



GENETICS

DAIRY BEEF PROGENY TEST
INTERIM REPORT
April 2020



Acknowledgements

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Participating herds: Thank you to the numerous bull owners and contributors that have supported the progeny test. For a list of sires in each cohort, including copies of earlier reports, please visit our website: www.blnzgenetics.com/progeny-tests

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Understanding the report

This report provides an indication of how the sires are performing within B+LNZ Genetics' Dairy Beef Progeny Test (DBPT), and can't be directly compared against BREEDPLAN EBVs. For selection purposes it is strongly advised that BREEDPLAN EBVs and selection indexes be used primarily. They are the highest accuracy information to use in selection as they take into account all available industry data.

Progeny test background

The Dairy Beef Progeny Test began mating in 2015, and has since moved from Limestone Downs to Pāmu's Wairakei Pastoral Estate. The following cohorts are included in the progeny test:

| | | |
|----------|-----------|--|
| Cohort 1 | Born 2016 | Limestone Downs |
| Cohort 2 | Born 2017 | Limestone Downs |
| Cohort 3 | Born 2018 | Wairakei Pastoral (born at Renown, finished at Orakonui) |
| Cohort 4 | Born 2019 | Wairakei Pastoral |
| Cohort 5 | Due 2020 | Wairakei Pastoral |

| Phase 1: Limestone Downs | Phase 2: Wairakei Pastoral |
|---|---|
| <p>800 Friesian and KiwiCross cows + 220 heifers mated in 2015. 800 cows and 150 heifers mated in 2016.</p> <ul style="list-style-type: none">• Mated to Angus and Hereford sires by AI• Heifers naturally mated to 6 Angus and 6 Hereford sires (compared with 8 breed-average live weight and gestation length Jersey bulls)• Bred and finished at Limestone Downs, Port Waikato. <p>Objectives</p> <ol style="list-style-type: none">1. Demonstrate the successful use of beef bulls in a dairy system and dairy-beef finishing system2. Assess the value added by selection of high merit, recorded bulls3. Assess the value added by use of easy-calving bulls compared with Jersey bulls in a dairy system4. Identify through a progeny test, appropriate bulls for dairy-beef system | <p>1600 crossbred cows milked once-daily, mated at Wairakei's Renown farm in 2017, 2018 and 2019.</p> <ul style="list-style-type: none">• Cows are typical of those to be mated to beef bulls in the dairy industry.• Mated to 26 nominated beef sires each year and open to all breeds.• Calves are reared at Renown (or commercial calf rearer), then transferred to Orakonui, within the Wairakei Pastoral Group for growing out. <p>Objectives</p> <ol style="list-style-type: none">1. Identify and prove bulls that have short gestation length, easy calving, excellent growth rates to 600 days of age and high intramuscular fat that would be suitable for widespread use in the dairy industry via AI.2. Provide a central herd in which bulls from multiple breeds can be progeny tested and benchmarked3. Allow comparison of finishing performance of dairy-beef versus traditional beef calves, through links with the B+LNZ Genetics Beef Progeny Test |

Key insights from the report

- There is a huge pool of bulls available that can be used safely over dairy cows and offer an improvement in gestation length and calf value.
- High quality beef can be produced from dairy beef calves, improving industry sustainability.
- Consideration of finishing traits, as well as calving traits, when selecting bulls can greatly increase the value of the calf to the rearer and finisher, without impairing calving performance.
- Sire has a big impact on growth and carcass traits of dairy-beef calves. i.e. Not all white-face or Angus calves are equal.
- Calves that are heavy at 4 days of age are not necessarily heavy at finishing. Knowing the sires' EBVs will help judge potential.

Birth Weight and Calving Ease

Average birthweights for all cohorts have been in the 36-38 kg range, from Friesian-Jersey crossbred cows. This means they are comparably sized to calves from Friesian bulls used in similar crossbred herds. No bull used in the progeny test to date has caused significant calving problems when used over mixed-aged cows. In all cohorts, total calving assistance has been less than 1% and farmers report it is similar to the amount of assistance they would normally expect. At the 2019 calving, 6 normally-presented and one breech calf were assisted. The vet assisted the breech calf and one normally-presented calf. Each assisted calf was from a different sire.

It is clear that there is significant scope to use beef bulls over dairy cows without causing calving problems. Herd testing at Limestone Downs revealed no impact of calf birth weight or sire of calf on the subsequent in-calf rate or milk production of the cows. The bulls used in this project provide a reference point for suitable birthweight EBVs within breed.

Gestation Length

The average gestation length of the bulls in 2019 was 282 days, in line with the dairy breed norm. The bull with the shortest Gestation Length shaved 6 days off the dairy average, coming in at 276 days, while several bulls had gestation lengths up to a week longer than the dairy norm.

Bull selection has a big impact on Gestation Length, and a shorter gestation length means earlier calving and more days in milk for the dairy cow. In addition, where beef bulls are used in the last weeks of the mating period, a shorter gestation is particularly desirable to bring the cow earlier calving in the following year and increase her chances of staying in the herd subsequently.

Selection among the sires used in cohort 4 could change the calving date by up to 13 days.

Weaning age

Calves were weaned based on live weight (not age), at an average of 95 kg. Therefore, age at weaning is calculated as a measure of pre-weaning growth. A lower value means progeny from that sire reached weaning weight faster than progeny from sires with a higher value. This is not adjusted for birth weight, so lighter birthweight sires have more live weight to gain before weaning and typically take longer to reach weaning weight.

Latest results: measurements for 2019-born calves (Cohort 4)

Table 1. Average birth weight, gestation length and weaning age of sires used in Cohort 4

| Sire | Breed | n | Birth weight (kg) | Gestation length (days) | Age at weaning (days) |
|--------------------------|--------------|----|-------------------|-------------------------|-----------------------|
| Focus 171293 | Angus | 23 | 37.6 (24) | 280.6 (10) | 85.0 (7) |
| Linton 16-107 | Angus | 19 | 33.6 (3) | 282.6 (17) | 85.8 (9) |
| Rissington 160043 | Angus | 31 | 32.8 (2) | 276.0 (1) | 91.5 (25) |
| Storth Oaks M33 | Angus | 32 | 35.4 (10) | 279.9 (7) | 83.3 (3) |
| Storth Oaks M64 | Angus | 27 | 32.3 (1) | 278.1 (2) | 90.5 (23) |
| Te Mania 15380 | Angus | 41 | 36.3 (17) | 281.3 (15) | 86.9 (12) |
| Te Mania Matrix 16018 | Angus | 34 | 35.9 (14) | 281.1 (14) | 88.7 (16) |
| Waitangi M203 | Angus | 29 | 35.6 (12) | 279.3 (5) | 86.4 (10) |
| Kakahu Gerry 140506 | Charolais | 39 | 38.7 (26) | 282.3 (16) | 80.1 (1) |
| Vollgas PS | Fleckveih | 34 | 36.9 (20) | 288.8 (26) | 87.5 (14) |
| Ardo Ajax 5014 | Hereford | 53 | 33.7 (4) | 281 (12) | 88.7 (17) |
| Ardo Vostock 5341 | Hereford | 26 | 34.9 (9) | 280.8 (11) | 84.3 (6) |
| Matariki 110637 | Hereford | 9 | 37.1 (22) | 283.6 (23) | 86.9 (11) |
| Mangatara 335L | Limousin | 37 | 35.7 (13) | 280.3 (8) | 87.3 (13) |
| Mangatara Jool | Limousin | 34 | 37.3 (23) | 288.7 (25) | 88.9 (18) |
| Torrisdale Kakanui K123 | Murray Grey | 49 | 36.5 (18) | 280.3 (9) | 90.2 (22) |
| Jipidji | Normande | 29 | 36.8 (19) | 278.7 (4) | 88.6 (15) |
| Glendhu Lochore 16603 | Shorthorn | 31 | 35.6 (11) | 282.9 (19) | 91.7 (26) |
| Kerrah Efficient E500 | Simmental | 35 | 34.9 (8) | 283.5 (22) | 90.9 (24) |
| Leafland E121 | Simmental | 14 | 38.7 (25) | 283.4 (20) | 81.0 (2) |
| Rissington AF184 | Simmental | 29 | 36.9 (21) | 283.5 (21) | 83.6 (5) |
| Aschwood Black Sambo 501 | South Devon | 38 | 36.0 (15) | 279.3 (6) | 89.1 (19) |
| Parkvale Kiwi K01 | Speckle Park | 37 | 36.2 (16) | 284.4 (24) | 89.7 (20) |
| Focus Trinity 135263 | Stabilizer | 27 | 34.6 (7) | 281.1 (13) | 89.7 (21) |
| Stabilizer 165303 | Stabilizer | 49 | 33.7 (5) | 278.4 (3) | 85.2 (8) |
| Stabilizer 16S38 | Stabilizer | 22 | 34.2 (6) | 282.8 (18) | 83.5 (4) |

