AngusSire™
Benchmarking Program

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
Kerwee Lot Feeders
John Dee Abattoir
University of New England (UNE)
Vetoquinol
Zoetis Animal Genetics
Neogen Australasia

Co-operator Cow Herds

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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 and Anna 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 carcase measurement, meat quality attributes & female reproduction.
2. Generate data for the validation & refinement of Trans-Tasman Angus Cattle Evaluation.
3. Build a comprehensive phenotype and genotype database on Australian Angus for 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 carcase 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 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.*

2. **ASBP Progeny Performance Listing** – The second section includes progeny average values and rankings for a range of traits recorded within the ASBP. This listing provides an indication on how the sire's are performing within the ASBP. *The values listed can only be validly used to compare sires within each cohort of the ASBP.*

Each 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

READING THE ASBP SIRE LISTING - TACE EBVs and SELECTION INDEXES

Ident	Name	Statistics			Estimated Breeding Values																				
					Calv-Ease		Birth		Growth					Fert		Carcase						Feed	Temp	Structural			Selection Index	
Sire Dam	Reg.	Num Herd	Prog	Prog 2Yr.	Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
USA17960722	**BALDRIDGE BEAST MODE B074**				+6.6	+8.2	-3.6	+3.6	+77	+123	+149	+131	+9	+2.8	-4.4	+82	+3.2	-2.5	-4.5	-0.3	+2.6	-0.23	+34	+0.54	+0.54	+0.78	$277	$452
USA16295688	HBR	234	5069	1679	95%	82%	99%	99%	99%	99%	99%	97%	96%	98%	65%	94%	92%	92%	92%	88%	91%	77%	98%	98%	98%	97%		
USA17149410					17	5	66	36	1	1	4	9	92	21	44	13	87	89	96	75	32	16	7	4	1	2	2	1

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
Dtrs	Calving Ease Daughters
GL	Gestation Length
BW	Birth Weight
200	200 Day Growth
400	400 Day Weight
600	600 Day Weight
MCW	Mature Cow Weight
Milk	Milk
SS	Scrotal Size
DC	Days to Calving
CW	Carcase Weight
EMA	Eye Muscle Area
RIB	Rib Fat
P8	Rump Fat
RBY	Retail Beef Yield
IMF	Intramuscular Fat
NFI-F	Net Feed Intake (Feedlot)
DOC	Docility
Claw	Claw Set
Angle	Foot Angle
Leg	Leg Angle
$A	Angus Breeding Index
$A-L	Angus Breeding Low Feed Cost 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
January 2023 TransTasman Angus Cattle Evaluation

