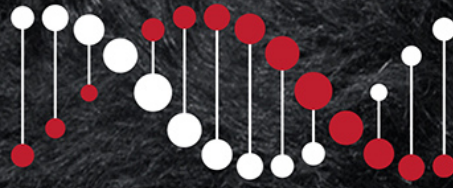


TACE



TransTasman Angus Cattle Evaluation

GENETIC BENCHMARKING REPORT

Angus Australia

MID MARCH 2025

<u>Report</u>	<u>Page</u>
Genetic Progress - Summary	1
Genetic Progress - Relative Change in each Trait	2
Genetic Progress - By Trait	3
Use of Reproductive Technologies	12
Generation Length - Sire and Dam Age	13
Genetic Diversity - Inbreeding	14
Genetic Conditions - Carrier Frequency By Register	15
Appendix 2 - Breed Genetic Trends	16

Genetic Progress Summary

2018 to 2023

Date: March 18, 2025

Page: 1

This report assesses the change in the average EBVs of Angus seedstock animals across the nominated five year period.

Trait	Units	Breed	
		Change	Av. Change / Yr
Calving Ease Direct	%	+1.2	+0.2
Calving Ease Daughters	%	+1.3	+0.3
Gestation Length	days	-0.9	-0.2
Birth Weight	kg	-0.3	-0.1
200 Day Growth	kg	+5.0	+1.0
400 Day Weight	kg	+9.3	+1.9
600 Day Weight	kg	+11.0	+2.2
Mature Cow Weight	kg	+7.9	+1.6
Mature Body Condition	score	+0.0	+0.0
Mature Cow Height	cm	-0.2	+0.0
Milk	kg	+1.2	+0.2
Scrotal Size	cm	+0.4	+0.1
Days to Calving	days	-0.4	-0.1
Carcase Weight	kg	+6.8	+1.4
Carcase EMA	cm.sq	+1.1	+0.2
Carcase Rib Fat	mm	+0.2	+0.0
Carcase Rump Fat	mm	+0.1	+0.0
Retail Beef Yield	%	-0.1	+0.0
Carcase IMF	%	+0.6	+0.1
Docility	%	+2.9	+0.6
NFI-F	%	+0.1	+0.0
Claw Set	score	+0.0	+0.0
Foot Angle	score	+0.0	+0.0
Leg Angle	score	+0.0	+0.0
Angus Breeding (\$A)	\$	+27.2	+5.4
Domestic (\$D)	\$	+22.3	+4.5
Heavy Grain (\$GN)	\$	+37.9	+7.6
Heavy Grass(\$GS)	\$	+27.8	+5.6
Angus Breeding Low Feed Cost (\$A-L)	\$	+42.7	+8.5
Domestic Low Feed Cost (\$D-L)	\$	+36.5	+7.3
Heavy Grain Low Feed Cost (\$GN-L)	\$	+54.2	+10.8
Heavy Grass Low Feed Cost (\$GS-L)	\$	+49.1	+9.8
AngusPRO (\$PRO)	\$	+28.3	+5.7
Angus Terminal Sire (\$T)	\$	+22.8	+4.6

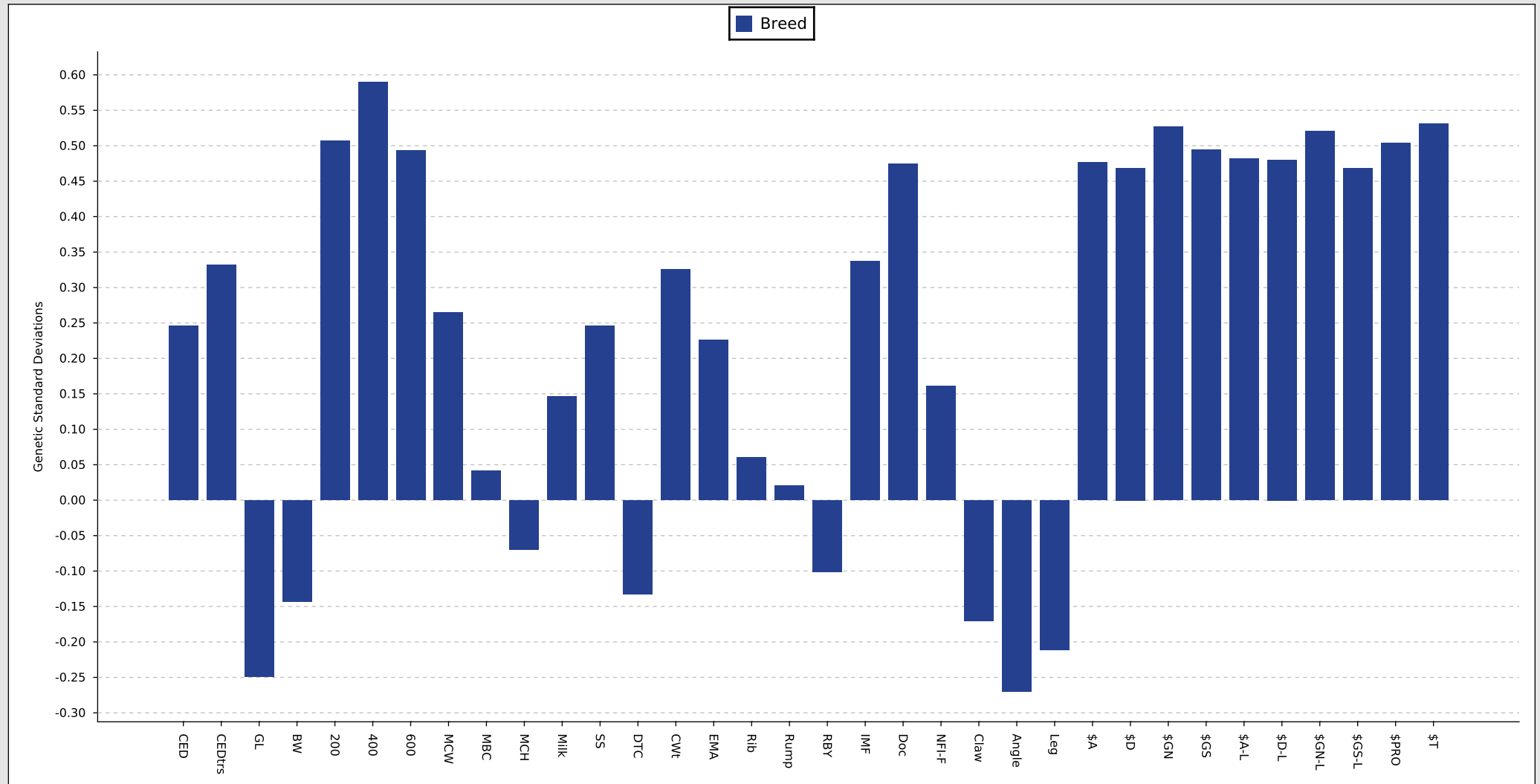
Genetic Progress Summary

Date: March 18, 2025

Relative Change in Each Trait - 2018 to 2023

Page: 2

This report assesses the change in the average EBVs of Angus seedstock animals across the nominated five year period in standard deviation units (rather than the units of measurement), enabling comparison of the relative change that has occurred in individual traits.