* Indicates a sire used in over more than one year.

NB. One sire produced only 5 calves and has been excluded from the analysis.

Sires that performed well for calving traits

Table 2. Sires used in cohorts 1-4 who have calves less than 36kg

Based on a minimum of 10 progeny. To date, no sires used in the progeny test have caused calving problems.

| Sire | Breed | n | Birth weight (kg) | Gestation length (days) | Age at weaning (days) |
|----------------------------|------------|----|-------------------|-------------------------|-----------------------|
| Storth Oaks M64 | Angus | 28 | 32.3 | 278.1 | 90.5 |
| Rissington 160043 | Angus | 31 | 32.8 | 276.0 | 91.5 |
| Rissington C200 | Angus | 35 | 32.8 | 278.4 | 84.8 |
| Te Whanga 16-039 | Angus | 26 | 33.5 | 278.2 | 97.2 |
| Linton 16-107 | Angus | 20 | 33.6 | 282.6 | 85.8 |
| Ardo Ajax 5014 | Hereford | 53 | 33.7 | 281.0 | 88.7 |
| Stabilizer 165303 | Stabilizer | 50 | 33.7 | 278.4 | 85.2 |
| Storth Oaks L26 | Angus | 38 | 33.9 | 278.6 | 92.0 |
| Stabilizer 16S38 | Stabilizer | 24 | 34.2 | 282.8 | 83.5 |
| Seven Hills 85/15 | Angus | 32 | 34.5 | 280.3 | 94.9 |
| Focus Trinity 135263 | Stabilizer | 27 | 34.6 | 281.1 | 89.7 |
| Ardo Vostock 5341 | Hereford | 26 | 34.9 | 280.8 | 84.3 |
| Kerrah Efficient E500 | Simmental | 35 | 34.9 | 283.5 | 90.9 |
| Storth Oaks K122 | Angus | 34 | 35.0 | 278.9 | 87.4 |
| Stabilizer 165287 | Stabilizer | 31 | 35.3 | 281.6 | 91.7 |
| Storth Oaks M33 | Angus | 32 | 35.4 | 279.9 | 83.3 |
| Storth Oaks Angus Prime K5 | Angus | 24 | 35.5 | 278.4 | 92.0 |
| Linton 13041 | Angus | 21 | 35.6 | 281.5 | 91.1 |
| Waitangi Focus D213 | Angus | 16 | 35.6 | 282.8 | 94.4 |
| Waitangi M203 | Angus | 30 | 35.6 | 279.3 | 86.4 |
| Glendhu Lochore 16603 | Shorthorn | 31 | 35.6 | 282.9 | 91.7 |
| Mangatara 335L | Limousin | 38 | 35.7 | 280.3 | 87.3 |
| Craigmore Ike 140260 | Hereford | 27 | 35.8 | 284.2 | 93.8 |
| Focus Progression 110178 | Angus | 12 | 35.9 | 280.8 | 92.4 |
| Te Mania Matrix 16018 | Angus | 34 | 35.9 | 281.1 | 88.7 |
| Ardo Bismarck 4256 | Hereford | 37 | 35.9 | 281.0 | 92.6 |

Table 3. Sires used in cohorts 1-4 who have Gestation Length shorter than 280 days (based on a minimum of 10 progeny)

| Sire | Breed | n | Birth weight (kg) | Gestation length (days) | Age at weaning (days) |
|----------------------------|-------------|----|-------------------|-------------------------|-----------------------|
| Rissington 160043 | Angus | 31 | 32.8 | 276.0 | 91.5 |
| Bluestone 140027 | Hereford | 11 | 38.2 | 276.6 | 90.4 |
| Seven Hills 173-06 | Angus | 13 | 37.2 | 276.7 | 93.3 |
| Matauri Reality 839 | Angus | 15 | 37.7 | 277.7 | 85.7 |
| Hiwiroa Patriach 14044 | Shorthorn | 27 | 36.6 | 277.9 | 86.3 |
| Storth Oaks M64 | Angus | 28 | 32.3 | 278.1 | 90.5 |
| Te Whanga 16-039 | Angus | 26 | 33.5 | 278.2 | 97.2 |
| Storth Oaks Everest J20 | Angus | 22 | 37.4 | 278.3 | 90.8 |
| Bluestone 140015 | Hereford | 21 | 40.8 | 278.3 | 88.4 |
| Storth Oaks Angus Prime K5 | Angus | 24 | 35.5 | 278.4 | 92.0 |
| Rissington C200 | Angus | 35 | 32.8 | 278.4 | 84.8 |
| Flagstaff Dynamo G6 | Hereford | 20 | 37.5 | 278.4 | 88.1 |
| Stabilizer 165303 | Stabilizer | 50 | 33.7 | 278.4 | 85.2 |
| Storth Oaks L26 | Angus | 38 | 33.9 | 278.6 | 92.0 |
| Focus 110002 | Angus | 12 | 37.3 | 278.6 | 82.2 |
| Grampians Lottery K13 | Angus | 21 | 39.8 | 278.7 | 90.9 |
| Jipidji | Normande | 31 | 36.8 | 278.7 | 88.6 |
| Storth Oaks K122 | Angus | 34 | 35.0 | 278.9 | 87.4 |
| Pinebank 1/06 | Angus | 18 | 37.3 | 279.0 | 92.0 |
| Glenside Crumpy C4 | Simmental | 36 | 36.4 | 279.1 | 82.3 |
| Storth Oaks K134 | Angus | 13 | 42.2 | 279.3 | 82.9 |
| Waitangi M203 | Angus | 30 | 35.6 | 279.3 | 86.4 |
| Thomas Up River 1614 | Angus | 12 | 37.2 | 279.3 | 88.2 |
| Aschwood Black Sambo 501 | South Devon | 38 | 36.0 | 279.3 | 89.1 |
| Totaranui 13007 | Angus | 16 | 38.2 | 279.4 | 84.2 |
| Blue Mountain Brillianz 05 | Angus | 21 | 40.1 | 279.5 | 83.8 |
| Earnsclough Bartel 144307 | Angus | 32 | 37.7 | 279.7 | 88.7 |
| Bluestone 160022 | Hereford | 28 | 36.3 | 279.7 | 91.2 |
| Matauri Resolution F030 | Angus | 16 | 38.9 | 279.8 | 88.4 |
| Storth Oaks M33 | Angus | 32 | 35.4 | 279.9 | 83.3 |