Ident	Name	Statistics			Estimated Breeding Values																								
					Calv-Ease		Birth		Growth					Fert		Carcase						Feed	Temp	Structural			Selection Index	
Sire Dam	Reg.	Num Herd	Prog	Prog 2Yr.	Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
DGJG10	**ALLOURA GET CRACKING G10** SV				+9.6	+8.5	-3.5	+2.6	+43	+75	+87	+78	+13	-0.2	-8.2	+47	+16.6	+1.6	-0.2	+1.1	+5.6	+0.55	+1	+0.48	+1.02	+0.94	$282	$439
VTMB1	HBR	27	940	39	92%	78%	99%	98%	98%	98%	98%	97%	96%	97%	73%	95%	93%	93%	93%	89%	92%	87%	96%	95%	95%	93%		
DGJZ15					3	4	71	19	80	90	96	85	81	99	1	94	1	15	47	14	2	89	99	2	61	20	1	2
NBBG105	**BALD BLAIR DAVID G105** PV				-3.8	-5.6	-3.5	+6.6	+43	+72	+94	+104	+2	+1.8	-4.2	+14	+7.3	-1.3	-0.4	+0.9	+3.3	-0.20	+27	+0.72	+1.12	+1.04	$155	$270
NBBD34	APR	5	105	0	77%	65%	95%	95%	94%	94%	95%	91%	86%	89%	60%	90%	88%	88%	89%	80%	87%	81%	91%	89%	89%	84%		
NBBD171					90	98	71	93	83	92	91	44	99	61	64	99	36	78	51	22	20	10	21	23	81	52	88	90
VONG272	**BANQUET GARRETT G272** SV				-0.7	+4.8	-1.9	+6.3	+54	+98	+145	+146	+18	+4.7	-0.9	+56	+1.9	-2.6	-3.9	+0.3	+2.2	-0.80	+31	+0.54	+1.04	+1.10	$126	$282
VOND412	HBR	6	152	0	75%	59%	94%	96%	93%	94%	94%	88%	84%	90%	55%	88%	87%	87%	87%	79%	85%	78%	82%	87%	87%	81%		
VONC368					77	31	89	90	31	28	7	4	41	1	99	79	93	94	96	60	47	1	12	4	65	70	96	87
NUIF32	**BONNY BROOKE FALCO F32** SV				-8.1	-5.8	-0.1	+6.5	+53	+81	+112	+99	+19	+0.0	-3.5	+66	-1.7	+4.0	+4.0	-1.3	+2.1	-0.45	+7	+1.06	+0.94	+1.08	$130	$227
NGMC196	HBR	6	67	2	64%	49%	90%	88%	89%	88%	89%	81%	71%	66%	50%	83%	80%	81%	82%	72%	79%	70%	77%	79%	79%	74%		
NUID96					97	98	97	92	38	77	62	53	38	99	81	50	99	1	3	99	50	2	97	86	40	65	96	97
HCAG013	**BOONAROO GRAVITY G013** PV				+5.6	+1.2	-5.9	+3.4	+49	+88	+116	+106	+27	+3.7	-6.6	+57	+5.1	-3.0	-3.1	+1.3	+2.8	-0.49	+11	+0.44	+0.90	+1.06	$216	$372
VTMA217	HBR	21	490	68	88%	79%	98%	98%	97%	97%	97%	93%	94%	96%	69%	92%	90%	91%	91%	86%	90%	83%	93%	93%	93%	91%		
VTMZ618					25	69	31	34	55	57	54	41	2	7	9	78	65	97	91	8	31	2	89	1	31	58	33	29
NGMG501	**BOOROOMOOKA GALILEO G501** PV				+9.4	+4.6	-9.1	+2.0	+52	+98	+137	+100	+23	+0.2	-4.7	+84	+2.6	+0.0	+0.7	+0.1	+1.1	-0.54	+26	+1.36	+1.36	+1.00	$213	$370
NGME116	HBR	10	315	0	85%	71%	96%	97%	97%	97%	97%	95%	95%	96%	63%	91%	89%	90%	90%	84%	88%	79%	97%	95%	95%	92%		
NGMB69					4	34	4	12	40	29	13	51	11	98	49	9	90	47	30	72	78	1	25	99	99	38	37	31
QBUG49	**BURENDA GEIGER COUNTER G49** PV				+9.6	+10.1	-7.6	+2.3	+38	+78	+101	+83	+18	+2.2	-8.2	+58	+2.7	+0.9	-1.5	+0.1	+4.0	+0.13	+33	+1.04	+1.22	+0.98	$215	$375
VTMB1	HBR	9	206	2	84%	72%	97%	97%	95%	96%	94%	94%	93%	94%	67%	91%	90%	90%	91%	85%	89%	83%	95%	85%	85%	81%		
QBUE5					3	1	12	15	94	84	83	79	45	44	1	75	89	26	72	72	10	43	9	84	92	32	34	27
NIWH16	**COFFIN CREEK HORATIO H16** SV				-4.0	-5.1	-6.4	+6.2	+52	+91	+118	+127	+15	+0.5	-1.4	+53	+3.4	-5.1	-3.9	+1.6	-1.7	-0.29	+21	+1.26	+1.06	+1.06	$100	$220
NIWD53	APR	5	41	0	65%	48%	90%	90%	89%	88%	89%	84%	78%	75%	47%	84%	82%	82%	83%	73%	80%	71%	78%	76%	76%	69%		
NIWD61					90	97	24	89	40	50	49	13	71	95	98	85	84	99	96	3	99	6	42	98	69	58	99	98
DPCG4	**CUDGEGONG PARK GRANGE G4** PV				+2.9	-1.2	-3.3	+4.3	+46	+83	+110	+112	+6	+0.9	-4.0	+58	+3.9	+1.7	+4.4	-0.5	+2.3	+0.16	+18	+0.72	+0.74	+0.82	$168	$313
NZE04379	HBR	7	312	0	80%	71%	94%	97%	97%	96%	95%	91%	93%	94%	64%	90%	89%	88%	89%	82%	87%	80%	85%	87%	87%	82%		
VLYA271					50	86	74	55	71	71	68	30	99	89	69	74	79	14	2	94	44	47	62	23	7	4	81	74
ASRG13	**DWYERS RANGE GATSBY G13** SV				-0.8	+2.2	-8.7	+7.0	+55	+96	+131	+129	+15	+1.7	-5.9	+75	+6.5	-3.5	-6.4	+1.5	+1.7	-0.07	+7	+0.96	+0.90	+0.78	$193	$350
VTMB1	HBR	6	73	0	78%	69%	94%	94%	91%	91%	91%	87%	83%	82%	63%	88%	86%	86%	87%	78%	85%	79%	87%	84%	84%	80%		
DNWC8					77	59	6	95	28	35	22	11	69	65	18	24	46	99	99	4	62	19	97	72	31	2	59	47
VICG25	**IRELANDS GAPSTED G25** PV				-4.0	+6.3	-4.5	+5.4	+45	+89	+119	+126	+14	+4.6	-4.6	+59	+9.6	+2.9	+3.2	+0.3	+0.6	+0.65	+1	+0.56	+0.90	+0.88	$149	$302
NENZ181	HBR	18	252	0	86%	73%	97%	98%	97%	97%	97%	95%	94%	96%	67%	92%	91%	92%	92%	87%	90%	82%	84%	89%	89%	84%		
VICC52					90	17	54	78	76	55	46	14	80	2	52	72	15	4	5	60	88	94	99	5	31	9	90	80
NMMH105	**MILLAH MURRAH EVIDENT H105** SV				-12.6	-7.5	-0.6	+6.7	+52	+87	+108	+93	+11	+2.2	-5.1	+76	+10.0	-1.0	+1.2	+1.5	+1.6	-0.03	+29	+1.06	+1.26	+0.92	$185	$279
BHRE614	HBR	6	44	0	73%	63%	94%	92%	90%	89%	90%	84%	78%	87%	58%	84%	82%	82%	83%	76%	82%	75%	82%	81%	81%	77%		
NMMY79					99	99	96	93	42	60	70	64	92	44	37	23	13	72	22	4	65	23	16	86	95	16	68	88
NURH32	**MURRAY UPSHOT H32** PV				+4.0	+4.7	-4.1	+3.5	+46	+81	+101	+56	+15	+2.9	-3.1	+63	+5.6	+0.4	-0.8	+0.3	+2.3	+0.78	+14	+1.40	+1.14	+1.26	$195	$304
USA16541214	HBR	8	33	0	73%	64%	90%	89%	87%	87%	88%	85%	78%	81%	59%	83%	81%	82%	83%	76%	81%	73%	80%	85%	87%	83%		
VTMD113					40	32	61	36	71	78	83	98	72	20	88	61	58	37	59	60	44	98	82	99	84	96	57	78
SMPG357	**PATHFINDER GENESIS G357** PV				+2.3	+5.5	-7.8	+6.7	+61	+108	+146	+139	+26	+4.3	-5.1	+96	+13.9	+0.9	-1.4	+1.4	+0.1	+0.63	+29	+0.88	+1.04	+0.76	$222	$404
VTMB1	HBR	141	2714	120	96%	86%	99%	99%	99%	99%	99%	98%	98%	98%	81%	97%	95%	96%	96%	94%	95%	89%	98%	97%	98%	96%		
SMPD245					55	24	10	93	9	9	6	6	3	3	37	2	2	26	70	6	95	93	15	56	65	2	26	10
NORG255	**RENNYLEA G255** PV				-10.9	-7.7	-3.6	+4.6	+51	+95	+131	+127	+21	+0.8	-3.8	+90	+8.0	-0.4	-3.2	+0.7	+4.8	-0.11	+13	+1.24	+0.94	+0.86	$166	$284
BNAD145	APR	26	673	4	94%	86%	98%	98%	98%	98%	98%	97%	97%	97%	82%	96%	95%	95%	96%	93%	94%	90%	97%	94%	94%	92%		
NORC490					99	99	69	62	44	36	22	13	20	91	74	4	29	57	92	33	4	16	83	98	40	7	82	86
	Breed Average EBVs				**+2.2**	**+2.7**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+101**	**+17**	**+2.1**	**-4.7**	**+66**	**+6.4**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+21**	**+0.85**	**+0.98**	**+1.03**	**+197**	**+340**

Angus Australia - Sire Benchmarking Program - Cohort 4
January 2023 TransTasman Angus Cattle Evaluation