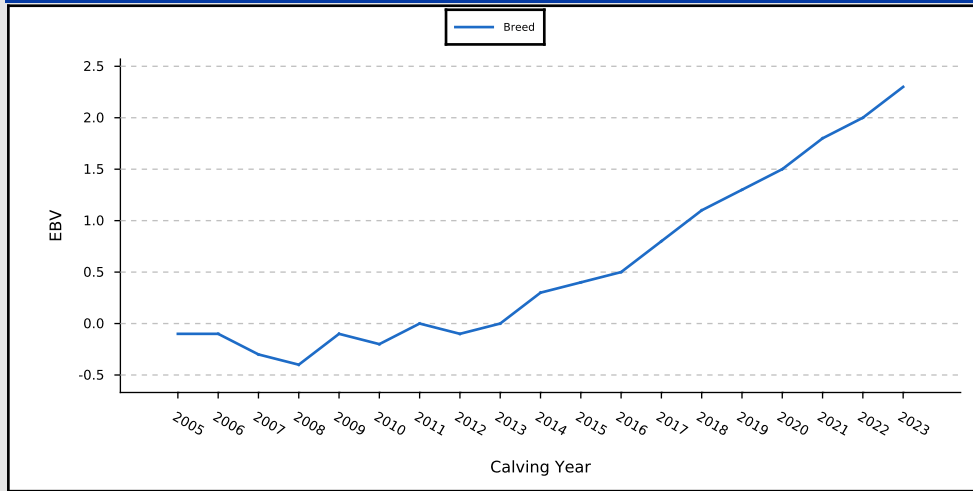
Genetic Progress By Trait

Date: March 18, 2025

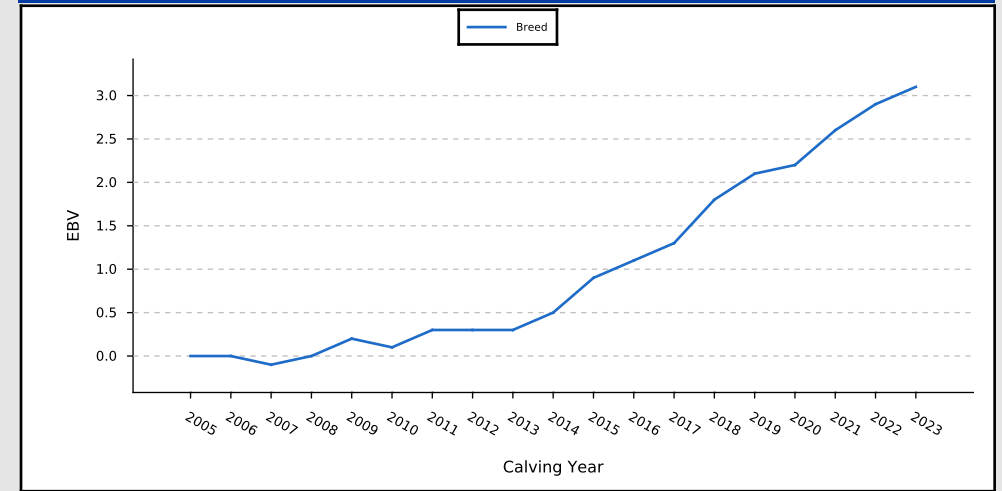
Page: 3

The reports below assess the change in the average EBVs of Angus seedstock animals born in each year for each respective trait.

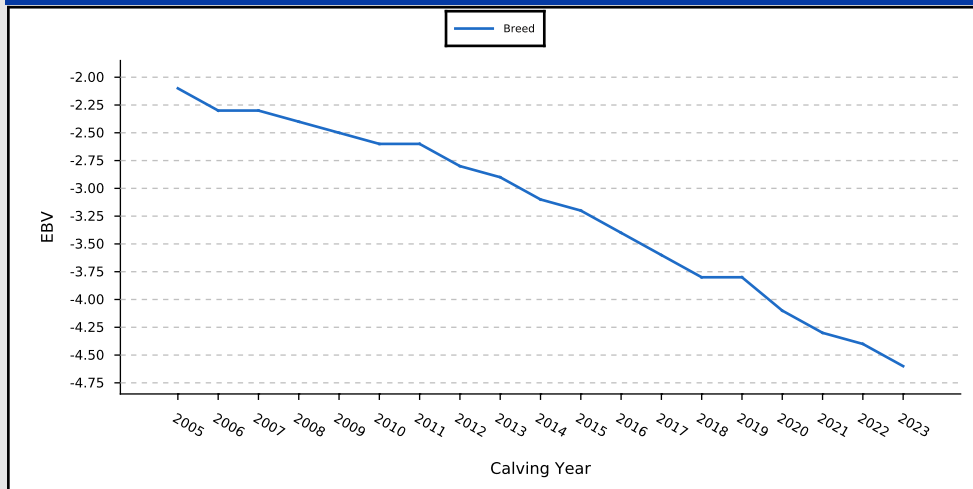
Calving Ease Direct (%)



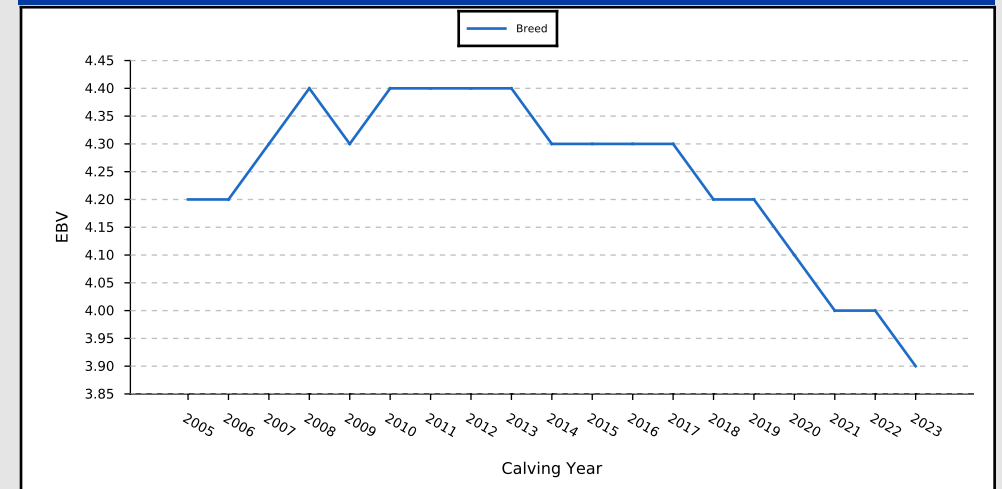
Calving Ease Daughters (%)



Gestation Length (days)



Birth Weight (kg)