Table 4. Top 20 sires in Cohort 1-4 who reached weaning weight fastest (based on a minimum of 10 progeny)

| Sire | Breed | n | Birth weight (kg) | Gestation length (days) | Age at weaning (days) |
|----------------------------|------------|----|-------------------|-------------------------|-----------------------|
| Kakahu Gerry 140506 | Charolais | 39 | 38.7 | 282.3 | 80.1 |
| Koanui Bedford 4081 | Hereford | 13 | 40.6 | 282.7 | 80.4 |
| Limehills Awesome X117 | Hereford | 16 | 45.2 | 287.2 | 80.5 |
| Leafland E121 | Simmental | 14 | 38.7 | 283.4 | 81.0 |
| Limehills Stamper 20719 | Hereford | 18 | 41.6 | 285.4 | 81.2 |
| Kairaumati Coal Face 1482 | Hereford | 12 | 39.9 | 284.5 | 81.4 |
| Shalom Waigroup 319/07 | Angus | 12 | 37.3 | 281.2 | 81.8 |
| Focus 110002 | Angus | 12 | 37.3 | 278.6 | 82.2 |
| Beechwood Turk | Hereford | 19 | 38.1 | 281.4 | 82.3 |
| Glenside Crumpy | Simmental | 36 | 36.4 | 279.1 | 82.3 |
| Koanui Unanimous 0408 | Hereford | 17 | 39.8 | 283.9 | 82.7 |
| Westholm Koala K13 | Hereford | 16 | 37.7 | 282.7 | 82.7 |
| Storth Oaks K134 | Angus | 13 | 42.2 | 279.3 | 82.9 |
| Storth Oaks M33 | Angus | 32 | 35.4 | 279.9 | 83.3 |
| Stabilizer 16S38 | Stabilizer | 24 | 34.2 | 282.8 | 83.5 |
| Otapawa Spark 3060 | Hereford | 24 | 39.8 | 281.1 | 83.6 |
| Rissington AF184 | Simmental | 29 | 36.9 | 283.5 | 83.6 |
| Blue Mountain Brillianz 05 | Angus | 21 | 40.1 | 279.5 | 83.8 |
| Koanui Briton 2044 | Hereford | 39 | 36.9 | 284.4 | 83.8 |
| Wirruna Echucae 99 | Hereford | 16 | 38.5 | 283.5 | 83.9 |

Growth

Cohort 4 calves have reached 200 days of age, and Cohort 3 calves have reached 600 days of age. Previous work demonstrated that live weight at 200d has a poor relationship with sire EBV. The nature of the rearing system is to feed lighter calves longer when working to a fixed weaning weight, therefore favouring calves from slower-growing sires. Later weights are more reflective of sire growth potential.

Table 5. Average for live weight (kg) at 200-days, 400-days and 600-days of sires used in cohort 3

(that had at least 10 progeny present at 200 days of age) Note: all progeny from a sire contribute to the mean, regardless of the cohort of birth.

| Name | Breed | n 200 | LW200 | LW400 | LW600 |
|----------------------------|-------------|-------|------------|------------|------------|
| Earnsclaugh Tussock 144307 | Angus | 29 | 182.3 (5) | 301.1 (11) | 442.1 (7) |
| Rissington C200 | Angus | 35 | 177.7 (11) | 301.9 (9) | 433.1 (12) |
| Seven Hills 85/15 | Angus | 29 | 166.1 (22) | 287.3 (20) | 413.6 (23) |
| Storth Oaks Angus Prime K5 | Angus | 22 | 162.7 (25) | 277.0 (25) | 405.8 (25) |
| Storth Oaks K122 | Angus | 33 | 171.1 (18) | 293.2 (16) | 431.9 (14) |
| Storth Oaks L26 | Angus | 35 | 174.0 (15) | 282.6 (23) | 417.4 (21) |
| Te Mania 15380 | Angus | 40 | 171.0 (19) | 299.2 (14) | 436.8 (11) |
| Te Mania 16305 | Angus | 6 | 176.4 (13) | 305.9 (5) | 447.4 (4) |
| Te Whanga 16-039 | Angus | 22 | 162.9 (24) | 285.8 (22) | 416.1 (22) |
| Kakahu Gerry 140506 | Charolais | 33 | 187.5 (1) | 327.3 (1) | 470.2 (1) |
| Ardo Ajax 5014 | Hereford | 49 | 177.2 (12) | 300.7 (12) | 429.9 (15) |
| Ardo Bismarck 4256 | Hereford | 36 | 164.3 (23) | 275.3 (26) | 403.4 (26) |
| Bluestone 160022 | Hereford | 23 | 178.3 (8) | 286.9 (21) | 418.6 (19) |
| Craigmore Ike 140260 | Hereford | 25 | 161.3 (26) | 279.6 (24) | 410.9 (24) |
| Koanui Briton 2044 | Hereford | 36 | 178.2 (9) | 303.8 (8) | 442.3 (6) |
| Koanui Rocket 0219 | Hereford | 43 | 180.0 (7) | 304.3 (7) | 440.6 (8) |
| LimeHills Streaker150368 | Hereford | 25 | 180.1 (6) | 304.8 (6) | 440.0 (9) |
| Monymusk Henry 120012 | Hereford | 18 | 171.9 (16) | 300.6 (13) | 437.5 (10) |
| Shrimptons Hill 130168 | Hereford | 30 | 170.2 (20) | 291.3 (18) | 420.3 (17) |
| Piwakawa Kagan | Limousin | 21 | 169.7 (21) | 293.6 (15) | 422.9 (16) |
| Torrsdale Kakanui K123 | Murray Grey | 45 | 171.2 (17) | 291.5 (17) | 419.0 (18) |
| Hiwiroa Patriach 14044 | Shorthorn | 23 | 175.8 (14) | 291.2 (19) | 417.8 (20) |
| Glenside Crumpy C4 | Simmental | 35 | 186.3 (2) | 308.5 (4) | 450.2 (3) |
| Janefield Ed AE1 | Simmental | 21 | 185.0 (3) | 313.2 (3) | 444.8 (5) |
| Stabilizer 165287 | Stabilizer | 30 | 183.7 (4) | 316.9 (2) | 452.4 (2) |

Table 6. Averages for live weight (kg) at 200-days of sires used in cohort 4

(note that all progeny from a sire contribute to the mean, regardless of the cohort of birth).

| Name | Breed | n 200d | LW200 |
|--------------------------|--------------|--------|------------|
| Focus 171293 | Angus | 21 | 176.0 (11) |
| Linton 16-107 | Angus | 19 | 173.2 (14) |
| Rissington 160043 | Angus | 30 | 171.6 (18) |
| Storth Oaks M33 | Angus | 30 | 180.9 (2) |
| Storth Oaks M64 | Angus | 25 | 177.2 (9) |
| Te Mania 15380 | Angus | 40 | 171.0 (21) |
| Te Mania Matrix 16018 | Angus | 31 | 176.0 (11) |
| Waitangi M203 | Angus | 28 | 173.6 (13) |
| Kakahu Gerry 140506 | Charolais | 33 | 187.5 (1) |
| Vollgas PS | Fleckveih | 31 | 160.0 (26) |
| Ardo Ajax 5014 | Hereford | 49 | 177.2 (9) |
| Ardo Vostock 5341 | Hereford | 24 | 178.1 (6) |
| Matariki 110637 | Hereford | 10 | 172.3 (15) |
| Mangatara 335L | Limousin | 35 | 166.6 (24) |
| Mangatara Jool | Limousin | 30 | 160.3 (25) |
| Torrisdale Kakanui K123 | Murray Grey | 45 | 171.2 (20) |
| Jipidji | Normande | 28 | 172.3 (15) |
| Glendhu Lochore 16603 | Shorthorn | 28 | 167.0 (23) |
| Kerah Efficient E500 | Simmental | 30 | 171.3 (19) |
| Leafland E121 | Simmental | 13 | 178.5 (4) |
| Rissington AF184 | Simmental | 26 | 178.1 (6) |
| Aschwood Black Sambo 501 | South Devon | 36 | 172.2 (17) |
| Parkvale Kiwi K01 | Speckle Park | 32 | 170.2 (22) |
| Focus Trinity 135263 | Stabilizer | 24 | 178.2 (5) |
| Stabilizer 165303 | Stabilizer | 46 | 178.1 (6) |
| Stabilizer 16S38 | Stabilizer | 19 | 180.6 (3) |

Sire rankings were highly correlated among live weight at 200, 400 and 600 days of age. The top growth sires for 600-day weight (cohorts 1-3), are featured in the blue column, in the table below.

