



PROGENY PERFORMANCE REPORT

COHORT 4



Acknowledgments:

Angus Australia thanks the following organisations for their support of the Angus Sire Benchmarking Program (ASBP):

Co-Funding Partner

Meat and Livestock Australia

Industry Partners

Rangers Valley Feedlot
John Dee Abattoir
University of New England (UNE)
Vetoquinol

Co-operator Cow Herds

Brad and Marg Gilmour, Boorcan, VIC.
Rob and Sally Bulle, Ardrossan, Holbrook, NSW.
Hugh Munro, Glenroy, Gravesend, NSW.
Roger and Geralyn Flower, Myola, Black Mountain, NSW.
John O'Brien & Trevor Nash, Stradbroke Pastoral, Yarralee, Coolah, NSW.
Rob Dugdale and Jeff Richie, Springmount, Black Mountain, NSW.
Richard and Ruth Puddicombe, Burindi, Barraba, NSW.
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Stephen and Amity Chase, Waitara, Trangie, NSW.
NSW DPI, Trangie Agricultural Research Centre, Trangie, NSW.
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David and Pia Butcher, Woorak, Bundarra, NSW.
James Stephens, Charles Sturt University, Wagga Wagga, NSW.
Douglas Lithgow, Swanpool, VIC, 3673
Bruce Allworth, Talooby, Holbrook, NSW, 2644

Bull Owners and Nominators

Angus Australia thanks the numerous bull owner and nominators that have entered the ASBP. For sire ownership details please refer to the Angus Australia website (www.angusaustralia.com.au).

Data Analysis Support

Animal Genetics and Breeding Unit (AGBU), University of New England, Armidale, NSW.
Agricultural Business Research Institute (ABRI-BREEDPLAN), Armidale, NSW.



Angus Sire Benchmarking Program

The Angus Sire Benchmarking Program (ASBP) is a major initiative of Angus Australia with support from Meat & Livestock Australia (MLA) and industry partners such as Vetoquinol, Rangers Valley Feedlot and John Dee Abattoir.

The major objectives of the ASBP include:

1. Generate progeny test data on modern Angus bulls, particularly for hard to measure traits such as feed efficiency, abattoir carcass measurement, meat quality attributes & female reproduction.
2. Generate data for the validation & refinement of the Trans-Tasman Angus Cattle Evaluation.
3. Build a comprehensive phenotype and genotype reference population on Australian Angus for genetic evaluation and genomic technology validation, research and development.

To meet the project objectives Angus Australia aims to join an average of 40 sires a year to approximately 2,000 Angus cows to achieve a minimum of 25 progeny (50:50 steers and heifers) per sire using a fixed time AI program. The Angus cows are located across several commercial co-operator herds located in New South Wales and Victoria.

The Angus sires that enter the ASBP are nominated by Angus Australia members. Before entering the program, the sires are assessed for a range of factors such as genetic diversity, genetic condition status, EBVs and selection index values. Once the progeny are born they are comprehensively performance recorded for calving ease, growth, temperament, heifer reproduction, structure, feed efficiency, abattoir carcass and beef quality attributes.

ASBP Progeny Performance Report

The ASBP Progeny Performance report includes two sections to assist with assessment of the genetic merit of the ASBP sires, being:

1. **Trans-Tasman Angus Cattle Evaluation (TACE) Sire Listing** – The first section includes the Angus EBVs and selection Indexes from the noted monthly analysis.
For selection purposes it is strongly advised that the EBVs and selection indexes be used primarily. They are the highest accuracy information to use in selection as they consider all available industry data including the data generated from the ASBP. They also account for information from all known relatives and genetic correlations between traits as well as being able to be compared across cohorts and the Angus population.
2. **ASBP Progeny Performance Listings** – The second section includes progeny average values or Progeny % values, and rankings for a range of traits recorded within the ASBP. These listings provide an indication on how the sires progeny are performing within the ASBP. A *colour coded summary table is available at the back of the report.*

Each section and sub-section includes introductory notes to assist with the interpretation of the information listed.

Contact – For further questions on the ASBP contact Christian Duff, Strategic Projects Manager, Angus Australia on phone: (02) 6773 4620, mobile: 0457 457 141 or email: christian@angusaustralia.com.au

Further information on the ASBP is listed on the Angus Australia website www.angusaustralia.com.au

UNDERSTANDING THE ASBP SIRE LISTING - TACE EBVs and SELECTION INDEXES

Ident	Name	Estimated Breeding Values																																																	
		Statistics										Fert										Feed										Structural										Selection Index									
		Dir	Dtrs	GL	BW	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFLF	Doc	FA	FC	RA	RH	RS	ABI	DOM	GRN	GRS																				
USA16198796	EF COMPLEMENT 8088	+3.3	+3.4	-5.5	+2.6	+52	+96	+124	+89	+21	+1.0	-5.0	+75	+8.4	+1.2	+1.6	-0.5	+1.9	+0.	+9	-15.2	-10.2	-13.6	-1.9	+0.5	\$135	\$123	\$137	\$134																						
USA14688137	HBR	95%	90%	99%	99%	99%	99%	98%	98%	95%	98%	63%	92%	92%	92%	90%	88%	90%	81%	99%	85%	89%	76%	51%	70%																										
USA16452880		9	5	22	13	10	51	10	51	8	85	34	6	5	15	10	83	38	1	35	11	22	7	15	85	8	5	19	3																						

Animal Details

Ident: Animal ident
 Name: Animal name
 Sire: Ident of animal's sire
 Dam: Ident of animal's dam
 Reg.: Registration status
 Num Herd: Number of herds in which the animal has progeny recorded with Angus Australia
 Prog: Number of progeny recorded with Angus Australia
 Prog 2Yr: Number of progeny recorded with Angus Australia that are born in the past 2 years

EBVs & Selection Indexes

Dir	Calving Ease Direct	P8	Rump Fat
Dtrs	Calving Ease Daughters	RBY	Retail Beef Yield
GL	Gestation Length	IMF	Intramuscular Fat
BW	Birth Weight	NFI-F	Net Feed Intake (Feedlot)
200	200 Day Growth	DOC	Docility
400	400 Day Weight	FA	Front Feet Angle
600	600 Day Weight	FC	Front Feet Claw Set
MCW	Mature Cow Weight	RA	Rear Feet Angle
Milk	Milk	RH	Rear Leg Hind View
SS	Scrotal Size	RS	Rear Leg Side View
DC	Days to Calving	ABI	Angus Breeding Index
CW	Carcass Weight	DOM	Domestic Index
EMA	Eye Muscle Area	GRN	Heavy Grain Index
RIB	Rib Fat	GRS	Heavy Grass Index

For each EBV, the EBV is published on the top row, followed by the accuracy of the EBV on the second row, followed by the percentile band in which the EBV ranks on the bottom row. For each selection index, the selection index is published on the top row, with the percentile band in which the selection index ranks on the bottom row. Accuracy values are not published for selection indexes.



Angus Australia - Sire Benchmarking Program - Cohort 4 Mid July 2020 TransTasman Angus Cattle Evaluation