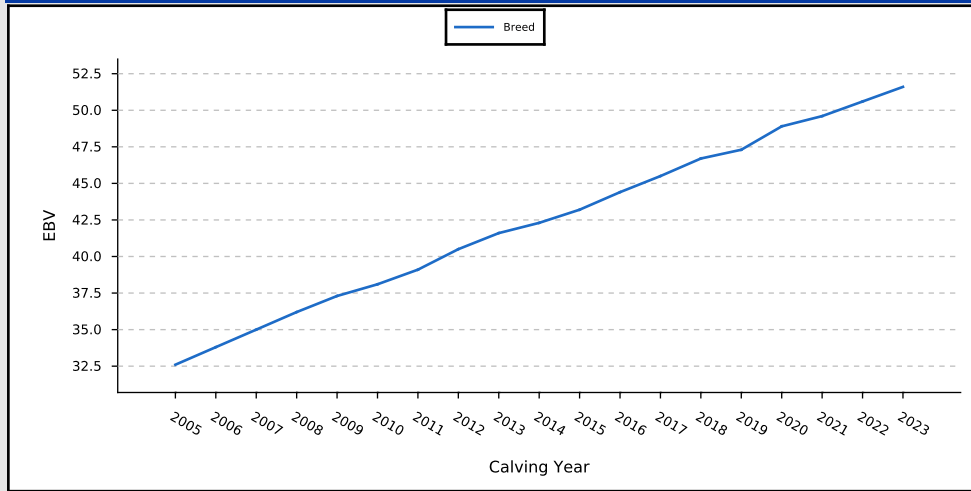
Genetic Progress By Trait

Date: March 18, 2025

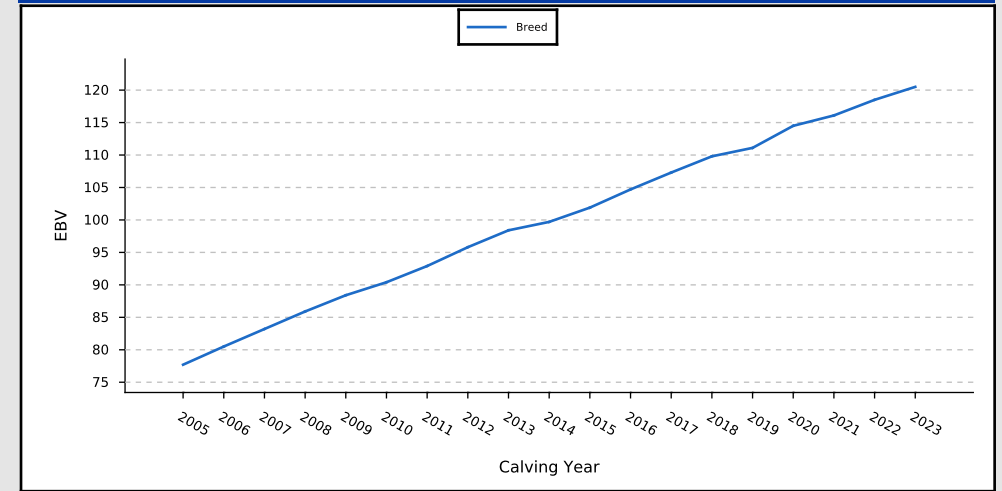
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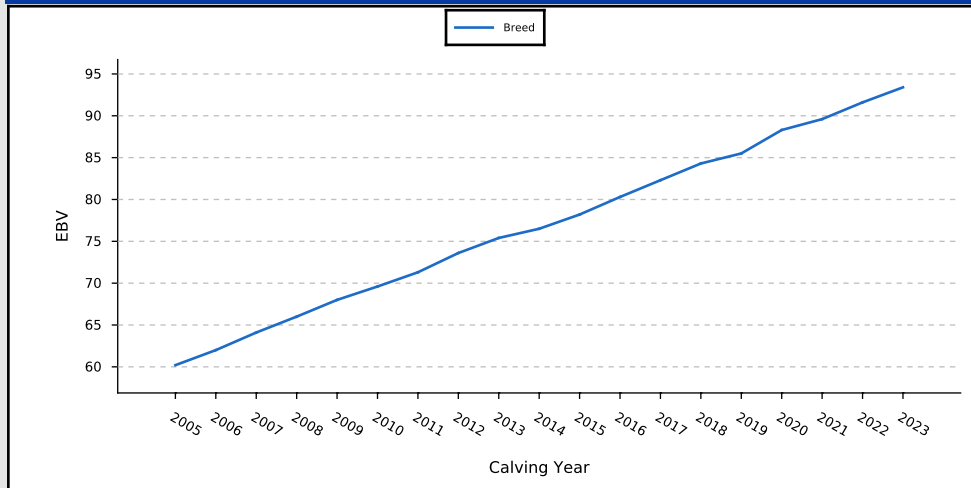
200 Day Growth (kg)



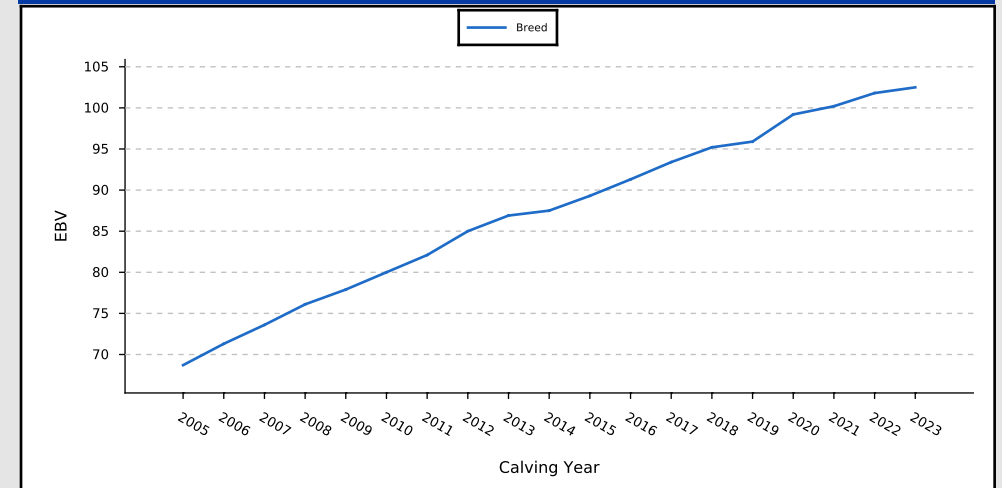
600 Day Weight (kg)



400 Day Weight (kg)



Mature Weight (kg)



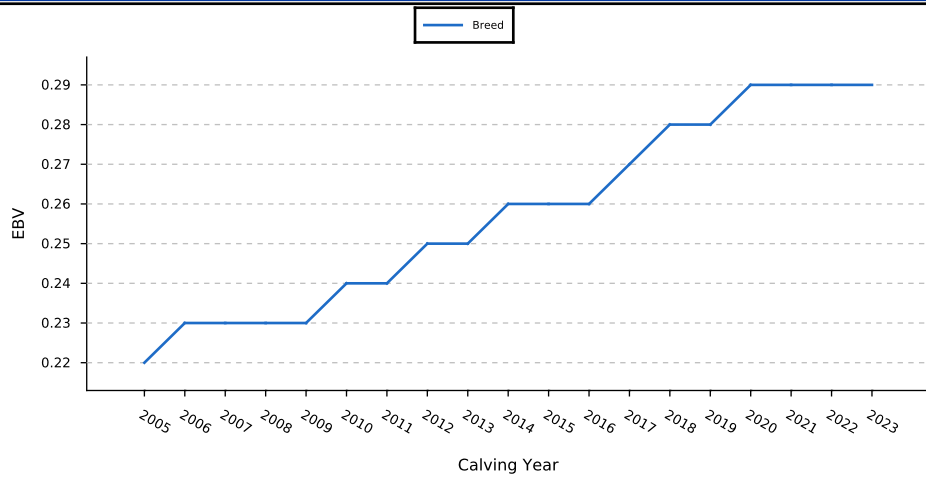
Genetic Progress By Trait

Date: March 18, 2025

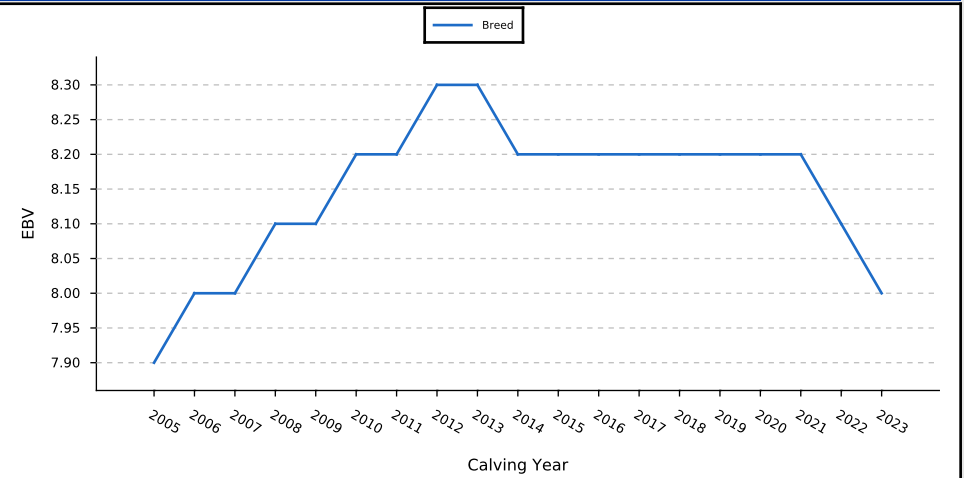
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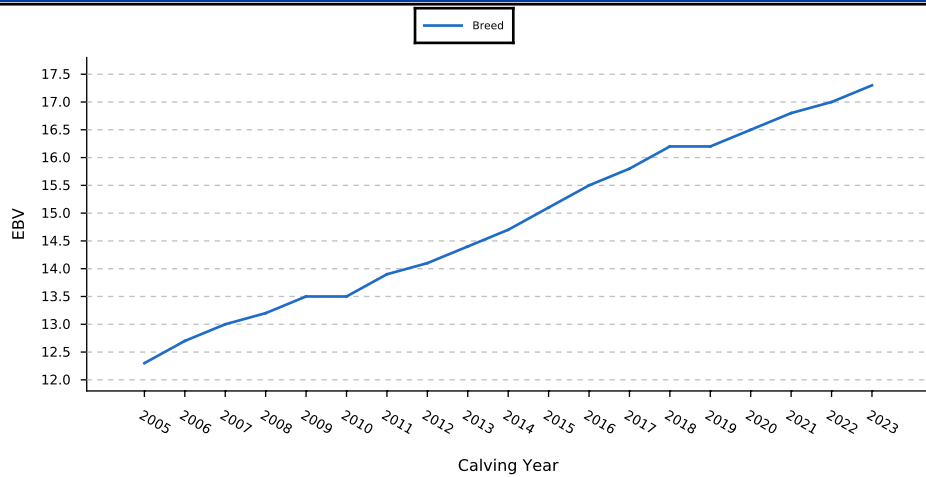
Mature Body Condition (score)



