



Dairy Beef Progeny Test Report

JULY 2023

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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 Pastoral. In this test, 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 Pastoral.

The 2020-born calves from Renown were processed between December 2022 and April 2023. The planned slaughter pattern was disrupted by cyclone Gabrielle meaning that animals were slightly older at slaughter in this cohort. The 2021-born calves have been measured up to 600-day weight and will be ultrasound muscle scanned and processed in 2023/24. The 2022-born calves have been measured up to 200-day weight. Weaning weights have been adjusted over the lifetime of the Progeny Test, with decreases from 85 kilograms down to approximately 75 kilograms, over the lifetime of the Progeny Test. However, all analyses of weaning age account for this change to maintain a comparable base across all cohorts.

The first part of this report provides updates on the latest traits recorded for each cohort, including the third 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

2022-born calves: birth, rearing and growth traits up to 200 days of age.

See Table 1

Seven hundred and fifty-three calves were DNA-verified to Progeny Test sires in spring 2022. Once again, there was no problem with calving difficulty. There were six assisted calvings, none 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 minimum live weight of 75 kg.

These calves have been recorded up to 200-day weight, and their next measurement will be a 400-day weight in Spring 2023.

2021-born calves: 400-day and 600-day weight.

See Table 2

The 2021-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 muscle scanning data collected prior to processing.

2020-born calves: Carcase traits assessed by ultrasound and at processing

See Table 3

These cattle were managed in four herds from weaning until near to processing, when the four groups were split into two subgroups (total of eight groups) for processing. This resulted in four groups of heifers and four groups of steers at processing. All heifer groups were ultrasound muscle scanned prior to processing and all steer groups were ultrasound muscle scanned at a later event, prior to processing of the first steers. The average age at ultrasound scanning was 871 days, and the average age at processing was 925 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, 9% of cattle processed from the 2020-born cohort had a pH of 5.8 or more.

The majority of cattle (98.2%) graded P2, 1.4% graded L2 and 0.17% graded P1. There were no P3 graded cattle this year. Fat colour scores of 5 or above are likely to result in downgrading for yellowness. Overall, only 1 animal (0.16%) processed from the 2020-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; 38.5% of heifers and 42.4% of steers processed reached the reserve grade.

Table 1. Cohort 7 (2022-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)
Seven Hills 379/18	Angus	NZE21159018379	34	277.5	36.0	32	90.1	165
Te Mania Matrix 16018 [◊]	Angus	NZE16932016018	49	281.2	37.2	45	84.7	171
Whenuapapa Cappa Q032	Angus	21211019Q032	35	279.8	36.2	33	87.6	166
Glenacardoch TED 18/608	Belgian Blue	178/18A608	22	279.3	36.5	22	93.8	158
Rauriki Paxton 06	Charolais	900190006E	19	285.6	39.9	16	91.8	167
Ardo Ajax 9136	Hereford	277199136	35	281.5	34.4	32	90.5	172
Beechwood Doubtless [◊]	Hereford	0051140527	31	280.3	37.9	28	84.1	170
Beechwood Jono 51	Hereford	0051190051	28	279.0	36.2	26	87.0	163
Flagstaff Klingon P6	Hereford	759180006	29	281.6	39.9	28	84.1	174
Kairauamati Hudson 1789	Hereford	1483170089	30	281.9	38.2	27	84.2	169
Kanuka Paddington 2003	Hereford	1433202003	15	282.6	37.3	14	87.2	172
Koanui Major P469	Hereford	0216180469	31	283.3	36.9	25	86.3	168
Orari Gorge Tarzan 190091	Hereford	0400190091	31	282.6	39.0	27	84.3	173
Shrimptons Hill 170045	Hereford	0300170045	18	275.6	34.1	18	93.5	158
Shrimptons Hill 170053	Hereford	0300170053	20	279.6	39.3	19	90.6	158
Shrimptons Hill 190126 [◊]	Hereford	0300190126	52	281.8	36.5	48	87.8	161
Chequers Qudos Q4	Murray Grey	2548190004	32	280.4	34.4	30	88.6	170
Torrisdale Quercus Q40	Murray Grey	1427190040	35	278.9	36.9	29	90.6	161
Arcadia Pine 828	Red Devon	172218828	41	280.9	39.1	39	90.2	161
Glendhu ofahengaue 19 927	Shorthorn	228519927	26	284.7	41.7	24	85.7	167
Rissington New Standard AU158 [◊]	Simmental	0049AU0158	43	278.9	39.6	42	80.1	178
Waikite H2002	Simmental	1455202002	21	280.3	36.7	19	83.0	177
Parkvale Mark	Speckle Park	PRK M61	31	280.4	38.1	30	84.8	166
Focus 20S028 (BLACK)	Stabilizer	N/A	24	277.7	34.5	22	86.7	177
Focus Stabilizer 165287 [◊]	Stabilizer	N/A	47	282.2	37.2	39	85.3	178
Focus 19S132 (RED)	Stabilizer	N/A	19	283.7	36.5	16	90.8	164
Average of all DBPT Bulls				281.2	37.9	84.1	168	