Sire Dam	Name	Statistics			Estimated Breeding Values																											
		Reg.	Num Herd	Prog	Prog 2Yr.	Calv-Ease		Birth		Growth				Fert		Carcase				Feed		Tmp		Structural				Selection Index				
						Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	FA	FC	RA	RH	RS	ABI	DOM	GRN
DGJG10 VTMB1 DGJZ15	ALLOURA GET CRACKING G10 ^{SV} HBR	20	709	406	+9.6	+10.3	-3.7	+2.8	+44	+80	+88	+79	+13	-0.1	-8.6	+56	+13.7	+1.5	+0.2	-1.1	+5.0	+0.72	-18	+4	+29	-13	+3.9	+0.3	\$148	\$132	\$179	\$129
NBBG105 NBBD34 NBBD171	BALD BLAIR DAVID G105 ^{PV} APR	5	105	0	-2.8	-6.0	-3.6	+6.7	+45	+74	+98	+101	+4	+1.8	-5.2	+22	+9.2	-1.8	+0.3	+2.1	+3.3	-0.27	+12	-29	-3	-9	-0.4	-0.6	\$130	\$115	\$153	\$117
VONG272 VOND412 VONC368	BANQUET GARRETT G272 ^{SV} HBR	6	149	14	-0.2	+5.3	-1.7	+5.8	+49	+97	+141	+135	+19	+4.4	+0.3	+55	+2.3	-2.6	-2.0	+0.5	+2.3	-0.68	+14	+11	+18	+4	-7.0	+0.1	\$118	\$105	\$134	\$115
NUIF32 NGMC196 NUID96	BONNY BROOKE FALCO F32 ^{SV} HBR	5	65	0	-4.6	-3.9	-0.5	+5.4	+51	+82	+116	+94	+18	-0.1	-3.6	+61	-1.0	+4.1	+3.9	-3.1	+1.1	-0.35	-8	+7	+20	-8	+2.2	-0.3	\$74	\$71	\$55	\$84
HCAG013 VTMA217 VTMZ618	BOONAROO GRAVITY G013 ^{PV} HBR	19	399	148	+7.5	+1.1	-5.9	+3.8	+50	+89	+118	+111	+28	+3.7	-7.7	+60	+6.0	-2.3	-3.1	+1.8	+2.7	-0.61	+8	+13	+13	-11	+4.1	-1.0	\$140	\$124	\$164	\$127
NGMG501 NGME116 NGMB69	BOOROOMOOKA GALILEO G501 ^{PV} HBR	9	313	0	+11.1	+6.1	-9.0	+2.2	+52	+97	+138	+101	+22	+0.2	-5.3	+77	+2.8	-0.9	-0.5	+0.4	+1.7	-0.35	+13	-30	-29	-5	+5.4	-2.0	\$143	\$122	\$152	\$139
QBUG49 VTMB1 QBUE5	BURENDA GEIGER COUNTER G49 ^{PV} HBR	7	193	6	+11.7	+12.3	-7.9	+2.0	+39	+81	+101	+77	+16	+1.9	-10.1	+58	+2.2	+1.3	-1.0	-1.3	+3.7	+0.30	+17	-17	-22	-3	+4.0	-0.4	\$140	\$121	\$167	\$124
NIWH16 NIWD53 NIWD61	COFFIN CREEK HORATIO H16 ^{SV} APR	5	41	0	-4.6	-5.6	-6.8	+5.6	+50	+86	+117	+116	+14	+0.6	+0.6	+51	+5.0	-5.4	-3.9	+4.3	-1.5	-0.50	+3	-6	-49	-8	+0.5	-0.4	\$77	\$93	\$55	\$90
DPCG4 NZE04379 VLYA271	CUDGEGONG PARK GRANGE G4 ^{PV} HBR	7	312	0	+3.4	-1.6	-3.1	+4.1	+46	+85	+108	+115	+7	+1.0	-5.8	+58	+4.8	-0.1	+3.2	-2.4	+2.7	+0.05	-3	+14	+19	+13	+1.7	+0.3	\$112	\$101	\$118	\$108
ASRG13 VTMB1 DNWC8	DWYERS RANGE GATSBY G13 ^{SV} HBR	6	73	1	+0.4	+3.9	-8.5	+7.1	+55	+95	+131	+131	+14	+2.0	-5.2	+77	+4.9	-2.1	-4.0	+1.4	+2.5	+0.02	-8	-3	+3	+17	+0.9	-1.6	\$134	\$117	\$157	\$123
VICG25 NENZ181 VICC52	IRELANDS GAPSTED G25 ^{PV} HBR	16	170	2	-3.1	+6.0	-4.9	+5.1	+45	+88	+120	+127	+12	+4.5	-5.5	+65	+8.7	+1.5	+2.5	+0.2	+0.6	+0.54	-11	+0	+15	-5	-2.0	-1.5	\$114	\$103	\$110	\$116
NMMH105 BHRE614 NMMY79	MILLAH MURRAH EVIDENT H105 ^{SV} HBR	6	44	0	-15.7	-7.5	-0.5	+6.7	+50	+86	+107	+95	+11	+2.4	-5.0	+69	+9.8	-1.5	+0.4	+2.0	+1.7	+0.17	+15	-18	-10	-26	+3.6	-2.0	\$99	\$97	\$102	\$97
NURH32 USA16541214 VTMD113	MURRAY UPSHOT H32 ^{PV} HBR	8	33	0	+3.3	+5.1	-4.2	+3.4	+47	+84	+104	+63	+14	+3.0	-2.3	+64	+5.0	+0.6	-1.0	+1.1	+2.0	+0.85	-1	+5	-53	-5	+1.7	+0.3	\$115	\$117	\$116	\$115
SMPG357 VTMB1 SMPD245	PATHFINDER GENESIS G357 ^{PV} HBR	109	2341	831	+3.7	+5.5	-7.7	+6.8	+63	+110	+149	+163	+25	+4.1	-5.1	+95	+10.4	+1.7	-0.1	+1.3	+1.7	+0.76	+18	-12	-2	-6	+4.4	-4.7	\$149	\$129	\$162	\$142
Breed Average EBVs					+2.2	+2.6	-4.6	+4.2	+4.9	+8.8	+11.5	+10.0	+1.7	+2.0	-4.9	+6.5	+6.0	-0.1	-0.4	+0.5	+2.1	+0.18	+6	+0	+2	+0	+0.2	-0.3	+122	+113	+130	+118



Angus Australia - Sire Benchmarking Program - Cohort 4

Mid July 2020 TransTasman Angus Cattle Evaluation

Sire Dam	Name	Statistics			Estimated Breeding Values																											
		Reg.	Num Herd	Prog	Prog 2Yr.	Calv-Ease		Birth		Growth				Fert		Carcase				Feed		Tmp		Structural				Selection Index				
						Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	FA	FC	RA	RH	RS	ABI	DOM	GRN
NORG255 BNAD145 NORC490	RENNYLEA G255 ^{PV} APR	22	541	29	-11.0	-6.8	-3.2	+4.6	+50	+97	+134	+125	+23	+0.9	-3.3	+92	+6.4	-0.1	-3.3	-0.7	+5.3	+0.15	-1	-6	-41	+0	+3.8	-0.3	\$126	\$100	\$168	\$108
					92%	83%	98%	98%	98%	98%	97%	97%	97%	97%	82%	95%	94%	95%	95%	92%	94%	89%	97%	82%	87%	73%	52%	66%				
					99	99	74	59	40	21	11	10	8	92	81	1	40	47	99	92	1	45	75	78	99	55	1	70	45	85	9	77
VSNH40 VTMD19 VSNF12	STRATHEWEN RED DAIQUIRI H40 ^{PV} HBR	7	53	0	+10.1	+3.7	-7.2	+2.1	+42	+93	+119	+102	+28	+3.0	-5.2	+50	+6.0	-0.3	-0.5	+0.4	+2.5	+0.15	+16	-10	-23	-5	+0.3	-1.2	\$134	\$121	\$150	\$126
					72%	63%	94%	92%	88%	89%	90%	84%	79%	72%	61%	86%	83%	87%	84%	81%	83%	78%	81%	76%	77%	70%	60%	60%				
					5	42	13	8	85	33	40	46	1	10	46	95	48	55	51	54	31	45	19	89	98	84	59	93	28	25	26	30
NPGG121 NMMD1 NPGC14	TALOOBY GALAXY G121 ^{SV} HBR	6	111	4	+1.7	+1.2	-4.0	+4.6	+36	+65	+89	+88	+13	+1.5	-6.0	+62	+0.6	+2.7	+0.9	-1.9	+0.9	+0.74	-6	+4	+17	-15	-1.2	-0.8	\$73	\$75	\$61	\$77
					70%	55%	93%	94%	87%	88%	90%	82%	64%	86%	58%	87%	84%	88%	84%	81%	84%	80%	80%	71%	71%	67%	50%	51%				
					58	66	61	59	97	98	95	74	87	72	30	65	99	2	14	99	90	98	88	42	8	93	84	85	98	99	98	99
NZE10752011 NZE10752007G9 NZE10752103C38	TE WHANGA M14 [#] HBR	4	34	0	+0.2	-1.2	-4.6	+5.0	+49	+75	+107	+92	+15	+1.5	-4.2	+65	+1.9	+1.3	+4.7	-0.7	-1.1	+0.04	+30	+13	+27	+6	-7.2	-1.2	\$75	\$80	\$39	\$92
					69%	51%	93%	92%	89%	89%	90%	83%	74%	80%	59%	88%	86%	89%	86%	82%	86%	82%	80%	71%	72%	65%	51%	52%				
					68	83	50	69	45	90	71	66	70	72	66	56	98	11	1	92	99	30	2	5	1	18	99	93	98	99	99	94
NXTF53 NURZ366 NXTD55	TWYNAM F53 ^{SV} APR	6	98	0	+6.1	+6.3	-7.4	+3.1	+44	+76	+117	+110	+18	+2.0	-6.6	+61	+6.6	+1.4	+0.2	+0.5	+2.3	+0.77	+9	-7	-16	-1	+2.3	+0.0	\$137	\$111	\$151	\$128
					71%	59%	93%	95%	92%	93%	92%	85%	82%	89%	61%	87%	85%	88%	85%	82%	85%	78%	76%	64%	66%	58%	42%	46%				
					24	18	12	22	76	88	46	28	40	47	20	71	36	10	29	49	38	98	41	79	92	66	10	50	22	59	25	24
NZE13615011 USA14675477 NZE13615101161	WAIRERE YNOT Y0491 ^{SV} HBR	4	31	0	-0.2	+0.0	-7.0	+5.6	+38	+63	+77	+66	+8	+0.1	-3.3	+32	+8.8	-3.4	-3.8	+3.7	+1.5	-0.28	-25	+1	+20	+13	-9.0	-1.5	\$100	\$108	\$104	\$97
					72%	60%	94%	92%	89%	89%	91%	84%	79%	71%	60%	88%	86%	89%	87%	83%	86%	82%	81%	72%	72%	64%	51%	52%				
					71	76	15	82	95	99	99	96	99	99	81	99	10	99	99	1	72	5	99	57	2	2	99	95	87	68	83	91
NWPG188 USA15462648 NWPE295	WATTLETOP FRANKLIN G188 ^{SV} HBR	65	1166	449	+5.8	+12.2	-4.5	+2.3	+64	+113	+144	+107	+20	+3.0	-6.4	+80	+3.5	+0.0	-0.2	-0.8	+1.6	-0.90	+22	+14	-7	+5	+1.2	-1.6	\$142	\$130	\$145	\$140
					88%	71%	99%	98%	97%	98%	97%	93%	92%	97%	61%	91%	91%	92%	90%	86%	89%	84%	95%	86%	87%	80%	55%	71%				
					26	1	52	10	2	2	4	35	26	10	23	7	90	44	41	94	67	1	8	3	81	18	20	95	15	7	32	6
Breed Average EBVs					+2.2	+2.6	-4.6	+4.2	+49	+88	+115	+100	+17	+2.0	-4.9	+65	+6.0	-0.1	-0.4	+0.5	+2.1	+0.18	+6	+0	+2	+0	+0.2	-0.3	+122	+113	+130	+118



UNDERSTANDING THE ASBP SIRE LISTING - PROGENY PERFORMANCE I PERFORMANCE TRAITS

This listing provides an indication on how the sires are performing within the ASBP for numerous performance traits. *The values listed can only be validly used to compare sires within each cohort of the ASBP.*

For selection purposes it is strongly advised that the EBVs and selection indexes listed in section 1 of the report be used primarily. They are the highest accuracy information to use in selection as they consider all available industry data including the data generated from the ASBP. They also account for information from all known relatives and genetic correlations between traits as well as being able to be compared across cohorts and the Angus population.