Table 7. Cohorts 1-3: Top 20 sires for 600-day weight

| Name | Breed | n born | BWT (kg) | GL (d) | Age of weaning (d) | n 200d | LW200 (kg) | LW400 (kg) | LW600 (kg) |
|----------------------------|------------|--------|----------|--------|--------------------|--------|------------|------------|------------|
| Thomas Up River 1614 | Angus | 12 | 37.2 | 279.3 | 88.2 | 12 | 172.8 | 294.9 | 438.7 |
| Riverton Baltic 09 183 | Hereford | 16 | 39.0 | 284.6 | 91.4 | 13 | 176.7 | 297.6 | 438.8 |
| Wirruna Echuca 99 | Hereford | 16 | 38.5 | 283.5 | 83.9 | 13 | 175.4 | 301.7 | 439.9 |
| LimeHills Streaker150368 | Hereford | 26 | 37.5 | 284.0 | 85.3 | 25 | 180.1 | 304.8 | 440.0 |
| Koanui Rocket 0219 | Hereford | 44 | 37.7 | 283.6 | 85.6 | 43 | 180.0 | 304.3 | 440.6 |
| Earnsclough Tussock 144307 | Angus | 32 | 37.7 | 279.7 | 88.7 | 29 | 182.3 | 301.1 | 442.1 |
| Koanui Briton 2044 | Hereford | 39 | 36.9 | 284.4 | 83.8 | 36 | 178.2 | 303.8 | 442.3 |
| Beechwood Doubtless | Hereford | 14 | 38.6 | 280.9 | 87.7 | 12 | 173.9 | 297.3 | 443.3 |
| Janefield Ed AE1 | Simmental | 23 | 38.9 | 283.7 | 88.0 | 21 | 185.0 | 313.2 | 444.8 |
| Storth Oaks H41 | Angus | 15 | 40.3 | 280.0 | 84.4 | 11 | 178.8 | 302.9 | 445.0 |
| Shalom Waigroup 319/07 | Angus | 12 | 37.3 | 281.2 | 81.8 | 11 | 181.1 | 303.6 | 445.2 |
| Flagstaff Big Red E8 | Hereford | 12 | 40.9 | 283.8 | 86.3 | 10 | 175.3 | 302.2 | 447.3 |
| Koanui Unanimous 0408 | Hereford | 17 | 39.8 | 283.9 | 82.7 | 15 | 179.8 | 308.8 | 448.0 |
| Focus 110002 | Angus | 12 | 37.3 | 278.6 | 82.2 | 12 | 179.9 | 307.1 | 449.3 |
| Glenside Crumpy C4 | Simmental | 36 | 36.4 | 279.1 | 82.3 | 35 | 186.3 | 308.5 | 450.2 |
| Koanui Bedford 4081 | Hereford | 13 | 40.6 | 282.7 | 80.4 | 11 | 180.1 | 304.5 | 451.0 |
| Stabilizer 165287 | Stabilizer | 31 | 35.3 | 281.6 | 91.7 | 30 | 183.7 | 316.9 | 452.4 |
| LimeHills Awesome X117 | Hereford | 16 | 45.2 | 287.2 | 80.5 | 13 | 185.9 | 308.9 | 453.3 |
| Storth Oaks K134 | Angus | 13 | 42.2 | 279.3 | 82.9 | 11 | 179.4 | 308.8 | 464.3 |
| Kakahu Gerry 140506 | Charolais | 39 | 38.7 | 282.3 | 80.1 | 33 | 187.5 | 327.3 | 470.2 |

When selecting on 600-day weight alone, several of the sires identified have relatively high birth weight and/or long gestation length. Therefore, an alternative approach to identifying all-round high performers is to select sires that had birth weight below 40 kg, gestation length less than 282 days, and were better than average for weaning age (i.e. lower rearing cost), and were heavier above average for live weight at 600 days of age. Cohort 4 bulls were included if their progeny were heavier than average at 200-days of age (in place of the 600d weight criterion) because their progeny are not yet old enough to record 600d weight.

There were 15 bulls that met this “all-rounder” criteria, shown in the table below. These bulls had birth weight less than 40kg, gestation length shorter than 282 days, and were better than average for age at weaning and 600-day weight (or 200-day weight for cohort 4 bulls).

Table 8. Average birth weight (BWT), gestation length (GL), weaning age, 200, 400 and 600-day weight of the 15 “all-rounder” bulls

Highlighted values represent averages in the top 20% of all bulls tested to date.

| Name | Breed | n born | BWT (kg) | GL (d) | Weaning age (d) | n 200d | LW200 (kg) | LW400 (kg) | LW600 (kg) |
|---------------------------------|------------|--------|-------------|--------------|-----------------|--------|--------------|--------------|--------------|
| Focus 110002 | Angus | 12 | 37.3 | 278.6 | 82.2 | 12 | 179.9 | 307.1 | 449.3 |
| Focus 171293 | Angus | 23 | 37.6 | 280.6 | 85.0 | 21 | 176.0 | | |
| Rennylea Edmund E11 | Angus | 18 | 39.2 | 280.0 | 87.0 | 17 | 174.0 | 293.9 | 431.0 |
| Rissington C200 | Angus | 35 | 32.8 | 278.4 | 84.8 | 35 | 177.7 | 301.9 | 433.1 |
| Shalom Waigroup 319/07 | Angus | 12 | 37.3 | 281.2 | 81.8 | 11 | 181.1 | 303.6 | 445.2 |
| Storth Oaks K122 | Angus | 34 | 35.0 | 278.9 | 87.4 | 33 | 171.1 | 293.2 | 431.9 |
| Storth Oaks M33 | Angus | 32 | 35.4 | 279.9 | 83.3 | 30 | 180.9 | | |
| Te Mania 15380 | Angus | 41 | 36.3 | 281.3 | 86.9 | 40 | 171.0 | 299.2 | 436.8 |
| Totaranui 13007 | Angus | 16 | 38.2 | 279.4 | 84.2 | 15 | 173.0 | 292.6 | 431.4 |
| Ardo Vostock 5341 | Hereford | 26 | 34.9 | 280.8 | 84.3 | 24 | 178.1 | | |
| Beechwood Turk | Hereford | 19 | 38.1 | 281.4 | 82.3 | 19 | 173.3 | 294.3 | 433.1 |
| Monymusk Henry 120012 | Hereford | 22 | 38.1 | 280.6 | 84.6 | 18 | 171.9 | 300.6 | 437.5 |
| Otapawa Spark 3060 | Hereford | 24 | 39.8 | 281.1 | 83.6 | 23 | 172.6 | 294.2 | 437.7 |
| Glenside Crumpy C4 | Simmental | 36 | 36.4 | 279.1 | 82.3 | 35 | 186.3 | 308.5 | 450.2 |
| Stabilizer 165303 | Stabilizer | 49 | 33.7 | 278.4 | 85.2 | 46 | 178.1 | 301.5 | 432.6 |
| Mean of all bulls tested | | | 37.6 | 281.6 | 87.7 | | 173.8 | 293.7 | 430.4 |

Carcass Traits

Cohorts 1&2, born at Limestone Downs

All calves born at Limestone Downs have been processed. At 3-4 months old – weighing a minimum of 100kg – they moved from the Limestone Downs' dairy unit to its sheep and beef hill-country farm. At 4 months old, calves were allocated to their lifetime mobs – based on weight and sex – where they remained until processing. Each year, there were 3 mobs of heifers and 3 mobs of steers. Calves were allocated to each mob so that the heaviest, middle and lightest third of each sire's calves were split across the three mobs for that sex.