*There are some minor differences in the numbers compared to the Calving Trait report as the last of the DNA results (re-samples) have been processed since that analysis. [◊]Link sires

Table 2. Cohort 6 (2021-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)
Focus 193013	Angus	NZE194990193013	31	260	389
Focus Cracker 4025	Angus	NZE194810184025	34	279	418
Glanworth 17013	Angus	12154017013	61	276	419
Ngaputahi P219	Angus	NZE21095018P219	32	273	413
Ploughbright Fennessy	Australian Lowline	QLRF046	16	258	378
Ardo Ajax 5014	Hereford	0277155014	47	281	415
Ardo Hustler 8014	Hereford	0277188014	42	281	414
Beechwood Imposer 44	Hereford	0051180044	25	281	427
Beechwood In Time 7	Hereford	0051180007	31	288	426
Foulden Hill King 180500	Hereford	1731180500	35	285	421
Mahuta Ocean 8073	Hereford	0828188073	20	290	437
Shrimptons Hill 190126	Hereford	0300190126	32	261	399
Westholm Fargo U66	Hereford	0421190066	35	272	409
Torrisdale Pegasus P66	Murray Grey	1427180066	39	271	413
Tinopai BA Jed 1633	Red Devon	172916033	34	255	384
Kerrah Exchequer E502	Simmental	1667AE0502	44	269	405
Kerrah Fortress F326	Simmental	1667AF0326	31	295	441
Leafland E121	Simmental	1614AE0121	40	290	444
Maungahina Kidmans Cove	Speckle Park	Mau K247	23	268	401
Totara Hill Steak House N6	Speckle Park	N/A	27	273	402
Focus Stabilizer 5004 (red)	Stabilizer	N/A	35	292	430
Focus Stabilizer S183 (black)	Stabilizer	N/A	34	288	429
Focus Trinity 135263	Stabilizer	N/A	39	283	425
Average of all DPBT bulls				275	417

