beef+lamb new zealand GENETICS

Beef Progeny Test

Sire Report for Cohorts 1-5 | October 2020

Cohorts 1 and 2: inclusive of growth, ultrasound scanning and carcase trait data
Cohort 3 and 4: inclusive of growth and ultrasound scanning trait data
Cohort 5: inclusive of weaning weight trait data

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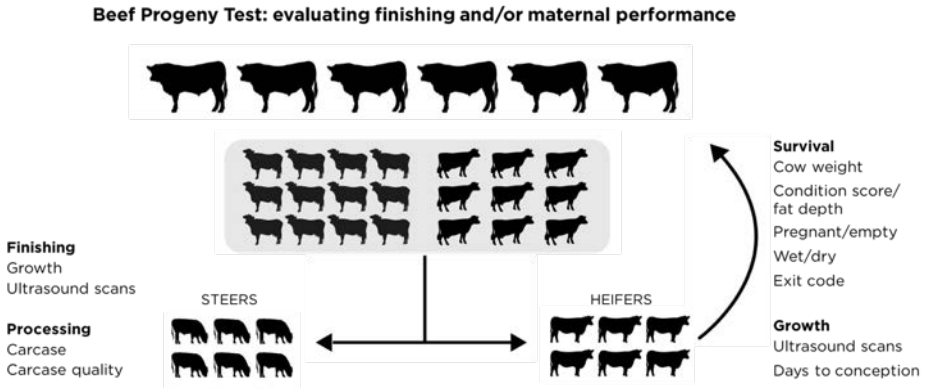
BEEF PROGENY TEST

Contents

Introduction

The Beef Progeny Test (BPT) compares bulls under New Zealand commercial farming conditions. The test was established in 2014 and currently involves three large properties across New Zealand.



Steers are assessed on their finishing performance and carcase traits, while replacement heifers are tracked for their maternal characteristics.

Some bulls are specifically included to provide genetic links to other programmes, where carcase data is being collected (e.g. the Australian Angus Sire Benchmark Programme, Hereford Progeny Test and Angus Sire Alliance).

Please see our website for copies of past reports
https://www.blnzgenetics.com/progeny-tests/beef-progeny-tests

Acknowledgements

Progeny test properties: Whangara Farms (Gisborne), Pamu's Rangitaiki Station (Taupo), the Black family's Mendip Hills Station (North Cant)

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Industry partners: AbacusBio, Animal Breeding Services NZ, Beef Breed Societies, Craig Foote, Silver Fern Farms.

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 sire report

This report provides an indication on how sires are performing within the progeny test 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.

Trait values and rankings

Progeny averages are displayed in the 'Value' columns. The rank value and coloured bars are intended as a visual reference of performance in a particular trait within the cohort. In most cases, higher-ranked sires have longer bars. For the Ossification trait, lower values are better as they indicate younger physiological maturity at slaughter. Therefore, shorter bars indicate a higher rank for this trait. (See appendix for trait definitions).

When reviewing rankings, it is important to also take into account the corresponding value figure as the difference between rankings may be minimal. For example, in the 18-month weight column in the table below, there is only a 0.4kg difference between the bulls ranked 33 and 34.

Some additional traits are recorded in the trial but not included in the sire report because:

- The trait showed very little variation, i.e. it is not under significant genetic control. These traits include pH, fat colour, meat colour.
- There was not enough progeny recorded for the sire's average to be useful, e.g. maternal traits are not recorded on terminal sire's progeny

Interpreting the tables

Progeny: Number of recorded progeny (both sexes) by each sire. Excluding single animal contemporary groups and heifer progeny for carcase results (except terminal-sired heifers).

Trait values = The average performance of sires' progeny. Values are calculated after adjusting for herd, management group, age of dam and age of animal (based on estimated conception date).

Total number of bulls in the cohort.

Number of bulls = 44			Wean Weight (kg)		Yearling Weight (kg)		18-month Weight (kg)		Eye Muscle Area (cm2)		Rump Fat (mm)		Rib Fat (mm)		IMF (%)	
Breed	Registered name	Progeny	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank
ANGUS	ARDROSSAN HONOUR H255 (AUS)	22	206.0	26	266.9	41	426.4	38	63.8	28	5.4	25	3.7	14	3.4	10
ANGUS	BLUE MOUNTAIN BRILLIANZ O5	18	208.0	12	273.3	29	428.3	34	64.5	11	4.9	41	3.1	43	2.7	40
ANGUS	FOCUS GENETICS 163069	22	205.0	30	277.6	21	434.2	23	64.5	12	6.1	2	4.0	5	3.5	7
ANGUS	GRAMPIANS BUZZ L11	17	203.1	37	274.4	28	428.7	33	63.1	37	5.8	6	4.0	4	3.6	3
ANGUS	KAKAHU 16159	21	206.8	21	269.5	37	422.8	43	63.1	36	5.3	27	3.3	31	3.0	32
		Minimum	199.4		259.2		420.9		61.7		4.9		3.1		2.5	
		Average	206.1		275.9		435.3		64.0		5.4		3.5		3.1	
		Maximum	214.9		292.0		448.6		66.7		6.7		4.3		3.9	

Trait rank = The ranking position of each sire for a particular trait, based on the number of bulls in the cohort. The coloured bars are intended as a guide for how a sire has ranked on a particular trait - i.e. higher-ranked sires have longer bars.

Results

Cohort One (2015-born progeny)

Table 1: Cohort 1 - summary of adjusted progeny averages for growth and ultrasound scanning data

Number of bulls = 53			Wean Weight (kg)		Yearling Weight (kg)		18-month Weight (kg)		Eye Muscle Area (cm2)		Rump fat (mm)		Rib Fat (mm)		IMF (%)	
Breed	**Registered name**	**Progeny**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**
ANGUS	CONNEALLY REVENUE 7392	23	209.5	12	277.5	27	430.2	37	64.8	24	5.4	31	3.9	13	3.7	10
ANGUS	EF COMPLEMENT 8088	19	198.6	52	262.0	52	424.9	48	65.3	19	5.3	33	3.3	39	3.7	8
ANGUS	FOCUS 135252 (ET)	27	208.0	18	278.0	25	436.4	28	66.1	10	5.5	24	3.7	22	3.7	7
ANGUS	FOCUS PROMINENT 100104	22	208.5	16	275.1	33	440.7	21	62.7	49	5.8	16	3.7	19	3.5	19
ANGUS	FOSSIL CREEK HERO H006	23	198.5	53	264.6	51	428.1	42	65.5	17	6.4	6	3.7	21	3.5	17
ANGUS	GAR MOMENTUM	17	205.5	31	276.4	30	435.8	29	64.7	28	5.3	35	3.6	27	4.0	4
ANGUS	GLANWORTH WAIGROUP 1213	24	200.5	49	274.5	36	428.7	41	64.0	37	5.0	44	3.5	32	3.0	39
ANGUS	HPCA INTENSITY	21	207.8	19	286.4	9	437.8	26	65.0	22	5.2	38	3.5	30	3.2	28
ANGUS	MATAURI OUTLIER F031	32	205.5	32	278.2	23	448.1	10	64.8	26	5.8	18	3.7	24	3.2	27
ANGUS	MATAURI REALITY 839	25	207.1	21	279.7	20	432.5	32	64.5	31	6.1	9	3.9	9	3.8	6
ANGUS	MT LINTON 13007	17	200.4	50	259.2	53	408.8	53	64.0	37	5.1	42	3.7	24	3.6	14
ANGUS	NGAPUTAHI EUREKA E38	25	203.7	42	270.7	44	425.4	46	63.1	46	4.8	48	3.2	42	2.9	44
ANGUS	PA SAFEGUARD 121	37	204.7	38	275.8	31	431.9	34	64.4	34	4.6	51	3.1	47	3.2	29
ANGUS	PINEBANK 64/10	21	205.0	34	269.8	47	419.5	51	60.8	52	5.6	22	4.0	7	3.3	26
ANGUS	RENNYLEA EDMUND E11	28	211.4	5	286.6	6	440.0	22	65.8	16	6.6	3	4.7	2	4.5	1
ANGUS	RISSINGTON 135057	21	205.1	33	273.6	39	422.1	49	63.8	39	6.9	2	4.2	4	3.6	11
ANGUS	RISSINGTON 135262 (ET)	22	209.4	13	281.7	18	442.8	15	67.0	2	6.4	4	3.9	11	4.0	3
ANGUS	RISSINGTON RESOLUTE 120992 (ET)	15	204.8	36	277.2	29	426.9	43	63.9	38	5.4	30	3.6	27	3.4	22
ANGUS	S A V BRUISER 9164 (US)	18	209.9	11	284.6	11	439.1	24	63.6	42	5.2	39	3.3	38	2.6	50
ANGUS	STORTH OAKS H114	31	205.6	30	277.5	26	432.3	33	63.8	40	5.8	17	3.5	34	3.3	24
ANGUS	STORTH OAKS H2	29	202.5	47	273.1	40	428.9	40	62.7	48	5.8	16	3.4	35	3.2	31
ANGUS	STORTH OAKS H41	17	206.3	27	283.8	14	441.5	17	66.1	12	5.8	19	3.6	29	3.5	16
ANGUS	TANGIHAU KAINO H29	27	204.8	37	273.0	41	430.0	39	64.4	32	5.9	13	4.2	5	4.1	2
ANGUS	TE MANIA 11 553	24	206.7	24	271.5	43	430.3	36	64.9	23	5.3	36	3.8	15	3.7	10
ANGUS	TOTARANUI 238 (ET)	27	214.5	2	281.7	18	439.3	23	66.3	9	4.8	50	3.2	43	3.5	15
ANGUS	TURIHAUA CRUMP E5	25	200.3	51	275.4	32	425.3	47	62.8	47	6.3	7	3.9	10	3.2	32
ANGUS	TURIHAUA LIBERATION	34	203.2	43	269.9	46	426.3	45	59.9	53	5.3	32	3.3	40	2.5	51
		Minimum	**198.5**		**259.2**		**408.8**		**59.9**		**4.5**		**2.6**		**2.2**	
		Average	**206.5**		**278.0**		**437.3**		**64.7**		**5.5**		**3.6**		**3.3**	
		Maximum	**217.5**		**302.6**		**478.7**		**69.2**		**7.1**		**4.7**		**4.5**	

