	282.6	39.1	77.7	187	324	469	77.2	298	257	6.1
Beechwood Doubtless	0051140527	Hereford	280.8	38.8	86.5	173	292	441		294	273	8.1
Storth Oaks H41	19507012H41	Angus	280.0	40.5	83.0	177	298	443		293	298	5.7
Stabilizer 165287	N/A	Stabilizer	282.0	35.7	89.3	183	312	451	73.7	293	317	6.7
Glenside Crumpy C4	1312AC0004	Simmental	280.4	36.9	80.3	185	304	449	75.8	291	306	5.9
Janefield Ed	1671AE0001	Simmental	284.0	39.3	85.7	185	309	443	77.3	290	287	6.2
Limehills Awesome X117	0677020117	Hereford	287.2	45.3	79.0	184	304	451		289	170	3.1
Koanui Briton 2044	0216122044	Hereford	284.6	37.2	81.7	178	299	441	73.1	287	269	7.7
Flagstaff Big Red E8	0759090008	Hereford	283.8	41.0	84.8	174	297	445		286	246	6.6
Koanui Unanimous 0408	0216100408	Hereford	283.8	39.9	81.3	179	304	445		286	227	5.1
Te Mania 15380	16932015380	Angus	281.5	36.7	84.5	171	293	433	75.7	285	368	7.4
Koanui Bedford 4081	0216144081	Hereford	282.6	40.7	78.8	178	299	448		285	240	4.8
Focus 110002	145720110002	Angus	278.6	37.4	81.0	178	302	447		284	321	5.1
Rissington C200	14572015C200	Angus	278.8	33.2	82.6	177	297	432	75.5	284	390	7.3
Koanui Rocket 0219	0216000219	Hereford	283.7	38.0	83.8	179	298	437	72.5	284	266	6.7
Kakahu For Bond 13007	13300013007	Angus	281.4	38.1	86.0	178	289	424		284	261	4.7
Te Taumata Deluxe 12520	0308120520	Hereford	281.8	40.4	90.5	164	283	436		283	322	4.5
Riverton Baltic 09 183	0091090183	Hereford	284.6	39.2	90.1	175	292	436		283	226	3.8
Wirruna Echucae 99	AUWNAE99	Hereford	283.4	38.6	82.4	174	296	437		283	265	5.1
Storth Oaks K122	19507014K122	Angus	279.2	35.4	85.3	170	289	430	73.5	283	369	7.4

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

**Table 12. Top 20 bulls for marbling score (that have had at least 10 progeny processed, born 2018 or earlier).**

Sire Name	Herdbook number	Breed	Gestation length (days)	Birth weight (kg)	Weaning Age (days)	200-day weight (kg)	400-day weight (kg)	600-day weight (kg)	Ultrasound* EMA (cm <sup>2</sup> )	Carcase weight (kg)	MSA marbling score	Rib fat Depth (mm)
Seven Hills 85/15	21159015085	Angus	280.6	34.9	92.6	166	283	412	75.3	271	430	7.0
Rissington C200	14572015C200	Angus	278.8	33.2	82.6	177	297	432	75.5	284	390	7.3
Storth Oaks Angus Prime K5	19507014K5	Angus	278.5	35.8	90.2	162	272	404	75.0	269	388	7.6
Limehills Streaker 150368	0677150368	Hereford	284.3	37.9	83.1	180	300	439	73.1	281	370	7.8
Storth Oaks K122	19507014K122	Angus	279.2	35.4	85.3	170	289	430	73.5	283	369	7.4
Te Mania 15380	16932015380	Angus	281.5	36.7	84.5	171	293	433	75.7	285	368	7.4
Stabilizer 165303	N/A	Stabilizer	278.6	34.1	82.7	178	294	429	74.9	281	347	6.7
Te Mania Unlimited U3271	AUS0VTMU3271	Angus	282.3	37.7	87.7	171	289	425		274	344	5.3
Ardo Ezicalve Caspian	0277066159	Hereford	282.7	37.4	91.9	164	275	412		261	343	6.3
Te Whanga 16-039	10752016039	Angus	278.6	33.9	95.0	163	281	415	73.8	271	337	8.6
Storth Oaks Everest J20	19507013J20	Angus	278.3	37.5	89.5	174	290	429		279	335	6.5
Colraine Code Word 13 139	1660130139	Hereford	282.7	37.7	86.6	170	286	431		275	332	5.0
Glanworth Waigroup 1213	1215401213	Angus	280.0	37.3	88.6	170	286	422		268	329	5.2
Matauri Reality 839	14647008839	Angus	277.7	37.8	84.3	170	285	424		274	329	5.0
Storth Oaks K154	19507014K154	Angus	280.9	40.9	88.5	178	295	434		282	328	5.0
Storth Oaks J29	19507013J29	Angus	280.1	37.1	86.2	167	280	422		272	327	6.8
Rennylea Edmund E11	AUNORE11	Angus	280.0	39.3	85.7	173	289	428		276	326	5.1
Te Taumata Deluxe 12520	0308120520	Hereford	281.8	40.4	90.5	164	283	436		283	322	4.5
Focus 110002	145720110002	Angus	278.6	37.4	81.0	178	302	447		284	321	5.1
Linton 13041	20305013041	Angus	281.4	35.8	89.8	170	283	424		271	321	4.5

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



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