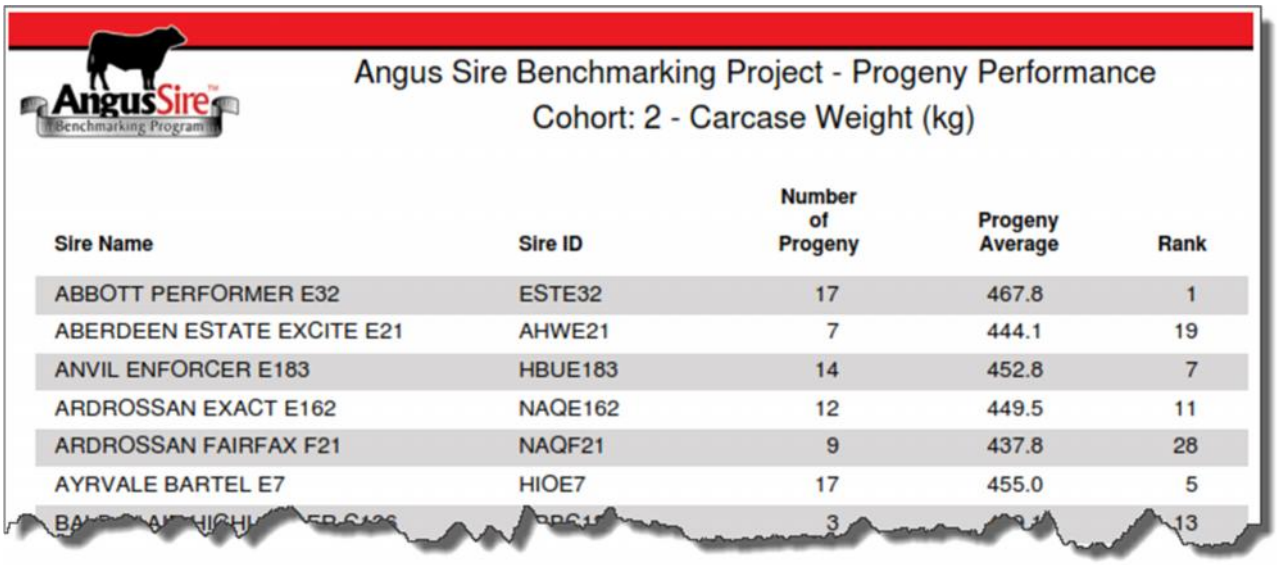
Ident	Name	Statistics			Estimated Breeding Values																								
					Calv-Ease		Birth		Growth					Fert		Carcase						Feed	Temp	Structural			Selection Index	
Sire Dam	Reg.	Num Herd	Prog	Prog 2Yr.	Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
VSNH40	**STRATHEWEN RED DAIQUIRI H40** PV				+8.9	+2.8	-6.9	+2.0	+42	+93	+115	+102	+26	+3.1	-5.0	+51	+3.5	+0.1	+0.0	-0.4	+2.4	+0.27	+28	+1.10	+1.12	+1.08	$171	$330
VTMD19	HBR	8	57	0	73%	62%	94%	92%	90%	90%	90%	85%	81%	77%	58%	87%	85%	85%	86%	77%	83%	77%	82%	84%	84%	79%		
VSNF12					6	53	18	12	85	41	56	48	4	16	40	89	83	45	43	92	41	62	19	90	81	65	79	63
NPGG121	**TALOOBY GALAXY G121** SV				+0.3	-0.3	-3.2	+4.9	+37	+64	+90	+80	+15	+1.5	-4.1	+63	-0.1	+2.5	+1.5	+0.1	+1.5	+0.90	+9	+0.74	+1.06	+1.16	$126	$232
NMMD1	HBR	6	113	0	71%	56%	93%	95%	89%	90%	91%	84%	64%	88%	53%	87%	86%	85%	87%	76%	84%	78%	80%	82%	82%	77%		
NPGC14					70	80	75	69	95	98	94	83	68	73	67	62	98	6	18	72	68	99	95	26	69	85	96	97
NZE10752011	**TE WHANGA M14** #				+2.3	+0.5	-4.1	+5.7	+52	+77	+108	+98	+12	+1.2	-6.0	+77	+2.3	+1.5	+5.3	-0.4	-0.8	-0.04	+46	+0.44	+0.92	+1.08	$169	$305
NZE10752007G9	HBR	4	34	0	69%	50%	93%	92%	90%	90%	91%	85%	77%	82%	53%	89%	88%	87%	88%	78%	85%	80%	81%	82%	82%	76%		
NZE10752103C38					55	75	61	83	39	86	71	56	89	82	17	20	92	16	1	92	99	22	1	1	35	65	80	78
NXTF53	**TWYNAM F53** SV				+5.4	+3.3	-7.4	+3.1	+44	+75	+112	+104	+16	+2.2	-6.9	+64	+8.4	+1.5	+0.5	+0.3	+2.4	+0.67	+24	+0.88	+0.98	+1.04	$196	$351
NURZ366	APR	6	98	0	72%	58%	93%	94%	93%	93%	93%	86%	82%	90%	57%	87%	86%	86%	87%	78%	85%	77%	77%	81%	81%	78%		
NXTD55					27	48	14	28	79	89	62	45	58	44	6	59	25	16	34	60	41	95	32	56	51	52	56	46
NZE13615011	**WAIRERE YNOT Y0491** SV				+1.0	+0.5	-5.7	+5.3	+35	+60	+74	+64	+11	+0.6	-4.1	+32	+8.3	-3.6	-4.3	+1.9	+1.0	-0.15	-9	+0.54	+0.72	+0.86	$144	$238
USA14675477	HBR	5	51	0	73%	61%	93%	92%	91%	91%	92%	86%	82%	77%	56%	89%	88%	88%	89%	79%	85%	81%	82%	84%	85%	79%		
NZE13615101161					65	75	34	76	97	99	99	95	92	94	67	99	26	99	97	1	80	13	99	4	5	7	92	96
NWPG188	**WATTLETOP FRANKLIN G188** SV				+4.7	+7.9	-4.7	+2.2	+65	+109	+143	+120	+23	+3.7	-3.1	+87	+1.5	-1.2	-1.5	-0.3	+0.9	-1.11	+32	+1.02	+0.96	+0.94	$196	$364
USA15462648	HBR	66	1247	19	94%	82%	99%	99%	98%	98%	98%	97%	97%	98%	70%	95%	93%	94%	94%	91%	93%	86%	96%	95%	95%	92%		
NWPE295					33	7	51	14	4	8	8	20	10	7	88	6	95	76	72	89	83	1	11	81	45	20	56	36
	Breed Average EBVs				**+2.2**	**+2.7**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+101**	**+17**	**+2.1**	**-4.7**	**+66**	**+6.4**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+21**	**+0.85**	**+0.98**	**+1.03**	**+197**	**+340**

UNDERSTANDING THE ASBP SIRE LISTING - PROGENY PERFORMANCE

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 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 Project - Progeny Performance
Cohort: 2 - Carcase Weight (kg)

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
[illegible]	[illegible]	3	[illegible]	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 sire's progeny for the specified trait in the ASBP. The average is calculated using adjusted data (i.e. the standard 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 account 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 cm^2 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 carcase in kilograms at a standard 750 days of age recorded on steer progeny. Sires are ranked in descending order with higher values indicating more carcase weight.

Carcase Eye Muscle Area (EMA): Eye muscle area in cm^2 in a standard 400 kg carcase measured on steer progeny. Sires are ranked in descending order with higher values indicating larger eye muscle area.

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

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

Carcase Intramuscular Fat (IMF): Percentage of Intramuscular fat (by near infrared spectrophotometry or NIR at the UNE meat science laboratory) in a standard 400 kg carcase 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 based on a standard 400 kg carcase. Sires are ranked in descending order with higher values indicating more marbling in the carcase.