Table 1 continued: Cohort 1 - summary of adjusted progeny averages for growth and ultrasound scanning data

Number of bulls = 53			Wean Weight (kg)		Yearling Weight (kg)		18-month Weight (kg)		Eye Muscle Area (cm2)		Rump fat (mm)		Rib Fat (mm)		IMF (%)	
Breed	**Registered name**	**Progeny**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**
CHAROLAIS	SILVERSTREAM PERFORMER	7	206.0	28	279.2	21	444.9	14	65.9	14	4.8	49	2.7	52	2.7	49
CHAROLAIS	WELCOME SWALLOW EASY GAIN F508	7	209.0	14	286.5	7	456.5	4	66.8	6	5.2	37	3.8	17	2.9	42
HEREFORD	BEECHWOOD TURK	12	203.7	41	268.0	48	426.5	44	62.1	51	4.9	46	2.9	51	2.2	53
HEREFORD	BLUESTONE 120061	32	201.0	48	267.8	49	430.0	39	63.2	45	5.5	26	3.6	29	3.0	40
HEREFORD	GLENDAN PARK TOP GUN W42 (IMP	8	207.1	20	278.0	24	439.0	25	64.6	30	5.6	23	3.4	36	2.4	52
HEREFORD	KOANUI ROCKET 0219	21	207.0	23	272.3	42	441.1	20	64.8	26	6.4	5	3.8	17	2.8	45
HEREFORD	MATARIKI HOLY SMOKE	14	208.9	15	274.3	37	437.5	27	64.8	27	6.0	12	3.9	13	3.6	12
HEREFORD	NITHDALE ELVIS 040021	14	210.2	9	286.5	8	448.4	9	66.9	5	5.4	30	3.7	20	3.6	13
HEREFORD	OKAWA DAVIS 7046	20	203.0	44	275.1	34	441.4	19	62.2	50	5.3	34	3.6	25	3.3	25
HEREFORD	OKAWA MARSHALL 0109	15	204.5	39	282.0	16	445.1	13	63.7	41	6.0	11	4.3	3	3.1	34
HEREFORD	OTAPAWA SPARK 3060	27	211.4	6	284.1	13	446.0	12	63.3	44	6.0	10	4.1	6	3.1	34
HEREFORD	WAIKAKA TURNING POINT 110015	14	210.0	10	278.3	22	446.7	11	64.4	33	5.1	43	3.0	49	3.0	37
HEREFORD	WIRRUNA DAFFY D1 (IMP AUS)	22	206.6	25	265.9	50	422.0	50	65.2	21	5.9	14	3.7	18	2.9	43
SIMMENTAL	GLEN ANTHONY Y-ARTA AY02 (ET)	12	206.6	26	273.9	38	442.3	16	64.3	35	5.7	20	3.4	37	2.8	47
SIMMENTAL	GLENSIDE ATOMIC A5	12	211.3	7	286.2	10	459.5	3	66.6	8	5.1	42	3.1	44	3.0	38
SIMMENTAL	KERRAH A456	15	212.7	3	295.1	2	449.1	6	67.0	3	5.2	40	3.5	32	3.2	30
SIMMENTAL	KERRAH XFACTOR AX187 (ET)	12	207.1	22	289.1	4	433.6	31	65.8	16	5.0	45	3.0	48	3.1	34
SIMMENTAL	KERRAH YES SIR AY393	15	205.9	29	286.9	5	452.2	5	65.9	13	5.5	28	3.1	46	2.8	47
SIMMENTAL	RISSINGTON AB5185	10	210.9	8	293.1	3	461.3	2	66.6	7	5.7	21	3.5	34	3.0	36
SIMMENTAL	RISSINGTON NEW STANDARD AU158	15	217.5	1	302.6	1	478.7	1	69.2	1	6.1	9	4.0	8	4.0	5
SIMMENTAL	TOKAWEKA HANDSOME AH801	15	208.2	17	281.7	18	449.0	7	65.5	18	4.5	52	2.6	53	2.7	48
STABILIZER	FOCUS BIG GENE 121293	25	211.4	4	282.8	15	448.6	8	66.1	11	4.5	53	3.0	50	2.9	42
STABILIZER	FOCUS FORCEFUL 135159	20	203.0	45	270.0	45	416.2	52	64.6	29	5.5	27	3.8	14	3.3	24
STABILIZER	FOCUS FOREFRONT 121599	29	202.6	46	277.5	28	435.7	30	63.3	43	5.5	26	3.3	41	3.4	20
STABILIZER	FOCUS PORTERHOUSE 135361	30	204.4	40	274.5	35	431.3	35	65.2	20	4.9	47	3.1	46	3.4	22
STABILIZER	FOCUS TRINITY 135263	18	205.0	35	284.2	12	441.4	18	66.9	4	7.1	1	4.7	1	3.5	18
		Minimum	**198.5**		**259.2**		**408.8**		**59.9**		**4.5**		**2.6**		**2.2**	
		Average	**206.5**		**278.0**		**437.3**		**64.7**		**5.5**		**3.6**		**3.3**	
		Maximum	**217.5**		**302.6**		**478.7**		**69.2**		**7.1**		**4.7**		**4.5**	

Table 2: Cohort 1 - summary of adjusted progeny averages for carcase quality (processing data)

Note: Values for Ossification are ranked in descending order (higher-ranked sires have shorter bars). Lower values are better as it indicates younger physiological maturity at slaughter.