Interpreting the ASBP Progeny Performance Listing

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ABBOTT PERFORMER E32	ESTE32	17	467.8	1
ABERDEEN ESTATE EXCITE E21	AHWE21	7	444.1	19
ANVIL ENFORCER E183	HBUE183	14	452.8	7
ARDROSSAN EXACT E162	NAQE162	12	449.5	11
ARDROSSAN FAIRFAX F21	NAQF21	9	437.8	28
AYRVALE BARTEL E7	HIOE7	17	455.0	5
BAL...	...	3	...	13

Number of progeny = Number of progeny the sire has recorded for the specified trait. This excludes any progeny in single animal contemporary groups.

Progeny Average = The average performance of this sires progeny for the specified trait in the ASBP. The average is calculated using adjusted data (i.e. the standard TACE adjustments for the age of the progeny and age of the dams). It is calculated using a least squares means (LSM) model which takes into herd and contemporary group.

Rank = The ranking position of the sire within the specified cohort. The ranking order will depend on the trait. E.g. 200 Day weight ranked in descending order, while birth weight is ranked in ascending order.

The lists are sorted on sire name for the specified cohort.

The date the progeny performance values were produced is listed in the bottom left hand margin of the report. The reports will be regularly updated as further ASBP data is recorded and analysed.

Progeny Performance Traits and Interpretation

Separate sections for the following traits are included in the ASBP Progeny Performance listing:

Birth Weight: Weight of birth in kilograms recorded on both steer and heifer progeny. Sires are ranked in ascending order with lower values indicating lighter birth weight.

Gestation Length: Length of gestation in days recorded on both steer and heifer progeny. Sires are ranked in ascending order with lower values indicating shorter gestation length.



200 Day Weight: Weight at 200 days (i.e. weaning weight) in kilograms recorded on both steer and heifer progeny. Sires are ranked in descending order with higher values indicating more weight.

400 Day Weight: Weight at 400 days (i.e. yearling weight) in kilograms recorded on both steer and heifer progeny. Sires are ranked in descending order with higher values indicating more weight.

600 Day Weight: Weight at 600 days (i.e. 18 month weight) in kilograms recorded on both steer and heifer progeny. Sires are ranked in descending order with higher values indicating more weight.

Days to Calving: Length of days from bull introduction (i.e. bull in date) to calving. This is recorded on the heifer progeny for their first joining as yearlings. Sires are ranked in ascending order with lower values indicating shorter days to calving and improved female reproduction.

Scan Eye Muscle Area (EMA): Eye muscle area in cm² from ultrasound scanning both steer and heifer progeny at a standard 500 days of age. Sires are ranked in descending order with higher values indicating larger eye muscle area.

Scan Rib Fat: Rib fat in mm from ultrasound scanning both steer and heifer progeny at a standard 500 days of age. Sires are ranked in descending order with higher values indicating more fat over the ribs.

Scan Rump Fat: Rump (i.e. P8) fat in mm from ultrasound scanning both steer and heifer progeny at a standard 500 days of age. Sires are ranked in descending order with higher values indicating more fat over the rump.

Scan Intramuscular Fat (IMF): Percentage of Intramuscular fat from ultrasound scanning both steer and heifer progeny at a standard 500 days of age. Sires are ranked in descending order with higher values indicating more intramuscular fat.

Carcase Weight: Weight of the hot standard carcass in kilograms at a standard 750 days of age recorded on steer progeny. Sires are ranked in descending order with higher values indicating more carcass weight.

Carcass Eye Muscle Area (EMA): Eye muscle area in cm² in a standard 400 kg carcass measured on steer progeny. Sires are ranked in descending order with higher values indicating larger eye muscle area.

Carcass Rump Fat: Subcutaneous fat measurement in mm at the P8 rump site in a standard 400 kg carcass measured on steer progeny. Sires are ranked in descending order with higher values indicating more rump fat.

Carcass Rib Fat: Subcutaneous fat measurement in mm at the 12th and 13th Rib site in a standard 400 kg carcass measured on steer progeny. Sires are ranked in descending order with higher values indicating more rib fat.

Carcass Intramuscular Fat (IMF): Percentage of Intramuscular fat (by near infrared spectrophotometry – NIR at the UNE meat science laboratory) in a standard 400 kg carcass measured on steer progeny. Sires are ranked in descending order with higher values indicating more intramuscular fat.

Net Feed Intake (NFI): Feed intake at a standard weight and rate of weight gain recorded on steer progeny at Tullimba Research Feedlot. NFI is expressed as kilograms of feed intake per day. Sires are ranked in ascending order with lower values indicating better feed efficiency through less feed intake for a standard weight and rate of gain.

Meat Standards Australia (MSA) Marbling Score: Marbling score recorded by the Meat Standards Australia (MSA) grader in the chiller on steer progeny. Sires are ranked in descending order with higher values indicating more marbling in the carcass.

Meat Standards Australia (MSA) Ossification: Ossification score recorded by the Meat Standards Australia (MSA) grader in the chiller on steer progeny. Sires are ranked in ascending order with lower values indicating younger physiological maturity.

Meat Standards Australia (MSA) Index: The MSA Index is an indication of the overall eating quality of beef from the carcass as influenced by a range of factors such as marbling score and ossification. It is generated for steer progeny from the ASBP based on MSA grading data in the chiller. Sires are ranked in ascending order with higher values indicating higher eating quality.

Shear Force: Shear Force is a measurement in the kilograms of the force required to pull a mechanical blade through a piece of cooked beef from the striploin sample of the ASBP steer progeny. It is measured through the UNE meat science laboratory. Sires are ranked in ascending order with lower values indicating less shear force and more tender beef.



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Birth Weight (kg)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	36	31.2	3
BALD BLAIR DAVID G105	NBBG105	35	32.8	12
BANQUET GARRETT G272	VONG272	33	32.6	11
BONNY BROOKE FALCO F32	NUIF32	21	33.1	14
BOONAROO GRAVITY G13 G013	HCAG013	26	31.6	4
BOOROOMOOKA GALILEO G501	NGMG501	26	31.0	2
BURENDA GEIGER COUNTER G49	QBUG49	29	31.9	5
COFFIN CREEK HORATIO H16	NIWH16	20	33.3	16
CUDGEGONG PARK GRANGE G4	DPCG4	24	32.2	8
DWYERS RANGE GATSBY G13	ASRG13	26	33.6	19
IRELANDS GAPSTED G25	VICG25	28	33.9	20
MILLAH MURRAH EVIDENT H105	NMMH105	20	35.4	21
MURRAY UPSHOT H32	NURH32	10	33.1	14
PATHFINDER GENESIS G357	SMPG357	26	33.4	17
RENNYLEA G255	NORG255	37	32.1	6
STRATHEWEN RED DAIQUIRI H40	VSNH40	22	29.5	1
TALOOBY GALAXY G121	NPGG121	27	32.2	8
TE WHANGA M14	NZE10752011M14	34	32.8	12
TWYNAM F53	NXTF53	20	33.4	17
WAIRERE YNOT Y0491	NZE13615011491	31	32.3	10
WATTLETOP FRANKLIN G188	NWPG188	23	32.1	6



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Gestation Length (days)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	30	280.1	19
BALD BLAIR DAVID G105	NBBG105	38	278.7	13
BANQUET GARRETT G272	VONG272	31	280.4	20
BONNY BROOKE FALCO F32	NUIF32	21	280.6	21
BOONAROO GRAVITY G13 G013	HCAG013	27	276.6	4
BOOROOMOOKA GALILEO G501	NGMG501	25	275.4	1
BURENDA GEIGER COUNTER G49	QBUG49	25	278.1	10
COFFIN CREEK HORATIO H16	NIWH16	20	276.8	6
CUDGEGONG PARK GRANGE G4	DPCG4	22	279.6	18
DWYERS RANGE GATSBY G13	ASRG13	25	276.4	3
IRELANDS GAPSTED G25	VICG25	26	278.4	11
MILLAH MURRAH EVIDENT H105	NMMH105	18	279.4	16
MURRAY UPSHOT H32	NURH32	9	279.4	16
PATHFINDER GENESIS G357	SMPG357	26	275.5	2
RENNYLEA G255	NORG255	37	278.5	12
STRATHEWEN RED DAIQUIRI H40	VSNH40	22	276.8	6
TALOOBY GALAXY G121	NPGG121	25	279.1	15
TE WHANGA M14	NZE10752011M14	32	278.8	14
TWYNAM F53	NXTF53	20	277.2	8
WAIRERE YNOT Y0491	NZE13615011491	31	277.3	9
WATTLETOP FRANKLIN G188	NWPG188	22	276.7	5



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - 200 Day Weight (kg)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	35	199.1	18
BALD BLAIR DAVID G105	NBBG105	36	205.0	13
BANQUET GARRETT G272	VONG272	33	207.6	9
BONNY BROOKE FALCO F32	NUIF32	21	207.2	11
BOONAROO GRAVITY G13 G013	HCAG013	25	209.6	5
BOOROOMOOKA GALILEO G501	NGMG501	24	206.7	12
BURENDA GEIGER COUNTER G49	QBUG49	27	198.4	19
COFFIN CREEK HORATIO H16	NIWH16	19	214.3	2
CUDGEGONG PARK GRANGE G4	DPCG4	24	203.2	14
DWYERS RANGE GATSBY G13	ASRG13	24	207.7	8
IRELANDS GAPSTED G25	VICG25	26	207.9	7
MILLAH MURRAH EVIDENT H105	NMMH105	17	215.0	1
MURRAY UPSHOT H32	NURH32	10	199.4	16
PATHFINDER GENESIS G357	SMPG357	24	211.6	4
RENNYLEA G255	NORG255	37	201.8	15
STRATHEWEN RED DAIQUIRI H40	VSNH40	22	199.3	17
TALOOBY GALAXY G121	NPGG121	25	197.6	21
TE WHANGA M14	NZE10752011M14	34	208.7	6
TWYNAM F53	NXTF53	18	207.4	10
WAIRERE YNOT Y0491	NZE13615011491	31	198.1	20
WATTLETOP FRANKLIN G188	NWPG188	22	213.2	3