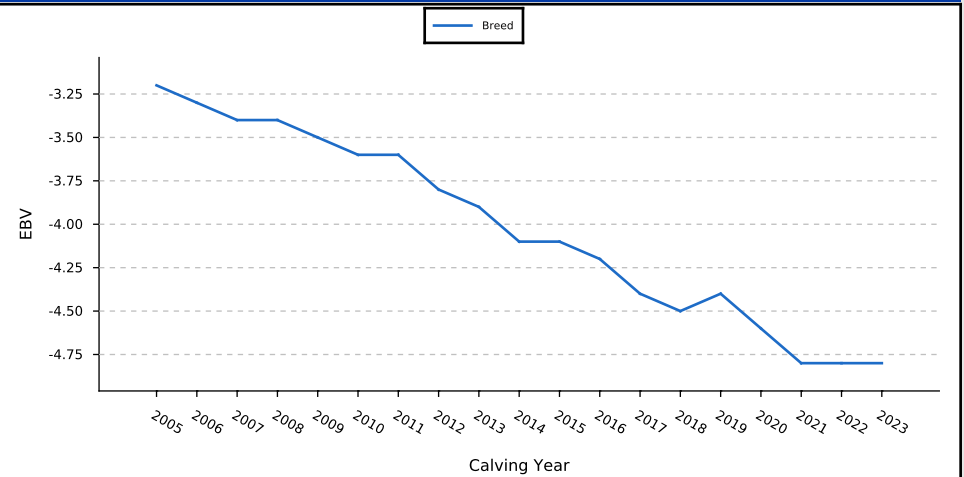
Mature Cow Height (cm)



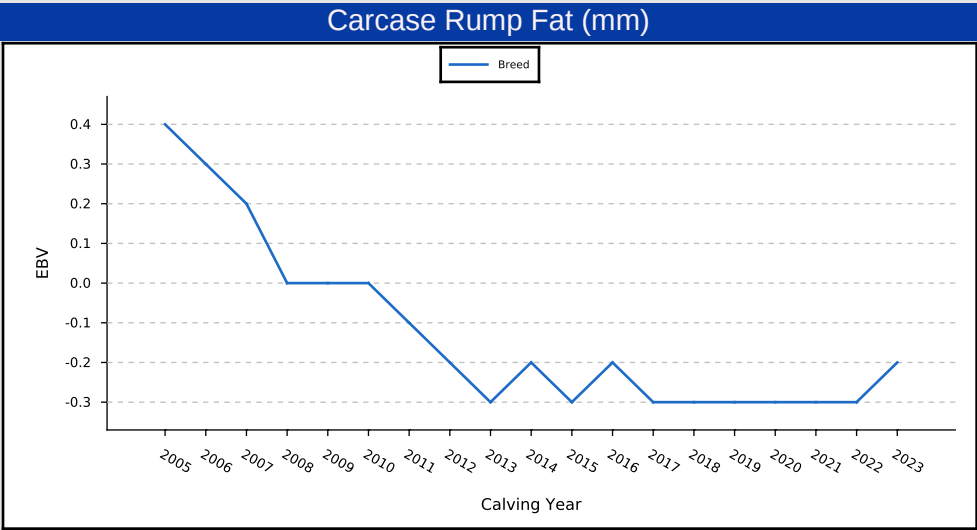
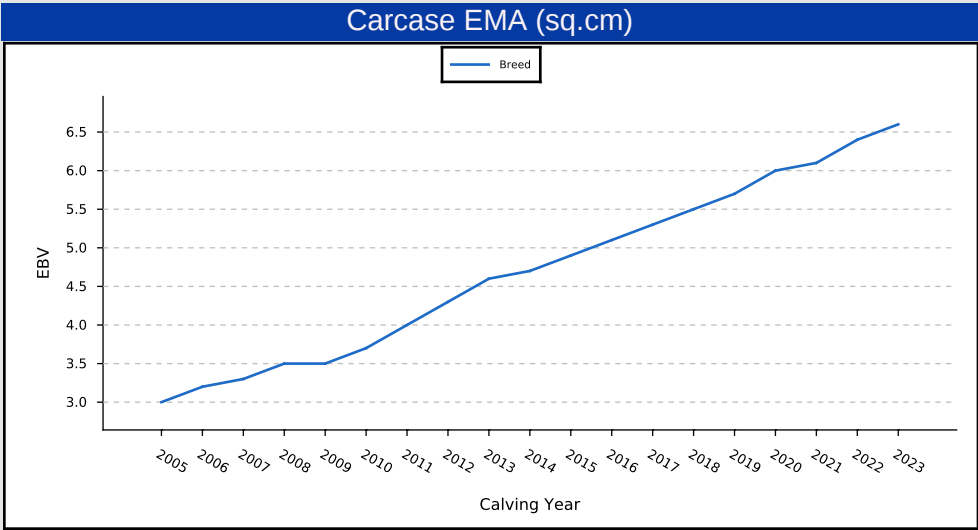
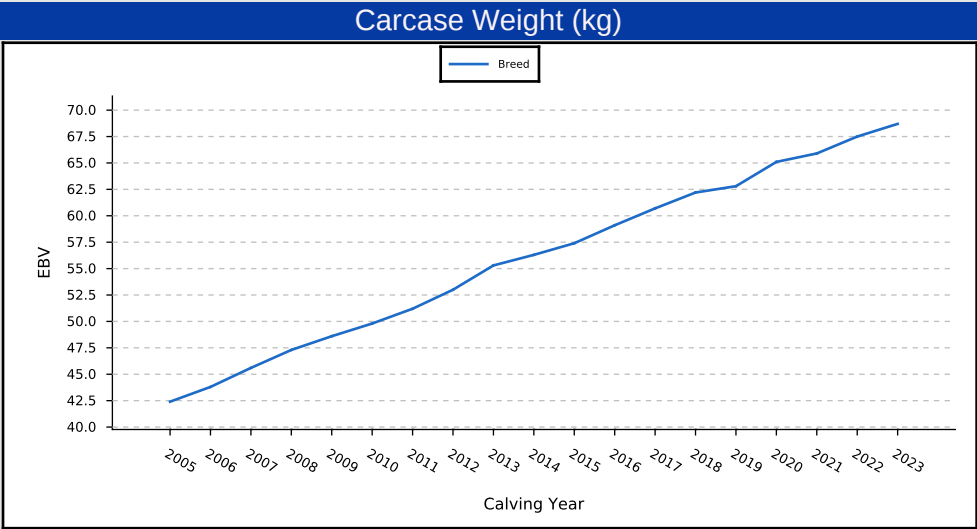
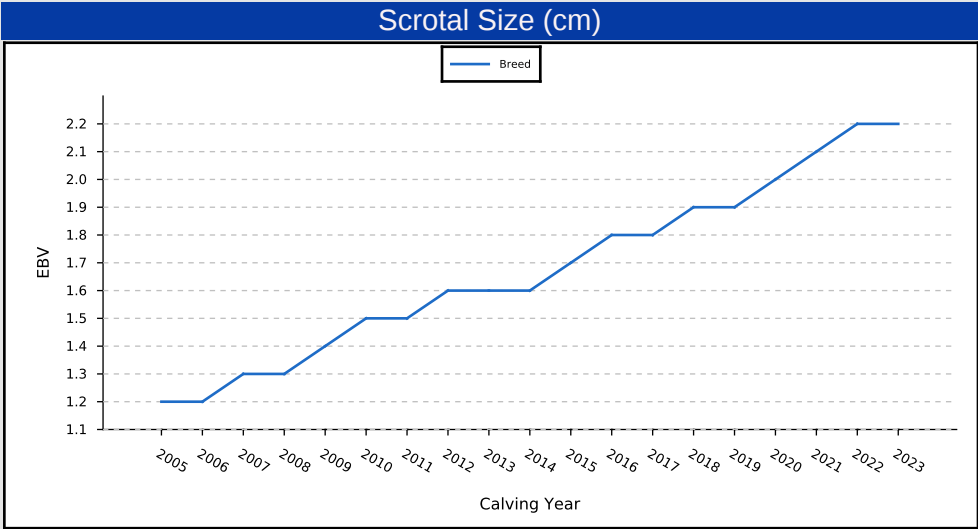
200 Day Milk (kg)