Number of bulls = 53			Carcase Weight (kg)		Dressing %		Marbling		Ossofication		Fat Depth (mm)	
Breed	Registered name	Progeny	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank
ANGUS	CONNEALLY REVENUE 7392	23	310.7	12	0.542	26	373.2	10	145.7	10	7.5	6
ANGUS	EF COMPLEMENT 8088	19	310.6	16	0.543	19	362.1	24	145.4	9	6.6	12
ANGUS	FOCUS 135252 (ET)	27	310.7	14	0.541	32	348.1	45	145.2	6	6.3	17
ANGUS	FOCUS PROMINENT 100104	22	310.2	23	0.538	48	345.1	46	145.1	5	4.4	53
ANGUS	FOSSIL CREEK HERO H006	23	307.2	40	0.544	12	361.3	28	146.6	14	6.8	10
ANGUS	GAR MOMENTUM	17	310.2	22	0.545	7	373.6	9	148.7	40	6.2	20
ANGUS	GLANWORTH WAIGROUP 1213	24	308.6	31	0.542	26	367.0	15	151.2	52	6.6	13
ANGUS	HPCA INTENSITY	21	307.9	37	0.54	38	332.0	53	147.3	20	4.5	51
ANGUS	MATAURI OUTLIER F031	32	316.7	2	0.538	48	352.1	40	144.7	3	5.5	37
ANGUS	MATAURI REALITY 839	25	308.7	29	0.541	32	358.7	31	146.8	16	8.0	5
ANGUS	MT LINTON 13007	17	310.6	15	0.543	19	364.9	18	148.4	38	4.8	50
ANGUS	NGAPUTAHI EUREKA E38	25	308.2	35	0.546	3	363.1	21	148.9	44	5.0	46
ANGUS	PA SAFEGUARD 121	37	314.8	5	0.541	32	400.9	1	147.1	19	5.8	30
ANGUS	PINEBANK 64/10	21	301.9	53	0.539	44	366.3	17	149.0	45	8.2	3
ANGUS	RENNYLEA EDMUND E11	28	308.3	34	0.539	44	387.1	3	148.8	41	8.9	1
ANGUS	RISSINGTON 135057	21	306.4	42	0.54	38	393.9	2	146.2	12	7.1	8
ANGUS	RISSINGTON 135262 (ET)	22	308.4	33	0.543	19	361.5	27	148.1	35	6.5	14
ANGUS	RISSINGTON RESOLUTE 120992 (ET)	15	309.2	27	0.542	26	375.4	7	148.8	42	7.3	7
ANGUS	S A V BRUISER 9164 (US)	18	306.2	45	0.533	53	342.4	48	148.1	34	4.5	52
ANGUS	STORTH OAKS H114	31	309.8	24	0.545	7	361.8	25	144.3	2	5.4	40
ANGUS	STORTH OAKS H2	29	306.0	46	0.537	50	377.6	6	147.9	30	5.7	31
ANGUS	STORTH OAKS H41	17	307.8	38	0.54	38	349.6	44	148.1	34	6.1	23
ANGUS	TANGIHAU KAINO H29	27	308.1	36	0.545	7	362.9	22	148.4	37	8.8	2
ANGUS	TE MANIA 11 553	24	309.4	26	0.542	26	364.2	19	147.8	28	6.7	11
ANGUS	TOTARANUI 238 (ET)	27	310.5	17	0.542	26	370.1	12	147.8	26	5.7	32
ANGUS	TURIHAUA CRUMP E5	25	302.8	52	0.537	50	379.2	5	144.8	4	6.1	22
ANGUS	TURIHAUA LIBERATION	34	305.0	50	0.536	52	359.3	30	147.8	29	5.1	43
		Minimum	301.9		0.53		332.0		144.3		4.4	
		Average	309.3		0.54		360.7		147.6		6.1	
		Maximum	318.9		0.55		400.9		151.4		8.9	

Table 2 continued: Cohort 1 - summary of adjusted progeny averages for carcase quality (processing data)

Number of bulls = 53			Carcase Weight (kg)		Dressing %		Marbling		Ossofication		Fat Depth (mm)	
Breed	Registered name	Progeny	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank
CHAROLAIS	SILVERSTREAM PERFORMER	7	310.7	13	0.544	12	369.4	13	147.9	31	6.0	24
CHAROLAIS	WELCOME SWALLOW EASY GAIN F508	7	313.8	6	0.543	19	371.2	11	148.4	39	5.6	34
HEREFORD	BEECHWOOD TURK	12	308.5	32	0.541	32	337.4	50	149.0	47	5.0	46
HEREFORD	BLUESTONE 120061	32	305.5	48	0.543	19	356.3	33	146.2	11	5.9	28
HEREFORD	GLENDAN PARK TOP GUN W42 (IMP	8	310.4	20	0.541	32	354.7	36	147.8	27	5.8	29
HEREFORD	KOANUI ROCKET 0219	21	309.2	28	0.543	19	360.4	29	147.7	25	6.3	18
HEREFORD	MATARIKI HOLY SMOKE	14	311.7	10	0.546	3	354.5	37	148.1	36	6.9	9
HEREFORD	NITHDALE ELVIS 040021	14	308.6	30	0.539	44	344.9	47	147.7	24	6.0	25
HEREFORD	OKAWA DAVIS 7046	20	305.4	49	0.539	44	356.3	32	147.0	18	5.6	35
HEREFORD	OKAWA MARSHALL 0109	15	304.0	51	0.536	52	361.6	26	146.7	15	6.4	15
HEREFORD	OTAPAWA SPARK 3060	27	310.4	19	0.539	44	356.2	34	145.3	8	5.4	41
HEREFORD	WAIKAKA TURNING POINT 110015	14	307.7	39	0.541	32	363.8	20	147.7	24	5.9	27
HEREFORD	WIRRUNA DAFFY D1 (IMP AUS)	22	307.1	41	0.543	19	338.3	49	146.8	17	5.1	44
SIMMENTAL	GLEN ANTHONY Y-ARTA AY02 (ET)	12	305.9	47	0.54	38	335.6	51	147.4	21	4.9	49
SIMMENTAL	GLENSIDE ATOMIC A5	12	311.8	9	0.542	26	374.0	8	146.5	13	6.2	19
SIMMENTAL	KERRAH A456	15	311.0	11	0.544	12	351.1	41	145.3	7	6.1	22
SIMMENTAL	KERRAH XFACTOR AX187 (ET)	12	310.5	18	0.541	32	352.6	39	148.8	43	5.9	27
SIMMENTAL	KERRAH YES SIR AY393	15	313.8	7	0.546	3	366.4	16	150.1	50	5.4	39
SIMMENTAL	RISSINGTON AB5185	10	314.9	4	0.539	44	362.4	23	149.6	48	6.3	16
SIMMENTAL	RISSINGTON NEW STANDARD AU158	15	318.9	1	0.54	38	369.4	14	147.6	22	5.6	34
SIMMENTAL	TOKAWEKA HANDSOME AH801	15	310.4	21	0.544	12	350.0	43	148.0	32	5.3	42
STABILIZER	FOCUS BIG GENE 121293	25	315.1	3	0.547	1	355.4	35	151.4	53	5.4	38
STABILIZER	FOCUS FORCEFUL 135159	20	306.2	44	0.545	7	350.7	42	149.0	46	5.0	46
STABILIZER	FOCUS FOREFRONT 121599	29	306.3	43	0.544	12	382.0	4	150.5	51	5.6	36
STABILIZER	FOCUS PORTERHOUSE 135361	30	309.6	25	0.543	19	335.5	52	144.3	1	4.9	48
STABILIZER	FOCUS TRINITY 135263	18	313.5	8	0.544	12	353.2	38	149.9	49	8.2	4
	Minimum		301.9		0.53		332.0		144.3		4.4	
	Average		309.3		0.54		360.7		147.6		6.1	
	Maximum		318.9		0.55		400.9		151.4		8.9	

Cohort Two (2016-born progeny)

Table 3: Cohort 2 - summary of adjusted progeny averages across sires for growth and ultrasound scanning data