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - 400 Day Weight (kg)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	26	327.6	12
BALD BLAIR DAVID G105	NBBG105	17	331.0	6
BANQUET GARRETT G272	VONG272	22	330.1	8
BONNY BROOKE FALCO F32	NUIF32	13	312.7	20
BOONAROO GRAVITY G13 G013	HCAG013	18	330.0	9
BOOROOMOOKA GALILEO G501	NGMG501	17	331.3	5
BURENDA GEIGER COUNTER G49	QBUG49	21	322.5	16
COFFIN CREEK HORATIO H16	NIWH16	16	327.1	13
CUDGEGONG PARK GRANGE G4	DPCG4	18	311.0	21
DWYERS RANGE GATSBY G13	ASRG13	16	330.8	7
IRELANDS GAPSTED G25	VICG25	15	337.2	3
MILLAH MURRAH EVIDENT H105	NMMH105	11	334.8	4
MURRAY UPSHOT H32	NURH32	6	322.6	15
PATHFINDER GENESIS G357	SMPG357	15	338.6	2
RENNYLEA G255	NORG255	25	329.1	10
STRATHEWEN RED DAIQUIRI H40	VSNH40	19	328.8	11
TALOOBY GALAXY G121	NPGG121	19	314.9	19
TE WHANGA M14	NZE10752011M14	20	317.9	18
TWYNAM F53	NXTF53	14	325.2	14
WAIRERE YNOT Y0491	NZE13615011491	23	320.9	17
WATTLETOP FRANKLIN G188	NWPG188	17	348.2	1



Angus Sire Benchmarking Program - Progeny Performance Report
Cohort: 4 - 600 Day Weight (kg)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	32	497.1	19
BALD BLAIR DAVID G105	NBBG105	35	509.5	14
BANQUET GARRETT G272	VONG272	30	532.8	2
BONNY BROOKE FALCO F32	NUIF32	17	508.9	15
BOONAROO GRAVITY G13 G013	HCAG013	24	522.0	6
BOOROOMOOKA GALILEO G501	NGMG501	24	521.7	7
BURENDA GEIGER COUNTER G49	QBUG49	24	510.1	13
COFFIN CREEK HORATIO H16	NIWH16	17	516.9	9
CUDGEGONG PARK GRANGE G4	DPCG4	21	508.9	15
DWYERS RANGE GATSBY G13	ASRG13	21	515.8	10
IRELANDS GAPSTED G25	VICG25	22	532.8	2
MILLAH MURRAH EVIDENT H105	NMMH105	15	529.2	5
MURRAY UPSHOT H32	NURH32	10	495.5	20
PATHFINDER GENESIS G357	SMPG357	22	530.3	4
RENNYLEA G255	NORG255	34	519.4	8
STRATHEWEN RED DAIQUIRI H40	VSNH40	20	501.5	17
TALOOBY GALAXY G121	NPGG121	24	498.8	18
TE WHANGA M14	NZE10752011M14	29	510.7	12
TWYNAM F53	NXTF53	18	514.9	11
WAIRERE YNOT Y0491	NZE13615011491	27	492.7	21
WATTLETOP FRANKLIN G188	NWPG188	19	538.8	1



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Days to Calving (heifers) (days)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	7	296.2	1
BALD BLAIR DAVID G105	NBBG105	12	307.6	14
BANQUET GARRETT G272	VONG272	9	305.1	11
BONNY BROOKE FALCO F32	NUIF32	7	307.7	15
BOONAROO GRAVITY G13 G013	HCAG013	11	300.0	5
BOOROOMOOKA GALILEO G501	NGMG501	11	298.5	4
BURENDA GEIGER COUNTER G49	QBUG49	8	302.8	8
COFFIN CREEK HORATIO H16	NIWH16	7	309.4	16
CUDGEGONG PARK GRANGE G4	DPCG4	5	304.0	9
DWYERS RANGE GATSBY G13	ASRG13	9	298.3	3
IRELANDS GAPSTED G25	VICG25	8	310.1	17
MILLAH MURRAH EVIDENT H105	NMMH105	8	310.1	17
MURRAY UPSHOT H32	NURH32	1	332.3	21
PATHFINDER GENESIS G357	SMPG357	9	305.1	11
RENNYLEA G255	NORG255	10	310.7	19
STRATHEWEN RED DAIQUIRI H40	VSNH40	7	301.3	6
TALOOBY GALAXY G121	NPGG121	11	301.9	7
TE WHANGA M14	NZE10752011M14	8	297.7	2
TWYNAM F53	NXTF53	7	304.1	10
WAIRERE YNOT Y0491	NZE13615011491	7	305.3	13
WATTLETOP FRANKLIN G188	NWPG188	3	313.3	20



Angus Sire Benchmarking Program - Progeny Performance Report
Cohort: 4 - Scan EMA (sq cm)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	32	65.9	3
BALD BLAIR DAVID G105	NBBG105	31	63.2	14
BANQUET GARRETT G272	VONG272	30	62.1	18
BONNY BROOKE FALCO F32	NUIF32	15	61.5	20
BOONAROO GRAVITY G13 G013	HCAG013	24	64.4	5
BOOROOMOOKA GALILEO G501	NGMG501	24	63.9	7
BURENDA GEIGER COUNTER G49	QBUG49	24	62.7	17
COFFIN CREEK HORATIO H16	NIWH16	16	63.8	9
CUDGEGONG PARK GRANGE G4	DPCG4	20	63.8	9
DWYERS RANGE GATSBY G13	ASRG13	21	63.8	9
IRELANDS GAPSTED G25	VICG25	22	65.9	3
MILLAH MURRAH EVIDENT H105	NMMH105	15	66.8	1
MURRAY UPSHOT H32	NURH32	7	63.6	12
PATHFINDER GENESIS G357	SMPG357	21	64.0	6
RENNYLEA G255	NORG255	33	63.9	7
STRATHEWEN RED DAIQUIRI H40	VSNH40	19	63.0	15
TALOOBY GALAXY G121	NPGG121	23	60.7	21
TE WHANGA M14	NZE10752011M14	27	61.9	19
TWYNAM F53	NXTF53	18	63.6	12
WAIRERE YNOT Y0491	NZE13615011491	26	62.8	16
WATTLETOP FRANKLIN G188	NWPG188	18	66.3	2



Angus Sire Benchmarking Program - Progeny Performance Report
Cohort: 4 - Scan Rib Fat (mm)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	32	7.1	3
BALD BLAIR DAVID G105	NBBG105	31	6.5	12
BANQUET GARRETT G272	VONG272	30	5.6	20
BONNY BROOKE FALCO F32	NUIF32	15	8.7	1
BOONAROO GRAVITY G13 G013	HCAG013	24	6.5	12
BOOROOMOOKA GALILEO G501	NGMG501	24	6.5	12
BURENDA GEIGER COUNTER G49	QBUG49	24	6.4	15
COFFIN CREEK HORATIO H16	NIWH16	16	5.2	21
CUDGEGONG PARK GRANGE G4	DPCG4	20	6.8	5
DWYERS RANGE GATSBY G13	ASRG13	21	6.3	18
IRELANDS GAPSTED G25	VICG25	22	6.4	15
MILLAH MURRAH EVIDENT H105	NMMH105	15	6.8	5
MURRAY UPSHOT H32	NURH32	7	6.7	9
PATHFINDER GENESIS G357	SMPG357	21	7.2	2
RENNYLEA G255	NORG255	33	6.7	9
STRATHEWEN RED DAIQUIRI H40	VSNH40	19	6.4	15
TALOOBY GALAXY G121	NPGG121	23	6.9	4
TE WHANGA M14	NZE10752011M14	27	6.7	9
TWYNAM F53	NXTF53	18	6.8	5
WAIRERE YNOT Y0491	NZE13615011491	26	5.7	19
WATTLETOP FRANKLIN G188	NWPG188	18	6.8	5



Angus Sire Benchmarking Program - Progeny Performance Report
Cohort: 4 - Scan Rump Fat (mm)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	32	8.8	13
BALD BLAIR DAVID G105	NBBG105	30	9.7	7
BANQUET GARRETT G272	VONG272	30	7.9	19
BONNY BROOKE FALCO F32	NUIF32	15	11.2	1
BOONAROO GRAVITY G13 G013	HCAG013	24	8.9	12
BOOROOMOOKA GALILEO G501	NGMG501	24	9.5	9
BURENDA GEIGER COUNTER G49	QBUG49	24	8.6	15
COFFIN CREEK HORATIO H16	NIWH16	16	8.0	18
CUDGEGONG PARK GRANGE G4	DPCG4	20	10.5	2
DWYERS RANGE GATSBY G13	ASRG13	21	8.2	16
IRELANDS GAPSTED G25	VICG25	22	9.9	5
MILLAH MURRAH EVIDENT H105	NMMH105	15	9.4	10
MURRAY UPSHOT H32	NURH32	7	6.5	21
PATHFINDER GENESIS G357	SMPG357	21	9.4	10
RENNYLEA G255	NORG255	33	8.1	17
STRATHEWEN RED DAIQUIRI H40	VSNH40	19	8.7	14
TALOOBY GALAXY G121	NPGG121	23	9.7	7
TE WHANGA M14	NZE10752011M14	26	10.2	4
TWYNAM F53	NXTF53	18	9.8	6
WAIRERE YNOT Y0491	NZE13615011491	26	7.8	20
WATTLETOP FRANKLIN G188	NWPG188	18	10.3	3