Days to Calving (days)



The reports below assess the change in the average EBVs of Angus seedstock animals born in each year for each respective trait.



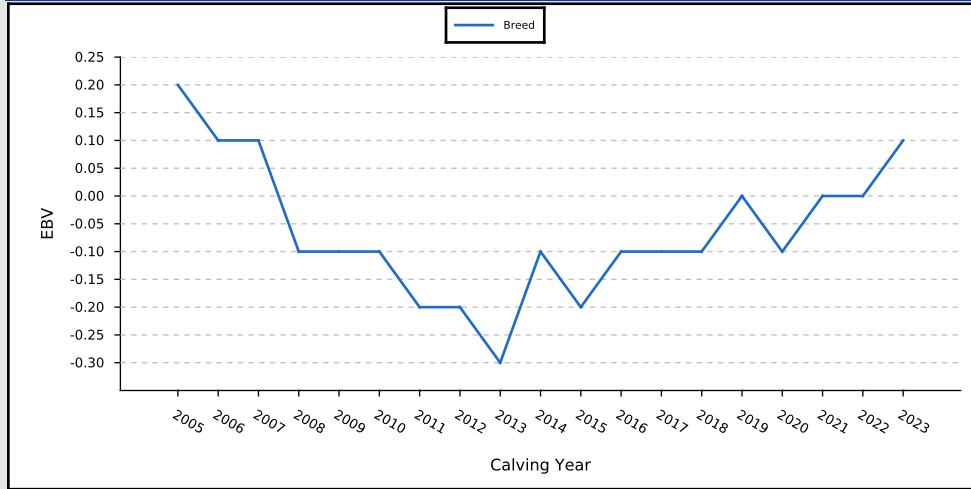
Genetic Progress By Trait

Date: March 18, 2025

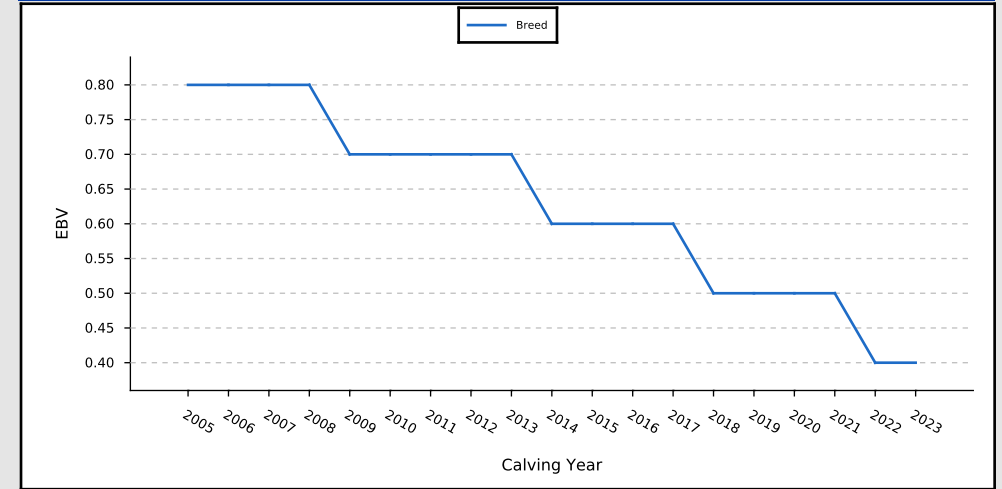
Page: 7

The reports below assess the change in the average EBVs of Angus seedstock animals born in each year for each respective trait.

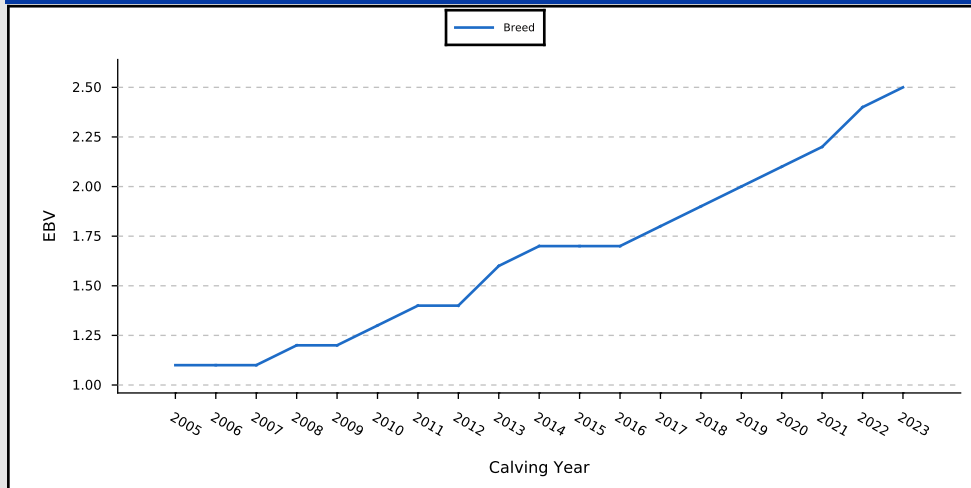
Carcase Rib Fat (mm)



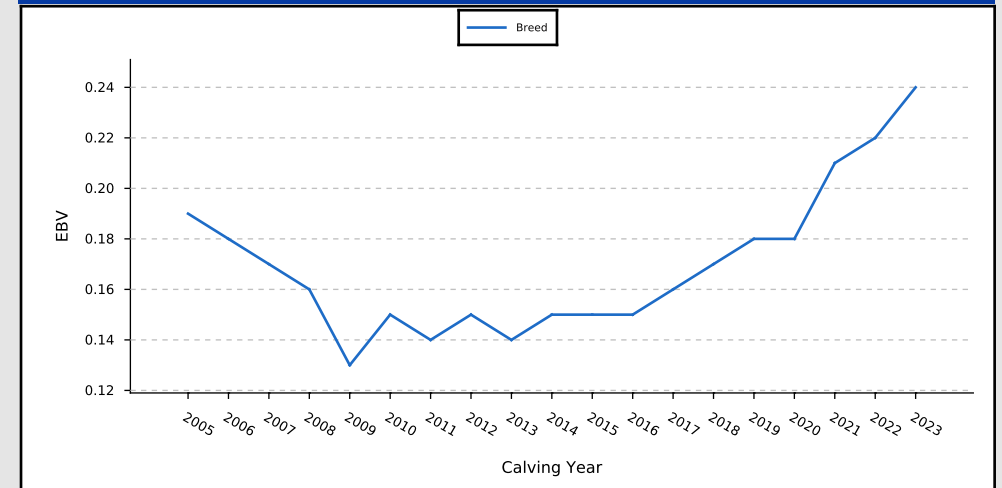
Carcase RBV (%)