Number of bulls = 49

			Wean Weight (kg)		Yearling Weight (kg)		18-month Weight (kg)		Eye Muscle Area (cm2)		Rump fat (mm)		Rib Fat (mm)		IMF (%)	
Breed	**Registered name**	**Progeny**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Valu**	**Rank**	**Value**	**Rank**	**Value**	**Rank**
ANGUS	DEER VALLEY ALL IN (US)	27	209.0	10	284.8	6	444.0	14	64.3	25	4.9	48	3.2	44	3.1	21
ANGUS	FOCUS 131511	22	201.4	46	267.6	46	432.6	41	65.1	13	6.0	8	3.9	6	3.7	4
ANGUS	FOCUS 131539	26	201.1	47	270.5	43	419.9	48	62.5	49	5.3	34	3.3	40	3.3	15
ANGUS	FOCUS 143143	24	209.3	8	281.5	14	445.7	11	64.0	33	5.4	27	3.6	23	3.3	14
ANGUS	KAKAHU BOND 13007	21	204.4	31	279.2	20	435.7	34	62.8	46	5.7	15	3.6	22	3.5	8
ANGUS	KAKAHU JUBILANT 13054	22	209.8	5	274.4	35	429.5	44	63.0	42	5.2	35	3.6	19	3.5	9
ANGUS	LINTON 13543	18	203.4	41	273.7	38	433.8	40	63.9	35	5.8	12	3.6	22	3.3	17
ANGUS	MEADOWSLEA F540	22	205.8	25	279.2	19	431.7	42	64.1	30	5.5	21	3.5	24	3.0	33
ANGUS	MT MABLE FAT BOY	23	198.7	49	263.4	48	415.7	49	62.9	44	5.3	33	3.6	17	3.1	24
ANGUS	STORTH OAKS EVEREST J20	33	203.8	35	278.2	25	435.5	35	64.6	21	5.9	10	3.9	4	3.8	2
ANGUS	STORTH OAKS JACK J7	32	209.3	6	279.8	18	451.8	2	63.9	34	5.3	31	3.5	28	3.8	3
ANGUS	TE MANIA GARTH G67	25	206.5	21	283.8	8	444.5	13	64.6	23	6.4	1	4.0	2	3.7	5
ANGUS	TE MANIA JONAH 13588	29	204.0	34	269.3	44	436.0	32	64.0	32	5.2	36	3.3	38	3.1	26
ANGUS	TURIHAUA SIR CRUMBLE E222	30	206.8	20	276.1	31	437.8	29	63.9	36	5.0	44	3.1	48	2.5	48
ANGUS	TUWHARETOA REGENT D145 (AUS)	45	209.0	10	279.0	21	442.7	16	65.3	12	6.0	7	4.0	1	4.2	1
ANGUS	VAR RESERVE 1111 (US)	18	208.6	13	271.5	42	430.6	43	64.2	26	5.2	39	3.4	35	3.1	20
ANGUS	WAITANGI D213	24	202.3	43	271.8	41	434.6	38	63.1	41	5.6	19	3.6	19	2.7	43
ANGUS	WHANGARA 12323	25	208.3	14	278.7	22	443.6	15	64.6	20	5.6	16	3.5	25	3.5	11
CHAROLAIS	CENTREWOOD 130516	14	206.0	24	282.1	11	439.8	24	64.0	31	4.8	49	3.3	42	2.5	49
CHAROLAIS	HEMINGFORD GAMBLER G44	6	204.6	30	275.5	33	441.3	19	64.8	16	5.3	31	3.4	29	2.9	36
CHAROLAIS	KAITOKE COMMODORE C22	12	210.8	3	285.2	4	448.9	5	66.0	6	5.0	46	3.1	48	2.7	42
CHAROLAIS	LEACHMAN WHITE GOLD P0002X (US)	6	207.3	18	282.4	10	437.2	31	64.7	19	5.2	39	3.3	39	2.9	37
CHAROLAIS	SILVERSTREAM GEDDES G102	13	203.5	40	286.3	3	429.5	45	64.6	24	5.4	24	3.5	26	3.0	33
CHAROLAIS	SIMCA HILLS VEEDUB	6	208.1	15	289.1	2	450.1	4	65.1	14	5.3	31	3.5	28	2.9	38
HEREFORD	ARDO FARGO 1154	29	200.1	48	262.3	49	428.2	46	62.6	47	6.0	7	3.6	16	3.0	28
HEREFORD	BLUESTONE 080014	6	205.4	28	280.1	17	434.3	39	64.1	29	6.1	3	3.8	9	3.3	16
HEREFORD	COLRAINE CODE WORD 13 139	19	201.5	45	272.4	40	455.6	1	63.2	40	5.6	18	3.7	11	3.1	25
HEREFORD	EFBEEF U208 FORTUNE Y848 (US)	25	204.1	32	272.8	39	421.9	47	64.1	27	5.2	37	3.3	38	3.1	22
HEREFORD	GRASSMERE SPARK 555	19	201.8	44	275.2	34	439.6	25	63.4	38	5.6	17	3.8	9	3.1	23
HEREFORD	KOANUI CHIEFLY 2510	16	207.9	16	282.0	12	440.7	20	63.6	37	6.3	2	3.9	5	3.0	33
HEREFORD	KOANUI UNANIMOUS 0408	13	203.0	42	275.5	32	438.6	27	62.6	48	5.3	28	3.2	46	2.7	44
HEREFORD	LIMEHILLS STAMPER 20719	18	209.3	7	278.5	23	445.9	9	66.0	4	5.4	27	3.3	36	2.6	46
HEREFORD	MONYMUSK GALLANT	11	204.0	33	274.2	37	447.5	7	65.5	9	5.9	9	3.7	14	3.4	12
HEREFORD	OKAWA MAJOR 2008	16	205.7	26	277.5	28	442.1	18	63.0	43	5.0	47	3.1	49	2.8	41
HEREFORD	ORARI GORGE MISCHIEF 120083	19	211.4	2	284.6	7	434.7	37	63.3	39	6.0	5	3.9	7	3.0	35
HEREFORD	WIRRUNA ECHUCA (AUS)	26	208.7	11	281.8	13	439.2	26	62.9	45	6.1	4	4.0	3	3.6	7
		Minimum	198.7		262.3		415.7		62.5		4.8		3.1		2.5	
		Average	205.9		277.5		438.9		64.4		5.5		3.5		3.1	
		Maximum	212.3		289.4		455.6		66.9		6.4		4.0		4.2	

Table 3 continued: Cohort 2 - summary of adjusted progeny averages for growth and ultrasound scanning data

Number of bulls = 49

			Wean Weight (kg)		Yearling Weight (kg)		18-month Weight (kg)		Eye Muscle Area (cm2)		Rump fat (mm)		Rib Fat (mm)		IMF (%)	
Breed	**Registered name**	**Progeny**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**
SIMMENTAL	CDI RIMROCK 325Z (US)	13	212.3	1	289.4	1	448.5	6	65.5	8	5.1	40	3.3	42	3.5	10
SIMMENTAL	GLENSIDE CATALYST C23	14	203.6	37	268.4	45	435.1	36	66.0	5	5.8	13	3.4	31	2.9	39
SIMMENTAL	HOOKS YELLOWSTONE 97Y (US)	15	210.0	4	277.5	27	440.1	22	66.1	3	5.4	25	3.4	33	3.2	18
SIMMENTAL	KERRAH AX49	13	205.4	29	280.5	16	440.3	21	65.8	7	5.1	43	3.3	42	2.8	40
SIMMENTAL	KERRAH BANDWAGON B306	14	203.7	36	266.7	47	435.8	33	66.9	1	5.7	14	3.7	12	3.6	7
SIMMENTAL	KERRAH BANKER B464	14	206.2	23	284.8	5	446.3	8	64.8	18	5.5	22	3.8	10	3.3	14
SIMMENTAL	MF RUSHMORE AB0008	2	206.3	22	277.3	29	437.5	30	64.6	23	5.1	42	3.4	33	3.0	31
SIMMENTAL	RISSINGTON AC244	10	205.6	27	278.5	24	445.7	10	65.3	11	5.9	11	3.7	13	3.0	30
SIMMENTAL	RIVERBEND TAMARACK 60N PF (CAN)	12	208.6	13	274.3	36	438.1	28	64.1	28	5.5	23	3.4	30	3.0	29
SIMMENTAL	WAIKITE AB2038	14	203.5	40	276.4	30	442.5	17	65.3	10	5.0	46	3.4	35	2.6	47
SIMMENTAL	WAIKITE AC2016	11	207.5	17	281.2	15	445.4	12	64.8	17	5.5	20	3.7	15	3.0	28
SIMMENTAL	WAIKITE AMPLE AA2241	14	203.6	38	277.7	26	440.1	23	65.0	15	5.3	29	3.2	45	2.7	45
STABILIZER	FOCUS BIG GENE 121292	43	207.1	19	283.4	9	450.5	3	66.4	2	5.1	42	3.6	20	3.2	19
		Minimum	198.7		262.3		415.7		62.5		4.8		3.1		2.5	
		Average	205.9		277.5		438.9		64.4		5.5		3.5		3.1	
		Maximum	212.3		289.4		455.6		66.9		6.4		4.0		4.2	