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Scan IMF (%)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	32	6.1	2
BALD BLAIR DAVID G105	NBBG105	31	5.8	3
BANQUET GARRETT G272	VONG272	30	5.2	20
BONNY BROOKE FALCO F32	NUIF32	15	6.2	1
BOONAROO GRAVITY G13 G013	HCAG013	24	5.5	12
BOOROOMOOKA GALILEO G501	NGMG501	24	5.6	10
BURENDA GEIGER COUNTER G49	QBUG49	24	5.7	6
COFFIN CREEK HORATIO H16	NIWH16	16	4.9	21
CUDGEGONG PARK GRANGE G4	DPCG4	20	5.5	12
DWYERS RANGE GATSBY G13	ASRG13	21	5.6	10
IRELANDS GAPSTED G25	VICG25	22	5.8	3
MILLAH MURRAH EVIDENT H105	NMMH105	15	5.5	12
MURRAY UPSHOT H32	NURH32	7	5.3	17
PATHFINDER GENESIS G357	SMPG357	21	5.5	12
RENNYLEA G255	NORG255	33	5.8	3
STRATHEWEN RED DAIQUIRI H40	VSNH40	19	5.7	6
TALOOBY GALAXY G121	NPGG121	23	5.3	17
TE WHANGA M14	NZE10752011M14	27	5.3	17
TWYNAM F53	NXTF53	18	5.7	6
WAIRERE YNOT Y0491	NZE13615011491	26	5.4	16
WATTLETOP FRANKLIN G188	NWPG188	18	5.7	6



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Carcase Weight (kg)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	21	394.7	17
BALD BLAIR DAVID G105	NBBG105	15	373.4	21
BANQUET GARRETT G272	VONG272	16	395.3	16
BONNY BROOKE FALCO F32	NUIF32	6	395.9	15
BOONAROO GRAVITY G13 G013	HCAG013	10	408.0	12
BOOROOMOOKA GALILEO G501	NGMG501	12	422.6	4
BURENDA GEIGER COUNTER G49	QBUG49	15	400.4	13
COFFIN CREEK HORATIO H16	NIWH16	9	391.1	18
CUDGEGONG PARK GRANGE G4	DPCG4	11	399.7	14
DWYERS RANGE GATSBY G13	ASRG13	12	410.3	9
IRELANDS GAPSTED G25	VICG25	12	415.5	8
MILLAH MURRAH EVIDENT H105	NMMH105	6	429.3	2
MURRAY UPSHOT H32	NURH32	6	409.8	10
PATHFINDER GENESIS G357	SMPG357	9	432.9	1
RENNYLEA G255	NORG255	22	423.4	3
STRATHEWEN RED DAIQUIRI H40	VSNH40	10	390.3	19
TALOOBY GALAXY G121	NPGG121	12	408.8	11
TE WHANGA M14	NZE10752011M14	17	415.6	7
TWYNAM F53	NXTF53	11	418.3	6
WAIRERE YNOT Y0491	NZE13615011491	19	383.4	20
WATTLETOP FRANKLIN G188	NWPG188	14	419.9	5



Angus Sire Benchmarking Program - Progeny Performance Report
Cohort: 4 - Carcase EMA (sq cm)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	21	85.8	4
BALD BLAIR DAVID G105	NBBG105	15	85.0	7
BANQUET GARRETT G272	VONG272	16	81.7	13
BONNY BROOKE FALCO F32	NUIF32	6	77.4	21
BOONAROO GRAVITY G13 G013	HCAG013	10	85.4	5
BOOROOMOOKA GALILEO G501	NGMG501	12	80.1	18
BURENDA GEIGER COUNTER G49	QBUG49	15	81.0	17
COFFIN CREEK HORATIO H16	NIWH16	9	78.4	20
CUDGEGONG PARK GRANGE G4	DPCG4	11	81.7	13
DWYERS RANGE GATSBY G13	ASRG13	12	83.9	8
IRELANDS GAPSTED G25	VICG25	12	83.3	11
MILLAH MURRAH EVIDENT H105	NMMH105	6	87.8	1
MURRAY UPSHOT H32	NURH32	5	81.6	15
PATHFINDER GENESIS G357	SMPG357	9	86.9	3
RENNYLEA G255	NORG255	22	83.9	8
STRATHEWEN RED DAIQUIRI H40	VSNH40	10	83.8	10
TALOOBY GALAXY G121	NPGG121	12	79.6	19
TE WHANGA M14	NZE10752011M14	17	81.5	16
TWYNAM F53	NXTF53	11	87.2	2
WAIRERE YNOT Y0491	NZE13615011491	19	85.3	6
WATTLETOP FRANKLIN G188	NWPG188	14	82.6	12



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Carcase Rump Fat (mm)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	21	18.4	7
BALD BLAIR DAVID G105	NBBG105	15	17.7	9
BANQUET GARRETT G272	VONG272	16	15.6	19
BONNY BROOKE FALCO F32	NUIF32	6	18.5	6
BOONAROO GRAVITY G13 G013	HCAG013	10	16.9	12
BOOROOMOOKA GALILEO G501	NGMG501	12	16.0	17
BURENDA GEIGER COUNTER G49	QBUG49	15	15.5	20
COFFIN CREEK HORATIO H16	NIWH16	9	16.4	15
CUDGEGONG PARK GRANGE G4	DPCG4	11	22.7	2
DWYERS RANGE GATSBY G13	ASRG13	12	16.7	13
IRELANDS GAPSTED G25	VICG25	12	18.1	8
MILLAH MURRAH EVIDENT H105	NMMH105	6	22.9	1
MURRAY UPSHOT H32	NURH32	6	16.1	16
PATHFINDER GENESIS G357	SMPG357	9	16.0	17
RENNYLEA G255	NORG255	22	15.4	21
STRATHEWEN RED DAIQUIRI H40	VSNH40	10	16.6	14
TALOOBY GALAXY G121	NPGG121	12	17.6	10
TE WHANGA M14	NZE10752011M14	17	22.4	3
TWYNAM F53	NXTF53	11	20.0	4
WAIRERE YNOT Y0491	NZE13615011491	19	17.1	11
WATTLETOP FRANKLIN G188	NWPG188	13	19.0	5



Angus Sire Benchmarking Program - Progeny Performance Report
Cohort: 4 - Carcase Rib Fat (mm)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	21	18.2	6
BALD BLAIR DAVID G105	NBBG105	15	14.3	20
BANQUET GARRETT G272	VONG272	16	15.6	16
BONNY BROOKE FALCO F32	NUIF32	6	19.8	2
BOONAROO GRAVITY G13 G013	HCAG013	10	15.7	15
BOOROOMOOKA GALILEO G501	NGMG501	12	14.8	19
BURENDA GEIGER COUNTER G49	QBUG49	15	18.0	7
COFFIN CREEK HORATIO H16	NIWH16	9	12.1	21
CUDGEGONG PARK GRANGE G4	DPCG4	11	18.8	4
DWYERS RANGE GATSBY G13	ASRG13	11	16.2	14
IRELANDS GAPSTED G25	VICG25	12	17.0	13
MILLAH MURRAH EVIDENT H105	NMMH105	6	15.1	18
MURRAY UPSHOT H32	NURH32	5	17.9	9
PATHFINDER GENESIS G357	SMPG357	9	19.9	1
RENNYLEA G255	NORG255	22	17.6	11
STRATHEWEN RED DAIQUIRI H40	VSNH40	10	17.1	12
TALOOBY GALAXY G121	NPGG121	12	19.7	3
TE WHANGA M14	NZE10752011M14	17	17.7	10
TWYNAM F53	NXTF53	11	18.3	5
WAIRERE YNOT Y0491	NZE13615011491	19	15.2	17
WATTLETOP FRANKLIN G188	NWPG188	13	18.0	7



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Carcase IMF (%)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	21	17.9	2
BALD BLAIR DAVID G105	NBBG105	15	16.9	4
BANQUET GARRETT G272	VONG272	16	17.0	3
BONNY BROOKE FALCO F32	NUIF32	6	14.3	15
BOONAROO GRAVITY G13 G013	HCAG013	10	15.8	9
BOOROOMOOKA GALILEO G501	NGMG501	12	13.9	17
BURENDA GEIGER COUNTER G49	QBUG49	15	16.5	6
COFFIN CREEK HORATIO H16	NIWH16	9	10.5	21
CUDGEGONG PARK GRANGE G4	DPCG4	11	15.9	8
DWYERS RANGE GATSBY G13	ASRG13	12	16.7	5
IRELANDS GAPSTED G25	VICG25	12	13.9	17
MILLAH MURRAH EVIDENT H105	NMMH105	6	15.3	11
MURRAY UPSHOT H32	NURH32	6	14.0	16
PATHFINDER GENESIS G357	SMPG357	9	13.2	19
RENNYLEA G255	NORG255	22	18.1	1
STRATHEWEN RED DAIQUIRI H40	VSNH40	10	14.8	13
TALOOBY GALAXY G121	NPGG121	12	14.4	14
TE WHANGA M14	NZE10752011M14	17	13.0	20
TWYNAM F53	NXTF53	11	15.7	10
WAIRERE YNOT Y0491	NZE13615011491	19	14.9	12
WATTLETOP FRANKLIN G188	NWPG188	14	16.4	7