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 carcase 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	35	31.1	3
BALD BLAIR DAVID G105	NBBG105	35	32.8	13
BANQUET GARRETT G272	VONG272	33	32.4	10
BONNY BROOKE FALCO F32	NUIF32	21	33.1	14
BOONAROO GRAVITY G013	HCAG013	26	31.5	4
BOOROOMOOKA GALILEO G501	NGMG501	26	31.0	2
BURENDA GEIGER COUNTER G49	QBUG49	28	31.8	5
COFFIN CREEK HORATIO H16	NIWH16	20	33.2	16
CUDGEGONG PARK GRANGE G4	DPCG4	23	31.8	5
DWYERS RANGE GATSBY G13	ASRG13	26	33.5	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	32.0	7
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	22	29.5	1
TALOOBY GALAXY G121	NPGG121	28	32.5	11
TE WHANGA M14	NZE10752011M14	34	32.7	12
TWYNAM F53	NXTF53	20	33.4	17
WAIRERE YNOT Y0491	NZE13615011491	31	32.2	9
WATTLETOP FRANKLIN G188	NWPG188	23	32.0	7

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	29	280.7	19
BALD BLAIR DAVID G105	NBBG105	38	279.1	13
BANQUET GARRETT G272	VONG272	31	280.8	20
BONNY BROOKE FALCO F32	NUIF32	21	281.2	21
BOONAROO GRAVITY G013	HCAG013	27	277.2	5
BOOROOMOOKA GALILEO G501	NGMG501	25	275.8	1
BURENDA GEIGER COUNTER G49	QBUG49	24	278.2	10
COFFIN CREEK HORATIO H16	NIWH16	20	277.3	6
CUDGEGONG PARK GRANGE G4	DPCG4	21	280.2	18
DWYERS RANGE GATSBY G13	ASRG13	25	276.8	3
IRELANDS GAPSTED G25	VICG25	26	278.8	11
MILLAH MURRAH EVIDENT H105	NMMH105	18	280.0	17
MURRAY UPSHOT H32	NURH32	9	279.7	16
PATHFINDER GENESIS G357	SMPG357	26	275.9	2
RENNYLEA G255	NORG255	37	278.9	12
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	22	277.3	6
TALOOBY GALAXY G121	NPGG121	26	279.5	15
TE WHANGA M14	NZE10752011M14	32	279.3	14
TWYNAM F53	NXTF53	20	277.6	8
WAIRERE YNOT Y0491	NZE13615011491	31	277.6	8
WATTLETOP FRANKLIN G188	NWPG188	22	277.0	4

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	34	198.7	19
BALD BLAIR DAVID G105	NBBG105	36	204.9	13
BANQUET GARRETT G272	VONG272	33	207.6	8
BONNY BROOKE FALCO F32	NUIF32	21	207.3	10
BOONAROO GRAVITY G013	HCAG013	25	209.3	5
BOOROOMOOKA GALILEO G501	NGMG501	24	206.6	12
BURENDA GEIGER COUNTER G49	QBUG49	26	199.1	17
COFFIN CREEK HORATIO H16	NIWH16	19	214.1	2
CUDGEGONG PARK GRANGE G4	DPCG4	23	204.0	14
DWYERS RANGE GATSBY G13	ASRG13	24	207.6	8
IRELANDS GAPSTED G25	VICG25	26	207.8	7
MILLAH MURRAH EVIDENT H105	NMMH105	17	215.0	1
MURRAY UPSHOT H32	NURH32	10	199.4	16
PATHFINDER GENESIS G357	SMPG357	24	211.5	4
RENNYLEA G255	NORG255	37	201.7	15
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	22	199.1	17
TALOOBY GALAXY G121	NPGG121	26	197.0	21
TE WHANGA M14	NZE10752011M14	34	208.7	6
TWYNAM F53	NXTF53	18	207.3	10
WAIRERE YNOT Y0491	NZE13615011491	31	198.0	20
WATTLETOP FRANKLIN G188	NWPG188	22	213.1	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	329.0	12
BALD BLAIR DAVID G105	NBBG105	17	332.2	6
BANQUET GARRETT G272	VONG272	22	331.5	8
BONNY BROOKE FALCO F32	NUIF32	13	314.0	20
BOONAROO GRAVITY G013	HCAG013	18	330.7	9
BOOROOMOOKA GALILEO G501	NGMG501	17	332.3	5
BURENDA GEIGER COUNTER G49	QBUG49	20	324.5	15
COFFIN CREEK HORATIO H16	NIWH16	16	328.1	13
CUDGEGONG PARK GRANGE G4	DPCG4	17	312.1	21
DWYERS RANGE GATSBY G13	ASRG13	16	331.7	7
IRELANDS GAPSTED G25	VICG25	15	338.4	3
MILLAH MURRAH EVIDENT H105	NMMH105	11	335.8	4
MURRAY UPSHOT H32	NURH32	6	323.7	16
PATHFINDER GENESIS G357	SMPG357	15	339.3	2
RENNYLEA G255	NORG255	25	330.3	10
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	19	329.7	11
TALOOBY GALAXY G121	NPGG121	20	315.8	19
TE WHANGA M14	NZE10752011M14	20	318.8	18
TWYNAM F53	NXTF53	14	326.3	14
WAIRERE YNOT Y0491	NZE13615011491	23	321.9	17
WATTLETOP FRANKLIN G188	NWPG188	17	349.2	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	31	493.8	19
BALD BLAIR DAVID G105	NBBG105	35	507.9	14
BANQUET GARRETT G272	VONG272	30	531.1	3
BONNY BROOKE FALCO F32	NUIF32	17	507.2	16
BOONAROO GRAVITY G013	HCAG013	24	520.8	6
BOOROOMOOKA GALILEO G501	NGMG501	24	520.1	7
BURENDA GEIGER COUNTER G49	QBUG49	23	511.6	12
COFFIN CREEK HORATIO H16	NIWH16	17	515.5	9
CUDGEGONG PARK GRANGE G4	DPCG4	20	507.5	15
DWYERS RANGE GATSBY G13	ASRG13	21	514.2	10
IRELANDS GAPSTED G25	VICG25	22	531.2	2
MILLAH MURRAH EVIDENT H105	NMMH105	15	527.3	5
MURRAY UPSHOT H32	NURH32	10	492.0	20
PATHFINDER GENESIS G357	SMPG357	22	529.0	4
RENNYLEA G255	NORG255	34	517.6	8
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	20	500.1	17
TALOOBY GALAXY G121	NPGG121	25	497.2	18
TE WHANGA M14	NZE10752011M14	29	509.7	13
TWYNAM F53	NXTF53	18	513.5	11
WAIRERE YNOT Y0491	NZE13615011491	27	491.6	21
WATTLETOP FRANKLIN G188	NWPG188	19	536.9	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	6	292.9	1
BALD BLAIR DAVID G105	NBBG105	15	314.8	16
BANQUET GARRETT G272	VONG272	12	323.8	20
BONNY BROOKE FALCO F32	NUIF32	8	315.7	17
BOONAROO GRAVITY G013	HCAG013	11	301.0	3
BOOROOMOOKA GALILEO G501	NGMG501	11	299.6	2
BURENDA GEIGER COUNTER G49	QBUG49	8	305.1	7
COFFIN CREEK HORATIO H16	NIWH16	7	312.8	14
CUDGEGONG PARK GRANGE G4	DPCG4	5	305.3	8
DWYERS RANGE GATSBY G13	ASRG13	10	303.7	5
IRELANDS GAPSTED G25	VICG25	8	311.4	12
MILLAH MURRAH EVIDENT H105	NMMH105	8	311.2	11
MURRAY UPSHOT H32	NURH32	4	340.1	21
PATHFINDER GENESIS G357	SMPG357	12	322.1	19
RENNYLEA G255	NORG255	11	314.2	15
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	8	311.8	13
TALOOBY GALAXY G121	NPGG121	10	302.6	4
TE WHANGA M14	NZE10752011M14	12	310.8	10
TWYNAM F53	NXTF53	7	304.9	6
WAIRERE YNOT Y0491	NZE13615011491	7	305.8	9
WATTLETOP FRANKLIN G188	NWPG188	3	321.7	18