Table 4: Cohort 2 - summary of adjusted progeny averages for carcase quality (processing data)

Note: Values for Ossification are ranked in descending order (higher-ranked sires have shorter bars). Lower values are better as it indicates younger physiological maturity at slaughter.

Number of bulls = 49

			Carcase Weight (kg)		Dressing %		Marbling		Ossification		Fat Depth (mm)	
Breed	Registered name	Progeny	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank
ANGUS	DEER VALLEY ALL IN (US)	27	312.0	8	0.543	10	389.0	2	147.7	32	6.8	7
ANGUS	FOCUS 131511	22	309.0	25	0.543	10	351.5	31	146.0	7	6.3	14
ANGUS	FOCUS 131539	26	306.9	37	0.542	15	384.8	3	146.9	20	6.0	22
ANGUS	FOCUS 143143	24	306.7	39	0.539	37	351.1	33	145.8	5	7.0	4
ANGUS	KAKAHU BOND 13007	21	311.2	13	0.543	10	352.8	30	148.6	41	6.4	10
ANGUS	KAKAHU JUBILANT 13054	22	313.4	4	0.541	22	364.1	12	148.6	43	6.9	5
ANGUS	LINTON 13543	18	308.1	32	0.541	22	355.8	25	146.0	6	6.7	8
ANGUS	MEADOWSLEA F540	22	306.9	38	0.540	29	360.8	15	147.4	29	6.3	15
ANGUS	MT MABLE FAT BOY	23	307.4	36	0.541	22	348.3	39	145.0	1	5.1	47
ANGUS	STORTH OAKS EVEREST J20	33	305.9	44	0.536	46	366.2	8	148.7	44	7.6	2
ANGUS	STORTH OAKS JACK J7	32	306.4	42	0.530	49	358.3	18	148.1	37	5.6	42
ANGUS	TE MANIA GARTH G67	25	313.9	3	0.537	45	349.8	35	146.1	10	7.2	3
ANGUS	TE MANIA JONAH 13588	29	304.2	48	0.534	48	345.5	44	146.3	12	6.2	16
ANGUS	TURIHAUA SIR CRUMBLE E222	30	309.1	24	0.538	43	330.7	48	146.1	9	5.7	34
ANGUS	TUWHARETOA REGENT D145 (AUS)	45	309.8	20	0.539	37	391.1	1	146.7	18	7.7	1
ANGUS	VAR RESERVE 1111 (US)	18	309.4	23	0.542	15	357.6	21	146.4	14	6.0	21
ANGUS	WAITANGI D213	24	303.5	49	0.539	37	351.3	32	147.3	27	5.9	26
ANGUS	WHANGARA 12323	25	318.1	1	0.543	10	364.6	11	147.0	23	5.8	31
CHAROLAIS	CENTREWOOD 130516	14	309.5	22	0.541	22	371.6	6	145.1	2	5.6	41
CHAROLAIS	HEMINGFORD GAMBLER G44	6	311.1	14	0.546	2	348.4	38	145.8	4	5.7	34
CHAROLAIS	KAITOKE COMMODORE C22	12	307.6	34	0.539	37	347.0	41	148.2	39	5.8	32
CHAROLAIS	LEACHMAN WHITE GOLD P0002X (US)	6	308.9	26	0.542	15	356.6	23	146.7	17	5.9	27
CHAROLAIS	SILVERSTREAM GEDDES G102	13	305.4	45	0.540	29	354.9	27	147.7	35	5.7	38
CHAROLAIS	SIMCA HILLS VEEDUB	6	313.2	5	0.545	5	349.3	37	148.6	42	5.7	37
		Minimum	303.5		0.530		325.1		145.0		4.8	
		Average	309.2		0.541		357.0		147.3		6.0	
		Maximum	318.1		0.547		391.1		151.2		7.7	

Table 4 continued: Cohort 2 - summary of adjusted progeny averages for carcase quality (processing data)

Number of bulls = 49

			Carcase Weight (kg)		Dressing %		Marbling		Ossofication		Fat Depth (mm)	
Breed	Registered name	Progeny	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank
HEREFORD	ARDO FARGO 1154	29	306.5	41	0.539	37	346.9	42	145.3	3	5.6	40
HEREFORD	BLUESTONE 080014	6	308.2	31	0.538	43	360.1	17	148.8	45	5.9	30
HEREFORD	COLRAINE CODE WORD 13 139	19	311.4	10	0.538	43	357.8	19	146.7	16	5.9	30
HEREFORD	EFBEEF U208 FORTUNE Y848 (US)	25	305.1	47	0.542	15	357.7	20	148.4	40	4.8	49
HEREFORD	GRASSMERE SPARK 555	19	311.4	11	0.539	37	360.6	16	150.3	48	6.8	7
HEREFORD	KOANUI CHIEFLY 2510	16	311.6	9	0.542	15	364.8	10	147.7	32	6.1	19
HEREFORD	KOANUI UNANIMOUS 0408	13	305.4	46	0.540	29	344.5	45	147.7	35	6.3	13
HEREFORD	LIMEHILLS STAMPER 20719	18	308.7	27	0.545	5	346.4	43	146.0	8	6.4	12
HEREFORD	MONYMUSK GALLANT	11	308.7	28	0.539	37	348.1	40	146.9	21	6.1	19
HEREFORD	OKAWA MAJOR 2008	16	307.4	35	0.535	47	353.9	28	147.6	30	5.9	28
HEREFORD	ORARI GORGE MISCHIEF 120083	19	306.6	40	0.539	37	355.9	24	149.4	47	5.6	39
HEREFORD	WIRRUNA ECHUCA (AUS)	26	308.2	30	0.540	29	363.4	13	146.2	11	6.1	17
SIMMENTAL	CDI RIMROCK 325Z (US)	13	308.2	29	0.545	5	378.3	5	148.1	38	5.2	45
SIMMENTAL	GLENSIDE CATALYST C23	14	311.2	12	0.547	1	351.1	34	146.5	15	5.2	46
SIMMENTAL	HOOKS YELLOWSTONE 97Y (US)	15	315.9	2	0.545	5	341.8	47	146.3	13	6.1	20
SIMMENTAL	KERRAH AX49	13	309.9	19	0.541	22	368.1	7	149.1	46	5.0	48
SIMMENTAL	KERRAH BANDWAGON B306	14	310.8	15	0.541	22	379.0	4	147.0	24	5.7	35
SIMMENTAL	KERRAH BANKER B464	14	312.0	7	0.540	29	356.9	22	146.8	19	5.7	37
SIMMENTAL	MF RUSHMORE AB0008	2	306.4	43	0.540	29	353.9	29	147.0	22	6.0	25
SIMMENTAL	RISSINGTON AC244	10	310.7	17	0.540	29	365.8	9	147.2	26	6.0	23
SIMMENTAL	RIVERBEND TAMARACK 60N PF (CAN)	12	307.9	33	0.541	22	355.6	26	151.2	49	5.4	44
SIMMENTAL	WAIKITE AB2038	14	309.8	21	0.541	22	325.1	49	147.8	36	6.0	25
SIMMENTAL	WAIKITE AC2016	11	312.4	6	0.539	37	363.0	14	147.4	28	6.4	11
SIMMENTAL	WAIKITE AMPLE AA2241	14	310.7	17	0.543	10	342.1	46	147.7	33	5.4	43
STABILIZER	FOCUS BIG GENE 121292	43	310.6	18	0.545	5	349.6	36	147.2	25	6.6	9
		Minimum	303.5		0.530		325.1		145.0		4.8	
		Average	309.2		0.541		357.0		147.3		6.0	
		Maximum	318.1		0.547		391.1		151.2		7.7	