The target slaughter weight was 500kg for heifers and 600kg for steers. The mob was deemed to be ready for processing when the mob average reached this target. A Greenlea Premier Meats livestock buyer inspected the cattle to confirm they were in suitable condition for processing, and each mob was processed in a single event.

All cattle went through two winters, with the heaviest mob of heifers processed in late July/early August (23 months) and the lightest mob of steers processed in February (31 months).

An impressive 97% of cattle graded P2, and the remainder were L2. Carcass weight and dressing-out percentage were affected by sire, as was eye muscle area. Therefore, for carcasses of the same weight, the proportion of weight in the high value muscles varied among sires. See photos alongside.

Cattle were weighed on-farm at Limestone Downs in the morning prior to trucking. They were transported to Greenlea's Hamilton plant for same-day slaughter. Carcass length, eye muscle area, fat depth, marbling score, and meat and fat colour were assessed in the chiller the morning following slaughter.

From cohort 1, meat samples were taken from randomly-selected progeny within each mob, from randomly-selected sires with sufficient progeny in cohort 1. The samples were aged for 21 days, then taken to the Massey University Meat Laboratory where they were analysed for pH, shear force (tenderness), and meat and fat colour.

In cohort 2, meat samples were not taken, but pH was measured in the chiller alongside the other chiller-assessments.

| Carcass Weight | 255 kg | 237 kg | 270 kg |
|--|---|--|--|
| EMA | 98 cm ² | 74 cm ² | 62 cm ² |
| Fat depth | 3 mm | 8 mm | 6 mm |
| Marble | 0 | 3 | 1 |
| Meat Colour | 3 | 3 | 5 |
| Fat Colour | 3 | 4 | 4 |
| pH | 5.8 | 5.7 | 6.2 |
| Shear force (tenderness) | 3.68 | 4.49 | 9.72 |
| | <ul style="list-style-type: none">• Big steak• Lean• \$1390 | <ul style="list-style-type: none">• Good fat levels• Small carcass• \$1292 | <ul style="list-style-type: none">• Big carcass• Small steak• Meat quality issues• \$1472 |
|  | | | |

Table 9. Cohorts 1-2: Average Weight and Carcass traits

Live weight, carcass weight, dressing-out percentage, carcass length, eye muscle area and fat depth of sires, with at least 5 progeny present at processing. Values below are averages, with sire ranking (out of 73 total) shown in brackets. This table includes sires used only over first-calving heifers, which are compared on carcass traits, but were not compared with other bulls on calving traits due to the impact of the younger dams on those traits. Carcass length, eye muscle area and fat depth are all adjusted to a common carcass weight.

| Sire | Breed | n | Live weight on farm (kg) | Carcass weight (kg) | Dressing-out (%) | Carcass length (cm) | Eye muscle area (cm ²) | Fat depth (mm) |
|----------------------------|-------|----|-----------------------------|------------------------|---------------------|------------------------|---------------------------------------|-------------------|
| Blue Mountain Brillianz O5 | Angus | 14 | 550.7 (60) | 270.6 (54) | 49.2 (19) | 239.5 (49) | 76.4 (15) | 5.0 (68) |
| Earnsclough Tussock 144307 | Angus | 12 | 575.8 (25) | 278.0 (33) | 48.4 (58) | 240.3 (34) | 74.8 (29) | 8.2 (19) |
| Focus 110002 | Angus | 12 | 589.7 (11) | 287.0 (12) | 48.6 (51) | 239.6 (47) | 72.1 (49) | 7.4 (33) |
| Focus Progression 110178 | Angus | 9 | 545.0 (68) | 263.9 (70) | 48.4 (58) | 238.6 (57) | 78.1 (7) | 7.9 (25) |
| Glanworth Waigroup 1213 | Angus | 18 | 553.1 (54) | 268.0 (62) | 48.5 (56) | 239.7 (45) | 77.1 (12) | 7.0 (43) |
| Grampians Lottery K13 | Angus | 15 | 534.5 (73) | 257.8 (73) | 48.2 (64) | 238.0 (62) | 69.6 (65) | 6.7 (49) |
| Heather Dell L72 | Angus | 24 | 597.9 (4) | 293.1 (5) | 48.8 (38) | 240.5 (32) | 74.4 (33) | 8.2 (19) |
| Kakahu 13059 | Angus | 10 | 562.2 (43) | 273.8 (44) | 48.7 (48) | 242.6 (13) | 76.1 (19) | 4.8 (72) |
| Kakahu For Bond 13007 | Angus | 14 | 564.2 (41) | 283.6 (23) | 50.3 (1) | 238.0 (62) | 72.1 (49) | 6.7 (49) |
| Linton 13041 | Angus | 18 | 559.4 (47) | 271.5 (51) | 48.6 (51) | 241.7 (21) | 75.1 (25) | 6.2 (63) |
| Matauri Reality 839 | Angus | 11 | 558.3 (50) | 275.7 (40) | 49.4 (13) | 237.3 (67) | 72.6 (43) | 7.0 (43) |
| Matauri Resolution F030 | Angus | 17 | 561.2 (45) | 270.4 (55) | 48.1 (68) | 242.3 (17) | 69.7 (64) | 8.3 (18) |
| Pinebank 1/06 | Angus | 16 | 565.0 (40) | 272.0 (50) | 48.2 (64) | 240.3 (34) | 75.8 (21) | 6.4 (58) |
| Puketi Regan 14123 | Angus | 9 | 579.0 (19) | 288.3 (7) | 50.0 (3) | 236.5 (71) | 80.9 (2) | 7.9 (25) |
| Puketi Regan 14134 | Angus | 16 | 591.8 (8) | 293.9 (4) | 49.8 (6) | 237.7 (65) | 79.7 (3) | 6.4 (58) |
| Rennylea Edmund E11 | Angus | 15 | 569.8 (32) | 279.3 (30) | 48.9 (32) | 238.5 (58) | 73.6 (38) | 6.8 (48) |
| Seven Hills 161-06 | Angus | 9 | 572.7 (27) | 285.1 (17) | 49.8 (6) | 240.3 (34) | 77.3 (11) | 8.2 (19) |
| Seven Hills 173-06 | Angus | 12 | 545.1 (67) | 264.2 (69) | 48.5 (56) | 240.6 (31) | 74.8 (29) | 6.6 (53) |
| Shalom Waigroup 101/01 | Angus | 7 | 553.0 (55) | 270.9 (53) | 49.1 (21) | 238.3 (60) | 74.5 (32) | 9.0 (9) |
| Shalom Waigroup 319/07 | Angus | 12 | 577.0 (23) | 280.9 (28) | 48.8 (38) | 240.1 (41) | 75.6 (23) | 6.4 (58) |
| Storth Oaks Angus Prime K5 | Angus | 10 | 552.5 (56) | 273.7 (45) | 49.6 (9) | 237.2 (68) | 78.9 (5) | 9.1 (7) |
| Storth Oaks Everest J20 | Angus | 20 | 577.4 (22) | 281.7 (27) | 48.8 (38) | 240.3 (34) | 72.2 (47) | 8.7 (14) |