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Net Feed Intake (kg/day)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	23	-3.0	14
BALD BLAIR DAVID G105	NBBG105	15	-3.4	6
BANQUET GARRETT G272	VONG272	16	-4.1	1
BONNY BROOKE FALCO F32	NUIF32	6	-3.9	2
BOONAROO GRAVITY G13 G013	HCAG013	11	-3.3	8
BOOROOMOOKA GALILEO G501	NGMG501	11	-3.6	4
BURENDA GEIGER COUNTER G49	QBUG49	15	-3.2	10
COFFIN CREEK HORATIO H16	NIWH16	8	-3.3	8
CUDGEGONG PARK GRANGE G4	DPCG4	11	-3.5	5
DWYERS RANGE GATSBY G13	ASRG13	11	-2.9	16
IRELANDS GAPSTED G25	VICG25	11	-3.1	12
MILLAH MURRAH EVIDENT H105	NMMH105	7	-3.1	12
MURRAY UPSHOT H32	NURH32	6	-2.6	17
PATHFINDER GENESIS G357	SMPG357	9	-2.4	18
RENNYLEA G255	NORG255	23	-3.4	6
STRATHEWEN RED DAIQUIRI H40	VSNH40	11	-2.2	19
TALOOBY GALAXY G121	NPGG121	12	-1.9	21
TE WHANGA M14	NZE10752011M14	16	-3.0	14
TWYNAM F53	NXTF53	10	-2.0	20
WAIRERE YNOT Y0491	NZE13615011491	18	-3.2	10
WATTLETOP FRANKLIN G188	NWPG188	15	-3.7	3



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - MSA Marble Score (Score)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	21	570.9	2
BALD BLAIR DAVID G105	NBBG105	15	539.9	6
BANQUET GARRETT G272	VONG272	16	542.3	5
BONNY BROOKE FALCO F32	NUIF32	6	476.7	15
BOONAROO GRAVITY G13 G013	HCAG013	10	525.1	8
BOOROOMOOKA GALILEO G501	NGMG501	12	470.2	18
BURENDA GEIGER COUNTER G49	QBUG49	15	537.4	7
COFFIN CREEK HORATIO H16	NIWH16	9	363.1	21
CUDGEGONG PARK GRANGE G4	DPCG4	11	518.0	10
DWYERS RANGE GATSBY G13	ASRG13	12	546.6	3
IRELANDS GAPSTED G25	VICG25	12	471.2	17
MILLAH MURRAH EVIDENT H105	NMMH105	6	508.5	11
MURRAY UPSHOT H32	NURH32	6	471.7	16
PATHFINDER GENESIS G357	SMPG357	9	454.0	19
RENNYLEA G255	NORG255	22	581.1	1
STRATHEWEN RED DAIQUIRI H40	VSNH40	10	486.7	13
TALOOBY GALAXY G121	NPGG121	12	484.5	14
TE WHANGA M14	NZE10752011M14	17	447.4	20
TWYNAM F53	NXTF53	11	520.4	9
WAIRERE YNOT Y0491	NZE13615011491	19	490.3	12
WATTLETOP FRANKLIN G188	NWPG188	14	542.8	4



Angus Sire Benchmarking Program - Progeny Performance Report
Cohort: 4 - MSA Ossification (Score)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	21	145.3	8
BALD BLAIR DAVID G105	NBBG105	15	146.0	10
BANQUET GARRETT G272	VONG272	16	152.7	19
BONNY BROOKE FALCO F32	NUIF32	6	149.3	15
BOONAROO GRAVITY G13 G013	HCAG013	10	146.3	12
BOOROOMOOKA GALILEO G501	NGMG501	12	163.9	21
BURENDA GEIGER COUNTER G49	QBUG49	15	138.9	4
COFFIN CREEK HORATIO H16	NIWH16	9	139.9	5
CUDGEGONG PARK GRANGE G4	DPCG4	11	135.3	1
DWYERS RANGE GATSBY G13	ASRG13	12	149.2	14
IRELANDS GAPSTED G25	VICG25	12	140.0	6
MILLAH MURRAH EVIDENT H105	NMMH105	6	151.8	18
MURRAY UPSHOT H32	NURH32	5	153.3	20
PATHFINDER GENESIS G357	SMPG357	9	137.2	2
RENNYLEA G255	NORG255	22	146.7	13
STRATHEWEN RED DAIQUIRI H40	VSNH40	10	150.8	16
TALOOBY GALAXY G121	NPGG121	12	138.5	3
TE WHANGA M14	NZE10752011M14	17	151.1	17
TWYNAM F53	NXTF53	11	146.2	11
WAIRERE YNOT Y0491	NZE13615011491	19	143.5	7
WATTLETOP FRANKLIN G188	NWPG188	14	145.5	9



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - MSA Index (Index)

Sire Name	Sire ID	Number of Progeny	Progeny Average	Rank
ALLOURA GET CRACKING G10	DGJG10	21	65.6	2
BALD BLAIR DAVID G105	NBBG105	15	64.9	11
BANQUET GARRETT G272	VONG272	16	64.5	14
BONNY BROOKE FALCO F32	NUIF32	6	64.3	16
BOONAROO GRAVITY G13 G013	HCAG013	10	65.0	9
BOOROOMOOKA GALILEO G501	NGMG501	12	63.8	20
BURENDA GEIGER COUNTER G49	QBUG49	15	65.5	3
COFFIN CREEK HORATIO H16	NIWH16	9	62.6	21
CUDGEGONG PARK GRANGE G4	DPCG4	11	65.5	3
DWYERS RANGE GATSBY G13	ASRG13	12	65.2	6
IRELANDS GAPSTED G25	VICG25	12	64.8	12
MILLAH MURRAH EVIDENT H105	NMMH105	6	64.6	13
MURRAY UPSHOT H32	NURH32	5	64.1	18
PATHFINDER GENESIS G357	SMPG357	9	65.0	9
RENNYLEA G255	NORG255	22	65.7	1
STRATHEWEN RED DAIQUIRI H40	VSNH40	10	64.3	16
TALOOBY GALAXY G121	NPGG121	12	65.1	7
TE WHANGA M14	NZE10752011M14	17	63.9	19
TWYNAM F53	NXTF53	11	65.1	7
WAIRERE YNOT Y0491	NZE13615011491	19	64.4	15
WATTLETOP FRANKLIN G188	NWPG188	14	65.4	5



UNDERSTANDING THE ASBP SIRE LISTING - PROGENY PERFORMANCE II CATEGORICAL TRAITS

This listing provides an indication on how the sires are performing for several categorical (i.e. scored) traits within the ASBP, through their progeny.

For selection purposes it is strongly advised that the TACE EBVs and selection indexes listed in section 1 of the report be used primarily. They are the highest accuracy information to use in selection as they take into account all available industry data including the data generated from the ASBP. They also account for information from all known relatives and genetic correlations between traits as well as being able to be compared across cohorts and the Angus population.

Interpreting the ASBP Progeny Performance Listing



Angus Sire Benchmarking Program - Progeny Performance Report Cohort: 7 - Front Feet Claw Set (Score)

Sire Name	Sire ID	Number of Progeny	Progeny % Score 5-6	Rank
A A R TEN X 7008 S A	USA15719841	24	12.5	34
AJC K41	NXOK41	21	42.9	22
ANVIL KOKODA K267	HBUK267	31	41.9	23
AYRVALE LEGACY L21	HIOL21	19	47.4	20
BANNABY REALITY K63	ECMK63	26	53.8	9
BANNABY RESERVE K173	ECMK173	31	54.8	8
BONGONGO L B	NGXL B	20	40.0	24

Number of progeny = Number of progeny the sire has recorded within the ASBP for the specified trait.

Progeny % = The percentage of ASBP progeny displaying the desirable score for the specified trait. The scores deemed ideal are listed in traits section below.

Rank = The ranking position (descending order) of the sire within the specified cohort.

The lists are sorted on sire name for the specified cohort. The date the progeny performance values were produced is listed in the bottom left hand margin of the report. The reports will be regularly updated as further ASBP data is recorded and analysed.

Progeny Performance Categorical Traits and Interpretation

Separate sections for the following traits are included in the ASBP Progeny Performance listing:

Dockility: Percentage of progeny displaying a crush dockility score, taken at weaning, of 1 or 1.5 (out of 5). Higher Progeny % values indicate a higher percentage of progeny with desirable temperament.

Front Feet Claw Set: Percentage of progeny displaying a front feet claw set score, taken around 12 to 18 months of age, of 5 or 6 (out of the 1 to 9 scoring range). Higher Progeny % values indicate a higher percentage of progeny with desirable structure for front foot claw set.

Front Feet Angle: Percentage of progeny displaying a front feet angle score, taken around 12 to 18 months or age, of 5 or 6 (out of the 1 to 9 scoring range). Higher Progeny % values indicate a higher percentage of progeny with desirable structure for front feet angle.

Coat Type: Percentage of progeny displaying a coat type score, taken around 12 to 18 months or age, of 1, 1.5 or 2 (out of 7). Higher Progeny % values indicate a higher percentage of slick coated progeny.