Cohort Three (2017-born progeny)

Table 5: Cohort 3 - summary of adjusted progeny averages for growth and ultrasound scanning data

Number of bulls = 47			Wean Weight (kg)		Yearling Weight (kg)		18-month Weight (kg)		Eye Muscle Area (cm2)		Rump fat (mm)		Rib Fat (mm)		IMF (%)	
Breed	**Registered name**	**Progeny**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**
ANGUS	BRAVEHEART OF STERN	21	202.4	42	273.7	35	430.9	37	63.9	35	6.0	5	3.7	7	3.5	6
ANGUS	EARNSCLEUGH TUSSOCK 144307	21	209.6	6	282.7	10	448.3	10	65.0	16	6.1	3	3.6	23	3.3	16
ANGUS	EMBLAZON 999 (US)	20	202.9	39	271.1	40	423.5	45	61.8	47	5.2	27	3.2	40	3.0	28
ANGUS	GLANWORTH WAIGROUP 14163	27	205.0	29	279.9	17	436.0	28	63.3	42	5.7	14	3.6	15	3.1	27
ANGUS	GRAMPIANS LOTTERY K13	21	202.2	43	269.5	42	419.1	46	62.8	45	5.6	17	3.6	16	3.2	18
ANGUS	H P C A PROCEED (US)	34	207.7	12	272.4	38	424.5	44	61.9	46	4.8	44	3.4	35	3.7	2
ANGUS	JOURNEY 1X74 (US)	28	204.0	33	274.9	31	436.2	26	65.2	10	4.9	41	3.2	42	2.9	33
ANGUS	KAKAHU 14003	24	205.6	23	276.5	25	435.6	30	63.8	37	5.2	32	3.4	31	3.1	25
ANGUS	LINTON 15077	17	203.0	38	274.9	30	432.7	35	63.9	34	6.2	2	3.8	4	3.4	13
ANGUS	PATHFINDER GENESIS G357 (AUS)	45	207.5	13	279.0	18	437.0	25	64.0	33	5.9	9	3.9	3	3.4	9
ANGUS	PINEBANK 97/11	22	205.5	24	277.3	24	441.5	17	64.9	17	5.9	10	3.7	11	3.2	21
ANGUS	RENNYLEA K163	26	205.3	27	274.0	34	429.0	38	65.1	13	5.1	33	3.6	15	3.4	9
ANGUS	RISSINGTON PREMIUM CUT C487	19	207.0	19	281.6	13	435.9	29	64.7	21	5.2	26	3.6	23	3.4	11
ANGUS	SEVEN HILLS 129/14	32	204.3	32	278.5	20	428.3	39	63.3	43	5.8	11	3.8	5	3.6	4
ANGUS	STORTH OAKS ANGUS PRIME K5	24	202.1	44	266.9	44	413.7	47	63.0	44	6.0	6	4.1	1	3.7	1
ANGUS	STORTH OAKS K122/14	43	203.8	36	273.5	36	440.9	20	64.6	22	5.6	20	3.6	19	3.6	5
ANGUS	STORTH OAKS K134	21	211.2	1	283.5	9	451.2	6	64.3	25	4.9	42	3.2	39	3.0	30
ANGUS	THOMAS UP RIVER 1614 (US)	30	207.0	19	277.6	22	433.6	33	63.4	41	5.7	15	3.6	13	3.4	14
ANGUS	TURIHAUA MYTHOLOGY F236	20	207.4	15	280.8	15	435.4	31	63.5	38	5.4	23	3.5	26	3.2	19
ANGUS	VAR GENERATION 2100 (US)	16	202.7	41	269.9	41	426.9	42	63.8	36	5.2	28	3.6	17	3.6	3
ANGUS	WAITAWHETA K44 AB	26	209.9	5	283.7	8	443.9	16	64.1	30	5.3	24	3.6	13	3.4	13
CHAROLAIS	BLELACK DIGGER	17	209.5	7	275.8	26	439.3	24	65.9	3	4.5	47	3.0	46	2.3	47
CHAROLAIS	HEMINGFORD J95	13	204.9	30	275.6	28	441.2	19	64.5	23	4.6	46	3.2	43	2.5	45
CHAROLAIS	SILVERSTREAM FRAMPTON	14	204.6	31	284.3	7	452.0	5	65.7	6	4.9	39	3.0	45	2.3	46
CHAROLAIS	WHANANAKI APOLLO A78	12	203.9	34	273.0	37	434.7	32	64.2	27	4.8	45	3.1	44	2.7	44
		Minimum	199.7		263.3		413.7		61.8		4.5		3.0		2.3	
		Average	205.8		277.3		438.5		64.4		5.4		3.5		3.1	
		Maximum	211.2		290.6		455.6		66.5		6.2		4.1		3.7	

Table 5 continued: Cohort 3 - summary of adjusted progeny averages for growth and ultrasound scanning data

Number of bulls = 47			Wean Weight (kg)		Yearling Weight (kg)		18-month Weight (kg)		Eye Muscle Area (cm2)		Rump fat (mm)		Rib Fat (mm)		IMF (%)	
Breed	**Registered name**	**Progeny**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**
HEREFORD	ARDO ACHILLES 120	18	199.7	46	265.8	46	433.4	34	64.8	18	5.7	14	3.7	10	2.7	42
HEREFORD	ARDO BISMARCK 4256	21	203.3	37	274.2	33	436.1	27	64.8	19	5.7	12	3.3	37	3.0	30
HEREFORD	GRASSMERE GALANT 9	24	210.8	2	274.4	32	444.3	15	64.1	32	5.6	20	3.5	29	2.9	35
HEREFORD	INJEMIRA ANZAC K220 (AUS)	17	207.3	16	275.0	29	448.6	9	64.4	24	5.0	36	3.4	34	2.8	40
HEREFORD	KOANUI TECHNO 3062	21	206.7	20	275.6	27	440.0	21	64.1	32	5.6	21	3.3	38	2.8	38
HEREFORD	MATARIKI 140255	22	205.3	26	268.3	43	452.5	4	65.1	12	6.2	1	3.9	3	3.4	7
HEREFORD	ORARI GORGE OLIGARCH 140025	10	208.4	10	281.6	12	447.2	11	65.4	8	5.9	9	3.6	19	3.1	23
HEREFORD	SHF ALL STAR (US)	18	201.7	45	271.8	39	426.2	43	65.0	15	5.2	26	3.4	32	3.1	26
HEREFORD	TE TAUMATA FOUNDATION 14684	21	206.4	22	277.3	24	439.7	23	64.2	28	5.0	38	3.6	23	2.9	33
HEREFORD	TLELL 29F RED CEDAR 8N (CAN)	19	202.9	40	282.1	11	445.2	13	65.3	9	5.9	7	3.7	10	3.2	17
SIMMENTAL	GLENSIDE CRUMPY C4	17	206.7	21	280.5	16	439.9	22	65.1	11	5.6	16	3.6	19	2.8	39
SIMMENTAL	GLENSIDE D12	15	209.9	4	285.8	5	447.2	12	65.7	5	5.2	30	3.4	36	2.9	33
SIMMENTAL	HOOKS BEACON 56B (US)	14	205.3	25	281.2	14	426.9	42	64.2	29	5.2	32	3.6	21	3.4	11
SIMMENTAL	KERRAH CAPTAIN C400	15	207.5	14	286.3	4	455.4	2	66.5	1	5.6	18	3.7	8	2.8	41
SIMMENTAL	LEAFLAND CAPTAIN C1	17	210.2	3	289.7	2	451.2	7	64.3	26	5.1	35	3.2	42	3.1	25
SIMMENTAL	MR NLC UPGRADE U8676 (US)	20	208.5	9	285.4	6	449.3	8	64.7	20	5.1	35	3.5	29	3.2	21
SIMMENTAL	RISSINGTON AD372 (ET)	16	209.3	8	287.9	3	455.6	1	66.3	2	6.0	4	3.8	6	3.3	16
SIMMENTAL	RISSINGTON AD8	16	207.2	17	278.1	21	445.1	14	65.0	15	5.4	23	3.5	25	2.9	36
SIMMENTAL	WAIKITE ZACKARIAS AZ0176	18	208.1	11	290.6	1	455.4	3	65.4	8	5.2	30	3.0	47	2.8	37
SIMMENTAL	WS PRIME BEEF Z8 (US)	14	205.2	28	278.9	19	441.5	18	65.8	4	5.0	38	3.4	31	2.7	44
STABILIZER	STABILIZER 140082	20	203.9	35	263.3	47	431.8	36	63.4	41	4.9	43	3.4	34	3.0	31
STABILIZER	STABILIZER 140850	29	199.7	47	266.8	45	427.6	40	63.4	39	4.9	40	3.5	27	3.2	21
		Minimum	199.7		263.3		413.7		61.8		4.5		3.0		2.3	
		Average	205.8		277.3		438.5		64.4		5.4		3.5		3.1	
		Maximum	211.2		290.6		455.6		66.5		6.2		4.1		3.7	