Table 3. Cohort 5 (2020-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)
29AN1920 Abs Protégé 306	Angus	N/A	30	555	77.3	6.3	4.2	6.6
Focus 173075	Angus	NZE194990173075	27	572	77.6	5.8	4.5	6.9
Glanworth 17013	Angus	12154017013	40	546	79.0	6.3	4.9	7.6
Kincardine KC Kingdom 15-531	Angus	13459015531	25	543	79.6	6.1	4.6	7.8
Rissington 160043	Angus	NZE145720160043	40	542	79.5	6.6	5.0	6.1
Shalom Waigroup 319/07	Angus	10596007319	8	546	75.5	5.3	4.0	6.5
Bruno van de Plashoeve	Belgian Blue	NL671357027	33	524	78.9	2.9	2.7	4.4
JN Balder D406	Black Hereford	HB011124	27	513	78.5	5.6	5.2	8.1
829XB0064 NuEra T14 0064	Composite	829AN1920	20	555	79.8	5.9	3.6	5.3
Increva PP	Fleckvieh	10/171930	29	549	76.2	4.0	3.0	4.6
Ardo Ajax 7086	Hereford	0277177086	24	550	76.9	4.7	4.6	7.8
Ardo Fargo 7022	Hereford	0277177022	39	525	76.7	4.3	3.9	7.3
Koanui Legend 7109	Hereford	0216177109	30	540	74.7	4.8	5.3	8.1
Matariki 110637	Hereford	0281110637	25	557	77.3	4.9	4.3	7.5
Wirruna Matty M288	Hereford	AUWNAM288	27	565	77.4	5.4	5.2	8.6
Yavenvale Nockout N312	Hereford	YAVN312	23	561	76.0	5.7	4.7	7.9
Mangatara 798N	Limousin	MTA1N798	24	535	79.0	4.7	4.1	6.5
Tinopai VJ Awhitu 1373	Red Devon	172917037	17	497	78.1	5.4	3.8	6.8
Glenside Crumpy AC4	Simmental	1312AC0004	40	572	79.0	4.3	3.8	6.1
Kerah Exchequer E502	Simmental	1667AE0502	27	527	80.8	4.4	3.4	5.3
Leafland E121	Simmental	1614AE0121	26	577	78.6	3.6	3.3	6.0
Rissington New Standard AU158	Simmental	0049AU0158	26	584	79.4	4.4	3.7	5.8
Focus 18 Carat S046	Stabilizer	N/A	27	535	78.7	5.2	4.2	6.5
Focus Prophet S36	Stabilizer	N/A	34	547	77.5	5.4	4.1	7.5
Average of all DBPT bulls*				548	77.5	5.2	6.9	4.2

*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 5 (2020-born calves): Average live weight pre-slaughter, dressing out percentage, carcase weight, rib fat depth, MSA marbling score, pH, meat colour and fat colour of sires. Rib fat depth and marbling score are adjusted to a common carcase weight, and meat colour is adjusted for pH.

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*
29AN1920 ABS Protégé 306	Angus	N/A	30	587.7	49.6	285.5	362	5.0	5.6	3.2	3.0	156.2
Focus 173075	Angus	NZE194990173075	27	602.4	48.9	288.1	344	5.4	5.7	3.3	3.0	159.1
Glanworth 17013	Angus	12154017013	40	577.9	48.9	276.5	365	5.8	5.6	3.3	2.9	156.1
Kincardine KC Kingdom 15-531	Angus	13459015531	25	567.8	49.4	274.5	340	5.6	5.7	3.4	3.1	161.0
Rissington 160043	Angus	NZE145720160043	40	572.5	49.9	279.9	404	5.9	5.6	3.4	2.9	156.0
Shalom Waigroup 319/07	Angus	10596007319	19	584.2	48.8	280.2	292	4.3	5.6	3.2	3.0	164.9
Bruno van de Plashoeve	Belgian Blue	NL671357027	33	549.8	51.7	279.7	240	3.4	5.5	3.4	3.1	153.7
JN Balder D406	Black Hereford	HB011124	27	540.5	48.7	257.6	334	6.1	5.6	3.5	2.7	162.7
829XB0064 NuEra T14 0064	Composite	829AN1920	20	582.6	49.2	280.8	309	4.5	5.7	3.5	2.9	161.7
Increva PP	Fleckvieh	10/171930	29	580.8	50.6	287.5	298	3.9	5.6	3.4	3.0	161.8
Ardo Ajax 7086	Hereford	0277177086	24	546.9	49.3	276.0	331	5.6	5.6	3.3	3.3	158.2
Ardo Fargo 7022	Hereford	0277177022	38	556.6	49.0	266.7	320	4.8	5.7	3.2	2.9	158.8
Koanui Legend 7109	Hereford	0216177109	30	571.3	47.7	265.9	292	6.3	5.6	3.2	3.1	157.3
Matariki 110637	Hereford	0281110637	25	589.2	49.9	287.8	331	5.2	5.6	3.3	3.1	155.5
Wirruna Matty M288	Hereford	AUWNAM288	27	598.1	48.9	285.7	336	6.1	5.7	3.4	2.8	155.7
Yavenvale Nockout N312	Hereford	YAVN312	23	589.7	49.4	285.3	372	5.7	5.6	3.2	3.2	162.6
Average of all DBPT bulls				572.5	49.3	277.4	315	5.1	5.6	3.4	2.9	158.9