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	31	65.3	3
BALD BLAIR DAVID G105	NBBG105	31	62.4	14
BANQUET GARRETT G272	VONG272	30	61.3	18
BONNY BROOKE FALCO F32	NUIF32	15	60.8	20
BOONAROO GRAVITY G013	HCAG013	24	63.6	5
BOOROOMOOKA GALILEO G501	NGMG501	24	63.1	9
BURENDA GEIGER COUNTER G49	QBUG49	23	62.1	16
COFFIN CREEK HORATIO H16	NIWH16	16	63.0	10
CUDGEGONG PARK GRANGE G4	DPCG4	19	63.2	6
DWYERS RANGE GATSBY G13	ASRG13	21	62.9	11
IRELANDS GAPSTED G25	VICG25	22	65.1	4
MILLAH MURRAH EVIDENT H105	NMMH105	15	66.0	1
MURRAY UPSHOT H32	NURH32	7	62.9	11
PATHFINDER GENESIS G357	SMPG357	21	63.2	6
RENNYLEA G255	NORG255	33	63.2	6
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	19	62.2	15
TALOOBY GALAXY G121	NPGG121	24	60.0	21
TE WHANGA M14	NZE10752011M14	27	61.1	19
TWYNAM F53	NXTF53	18	62.8	13
WAIRERE YNOT Y0491	NZE13615011491	26	62.0	17
WATTLETOP FRANKLIN G188	NWPG188	18	65.5	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	31	7.1	2
BALD BLAIR DAVID G105	NBBG105	31	6.4	13
BANQUET GARRETT G272	VONG272	30	5.5	20
BONNY BROOKE FALCO F32	NUIF32	15	8.7	1
BOONAROO GRAVITY G013	HCAG013	24	6.4	13
BOOROOMOOKA GALILEO G501	NGMG501	24	6.5	12
BURENDA GEIGER COUNTER G49	QBUG49	23	6.3	16
COFFIN CREEK HORATIO H16	NIWH16	16	5.1	21
CUDGEGONG PARK GRANGE G4	DPCG4	19	6.7	6
DWYERS RANGE GATSBY G13	ASRG13	21	6.2	18
IRELANDS GAPSTED G25	VICG25	22	6.4	13
MILLAH MURRAH EVIDENT H105	NMMH105	15	6.7	6
MURRAY UPSHOT H32	NURH32	7	6.7	6
PATHFINDER GENESIS G357	SMPG357	21	7.1	2
RENNYLEA G255	NORG255	33	6.6	11
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	19	6.3	16
TALOOBY GALAXY G121	NPGG121	24	6.9	4
TE WHANGA M14	NZE10752011M14	27	6.7	6
TWYNAM F53	NXTF53	18	6.7	6
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	31	8.7	13
BALD BLAIR DAVID G105	NBBG105	30	9.6	8
BANQUET GARRETT G272	VONG272	30	7.8	18
BONNY BROOKE FALCO F32	NUIF32	15	11.1	1
BOONAROO GRAVITY G013	HCAG013	24	8.8	12
BOOROOMOOKA GALILEO G501	NGMG501	24	9.4	9
BURENDA GEIGER COUNTER G49	QBUG49	23	8.5	15
COFFIN CREEK HORATIO H16	NIWH16	16	7.8	18
CUDGEGONG PARK GRANGE G4	DPCG4	19	10.3	2
DWYERS RANGE GATSBY G13	ASRG13	21	8.1	16
IRELANDS GAPSTED G25	VICG25	22	9.8	5
MILLAH MURRAH EVIDENT H105	NMMH105	15	9.3	10
MURRAY UPSHOT H32	NURH32	7	6.4	21
PATHFINDER GENESIS G357	SMPG357	21	9.3	10
RENNYLEA G255	NORG255	33	8.0	17
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	19	8.6	14
TALOOBY GALAXY G121	NPGG121	24	9.7	6
TE WHANGA M14	NZE10752011M14	26	10.0	4
TWYNAM F53	NXTF53	18	9.7	6
WAIRERE YNOT Y0491	NZE13615011491	26	7.7	20
WATTLETOP FRANKLIN G188	NWPG188	18	10.2	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	31	6.1	2
BALD BLAIR DAVID G105	NBBG105	31	5.7	4
BANQUET GARRETT G272	VONG272	30	5.1	20
BONNY BROOKE FALCO F32	NUIF32	15	6.2	1
BOONAROO GRAVITY G013	HCAG013	24	5.4	15
BOOROOMOOKA GALILEO G501	NGMG501	24	5.5	11
BURENDA GEIGER COUNTER G49	QBUG49	23	5.7	4
COFFIN CREEK HORATIO H16	NIWH16	16	4.9	21
CUDGEGONG PARK GRANGE G4	DPCG4	19	5.5	11
DWYERS RANGE GATSBY G13	ASRG13	21	5.6	10
IRELANDS GAPSTED G25	VICG25	22	5.7	4
MILLAH MURRAH EVIDENT H105	NMMH105	15	5.5	11
MURRAY UPSHOT H32	NURH32	7	5.3	17
PATHFINDER GENESIS G357	SMPG357	21	5.5	11
RENNYLEA G255	NORG255	33	5.8	3
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	19	5.7	4
TALOOBY GALAXY G121	NPGG121	24	5.3	17
TE WHANGA M14	NZE10752011M14	27	5.3	17
TWYNAM F53	NXTF53	18	5.7	4
WAIRERE YNOT Y0491	NZE13615011491	26	5.4	15
WATTLETOP FRANKLIN G188	NWPG188	18	5.7	4