Cohort Four (2018-born progeny)

Table 6: Cohort 4 - summary of adjusted progeny averages across sires for growth and ultrasound scanning data

Number of bulls = 44			Wean Weight (kg)		Yearling Weight (kg)		18-month Weight (kg)		Eye Muscle Area (cm2)		Rump Fat (mm)		Rib Fat (mm)		IMF (%)	
Breed	Registered name	Progeny	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank
ANGUS	ARDROSSAN HONOUR H255 (AUS)	22	206.0	26	266.9	41	426.4	38	63.8	28	5.4	25	3.7	14	3.4	10
ANGUS	BLUE MOUNTAIN BRILLIANZ O5	18	208.0	12	273.3	29	428.3	34	64.5	11	4.9	41	3.1	43	2.7	40
ANGUS	FOCUS GENETICS 163069	22	205.0	30	277.6	21	434.2	23	64.5	12	6.1	2	4.0	5	3.5	7
ANGUS	GRAMPIANS BUZZ L11	17	203.1	37	274.4	28	428.7	33	63.1	37	5.8	6	4.0	4	3.6	3
ANGUS	KAKAHU 16159	21	206.8	21	269.5	37	422.8	43	63.1	36	5.3	27	3.3	31	3.0	32
ANGUS	LD CAPITALIST 316 (USA)	24	207.6	15	273.1	30	432.9	26	64.1	24	5.4	22	3.5	23	3.4	9
ANGUS	MILLAH MURRAH LOCH UP L133 (AUS	20	207.0	19	276.7	23	429.2	32	63.0	38	4.9	41	3.1	41	2.8	37
ANGUS	MT LINTON 16042	31	204.3	32	272.3	32	426.4	37	61.7	44	5.2	33	3.5	26	2.9	34
ANGUS	PA FULL POWER 1208 (USA)	27	205.1	29	275.7	26	430.7	29	63.9	26	5.7	16	3.5	22	3.2	19
ANGUS	QUAKER HILL MILE HIGH 4EX31 (USA)	28	205.8	27	277.6	20	432.7	27	63.6	30	5.9	4	4.1	2	3.5	5
ANGUS	REILAND HILARY H874 (AUS)	15	210.4	2	279.4	12	443.3	10	65.8	3	5.2	30	3.3	35	3.1	23
ANGUS	RISSINGTON 160136	18	207.1	18	278.3	17	429.4	31	63.5	31	4.9	41	3.2	38	3.1	27
ANGUS	RISSINGTON RESOLVED C116	22	204.1	33	259.2	44	426.2	39	62.9	40	5.8	9	3.9	7	3.4	9
ANGUS	SEVEN HILLS 85/15	21	204.0	34	271.1	33	424.0	42	64.5	9	5.2	35	3.3	28	3.3	13
ANGUS	STORTH OAKS L94	28	214.9	1	281.4	9	447.8	2	64.1	22	5.3	26	3.6	18	3.5	6
ANGUS	SYDGEN EXCEED 3223 (USA)	32	199.4	44	267.7	40	420.9	44	61.7	43	5.2	35	3.2	38	3.1	26
ANGUS	TE MANIA LIMITLESS 15380	16	209.0	7	279.2	15	441.2	16	63.8	29	5.7	16	3.6	16	3.2	21
ANGUS	TE MANIA MULLER 305	26	209.1	6	281.1	10	445.4	3	64.4	13	5.7	13	3.5	24	3.2	15
ANGUS	TOTARANUI 15151	19	208.7	8	279.4	13	426.8	35	63.4	34	5.2	30	3.1	42	2.9	34
ANGUS	TURIROA 16M013	14	208.2	11	284.0	4	445.2	5	63.5	33	4.9	44	3.3	31	3.0	31
ANGUS	WHENUAPAPA CRUMBLE 8-10	17	202.7	38	280.3	11	434.4	22	64.1	21	5.9	3	3.5	25	3.2	21
		Minimum	**199.4**		**259.2**		**420.9**		**61.7**		**4.9**		**3.1**		**2.5**	
		Average	**206.1**		**275.9**		**435.3**		**64.0**		**5.4**		**3.5**		**3.1**	
		Maximum	**214.9**		**292.0**		**448.6**		**66.7**		**6.7**		**4.3**		**3.9**	

Table 6 continued: Cohort 4 - summary of adjusted progeny averages across sires for growth and ultrasound scanning data