Further information on the scoring systems are available from the Angus Education Centre - <https://www.angusaustralia.com.au/education/>



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Docility (Score)

Sire Name	Sire ID	Number of Progeny	Progeny % Score 1-1.5	Rank
ALLOURA GET CRACKING G10	DGJG10	34	29.4	20
BALD BLAIR DAVID G105	NBBG105	36	41.7	15
BANQUET GARRETT G272	VONG272	33	63.6	8
BONNY BROOKE FALCO F32	NUIF32	21	47.6	13
BOONAROO GRAVITY G013	HCAG013	25	32.0	18
BOOROOMOOKA GALILEO G501	NGMG501	25	68.0	4
BURENDA GEIGER COUNTER G49	QBUG49	26	65.4	6
COFFIN CREEK HORATIO H16	NIWH16	20	65.0	7
CUDGEGONG PARK GRANGE G4	DPCG4	23	39.1	16
DWYERS RANGE GATSBY G13	ASRG13	24	54.2	10
IRELANDS GAPSTED G25	VICG25	26	42.3	14
MILLAH MURRAH EVIDENT H105	NMMH105	17	52.9	11
MURRAY UPSHOT H32	NURH32	10	30.0	19
PATHFINDER GENESIS G357	SMPG357	24	70.8	2
RENNYLEA G255	NORG255	37	51.4	12
STRATHEWEN RED DAIQUIRI H40	VSNH40	22	72.7	1
TALOOBY GALAXY G121	NPGG121	26	38.5	17
TE WHANGA M14	NZE10752011M14	34	70.6	3
TWYNAM F53	NXTF53	18	66.7	5
WAIRERE YNOT Y0491	NZE13615011491	31	25.8	21
WATTLETOP FRANKLIN G188	NWPG188	22	54.5	9



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Front Feet Claw Set (Score)

Sire Name	Sire ID	Number of Progeny	Progeny % Score 5-6	Rank
ALLOURA GET CRACKING G10	DGJG10	32	100.0	1
BALD BLAIR DAVID G105	NBBG105	33	78.8	11
BANQUET GARRETT G272	VONG272	26	80.8	10
BONNY BROOKE FALCO F32	NUIF32	14	100.0	1
BOONAROO GRAVITY G013	HCAG013	24	87.5	5
BOOROOMOOKA GALILEO G501	NGMG501	24	70.8	15
BURENDA GEIGER COUNTER G49	QBUG49	23	60.9	18
COFFIN CREEK HORATIO H16	NIWH16	15	33.3	21
CUDGEGONG PARK GRANGE G4	DPCG4	19	89.5	4
DWYERS RANGE GATSBY G13	ASRG13	21	81.0	9
IRELANDS GAPSTED G25	VICG25	22	81.8	8
MILLAH MURRAH EVIDENT H105	NMMH105	15	73.3	13
MURRAY UPSHOT H32	NURH32	8	50.0	20
PATHFINDER GENESIS G357	SMPG357	19	73.7	12
RENNYLEA G255	NORG255	32	53.1	19
STRATHEWEN RED DAIQUIRI H40	VSNH40	19	63.2	17
TALOOBY GALAXY G121	NPGG121	24	87.5	5
TE WHANGA M14	NZE10752011M14	27	100.0	1
TWYNAM F53	NXTF53	18	72.2	14
WAIRERE YNOT Y0491	NZE13615011491	26	84.6	7
WATTLETOP FRANKLIN G188	NWPG188	18	66.7	16



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Front Feet Angle (Score)

Sire Name	Sire ID	Number of Progeny	Progeny % Score 5-6	Rank
ALLOURA GET CRACKING G10	DGJG10	32	93.8	14
BALD BLAIR DAVID G105	NBBG105	33	84.8	21
BANQUET GARRETT G272	VONG272	26	100.0	1
BONNY BROOKE FALCO F32	NUIF32	14	100.0	1
BOONAROO GRAVITY G013	HCAG013	24	95.8	7
BOOROOMOOKA GALILEO G501	NGMG501	24	87.5	18
BURENDA GEIGER COUNTER G49	QBUG49	23	87.0	19
COFFIN CREEK HORATIO H16	NIWH16	15	93.3	16
CUDGEGONG PARK GRANGE G4	DPCG4	19	100.0	1
DWYERS RANGE GATSBY G13	ASRG13	21	95.2	10
IRELANDS GAPSTED G25	VICG25	22	95.5	9
MILLAH MURRAH EVIDENT H105	NMMH105	15	86.7	20
MURRAY UPSHOT H32	NURH32	8	100.0	1
PATHFINDER GENESIS G357	SMPG357	19	94.7	11
RENNYLEA G255	NORG255	32	93.8	14
STRATHEWEN RED DAIQUIRI H40	VSNH40	19	94.7	11
TALOOBY GALAXY G121	NPGG121	24	95.8	7
TE WHANGA M14	NZE10752011M14	27	100.0	1
TWYNAM F53	NXTF53	18	88.9	17
WAIRERE YNOT Y0491	NZE13615011491	26	96.2	6
WATTLETOP FRANKLIN G188	NWPG188	18	94.4	13



Angus Sire Benchmarking Program - Progeny Performance Report

Cohort: 4 - Coat Type (Score)

Sire Name	Sire ID	Number of Progeny	Progeny % Score 1-2	Rank
ALLOURA GET CRACKING G10	DGJG10	32	28.1	14
BALD BLAIR DAVID G105	NBBG105	33	45.5	5
BANQUET GARRETT G272	VONG272	26	26.9	15
BONNY BROOKE FALCO F32	NUIF32	14	7.1	21
BOONAROO GRAVITY G013	HCAG013	24	37.5	8
BOOROOMOOKA GALILEO G501	NGMG501	24	16.7	18
BURENDA GEIGER COUNTER G49	QBUG49	23	39.1	6
COFFIN CREEK HORATIO H16	NIWH16	15	13.3	20
CUDGEGONG PARK GRANGE G4	DPCG4	19	47.4	4
DWYERS RANGE GATSBY G13	ASRG13	21	47.6	3
IRELANDS GAPSTED G25	VICG25	22	36.4	11
MILLAH MURRAH EVIDENT H105	NMMH105	15	20.0	17
MURRAY UPSHOT H32	NURH32	8	37.5	8
PATHFINDER GENESIS G357	SMPG357	19	31.6	12
RENNYLEA G255	NORG255	32	59.4	1
STRATHEWEN RED DAIQUIRI H40	VSNH40	19	36.8	10
TALOOBY GALAXY G121	NPGG121	24	25.0	16
TE WHANGA M14	NZE10752011M14	27	29.6	13
TWYNAM F53	NXTF53	18	50.0	2
WAIRERE YNOT Y0491	NZE13615011491	26	38.5	7
WATTLETOP FRANKLIN G188	NWPG188	18	16.7	18

UNDERSTANDING THE ASBP SIRE LISTING - PROGENY PERFORMANCE SUMMARY TABLE

This listing provides an indication on how the sires are performing within the ASBP. *The values listed can only be validly used to compare sires within each cohort of the ASBP.*

For selection purposes it is strongly advised that the TACE EBVs and selection indexes listed in section 1 of the report be used primarily. They are the highest accuracy information to use in selection as they take into account all available industry data including the data generated from the ASBP. They also account for information from all known relatives and genetic correlations between traits as well as being able to be compared across cohorts and the Angus population.

Interpreting the ASBP Progeny Performance Summary Table

Angus Sire Benchmarking Program - Cohort 3												
Summary of Progeny Averages (rank)												
Sire ID Name	BW	GL	WW	YW	FW	DTC	SCAN EMA	SCAN RIB	SCAN RUMP	SCAN IMF	CARC WT	
DGJF27 ALLOURA FOURTH DIMENSION F27	34.1 (1)	282.8 (23)	192.1 (35)	359.3 (40)	512.9 (36)	300.7 (16)	66.0 (15)	8.5 (1)	10.8 (1)	6.4 (1)	426.6 (36)	8
DGJG19 ALLOURA GET UP-AND-GO G19	37.0 (15)	283.0 (24)	202.7 (17)	396.7 (13)	537.3 (21)	290.1 (1)	64.9 (26)	7.8 (8)	10.0 (14)	5.4 (24)	432.3 (31)	
CGKE9 ALPINE EXTRA SPECIAL E9	37.1 (18)	279.1 (4)	190.7 (39)	370.2 (37)	515.0 (34)	316.6 (40)	62.4 (39)	5.8 (40)	7.7 (39)	4.9 (40)	434.6 (30)	8
WJMF96 ARDCAIRNIE F96	36.2 (7)	281.7 (17)	198.9 (21)	390.3 (18)	551.2 (10)	310.5 (37)	69.0 (2)	7.7 (10)	10.1 (11)	5.6 (12)	465.0 (11)	
NBBG117 BALD BLAIR NEW DESIGN G117	36.3 (9)	282.1 (20)	197.0 (29)	397.5 (11)	544.0 (12)	302.1 (22)	67.0 (11)	7.4 (18)	9.3 (28)	5.0 (39)	453.4 (19)	
WMYF3 BLACKROCK F3	36.5 (10)	279.0 (3)	204.3 (11)	388.2 (22)	555.2 (8)	301.5 (19)	67.2 (9)	7.6 (14)	10.3 (8)	5.7 (10)	479.1 (2)	
NGMF510 BOOROOMOOKA FRANKEL F510	40.3 (39)	281.3 (14)	200.3 (20)	405.9 (3)	555.5 (7)	304.1 (26)	65.8 (16)	7.3 (20)	10.1 (11)	5.4 (24)	444.3 (26)	

Progeny Average or Progeny % Value = The average performance or % ideal value of the sires progeny for the specified trait in the ASBP.

Rank = The ranking position of the sire within the specified cohort (in brackets). The ranking order will depend on the trait. E.g. 200 Day weight ranked in descending order, while birth weight is ranked in ascending order.

For easy interpretation colour coding has been applied to the ranking being:

- Rank 1 to 5 (dark green with white text). E.g.

34.8 (1)

- Rank 6 to 10 (light green with black text). E.g.

36.5 (10)

The definition of the traits and values listed are detailed in the previous sections of this report titled "Interpreting the ASBP Progeny Performance Listing"

The table is sorted on sire name for the specified cohort.

The date the progeny performance values were produced is listed in the bottom left hand margin of the report. The reports will be regularly updated as further ASBP data is recorded and analysed.