| Sire | Breed | n | Live weight on farm (kg) | Carcass weight (kg) | Dressing-out (%) | Carcass length (cm) | Eye muscle area (cm ²) | Fat depth (mm) |
|----------------------------|----------|----|-----------------------------|------------------------|---------------------|------------------------|---------------------------------------|-------------------|
| Storth Oaks H41 | Angus | 10 | 602.9 (2) | 294.5 (3) | 48.8 (38) | 244.0 (4) | 71.2 (56) | 7.7 (29) |
| Storth Oaks J29 | Angus | 11 | 571.5 (28) | 273.4 (48) | 47.8 (71) | 241.4 (24) | 66.8 (72) | 8.7 (14) |
| Storth Oaks K134 | Angus | 9 | 616.5 (1) | 304.2 (1) | 49.0 (26) | 240.0 (44) | 74.0 (36) | 5.0 (68) |
| Storth Oaks K154 | Angus | 12 | 579.9 (18) | 283.7 (22) | 48.9 (32) | 237.9 (64) | 71.7 (52) | 6.6 (53) |
| Te Atarangi Turi K026 | Angus | 29 | 548.8 (61) | 271.1 (52) | 49.5 (12) | 236.5 (71) | 75.1 (25) | 8.0 (23) |
| Te Atarangi Wai L027 | Angus | 21 | 547.3 (64) | 268.7 (59) | 49.0 (26) | 239.6 (47) | 71.0 (58) | 9.3 (5) |
| Te Mania Unlimited U3271 | Angus | 19 | 570.2 (31) | 274.6 (42) | 48.2 (64) | 240.8 (27) | 69.8 (62) | 7.1 (39) |
| Thomas Up River 1614 | Angus | 13 | 565.6 (38) | 272.3 (49) | 48.2 (64) | 239.4 (51) | 67.2 (70) | 7.7 (29) |
| Totaranui 13007 | Angus | 14 | 565.5 (39) | 276.9 (36) | 49.0 (26) | 237.2 (68) | 75.1 (25) | 6.6 (53) |
| Turihaua Liberation C27 | Angus | 18 | 557.9 (51) | 277.2 (34) | 49.4 (13) | 238.3 (60) | 76.2 (17) | 6.4 (58) |
| Waitangi Focus D213 | Angus | 13 | 546.8 (65) | 266.0 (68) | 48.6 (51) | 236.0 (73) | 74.6 (31) | 9.0 (9) |
| Woodbank Black Power | Angus | 14 | 559.6 (46) | 273.7 (45) | 48.9 (32) | 239.2 (53) | 76.2 (17) | 6.2 (63) |
| Ardo Achilles 120 | Hereford | 13 | 559.0 (48) | 267.0 (65) | 48.8 (38) | 237.0 (70) | 76.8 (14) | 8.0 (23) |
| Ardo Bismarck 4256 | Hereford | 10 | 536.1 (72) | 261.7 (71) | 48.8 (38) | 239.2 (53) | 67.5 (69) | 8.8 (13) |
| Ardo Extract 5298 | Hereford | 35 | 586.7 (13) | 287.7 (9) | 49.0 (26) | 243.2 (6) | 70.9 (59) | 7.8 (28) |
| Ardo Ezicalve Caspian 6159 | Hereford | 13 | 544.4 (69) | 260.8 (72) | 47.9 (69) | 243.0 (11) | 68.0 (68) | 7.6 (32) |
| Ardo Fargo 1154 | Hereford | 11 | 552.0 (58) | 268.8 (58) | 48.8 (38) | 239.7 (45) | 72.4 (44) | 6.6 (53) |
| Beechwood Doubtless | Hereford | 11 | 599.3 (3) | 295.8 (2) | 49.4 (13) | 243.1 (8) | 73.0 (41) | 9.5 (4) |
| Beechwood Turk | Hereford | 19 | 557.4 (52) | 276.3 (39) | 49.6 (9) | 241.8 (20) | 74.9 (28) | 6.7 (49) |
| Bluestone 080014 | Hereford | 19 | 567.5 (36) | 276.7 (38) | 48.8 (38) | 240.8 (27) | 75.9 (20) | 6.7 (49) |
| Bluestone 120061 | Hereford | 12 | 540.4 (70) | 267.2 (63) | 49.6 (9) | 240.8 (27) | 79.2 (4) | 7.1 (39) |
| Bluestone 140015 | Hereford | 17 | 567.7 (34) | 284.3 (20) | 50.1 (2) | 241.0 (26) | 71.1 (57) | 5.2 (67) |
| Bluestone 140027 | Hereford | 9 | 566.2 (37) | 277.0 (35) | 48.9 (32) | 240.5 (32) | 73.2 (40) | 7.0 (43) |
| Burnfoot Playboy | Hereford | 14 | 548.2 (62) | 268.2 (61) | 48.9 (32) | 242.6 (13) | 70.7 (60) | 7.4 (33) |
| Colraine Code Word 13 139 | Hereford | 15 | 578.7 (20) | 276.9 (36) | 47.7 (72) | 242.5 (15) | 74.2 (35) | 7.2 (38) |
| Craigmore Baton 140337 | Hereford | 18 | 570.8 (30) | 282.0 (26) | 49.4 (13) | 237.6 (66) | 75.4 (24) | 7.0 (43) |