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

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*
Mangatara 798N	Limousin	MTA1N798	24	561.4	49.9	274.8	288	4.9	5.6	3.0	3.1	159.0
Tinopai VJ Awhitu 1373	Red Devon	172917037	17	525.5	48.4	248.5	364	4.8	5.6	3.7	3.0	157.3
Glenside Crumpy C4	Simmental	1312AC0004	40	599.6	49.6	291.4	325	4.6	5.6	3.2	3.2	161.6
Kerrah Exchequer E502	Simmental	1667AE0502	27	556.8	48.4	263.5	355	4.4	5.5	3.2	3.2	171.3
Leafland E121	Simmental	1614AE0121	26	604.0	49.9	295.2	303	4.3	5.6	3.3	2.8	167.9
Rissington New Standard AU158	Simmental	0049AU0158	26	617.1	49.7	300.3	281	4.6	5.6	3.2	2.9	161.5
Focus 18 Carat S046	Stabilizer	N/A	27	564.3	49.1	271.6	322	5.1	5.6	3.4	3.0	157.9
Focus Prophet S36	Stabilizer	N/A	34	574.2	49.9	280.5	331	5.0	5.7	3.3	3.3	158.7
Average of all DBPT bulls				572.5	49.3	277.4	315	5.1	5.6	3.4	2.9	158.9

*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 2020 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 seventeen bulls in the Progeny Test (within those for which carcase data has already been collected), that meet the following criteria: birth weight less than 40kg, gestation length no more than 282 days, weaning age below average (84.1 days), carcase weight above 277kg (all bull average) and a marbling score above average (316). Each year there is some re-ranking (as a result of a change in values) due to the use of Link Sires.

Table 5. Bulls with lifetime progeny data that meet “all-rounder” criteria: good birth weight, gestation length, age at weaning, carcase weight, 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
29AN1920 ABS Protégé 306	Angus	N/A	279.9	38.8	81.8	170	279	418	77.3	285.5	362
Focus 171293	Angus	NZE171293/17	280.6	38.9	79.4	171	285	425	77.0	290.4	365
Focus 173075	Angus	NZE194990173075	278.1	36.8	82.1	172	294	434	77.6	288.1	344
Rennylea Edmund E11	Angus	AUNORE11	279.9	39.6	83.2	168	276	420		277.4	344
Rissington C200	Angus	NZE14572015C200	278.8	33.9	79.7	173	287	424	78.5	284.0	414
Rissington Protégé 110002	Angus	NZE145720110002	278.5	37.7	77.9	173	288	437		284.9	337
Storth Oaks K122	Angus	NZE19507014K122	279.3	36.0	82.2	162	269	411	76.3	277.4	425
Storth Oaks M33	Angus	NZE1950716M33	279.9	36.7	77.7	176	292	430	78.2	290.3	336
Te Mania Limitless	Angus	NZE16932015380	281.6	37.3	81.7	168	280	423	79.0	282.8	359
Waitangi M203	Angus	NZE18954016M23	279.3	36.9	80.8	168	281	411	77.4	279.0	406
Ardo Ajax 5014	Hereford	0277155014	281.5	35.2	83.9	169	281	415	78.8	280.8	343
Mangatara 335L	Limousin	MTA1L335	280.4	37.0	81.6	162	276	414	76.9	281.7	316
Glenside Crumpy C4	Simmental	1312AC0004	280.5	37.4	78.3	176	294	437	79.0	291.4	325
Aschwood Black Sambo 501	South Devon	RVA15501 PZK	279.3	37.2	83.5	167	278	425	76.9	286.5	331
Focus Prophet S36	Stabilizer	N/A	281.1	36.8	79.6	171	266	414	77.5	280.5	331
Focus Trinity 135263	Stabilizer	N/A	281.4	36.1	80.9	175	283	425	79.2	285.3	377
Stabilizer 165303	Stabilizer	N/A	278.8	35.1	80.0	171	281	420	77.3	285.0	338

Note: Bulls are listed alphabetically within breed. Rissington Protégé 110002 and Rennylea Edmund E11 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.