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	392.1	17
BALD BLAIR DAVID G105	NBBG105	15	369.8	21
BANQUET GARRETT G272	VONG272	16	392.5	16
BONNY BROOKE FALCO F32	NUIF32	6	393.6	15
BOONAROO GRAVITY G013	HCAG013	10	403.6	12
BOOROOMOOKA GALILEO G501	NGMG501	12	418.4	4
BURENDA GEIGER COUNTER G49	QBUG49	14	395.9	13
COFFIN CREEK HORATIO H16	NIWH16	9	387.8	18
CUDGEGONG PARK GRANGE G4	DPCG4	10	394.2	14
DWYERS RANGE GATSBY G13	ASRG13	12	406.5	11
IRELANDS GAPSTED G25	VICG25	12	412.5	7
MILLAH MURRAH EVIDENT H105	NMMH105	6	426.4	2
MURRAY UPSHOT H32	NURH32	6	406.9	10
PATHFINDER GENESIS G357	SMPG357	9	428.7	1
RENNYLEA G255	NORG255	22	420.0	3
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	10	386.7	19
TALOOBY GALAXY G121	NPGG121	13	407.0	9
TE WHANGA M14	NZE10752011M14	17	412.2	8
TWYNAM F53	NXTF53	11	414.6	6
WAIRERE YNOT Y0491	NZE13615011491	19	380.3	20
WATTLETOP FRANKLIN G188	NWPG188	14	416.1	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	86.1	4
BALD BLAIR DAVID G105	NBBG105	15	84.9	8
BANQUET GARRETT G272	VONG272	16	81.9	16
BONNY BROOKE FALCO F32	NUIF32	6	77.6	21
BOONAROO GRAVITY G013	HCAG013	10	86.1	4
BOOROOMOOKA GALILEO G501	NGMG501	12	81.0	18
BURENDA GEIGER COUNTER G49	QBUG49	14	81.3	17
COFFIN CREEK HORATIO H16	NIWH16	9	78.8	20
CUDGEGONG PARK GRANGE G4	DPCG4	10	82.6	13
DWYERS RANGE GATSBY G13	ASRG13	12	84.6	9
IRELANDS GAPSTED G25	VICG25	12	84.3	10
MILLAH MURRAH EVIDENT H105	NMMH105	6	89.1	1
MURRAY UPSHOT H32	NURH32	5	82.1	15
PATHFINDER GENESIS G357	SMPG357	9	88.4	2
RENNYLEA G255	NORG255	22	85.0	7
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	10	84.0	11
TALOOBY GALAXY G121	NPGG121	13	79.9	19
TE WHANGA M14	NZE10752011M14	17	82.3	14
TWYNAM F53	NXTF53	11	88.1	3
WAIRERE YNOT Y0491	NZE13615011491	19	85.3	6
WATTLETOP FRANKLIN G188	NWPG188	14	83.6	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	18.6	6
BALD BLAIR DAVID G105	NBBG105	15	18.1	10
BANQUET GARRETT G272	VONG272	16	15.8	19
BONNY BROOKE FALCO F32	NUIF32	6	18.5	7
BOONAROO GRAVITY G013	HCAG013	10	17.0	12
BOOROOMOOKA GALILEO G501	NGMG501	12	15.9	18
BURENDA GEIGER COUNTER G49	QBUG49	14	15.3	21
COFFIN CREEK HORATIO H16	NIWH16	9	16.6	15
CUDGEGONG PARK GRANGE G4	DPCG4	10	22.3	2
DWYERS RANGE GATSBY G13	ASRG13	12	16.8	13
IRELANDS GAPSTED G25	VICG25	12	18.2	9
MILLAH MURRAH EVIDENT H105	NMMH105	6	22.7	1
MURRAY UPSHOT H32	NURH32	6	16.2	16
PATHFINDER GENESIS G357	SMPG357	9	16.0	17
RENNYLEA G255	NORG255	22	15.4	20
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	10	16.8	13
TALOOBY GALAXY G121	NPGG121	13	18.3	8
TE WHANGA M14	NZE10752011M14	17	22.3	2
TWYNAM F53	NXTF53	11	19.9	4
WAIRERE YNOT Y0491	NZE13615011491	19	17.4	11
WATTLETOP FRANKLIN G188	NWPG188	13	18.9	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	5
BALD BLAIR DAVID G105	NBBG105	15	14.7	18
BANQUET GARRETT G272	VONG272	16	15.6	15
BONNY BROOKE FALCO F32	NUIF32	6	19.5	1
BOONAROO GRAVITY G013	HCAG013	10	15.3	17
BOOROOMOOKA GALILEO G501	NGMG501	12	14.2	20
BURENDA GEIGER COUNTER G49	QBUG49	14	17.7	7
COFFIN CREEK HORATIO H16	NIWH16	9	12.4	21
CUDGEGONG PARK GRANGE G4	DPCG4	10	18.4	4
DWYERS RANGE GATSBY G13	ASRG13	11	15.9	14
IRELANDS GAPSTED G25	VICG25	12	16.4	13
MILLAH MURRAH EVIDENT H105	NMMH105	6	14.4	19
MURRAY UPSHOT H32	NURH32	5	17.8	6
PATHFINDER GENESIS G357	SMPG357	9	18.8	3
RENNYLEA G255	NORG255	22	17.0	12
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	10	17.2	10
TALOOBY GALAXY G121	NPGG121	13	19.2	2
TE WHANGA M14	NZE10752011M14	17	17.1	11
TWYNAM F53	NXTF53	11	17.7	7
WAIRERE YNOT Y0491	NZE13615011491	19	15.5	16
WATTLETOP FRANKLIN G188	NWPG188	13	17.3	9

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	-3.1	14
BALD BLAIR DAVID G105	NBBG105	15	-3.5	6
BANQUET GARRETT G272	VONG272	16	-4.2	1
BONNY BROOKE FALCO F32	NUIF32	6	-4.0	2
BOONAROO GRAVITY G013	HCAG013	11	-3.4	8
BOOROOMOOKA GALILEO G501	NGMG501	11	-3.7	4
BURENDA GEIGER COUNTER G49	QBUG49	14	-3.3	10
COFFIN CREEK HORATIO H16	NIWH16	8	-3.4	8
CUDGEGONG PARK GRANGE G4	DPCG4	10	-3.7	4
DWYERS RANGE GATSBY G13	ASRG13	11	-3.0	16
IRELANDS GAPSTED G25	VICG25	11	-3.3	10
MILLAH MURRAH EVIDENT H105	NMMH105	7	-3.2	13
MURRAY UPSHOT H32	NURH32	6	-2.8	17
PATHFINDER GENESIS G357	SMPG357	9	-2.5	18
RENNYLEA G255	NORG255	23	-3.5	6
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	11	-2.4	19
TALOOBY GALAXY G121	NPGG121	13	-2.1	20
TE WHANGA M14	NZE10752011M14	16	-3.1	14
TWYNAM F53	NXTF53	10	-2.1	20
WAIRERE YNOT Y0491	NZE13615011491	18	-3.3	10
WATTLETOP FRANKLIN G188	NWPG188	15	-3.9	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	586.8	1
BALD BLAIR DAVID G105	NBBG105	15	580.3	2
BANQUET GARRETT G272	VONG272	16	553.1	4
BONNY BROOKE FALCO F32	NUIF32	6	493.7	14
BOONAROO GRAVITY G013	HCAG013	10	526.1	9
BOOROOMOOKA GALILEO G501	NGMG501	12	461.9	18
BURENDA GEIGER COUNTER G49	QBUG49	14	549.8	5
COFFIN CREEK HORATIO H16	NIWH16	9	394.8	21
CUDGEGONG PARK GRANGE G4	DPCG4	10	532.7	7
DWYERS RANGE GATSBY G13	ASRG13	12	544.1	6
IRELANDS GAPSTED G25	VICG25	12	472.6	17
MILLAH MURRAH EVIDENT H105	NMMH105	6	493.8	13
MURRAY UPSHOT H32	NURH32	6	476.0	16
PATHFINDER GENESIS G357	SMPG357	9	442.3	20
RENNYLEA G255	NORG255	22	561.6	3
STRATHEWEN RED DAIQUIRI H40 (RED)	VSNH40	10	504.7	12
TALOOBY GALAXY G121	NPGG121	13	487.4	15
TE WHANGA M14	NZE10752011M14	17	448.0	19
TWYNAM F53	NXTF53	11	510.9	11
WAIRERE YNOT Y0491	NZE13615011491	19	519.4	10
WATTLETOP FRANKLIN G188	NWPG188	14	527.7	8