Carcase IMF (%)



NFI_F (kg/day)



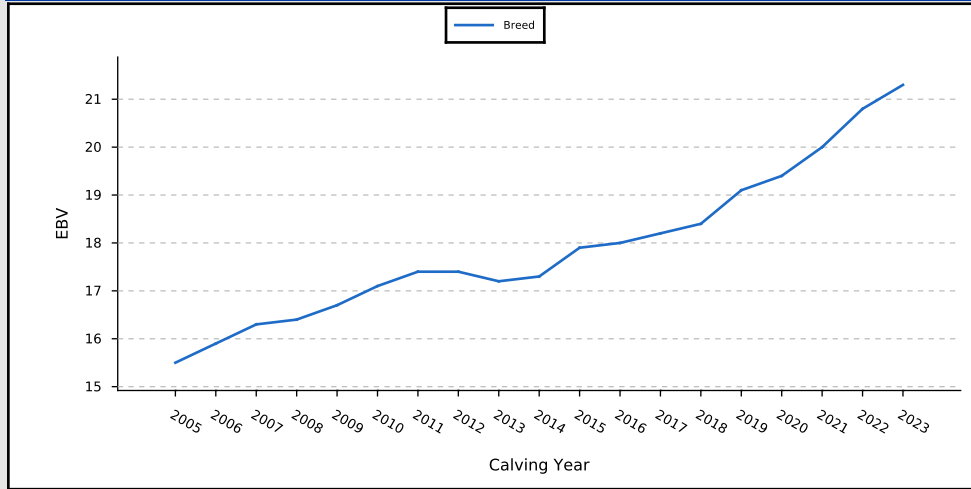
Genetic Progress By Trait

Date: March 18, 2025

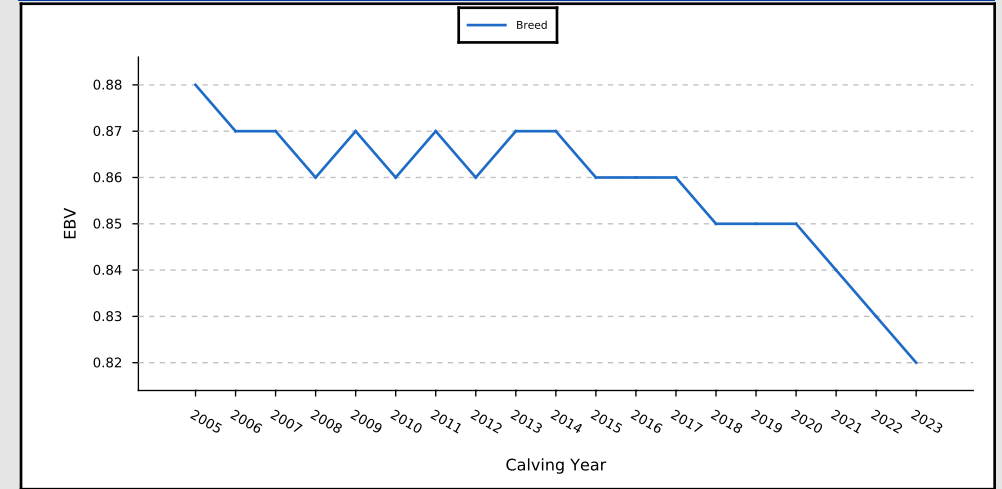
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The reports below assess the change in the average EBVs of Angus seedstock animals born in each year for each respective trait.

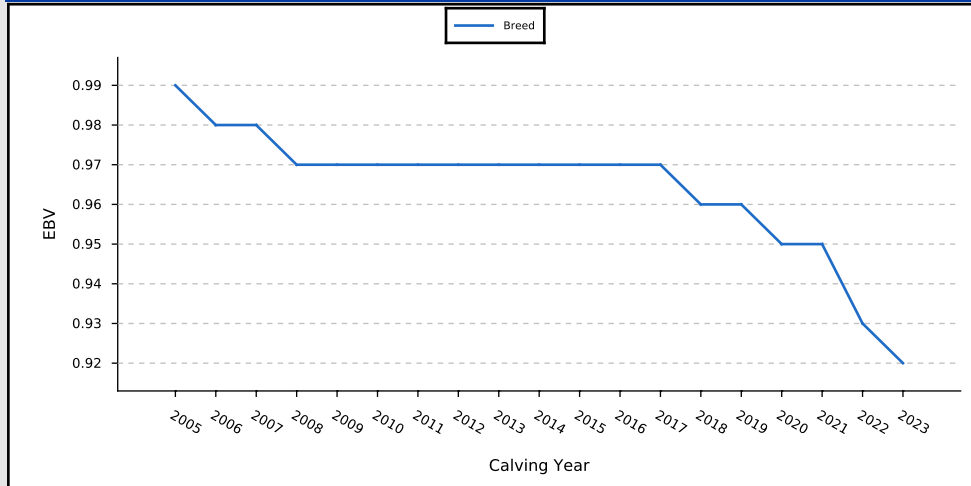
Docility (%)



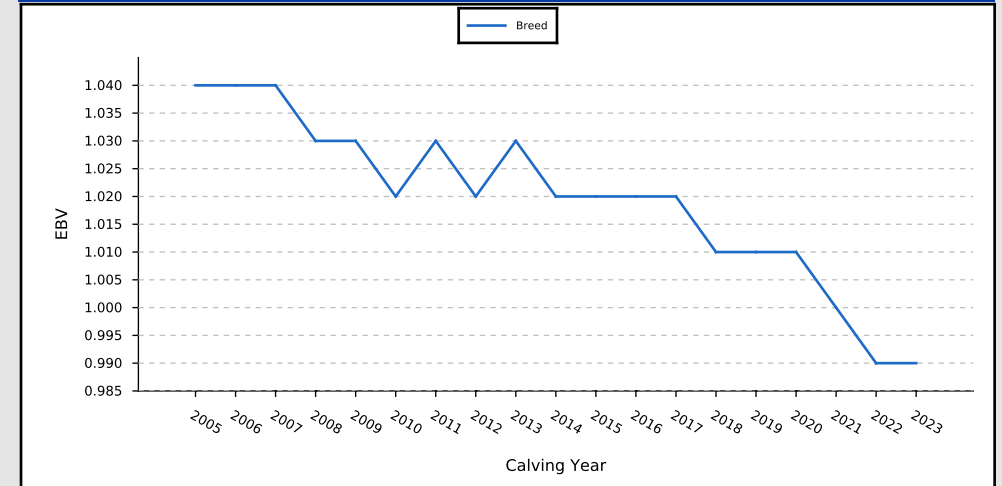
Claw Set (score)



Foot Angle (score)



Leg Angle (score)