| Sire | Breed | n | Live weight on farm (kg) | Carcass weight (kg) | Dressing-out (%) | Carcass length (cm) | Eye muscle area (cm ²) | Fat depth (mm) |
|-----------------------------|----------|----|-----------------------------|------------------------|---------------------|------------------------|---------------------------------------|-------------------|
| Craigmore Opium 10214 | Hereford | 14 | 558.7 (49) | 267.2 (63) | 47.9 (69) | 242.2 (19) | 72.4 (44) | 9.0 (9) |
| Craigmore Opium 150206 | Hereford | 5 | 583.4 (16) | 286.2 (15) | 49.1 (21) | 244.1 (3) | 65.4 (73) | 4.4 (73) |
| Flagstaff Big Red E8 | Hereford | 11 | 587.1 (12) | 287.7 (9) | 49.0 (26) | 243.1 (8) | 71.4 (55) | 8.5 (17) |
| Flagstaff Dynamo G6 | Hereford | 16 | 567.6 (35) | 275.2 (41) | 48.4 (58) | 243.2 (6) | 68.1 (67) | 7.9 (25) |
| Haumoana Accent 14032 | Hereford | 26 | 571.1 (29) | 284.7 (19) | 49.9 (4) | 238.4 (59) | 76.3 (16) | 7.3 (36) |
| Kairaumati Coal Face 1482 | Hereford | 11 | 545.9 (66) | 268.6 (60) | 48.7 (48) | 239.2 (53) | 78.0 (8) | 9.8 (3) |
| Koanui Bedford 4081 | Hereford | 10 | 596.7 (5) | 288.0 (8) | 48.3 (61) | 245.2 (1) | 69.8 (62) | 7.1 (39) |
| Koanui Briton 2044 | Hereford | 9 | 590.5 (10) | 286.8 (13) | 48.6 (51) | 242.4 (16) | 72.3 (46) | 9.0 (9) |
| Koanui Rocket 0219 | Hereford | 25 | 586.6 (14) | 287.3 (11) | 49.0 (26) | 240.3 (34) | 71.8 (51) | 8.6 (16) |
| Koanui Unanimous 0408 | Hereford | 14 | 592.7 (7) | 286.6 (14) | 48.3 (61) | 241.3 (25) | 75.8 (21) | 6.9 (47) |
| Limehills Awesome X117 | Hereford | 13 | 594.6 (6) | 290.7 (6) | 48.8 (38) | 241.5 (23) | 82.9 (1) | 5.3 (66) |
| Limehills Stamper 120719 | Hereford | 16 | 556.4 (53) | 274.2 (43) | 49.3 (18) | 240.2 (39) | 76.9 (13) | 6.2 (63) |
| Mahuta Kimo 4029 | Hereford | 5 | 562.0 (44) | 279.1 (31) | 49.7 (8) | 243.1 (8) | 77.8 (9) | 4.9 (70) |
| Maranui Hick 11-62 | Hereford | 6 | 582.2 (17) | 283.4 (24) | 48.7 (48) | 240.2 (39) | 73.9 (37) | 11.3 (1) |
| Mataouri Koa 09 99 | Hereford | 10 | 552.2 (57) | 266.9 (66) | 48.3 (61) | 243.0 (11) | 70.1 (61) | 8.2 (19) |
| Okawa Marshall 0109 | Hereford | 6 | 591.1 (9) | 280.5 (29) | 47.4 (73) | 243.4 (5) | 71.6 (53) | 7.7 (29) |
| Orari Gorge Mischeif 120083 | Hereford | 10 | 547.9 (63) | 269.5 (57) | 49.1 (21) | 244.8 (2) | 71.5 (54) | 4.9 (70) |
| Otapawa Spark 3060 | Hereford | 22 | 577.8 (21) | 284.0 (21) | 49.1 (21) | 239.5 (49) | 73.5 (39) | 9.2 (6) |
| Otengi Wisco 23 | Hereford | 6 | 568.6 (33) | 278.9 (32) | 49.1 (21) | 241.7 (21) | 72.8 (42) | 9.1 (7) |
| Platform Quebec | Hereford | 13 | 551.5 (59) | 269.7 (56) | 48.9 (32) | 242.3 (17) | 67.2 (70) | 10.3 (2) |
| Riverton Baltic 09 183 | Hereford | 15 | 574.9 (26) | 283.2 (25) | 49.2 (19) | 240.1 (41) | 77.5 (10) | 6.6 (53) |
| Te Taumata Deluxe 12520 | Hereford | 11 | 584.6 (15) | 285.3 (16) | 48.8 (38) | 239.2 (53) | 72.2 (47) | 6.3 (62) |
| Westholm Koala K13 | Hereford | 19 | 562.3 (42) | 273.6 (47) | 48.6 (51) | 239.4 (51) | 74.4 (33) | 7.4 (33) |
| Wirruna Daffy D1 | Hereford | 14 | 540.0 (71) | 266.8 (67) | 49.9 (4) | 240.7 (30) | 78.9 (5) | 7.3 (36) |
| Wirruna Echuca 99 | Hereford | 11 | 576.5 (24) | 284.8 (18) | 49.4 (13) | 240.1 (41) | 68.9 (66) | 7.1 (39) |

Table 10. Carcass traits measured on beef-cross-dairy progeny (34 Angus and 39 Hereford sires).

Rank shown in brackets. Sires without values for pH were sires used in cohort 1 only, that did not have meat samples collected.
Note: Shear force (tenderness) is only available for some bulls, as meat samples were taken from a subset of animals.

| Sire | Breed | n | Meat colour score | Fat colour score | Marble score | n pH | Ultimate pH | n shear force | Shear force (kgF) |
|----------------------------|-------|----|-------------------|------------------|--------------|------|-------------|---------------|-------------------|
| Blue Mountain Brillianz O5 | Angus | 14 | 3.1 (48) | 2.6 (3) | 0.6 (58) | 7 | 5.71 (48) | | |
| Earnsclough Tussock 144307 | Angus | 12 | 3.1 (50) | 2.9 (17) | 1.3 (8) | 12 | 5.67 (26) | | |
| Focus 110002 | Angus | 12 | 3.3 (70) | 3.2 (57) | 1.5 (2) | 12 | 5.71 (48) | 12 | 4.7 (20) |
| Focus Progression 110178 | Angus | 9 | 3.3 (71) | 3.6 (72) | 1.4 (6) | 9 | 5.64 (10) | 9 | 4.7 (21) |
| Glanworth Waigroup 1213 | Angus | 18 | 3 (42) | 3.2 (60) | 1.1 (18) | 18 | 5.7 (44) | 5 | 3.9 (2) |
| Grampians Lottery K13 | Angus | 15 | 3 (39) | 2.9 (14) | 0.7 (48) | 15 | 5.66 (16) | | |
| Heather Dell L72 | Angus | 24 | 3.1 (54) | 3.1 (44) | 1.1 (18) | 24 | 5.57 (1) | | |
| Kakahu 13059 | Angus | 10 | 3.3 (69) | 3.0 (32) | 1.3 (8) | | | | |
| Kakahu For Bond 13007 | Angus | 14 | 3 (35) | 3.1 (41) | 0.7 (48) | 11 | 5.69 (36) | | |
| Linton 13041 | Angus | 18 | 3 (41) | 2.9 (17) | 1.1 (18) | 18 | 5.7 (44) | 4 | 3.6 (1) |
| Matauri Reality 839 | Angus | 11 | 3.6 (73) | 3.4 (69) | 1.4 (6) | 11 | 5.79 (65) | 11 | 4.8 (25) |
| Matauri Resolution F030 | Angus | 17 | 2.9 (21) | 3.1 (47) | 0.7 (48) | 16 | 5.76 (62) | 8 | 4.3 (11) |
| Pinebank 1/06 | Angus | 16 | 3.2 (58) | 3.3 (63) | 1.0 (25) | 16 | 5.65 (14) | | |
| Puketi Regan 14123 | Angus | 9 | 3.2 (66) | 3.2 (56) | 0.6 (58) | | | | |
| Puketi Regan 14134 | Angus | 16 | 3.1 (48) | 3.1 (47) | 0.9 (33) | | | | |
| Rennylea Edmund E11 | Angus | 15 | 2.9 (16) | 3.3 (65) | 1.3 (8) | 13 | 5.66 (16) | 13 | 4.5 (17) |
| Seven Hills 161-06 | Angus | 9 | 2.9 (22) | 3.2 (54) | 0.9 (33) | 9 | 5.67 (26) | 9 | 5.0 (33) |
| Seven Hills 173-06 | Angus | 12 | 2.9 (22) | 2.9 (20) | 0.6 (58) | 4 | 5.69 (36) | | |
| Shalom Waigroup 101/01 | Angus | 7 | 3.2 (65) | 2.7 (4) | 0.7 (48) | 7 | 5.62 (4) | 7 | 4.2 (9) |
| Shalom Waigroup 319/07 | Angus | 12 | 2.8 (8) | 2.7 (5) | 0.9 (33) | 6 | 5.66 (16) | | |
| Storth Oaks Angus Prime K5 | Angus | 10 | 3.1 (45) | 2.9 (19) | 1.5 (2) | 10 | 5.69 (36) | | |
| Storth Oaks Everest J20 | Angus | 20 | 3.1 (44) | 3.1 (40) | 1.5 (2) | 18 | 5.69 (36) | 12 | 4.1 (3) |
| Storth Oaks H41 | Angus | 10 | 3 (34) | 3.1 (53) | 1.2 (15) | 6 | 5.64 (10) | | |