Table 6. All round performance of up-and-coming sires (sires of progeny born 2021 or 2022).

For bulls that do not have progeny old enough for processing yet, live weight at 600 days (2021-born) or 200 days (2022-born) was considered in place of carcass traits. There are ten 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 (2021-sires only) or 200-day weight (2022-sires only) above average (416 and 168 kg respectively).

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)
Ardo Ajax 9136	Hereford	0277199136	281.5	34.4	90.5	172		
Beechwood Imposer 44	Hereford	0051180044	280.0	37.8	72.6	174	281	427
Beechwood In Time 7	Hereford	0051180007	282.0	35.1	78.9	171	288	426
Flagstaff Klingon P6	Hereford	0759180006	281.6	39.9	84.1	174		
Kairauamati Hudson 1789	Hereford	1483170089	281.9	38.2	84.2	169		
Mahuta Ocean 8073	Hereford	0828188073	279.9	36.8	79.8	180	290	437
Chequers Qudos Q4	Murray Grey	2548190004	280.4	34.4	88.6	170		
Waikite H2002	Simmental	N/A	280.3	36.7	83.0	177		
Focus 20S028 (BLACK)	Stabilizer	N/A	277.7	34.5	86.7	177		
Focus Stabilizer 5004 (red)	Stabilizer	185004	281.2	37.6	82.5	173	292	430

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

e. 200-day weight (sires of progeny born 2022 or earlier)

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

SireName	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	39.8	74.9	182	311	459	79.7	301.8	297	5.2
Mahuta Ocean 8073	Hereford	0828188073	279.9	36.8	79.8	180	290	437				
Limehills Awesome X117	Hereford	0677020117	287.1	45.6	77.1	179	290	442		290.2	186	2.4
Janefield Ed	Simmental	1671AE0001	284.1	40.0	83.3	179	295	437	79.4	287.3	309	5.3
Focus Stabilizer 165287	Stabilizer	N/A	282.2	37.2	85.3	178	301	441	77.2	297.1	340	5.9
Earnsclough Tussock 144307	Angus	210130144307	279.9	38.4	84.6	178	288	437	78.7	282.0	340	5.3
Rissington New Standard AU158	Simmental	0049AU0158	278.9	39.6	80.1	178	301	451	79.4	300.3	281	4.6
Kerrah Fortress F326	Simmental	1667AF0326	284.0	38.2	72.8	177	295	441				
Focus 20S028 (BLACK)	Stabilizer	N/A	277.7	34.5	86.7	177						
Waikite H2002	Simmental	N/A	280.3	36.7	83.0	177						
Glenside Crumpy C4	Simmental	1312AC0004	280.5	37.4	78.3	176	294	437	79.0	291.4	325	4.6
Storth Oaks M33	Angus	NZE1950716M33	279.9	36.7	77.7	176	292	430	78.2	290.3	336	5.0
Stabilizer 16S38	Stabilizer	N/A	282.6	35.4	77.9	176	294	434	75.0	281.9	325	5.0
Limehills Streaker 150368	Hereford	0677150368	284.3	38.5	80.2	175	288	429	74.5	281.2	377	6.5
Focus Trinity 135263	Stabilizer	N/A	281.4	36.1	80.9	175	283	425	79.2	285.3	377	5.6
Leafland E121	Simmental	1614AE0121	282.6	39.2	75.9	175	290	444	78.6	295.2	303	4.3
Focus Stabilizer S183 (Black)	Stabilizer	N/A	285.0	35.3	84.2	174	288	429				
Flagstaff Klingon P6	Hereford	0759180006	281.6	39.9	84.1	174						
Koanui Unanimous 0408	Hereford	0216100408	283.8	40.2	79.0	174	291	437		287.3	245	4.3
Koanui Bedford 4081	Hereford	0216144081	282.6	41.0	77.6	174	286	439		285.9	255	4.1

*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.