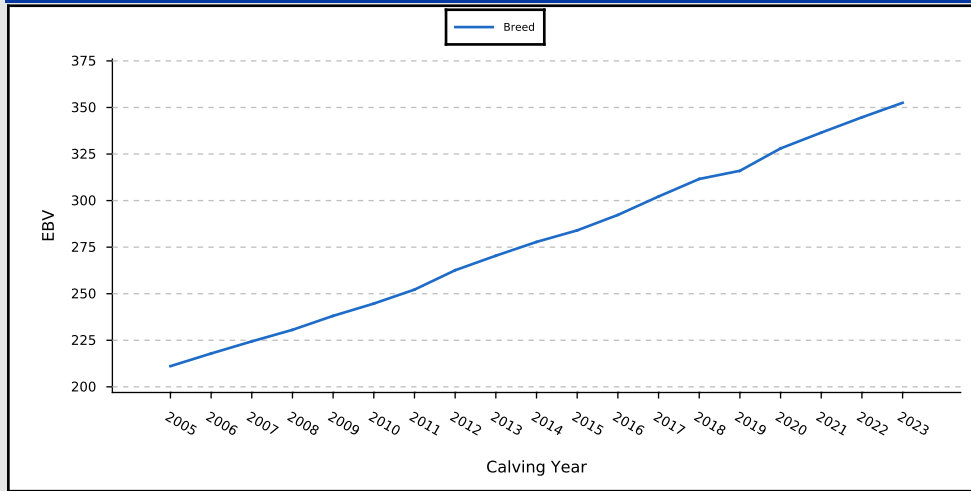
Genetic Progress By Trait

Date: March 18, 2025

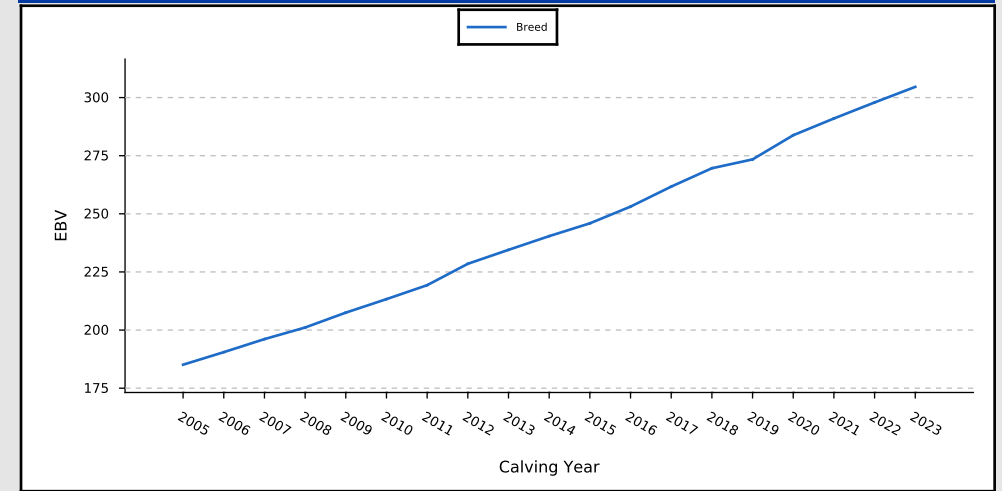
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The reports below assess the change in the average EBVs of Angus seedstock animals born in each year for each respective trait.

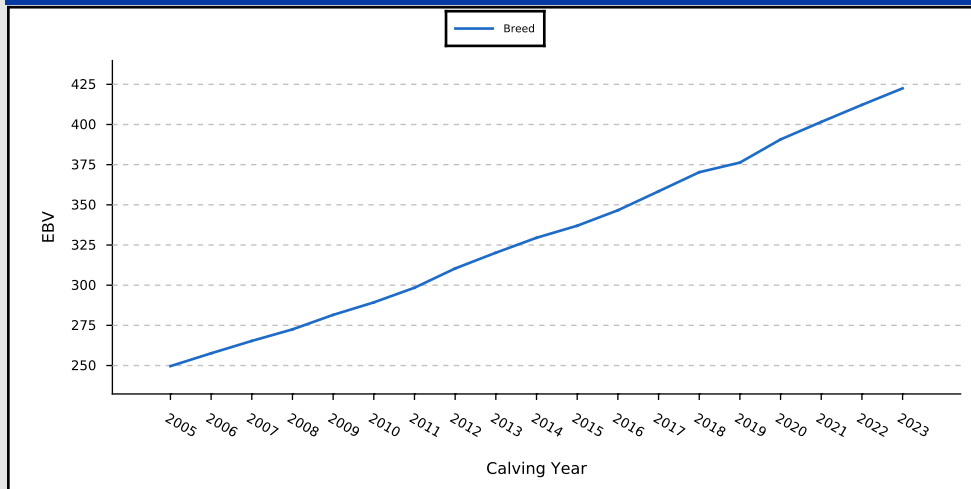
Angus Breeding Low Feed Cost (\$A-L)



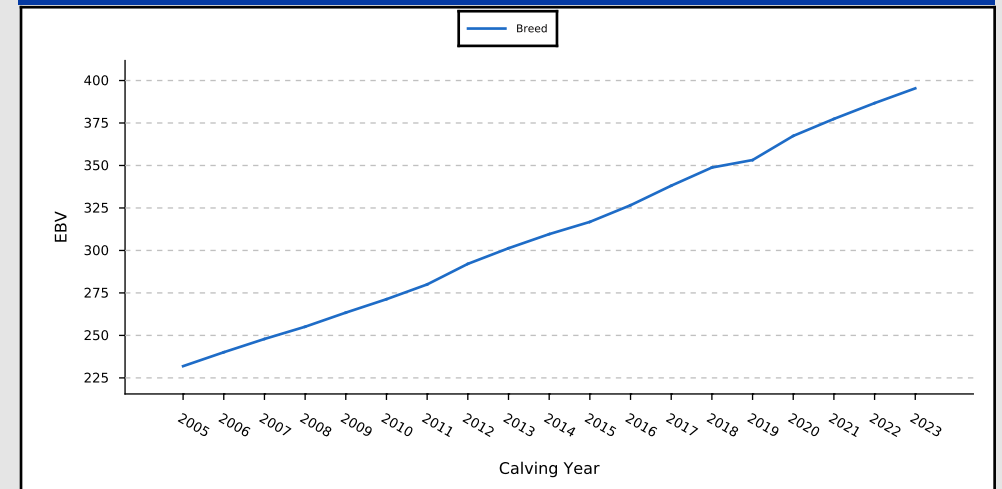
Domestic Low Feed Cost (\$D-L)