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 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 (RED)	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 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 (RED)	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: 8 - Claw Set (Score)

Sire Name	Sire ID	Number of Progeny	Progeny % Score 5-6	Rank
AJC L172	NXOL172	33	36.4	30
ALLOURA LOCK STOCK & BARREL L94	DGJL94	10	40.0	28
BEN NEVIS JUDO J158	NBNJ158	5	60.0	12
BOOROOMOOKA LEROY L173	NGML173	25	44.0	25
BRIDGEWATER STIMULUS K65	BONK065	24	79.2	2
BROOKLANA INFINITY L39	AMQL39	25	52.0	18
CHILTERN PARK MARBLES M3	GTNM3	23	69.6	8

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:

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

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 structure of optimal score for front foot claw set.

Foot 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 structure of optimal score 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 - 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 - Foot 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)

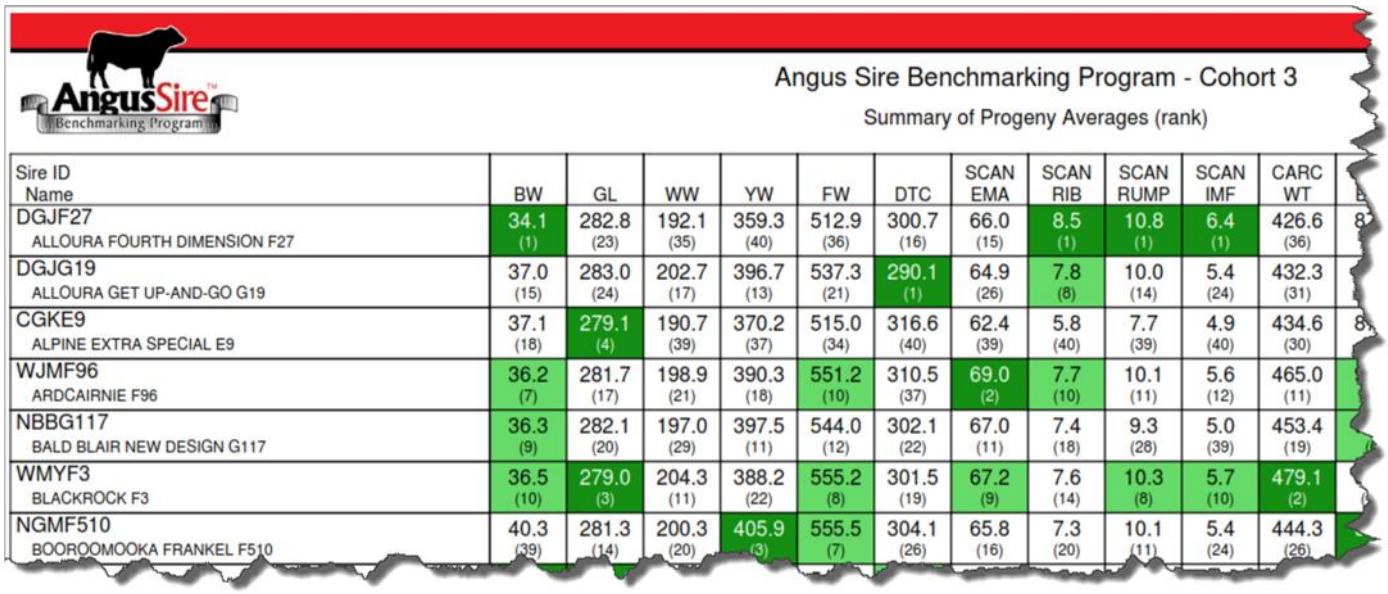
Sire Name	Sire ID	Number of Progeny	Progeny % Score 1-2	Rank
ALLOURA GET CRACKING G10	DGJG10	32	28.1	14
BALD BLAIR DAVID G105	NBBG105	33	45.5	5
BANQUET GARRETT G272	VONG272	26	26.9	15
BONNY BROOKE FALCO F32	NUIF32	14	7.1	21
BOONAROO GRAVITY G013	HCAG013	24	37.5	8
BOOROOMOOKA GALILEO G501	NGMG501	24	16.7	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 of 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 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	E
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 = 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 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 (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. 34.1 (1)
- Rank 6 to 10 (light green with black text). E.g. 36.5 (10)