Number of bulls = 44			Wean Weight (kg)		Yearling Weight (kg)		18-month Weight (kg)		Eye Muscle Area (cm2)		Rump Fat (mm)		Rib Fat (mm)		IMF (%)	
Breed	Registered name	Progeny	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank	Value	Rank
CHAROLAIS	HEMINGFORD ICONIC I9	10	208.7	9	283.9	5	448.6	1	64.6	8	5.0	39	3.2	38	3.0	29
CHAROLAIS	PALGROVE XCEPT (AUS)	11	206.9	20	269.3	38	429.5	30	63.9	27	5.2	32	3.3	34	2.7	39
CHAROLAIS	SILVERSTREAM LANDIS L179	14	207.1	18	278.4	16	435.3	21	64.7	7	5.5	21	3.6	15	3.3	14
CHAROLAIS	SPARROWS BRAXTON 519C (USA)	18	207.5	16	270.7	34	426.7	36	64.1	24	5.1	38	3.3	29	3.0	31
CHAROLAIS	WHANANAKI LEX L24	9	206.3	24	277.6	19	440.1	19	64.2	19	4.9	43	3.1	44	2.8	38
HEREFORD	ARDO AJAX 5014	20	201.7	40	269.9	36	443.4	9	66.1	2	5.5	20	3.6	19	3.1	25
HEREFORD	CRAIGMORE IKE 140260	19	206.6	23	276.9	22	434.2	24	64.2	17	5.2	31	3.2	40	2.9	35
HEREFORD	DAYS ROBIN HOOD H38 (AUS)	23	201.5	41	266.2	42	444.2	7	64.8	6	5.8	5	3.7	10	3.3	12
HEREFORD	GRASSMERE GALLANT 152	29	207.9	13	274.8	27	435.8	20	64.1	20	5.7	16	3.7	13	3.2	18
HEREFORD	KOANUI LEGIT 6444	22	201.0	42	265.4	43	433.6	25	62.7	41	5.7	12	3.7	11	3.1	24
HEREFORD	LIMEHILLS STREAKER 150368	26	206.2	25	282.8	7	445.3	4	64.3	15	6.7	1	4.3	1	3.9	1
HEREFORD	OKAWA HOGAN 3156	17	209.6	4	278.2	18	441.3	15	63.4	35	5.6	19	3.4	27	2.5	44
HEREFORD	ORARI GORGE PATTON 150051	23	199.9	43	267.8	39	441.5	14	66.7	1	5.7	16	4.1	3	3.7	2
HEREFORD	ORARI GORGE QUANTUM 160091	17	203.9	35	284.2	3	440.8	17	64.0	25	5.6	18	3.8	8	2.9	36
HEREFORD	WESTHOLM TRUST R 58	21	207.9	14	273.0	31	440.7	18	65.3	4	5.1	37	3.5	22	2.5	43
SIMMENTAL	CCR COWBOY CUT 5048Z (USA)	13	204.5	31	281.7	8	424.1	41	62.7	42	5.2	36	3.3	31	3.2	22
SIMMENTAL	JANEFIELD ED AE1	13	209.6	5	279.2	14	432.7	28	63.5	32	5.4	23	3.2	36	2.7	42
SIMMENTAL	POTAWA ADMIRAL	11	206.8	22	276.1	24	442.0	12	64.5	10	5.7	11	4.0	6	3.3	11
SIMMENTAL	RISSINGTON AA0809	13	208.6	10	283.2	6	442.7	11	64.2	19	5.4	24	3.6	18	3.2	17
SIMMENTAL	RISSINGTON EXCEED AE203	11	203.4	36	275.9	25	445.0	6	65.1	5	5.7	10	3.6	20	3.2	16
SIMMENTAL	WAIKITE AD2031	10	205.4	28	286.0	2	443.7	8	64.4	14	5.8	7	3.7	12	3.1	28
SIMMENTAL	WAIKITE AY0097	17	209.8	3	292.0	1	441.8	13	64.3	16	5.3	28	3.3	33	2.7	41
SIMMENTAL	WS RED MOON D76 (USA)	18	202.0	39	270.1	35	424.4	40	62.9	39	5.8	8	3.8	9	3.5	4
		Minimum	**199.4**		**259.2**		**420.9**		**61.7**		**4.9**		**3.1**		**2.5**	
		Average	**206.1**		**275.9**		**435.3**		**64.0**		**5.4**		**3.5**		**3.1**	
		Maximum	**214.9**		**292.0**		**448.6**		**66.7**		**6.7**		**4.3**		**3.9**	

Cohort Five (2019-born progeny)

Table 7: Cohort 5 - summary of adjusted progeny averages across sires for weaning weight

Number of bulls = 37

			Wean Weight (kg)	
Breed	**Registered name**	**Progeny**	**Value**	**Rank**
ANGUS	CONNEALLY LEGENDARY (USA)	14	207.5	8
ANGUS	FOCUS 171293	9	206.7	13
ANGUS	KAKAHU LACHLAN 15095	21	207.5	7
ANGUS	MT LINTON 16/107	11	205.4	22
ANGUS	RISSINGTON 17014	13	205.1	24
ANGUS	STORTH OAKS JOURNEY M31	16	204.2	28
ANGUS	STORTH OAKS M10	16	207.0	10
ANGUS	STORTH OAKS M119	13	204.1	29
ANGUS	SYDGEN BLACK PEARL (USA)	17	205.7	21
ANGUS	TE MANIA 16018	12	203.6	31
ANGUS	WAITANGI M203	12	199.2	36
ANGUS	WAITANGI M214	14	205.4	23
CHAROLAIS	HEMINGFORD NEXT DIRECTION N64	9	206.6	14
CHAROLAIS	KAKAHU GERRY 140506	3	203.3	32
CHAROLAIS	SILVERSTREAM MANHATTEN M171	7	206.1	17
GELBVIEH	GLADSTONE RED BARON PB19 ET (AI)	5	206.0	18
HEREFORD	LIMEHILLS STARTER 160062	29	204.3	27
HEREFORD	MATARIKI 110637	22	204.9	25
HEREFORD	MATARIKI JETSON J215	31	203.8	30
HEREFORD	OKAWA STAMPER 160124	35	198.6	37
HEREFORD	WIRRUNA MATTY M288 (AUS)	26	202.0	34
LIMOUSIN	MANGATARA 335L	13	207.9	5
LIMOUSIN	MANGATARA JOOL	10	200.3	35
SHORTHORN	ORENA 15012	5	206.8	11
SIMMENTAL	GLEN ANTHONY AE12	19	206.7	12
SIMMENTAL	GLENSIDE F19	9	209.7	1
SIMMENTAL	HOOKS DELEGATE 64D (USA)	17	207.3	9
SIMMENTAL	KERRAH DESTINED D608	5	209.5	2
SIMMENTAL	KERRAH EPIC E303	14	209.3	3
SIMMENTAL	OWHATA AE7	9	204.7	26
SIMMENTAL	RISSINGTON AF184	10	205.9	19
SIMMENTAL	RISSINGTON AF44	9	202.5	33
SIMMENTAL	WAIKITE AE2009	7	208.0	4
SOUTH DEVON	BURTERGILL HENRY 1105	6	206.2	16
STABILIZER	STABILIZER 165287	8	205.8	20
STABILIZER	STABILIZER 165292	15	206.3	15
STABILIZER	STABILIZER 16S38	2	207.6	6
		Minimum	**198.6**	
		Average	**205.4**	
		Maximum	**209.7**	

Appendix

Trait definitions

Weaning Weight (kg)	Weight at weaning recorded on steer and heifer progeny. Higher values indicate more weight
Yearling Weight (kg)	Weight at 1 year recorded on steer and heifer progeny. Higher values indicate more weight
18-month Weight (kg)	Weight at 18 months recorded on steer and heifer progeny. Higher values indicate more weight
Eye Muscle Area (cm^2)	Abbreviated as EMA. Area of Eye Muscle as captured at the 12th/13th rib site from ultrasound scanning in both steer and heifer progeny at 18 months. Higher values indicate larger eye muscle area
Rib Fat (mm)	Rib Fat captured at the 12th/13th rib site from ultrasound scanning in both steer and heifer progeny at 18-months of age. Higher values indicate more fat over the ribs.
Rump Fat (mm)	Rump Fat captured at the P8 site from ultrasound scanning both steer and heifer progeny at 18-months of age. Sires are ranked in descending order with higher values indicating more fat over the rump
Intramuscular Fat (%)	Abbreviated as IMF. Intramuscular Fat captured at the 12th/13th rib site from ultrasound scanning both steer and heifer progeny at 18-months of age. Higher values indicate more intramuscular fat
Carcase Weight (kg)	Weight of the hot carcase at slaughter recorded on steer progeny and terminal-sired heifers. Higher values indicate a heavier carcase weight
Dressing %	Calculated by dividing the carcase weight by the shrunk live weight (weight on arrival at plant) of the animal and expressing the result as a percentage. This percentage represents the meat and skeletal portion of an animal compared to its live weight.
Marbling	Marble score recorded by Silver Fern Farms Beef EQ graders in the chiller on steer progeny and terminal-sired heifers. Higher values indicate more marbling in the carcase.
Ossification	Ossification score recorded by Silver Fern Farms Beef EQ graders in the chiller on steer progeny and terminal-sired heifers. Lower values are better as they indicate younger physiological maturity at slaughter.
Fat depth (mm)	Subcutaneous fat measurement at the 12th/13th rib site recorded by Silver Fern Farms Beef EQ graders in the chiller on steer progeny and terminal-sired heifers. Higher values indicate more fat over the ribs.

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