| Storth Oaks J29 | Angus | 11 | 3.2 (66) | 3.0 (32) | 1.3 (8) | 6 | 5.68 (34) | |
|----------------------------|----------|----|----------|----------|----------|----|-----------|----|
| Storth Oaks K134 | Angus | 9 | 3 (42) | 3.1 (52) | 0.7 (48) | 9 | 5.69 (36) | |
| Storth Oaks K154 | Angus | 12 | 3 (31) | 3.0 (24) | 1.1 (18) | 12 | 5.66 (16) | |
| Te Atarangi Turi K026 | Angus | 29 | 2.8 (12) | 3.0 (28) | 1.1 (18) | 15 | 5.71 (48) | 15 |
| Te Atarangi Wai L027 | Angus | 21 | 3.1 (55) | 3.1 (45) | 0.7 (48) | 21 | 5.64 (10) | |
| Te Mania Unlimited U3271 | Angus | 19 | 2.9 (22) | 2.9 (13) | 1.5 (2) | 19 | 5.66 (16) | 11 |
| Thomas Up River 1614 | Angus | 13 | 3.1 (50) | 2.8 (10) | 0.6 (58) | 13 | 5.71 (48) | |
| Totaranui 13007 | Angus | 14 | 3 (28) | 2.9 (16) | 1.1 (18) | 14 | 5.68 (34) | 8 |
| Turihaua Liberation C27 | Angus | 18 | 2.9 (18) | 3.1 (50) | 1.0 (25) | 14 | 5.66 (16) | 14 |
| Waitangi Focus D213 | Angus | 13 | 2.9 (22) | 3.3 (61) | 1.0 (25) | 6 | 5.66 (16) | |
| Woodbank Black Power | Angus | 14 | 2.8 (11) | 3.0 (37) | 0.7 (48) | 4 | 5.62 (4) | |
| Ardo Achilles 120 | Hereford | 13 | 2.6 (1) | 3.2 (54) | 1.3 (8) | 12 | 5.63 (7) | |
| Ardo Bismarck 4256 | Hereford | 10 | 3.2 (62) | 3.0 (28) | 0.9 (33) | 10 | 5.67 (26) | |
| Ardo Extract 5298 | Hereford | 35 | 3.2 (63) | 2.9 (20) | 1.0 (25) | 35 | 5.6 (2) | |
| Ardo Ezicalve Caspian 6159 | Hereford | 13 | 3 (37) | 3.1 (50) | 1.2 (15) | 13 | 5.74 (59) | |
| Ardo Fargo 1154 | Hereford | 11 | 2.7 (4) | 2.7 (5) | 0.4 (69) | 11 | 5.66 (16) | 11 |
| Beechwood Doubtless | Hereford | 11 | 3 (37) | 3.0 (23) | 0.8 (41) | 11 | 5.66 (16) | |
| Beechwood Turk | Hereford | 19 | 2.9 (22) | 3.0 (24) | 0.4 (69) | 19 | 5.66 (16) | 6 |
| Bluestone 080014 | Hereford | 19 | 2.8 (12) | 3.0 (28) | 0.8 (41) | 18 | 5.69 (36) | 12 |
| Bluestone 120061 | Hereford | 12 | 2.8 (8) | 2.9 (14) | 1.0 (25) | 11 | 5.62 (4) | 11 |
| Bluestone 140015 | Hereford | 17 | 3.1 (50) | 3.1 (46) | 1.0 (25) | 17 | 5.69 (36) | |
| Bluestone 140027 | Hereford | 9 | 2.7 (3) | 3.1 (47) | 1.1 (18) | 9 | 5.67 (26) | |
| Burnfoot Playboy | Hereford | 14 | 3 (28) | 3.0 (22) | 0.6 (58) | 14 | 5.71 (48) | 6 |
| Colraine Code Word 13 139 | Hereford | 15 | 3 (35) | 3.4 (66) | 1.6 (1) | 12 | 5.73 (57) | 12 |
| Craigmore Baton 140337 | Hereford | 18 | 2.8 (7) | 3.4 (67) | 0.9 (33) | 15 | 5.8 (66) | |
| Craigmore Opium 10214 | Hereford | 14 | 3.1 (56) | 3.0 (35) | 0.5 (68) | 14 | 5.67 (26) | |

| | | | | | | | | | |
|-----------------------------|----------|----|----------|----------|----------|----|-----------|----|----------|
| Craigmore Opium 150206 | Hereford | 5 | 3.1 (45) | 2.7 (7) | 0.2 (73) | 5 | 5.61 (3) | | |
| Flagstaff Big Red E8 | Hereford | 11 | 2.8 (6) | 2.8 (10) | 0.7 (48) | 10 | 5.67 (26) | 10 | 4.2 (6) |
| Flagstaff Dynamo G6 | Hereford | 16 | 2.9 (19) | 3.1 (41) | 0.8 (41) | 15 | 5.72 (55) | | |
| Haumoana Accent 14032 | Hereford | 26 | 2.7 (5) | 3 (24) | 0.6 (58) | 15 | 5.78 (63) | 15 | 4.5 (14) |
| Kairauamati Coal Face 1482 | Hereford | 11 | 3 (33) | 2.7 (8) | 0.7 (48) | 10 | 5.64 (10) | 10 | 4.6 (18) |
| Koanui Bedford 4081 | Hereford | 10 | 2.9 (22) | 3.0 (24) | 0.8 (41) | | | | |
| Koanui Briton 2044 | Hereford | 9 | 3.2 (63) | 3.5 (71) | 0.7 (48) | 9 | 5.7 (44) | | |
| Koanui Rocket 0219 | Hereford | 25 | 3 (31) | 3.3 (61) | 0.8 (41) | 25 | 5.71 (48) | 11 | 4.5 (15) |
| Koanui Unanimous 0408 | Hereford | 14 | 2.8 (8) | 3.0 (28) | 0.6 (58) | 14 | 5.67 (26) | 14 | 4.8 (29) |
| Limehills Awesome X117 | Hereford | 13 | 2.7 (2) | 2.8 (9) | 0.3 (72) | 13 | 5.73 (57) | 13 | 4.9 (31) |
| Limehills Stamper 120719 | Hereford | 16 | 3.2 (58) | 2.8 (12) | 0.4 (69) | 16 | 5.7 (44) | 6 | 5.0 (34) |
| Mahuta Kimo 4029 | Hereford | 5 | 3 (39) | 3.5 (70) | 1.3 (8) | | | | |
| Maranui Hick 11-62 | Hereford | 6 | 3.2 (61) | 3.9 (73) | 1.0 (25) | | | | |
| Mataouri Koa 09 99 | Hereford | 10 | 3.2 (58) | 3 (32) | 1.2 (15) | 10 | 5.72 (55) | 10 | 4.8 (25) |
| Okawa Marshall 0109 | Hereford | 6 | 3.2 (66) | 2.5 (1) | 0.6 (58) | 2 | 5.78 (63) | | |
| Orari Gorge Mischeif 120083 | Hereford | 10 | 2.9 (20) | 3.0 (37) | 1.0 (25) | 10 | 5.71 (48) | | |
| Otapawa Spark 3060 | Hereford | 22 | 3.1 (53) | 3.3 (64) | 0.9 (33) | 22 | 5.69 (36) | 5 | 4.6 (18) |
| Otengi Wisco 23 | Hereford | 6 | 3.1 (47) | 3.2 (57) | 0.9 (33) | | | | |
| Platform Quebec | Hereford | 13 | 2.9 (15) | 3.2 (59) | 0.6 (58) | 13 | 5.63 (7) | | |
| Riverton Baltic 09 183 | Hereford | 15 | 3 (28) | 3.0 (35) | 0.8 (41) | 15 | 5.65 (14) | 7 | 5.0 (32) |
| Te Taumata Deluxe 12520 | Hereford | 11 | 2.9 (14) | 3.0 (37) | 1.3 (8) | 11 | 5.67 (26) | | |
| Westholm Koala K13 | Hereford | 19 | 3.1 (56) | 3.1 (41) | 0.6 (58) | 19 | 5.75 (60) | 11 | 4.8 (25) |
| Wirruna Daffy D1 | Hereford | 14 | 3.5 (72) | 3.4 (68) | 0.9 (33) | 13 | 5.75 (60) | | |
| Wirruna Echuca 99 | Hereford | 11 | 2.9 (16) | 2.6 (2) | 0.8 (41) | 4 | 5.63 (7) | | |