The definition of the traits are detailed in the previous section of this report titled "*Understanding 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	CLAW	ANGLE	CT
DGJG10 ALLOURA GET CRACKING G10	31.1 (3)	280.7 (19)	198.7 (19)	329.0 (12)	493.8 (19)	292.9 (1)	65.3 (3)	7.1 (2)	8.7 (13)	6.1 (2)	392.1 (17)	86.1 (4)		-3.1 (14)	586.8 (1)	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 (13)	279.1 (13)	204.9 (13)	332.2 (6)	507.9 (14)	314.8 (16)	62.4 (14)	6.4 (13)	9.6 (8)	5.7 (4)	369.8 (21)	84.9 (8)		-3.5 (6)	580.3 (2)	146.0 (10)	64.9 (11)	41.7 (15)	78.8 (11)	84.8 (21)	45.5 (5)
VONG272 BANQUET GARRETT G272	32.4 (10)	280.8 (20)	207.6 (8)	331.5 (8)	531.1 (3)	323.8 (20)	61.3 (18)	5.5 (20)	7.8 (18)	5.1 (20)	392.5 (16)	81.9 (16)		-4.2 (1)	553.1 (4)	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)	281.2 (21)	207.3 (10)	314.0 (20)	507.2 (16)	315.7 (17)	60.8 (20)	8.7 (1)	11.1 (1)	6.2 (1)	393.6 (15)	77.6 (21)		-4.0 (2)	493.7 (14)	149.3 (15)	64.3 (16)	47.6 (13)	100.0 (1)	100.0 (1)	7.1 (21)
HCAG013 BOONAROO GRAVITY G013	31.5 (4)	277.2 (5)	209.3 (5)	330.7 (9)	520.8 (6)	301.0 (3)	63.6 (5)	6.4 (13)	8.8 (12)	5.4 (15)	403.6 (12)	86.1 (4)		-3.4 (8)	526.1 (9)	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)	275.8 (1)	206.6 (12)	332.3 (5)	520.1 (7)	299.6 (2)	63.1 (9)	6.5 (12)	9.4 (9)	5.5 (11)	418.4 (4)	81.0 (18)		-3.7 (4)	461.9 (18)	163.9 (21)	63.8 (20)	68.0 (4)	70.8 (15)	87.5 (18)	16.7 (18)
QBUG49 BURENDA GEIGER COUNTER G49	31.8 (5)	278.2 (10)	199.1 (17)	324.5 (15)	511.6 (12)	305.1 (7)	62.1 (16)	6.3 (16)	8.5 (15)	5.7 (4)	395.9 (13)	81.3 (17)		-3.3 (10)	549.8 (5)	138.9 (4)	65.5 (3)	65.4 (6)	60.9 (18)	87.0 (19)	39.1 (6)
NIWH16 COFFIN CREEK HORATIO H16	33.2 (16)	277.3 (6)	214.1 (2)	328.1 (13)	515.5 (9)	312.8 (14)	63.0 (10)	5.1 (21)	7.8 (18)	4.9 (21)	387.8 (18)	78.8 (20)		-3.4 (8)	394.8 (21)	139.9 (5)	62.6 (21)	65.0 (7)	33.3 (21)	93.3 (16)	13.3 (20)
DPCG4 CUDGEGONG PARK GRANGE G4	31.8 (5)	280.2 (18)	204.0 (14)	312.1 (21)	507.5 (15)	305.3 (8)	63.2 (6)	6.7 (6)	10.3 (2)	5.5 (11)	394.2 (14)	82.6 (13)		-3.7 (4)	532.7 (7)	135.3 (1)	65.5 (3)	39.1 (16)	89.5 (4)	100.0 (1)	47.4 (4)
ASRG13 DWYERS RANGE GATSBY G13	33.5 (19)	276.8 (3)	207.6 (8)	331.7 (7)	514.2 (10)	303.7 (5)	62.9 (11)	6.2 (18)	8.1 (16)	5.6 (10)	406.5 (11)	84.6 (9)		-3.0 (16)	544.1 (6)	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)	278.8 (11)	207.8 (7)	338.4 (3)	531.2 (2)	311.4 (12)	65.1 (4)	6.4 (13)	9.8 (5)	5.7 (4)	412.5 (7)	84.3 (10)		-3.3 (10)	472.6 (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)	280.0 (17)	215.0 (1)	335.8 (4)	527.3 (5)	311.2 (11)	66.0 (1)	6.7 (6)	9.3 (10)	5.5 (11)	426.4 (2)	89.1 (1)		-3.2 (13)	493.8 (13)	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)	279.7 (16)	199.4 (16)	323.7 (16)	492.0 (20)	340.1 (21)	62.9 (11)	6.7 (6)	6.4 (21)	5.3 (17)	406.9 (10)	82.1 (15)		-2.8 (17)	476.0 (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)	275.9 (2)	211.5 (4)	339.3 (2)	529.0 (4)	322.1 (19)	63.2 (6)	7.1 (2)	9.3 (10)	5.5 (11)	428.7 (1)	88.4 (2)		-2.5 (18)	442.3 (20)	137.2 (2)	65.0 (9)	70.8 (2)	73.7 (12)	94.7 (11)	31.6 (12)
NORG255 RENNYLEA G255	32.0 (7)	278.9 (12)	201.7 (15)	330.3 (10)	517.6 (8)	314.2 (15)	63.2 (6)	6.6 (11)	8.0 (17)	5.8 (3)	420.0 (3)	85.0 (7)		-3.5 (6)	561.6 (3)	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)	277.3 (6)	199.1 (17)	329.7 (11)	500.1 (17)	311.8 (13)	62.2 (15)	6.3 (16)	8.6 (14)	5.7 (4)	386.7 (19)	84.0 (11)		-2.4 (19)	504.7 (12)	150.8 (16)	64.3 (16)	72.7 (1)	63.2 (17)	94.7 (11)	36.8 (10)
VSNH40 STRATHEWEN RED DAIQUIRI H40 (RED)	29.5 (1)	277.3 (6)	199.1 (17)	329.7 (11)	500.1 (17)	311.8 (13)	62.2 (15)	6.3 (16)	8.6 (14)	5.7 (4)	386.7 (19)	84.0 (11)		-2.4 (19)	504.7 (12)	150.8 (16)	64.3 (16)	72.7 (1)	63.2 (17)	94.7 (11)	36.8 (10)
NPGG121 TALOOBY GALAXY G121	32.5 (11)	279.5 (15)	197.0 (21)	315.8 (19)	497.2 (18)	302.6 (4)	60.0 (21)	6.9 (4)	9.7 (6)	5.3 (17)	407.0 (9)	79.9 (19)		-2.1 (20)	487.4 (15)	138.5 (3)	65.1 (7)	38.5 (17)	87.5 (5)	95.8 (7)	25.0 (16)
NZE10752011M14 TE WHANGA M14	32.7 (12)	279.3 (14)	208.7 (6)	318.8 (18)	509.7 (13)	310.8 (10)	61.1 (19)	6.7 (6)	10.0 (4)	5.3 (17)	412.2 (8)	82.3 (14)		-3.1 (14)	448.0 (19)	151.1 (17)	63.9 (19)	70.6 (3)	100.0 (1)	100.0 (1)	29.6 (13)
NXTF53 TWYNAM F53	33.4 (17)	277.6 (8)	207.3 (10)	326.3 (14)	513.5 (11)	304.9 (6)	62.8 (13)	6.7 (6)	9.7 (6)	5.7 (4)	414.6 (6)	88.1 (3)		-2.1 (20)	510.9 (11)	146.2 (11)	65.1 (7)	66.7 (5)	72.2 (14)	88.9 (17)	50.0 (2)
NZE13615011491 WAIRERE YNOT Y0491	32.2 (9)	277.6 (8)	198.0 (20)	321.9 (17)	491.6 (21)	305.8 (9)	62.0 (17)	5.7 (19)	7.7 (20)	5.4 (15)	380.3 (20)	85.3 (6)		-3.3 (10)	519.4 (10)	143.5 (7)	64.4 (15)	25.8 (21)	84.6 (7)	96.2 (6)	38.5 (7)
NWPG188 WATTLETOP FRANKLIN G188	32.0 (7)	277.0 (4)	213.1 (3)	349.2 (1)	536.9 (1)	321.7 (18)	65.5 (2)	6.8 (5)	10.2 (3)	5.7 (4)	416.1 (5)	83.6 (12)		-3.9 (3)	527.7 (8)	145.5 (9)	65.4 (5)	54.5 (9)	66.7 (16)	94.4 (13)	16.7 (18)