Angus Sire Benchmarking Program - Cohort 4

Summary of Progeny Averages (rank)

Sire ID Name	BW	GL	WW	YW	FW	DTC	SCAN EMA	SCAN RIB	SCAN RUMP	SCAN IMF	CARC WT	CARC EMA	CARC IMF	NFI-f	MSA MBL	MSA OSS	MSA IND	DOC	FC	FA	CT
DGJG10 ALLOURA GET CRACKING G10	31.2 (3)	280.1 (19)	199.1 (18)	327.6 (12)	497.1 (19)	296.2 (1)	65.9 (3)	7.1 (3)	8.8 (13)	6.1 (2)	394.7 (17)	85.8 (4)	17.9 (2)	-3.0 (14)	570.9 (2)	145.3 (8)	65.6 (2)	29.4 (20)	100.0 (1)	93.8 (14)	28.1 (14)
NBBG105 BALD BLAIR DAVID G105	32.8 (12)	278.7 (13)	205.0 (13)	331.0 (6)	509.5 (14)	307.6 (14)	63.2 (14)	6.5 (12)	9.7 (7)	5.8 (3)	373.4 (21)	85.0 (7)	16.9 (4)	-3.4 (6)	539.9 (6)	146.0 (10)	64.9 (11)	41.7 (15)	78.8 (11)	84.8 (21)	45.5 (5)
VONG272 BANQUET GARRETT G272	32.6 (11)	280.4 (20)	207.6 (9)	330.1 (8)	532.8 (2)	305.1 (11)	62.1 (18)	5.6 (20)	7.9 (19)	5.2 (20)	395.3 (16)	81.7 (13)	17.0 (3)	-4.1 (1)	542.3 (5)	152.7 (19)	64.5 (14)	63.6 (8)	80.8 (10)	100.0 (1)	26.9 (15)
NUIF32 BONNY BROOKE FALCO F32	33.1 (14)	280.6 (21)	207.2 (11)	312.7 (20)	508.9 (15)	307.7 (15)	61.5 (20)	8.7 (1)	11.2 (1)	6.2 (1)	395.9 (15)	77.4 (21)	14.3 (15)	-3.9 (2)	476.7 (15)	149.3 (15)	64.3 (16)	47.6 (13)	100.0 (1)	100.0 (1)	7.1 (21)
HCAG013 BOONAROO GRAVITY G013	31.6 (4)	276.6 (4)	209.6 (5)	330.0 (9)	522.0 (6)	300.0 (5)	64.4 (5)	6.5 (12)	8.9 (12)	5.5 (12)	408.0 (12)	85.4 (5)	15.8 (9)	-3.3 (8)	525.1 (8)	146.3 (12)	65.0 (9)	32.0 (18)	87.5 (5)	95.8 (7)	37.5 (8)
HCAG013 BOONAROO GRAVITY G13 G013	31.6 (4)	276.6 (4)	209.6 (5)	330.0 (9)	522.0 (6)	300.0 (5)	64.4 (5)	6.5 (12)	8.9 (12)	5.5 (12)	408.0 (12)	85.4 (5)	15.8 (9)	-3.3 (8)	525.1 (8)	146.3 (12)	65.0 (9)	32.0 (18)	87.5 (5)	95.8 (7)	37.5 (8)
NGMG501 BOOROOMOOKA GALILEO G501	31.0 (2)	275.4 (1)	206.7 (12)	331.3 (5)	521.7 (7)	298.5 (4)	63.9 (7)	6.5 (12)	9.5 (9)	5.6 (10)	422.6 (4)	80.1 (18)	13.9 (17)	-3.6 (4)	470.2 (18)	163.9 (21)	63.8 (20)	68.0 (4)	70.8 (15)	87.5 (18)	16.7 (18)
QBUG49 BURENDA GEIGER COUNTER G49	31.9 (5)	278.1 (10)	198.4 (19)	322.5 (16)	510.1 (13)	302.8 (8)	62.7 (17)	6.4 (15)	8.6 (15)	5.7 (6)	400.4 (13)	81.0 (17)	16.5 (6)	-3.2 (10)	537.4 (7)	138.9 (4)	65.5 (3)	65.4 (6)	60.9 (18)	87.0 (19)	39.1 (6)
NIWH16 COFFIN CREEK HORATIO H16	33.3 (16)	276.8 (6)	214.3 (2)	327.1 (13)	516.9 (9)	309.4 (16)	63.8 (9)	5.2 (21)	8.0 (18)	4.9 (21)	391.1 (18)	78.4 (20)	10.5 (21)	-3.3 (8)	363.1 (21)	139.9 (5)	62.6 (21)	65.0 (7)	33.3 (21)	93.3 (16)	13.3 (20)
DPCG4 CUDGEGONG PARK GRANGE G4	32.2 (8)	279.6 (18)	203.2 (14)	311.0 (21)	508.9 (15)	304.0 (9)	63.8 (9)	6.8 (5)	10.5 (2)	5.5 (12)	399.7 (14)	81.7 (13)	15.9 (8)	-3.5 (5)	518.0 (10)	135.3 (1)	65.5 (3)	39.1 (16)	89.5 (4)	100.0 (1)	47.4 (4)
ASRG13 DWYERS RANGE GATSBY G13	33.6 (19)	276.4 (3)	207.7 (8)	330.8 (7)	515.8 (10)	298.3 (3)	63.8 (9)	6.3 (18)	8.2 (16)	5.6 (10)	410.3 (9)	83.9 (8)	16.7 (5)	-2.9 (16)	546.6 (3)	149.2 (14)	65.2 (6)	54.2 (10)	81.0 (9)	95.2 (10)	47.6 (3)
VICG25 IRELANDS GAPSTED G25	33.9 (20)	278.4 (11)	207.9 (7)	337.2 (3)	532.8 (2)	310.1 (17)	65.9 (3)	6.4 (15)	9.9 (5)	5.8 (3)	415.5 (8)	83.3 (11)	13.9 (17)	-3.1 (12)	471.2 (17)	140.0 (6)	64.8 (12)	42.3 (14)	81.8 (8)	95.5 (9)	36.4 (11)
NMMH105 MILLAH MURRAH EVIDENT H105	35.4 (21)	279.4 (16)	215.0 (1)	334.8 (4)	529.2 (5)	310.1 (17)	66.8 (1)	6.8 (5)	9.4 (10)	5.5 (12)	429.3 (2)	87.8 (1)	15.3 (11)	-3.1 (12)	508.5 (11)	151.8 (18)	64.6 (13)	52.9 (11)	73.3 (13)	86.7 (20)	20.0 (17)
NURH32 MURRAY UPSHOT H32	33.1 (14)	279.4 (16)	199.4 (16)	322.6 (15)	495.5 (20)	332.3 (21)	63.6 (12)	6.7 (9)	6.5 (21)	5.3 (17)	409.8 (10)	81.6 (15)	14.0 (16)	-2.6 (17)	471.7 (16)	153.3 (20)	64.1 (18)	30.0 (19)	50.0 (20)	100.0 (1)	37.5 (8)
SMPG357 PATHFINDER GENESIS G357	33.4 (17)	275.5 (2)	211.6 (4)	338.6 (2)	530.3 (4)	305.1 (11)	64.0 (6)	7.2 (2)	9.4 (10)	5.5 (12)	432.9 (1)	86.9 (3)	13.2 (19)	-2.4 (18)	454.0 (19)	137.2 (2)	65.0 (9)	70.8 (2)	73.7 (12)	94.7 (11)	31.6 (12)
NORG255 RENNYLEA G255	32.1 (6)	278.5 (12)	201.8 (15)	329.1 (10)	519.4 (8)	310.7 (19)	63.9 (7)	6.7 (9)	8.1 (17)	5.8 (3)	423.4 (3)	83.9 (8)	18.1 (1)	-3.4 (6)	581.1 (1)	146.7 (13)	65.7 (1)	51.4 (12)	53.1 (19)	93.8 (14)	59.4 (1)
VSNH40 STRATHEWEN RED DAIQUIRI H40	29.5 (1)	276.8 (6)	199.3 (17)	328.8 (11)	501.5 (17)	301.3 (6)	63.0 (15)	6.4 (15)	8.7 (14)	5.7 (6)	390.3 (19)	83.8 (10)	14.8 (13)	-2.2 (19)	486.7 (13)	150.8 (16)	64.3 (16)	72.7 (1)	63.2 (17)	94.7 (11)	36.8 (10)
NPGG121 TALOBY GALAXY G121	32.2 (8)	279.1 (15)	197.6 (21)	314.9 (19)	498.8 (18)	301.9 (7)	60.7 (21)	6.9 (4)	9.7 (7)	5.3 (17)	408.8 (11)	79.6 (19)	14.4 (14)	-1.9 (21)	484.5 (14)	138.5 (3)	65.1 (7)	38.5 (17)	87.5 (5)	95.8 (7)	25.0 (16)
NZE10752011M14 TE WHANGA M14	32.8 (12)	278.8 (14)	208.7 (6)	317.9 (18)	510.7 (12)	297.7 (2)	61.9 (19)	6.7 (9)	10.2 (4)	5.3 (17)	415.6 (7)	81.5 (16)	13.0 (20)	-3.0 (14)	447.4 (20)	151.1 (17)	63.9 (19)	70.6 (3)	100.0 (1)	100.0 (1)	29.6 (13)
NXTF53 TWYNAM F53	33.4 (17)	277.2 (8)	207.4 (10)	325.2 (14)	514.9 (11)	304.1 (10)	63.6 (12)	6.8 (5)	9.8 (6)	5.7 (6)	418.3 (6)	87.2 (2)	15.7 (10)	-2.0 (20)	520.4 (9)	146.2 (11)	65.1 (7)	66.7 (5)	72.2 (14)	88.9 (17)	50.0 (2)
NZE13615011491 WAIRERE YNOT Y0491	32.3 (10)	277.3 (9)	198.1 (20)	320.9 (17)	492.7 (21)	305.3 (13)	62.8 (16)	5.7 (19)	7.8 (20)	5.4 (16)	383.4 (20)	85.3 (6)	14.9 (12)	-3.2 (10)	490.3 (12)	143.5 (7)	64.4 (15)	25.8 (21)	84.6 (7)	96.2 (6)	38.5 (7)
NWPG188 WATTLETOP FRANKLIN G188	32.1 (6)	276.7 (5)	213.2 (3)	348.2 (1)	538.8 (1)	313.3 (20)	66.3 (2)	6.8 (5)	10.3 (3)	5.7 (6)	419.9 (5)	82.6 (12)	16.4 (7)	-3.7 (3)	542.8 (4)	145.5 (9)	65.4 (5)	54.5 (9)	66.7 (16)	94.4 (13)	16.7 (18)