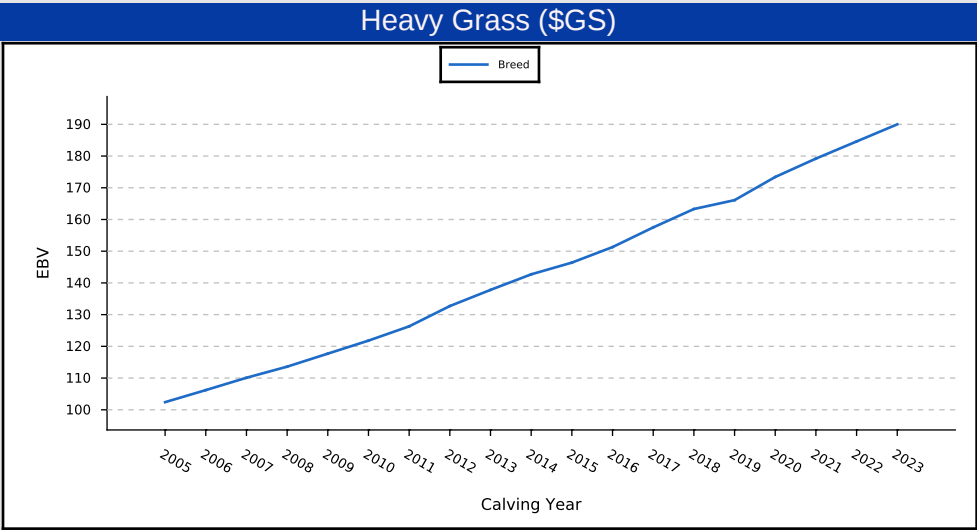
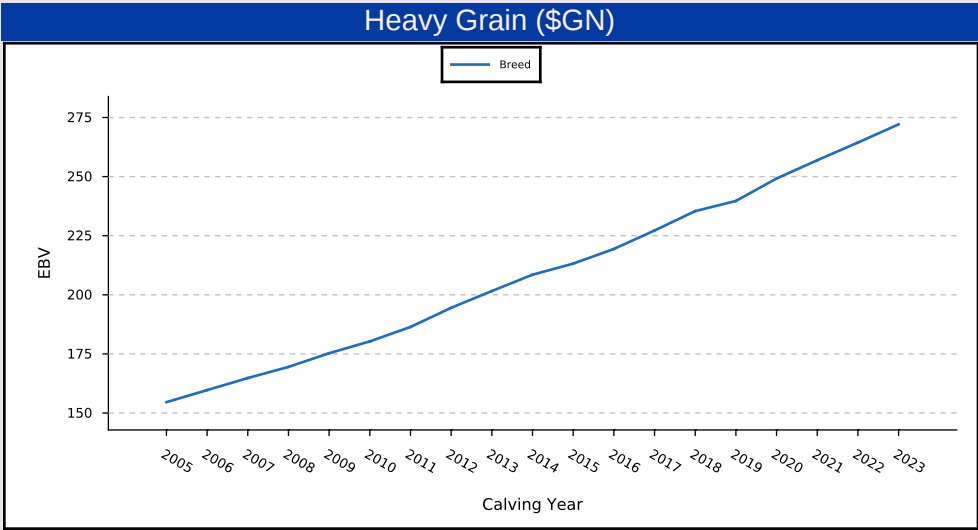
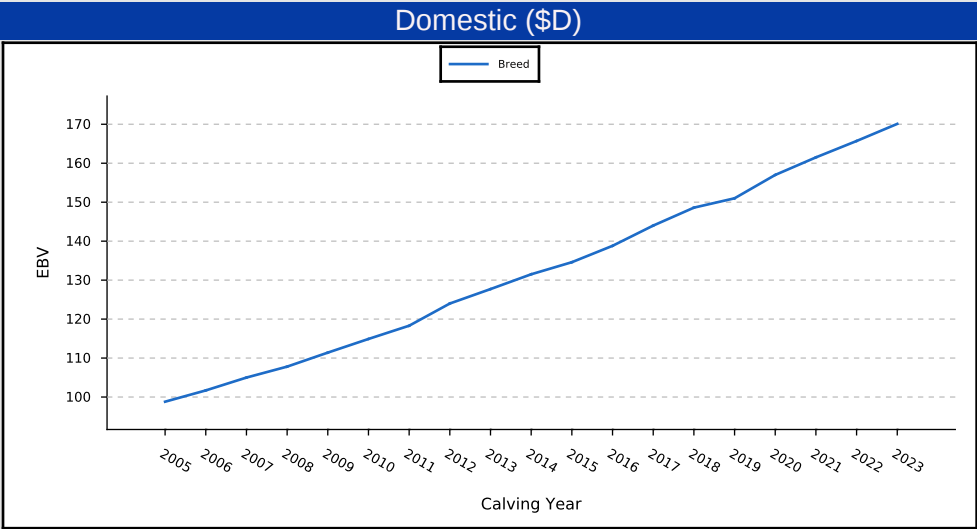
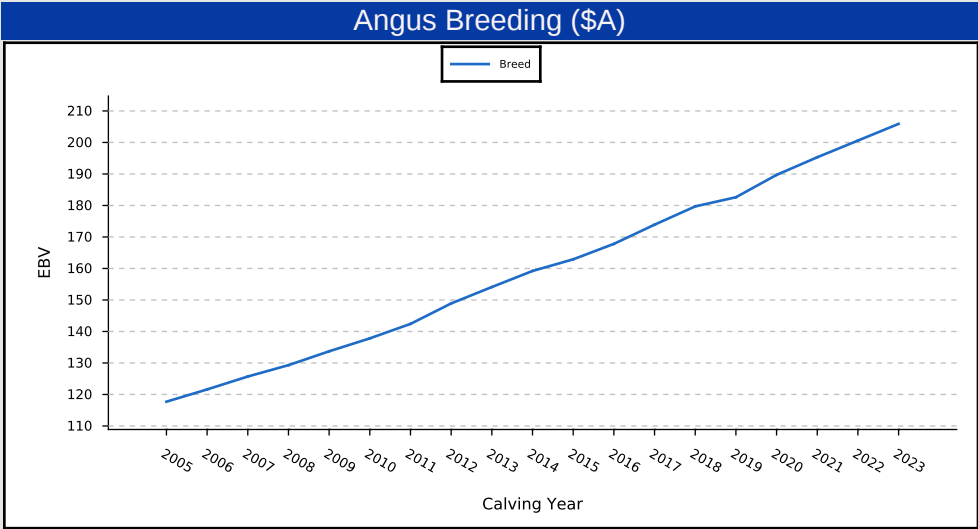
Heavy Grain Low Feed Cost (\$GN-L)



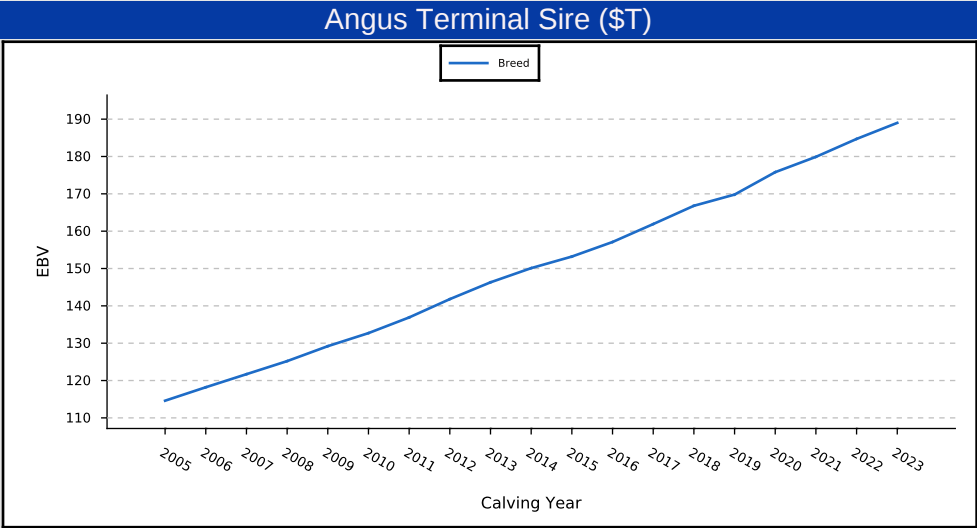
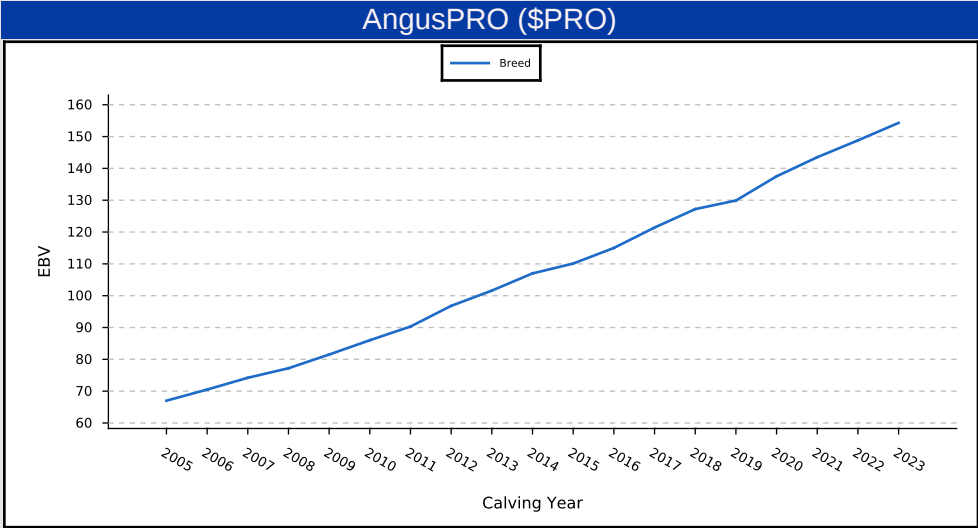
Heavy Grass Low Feed Cost (\$GS-L)



The reports below assess the change in the average EBVs of Angus seedstock animals born in each year for each respective trait.

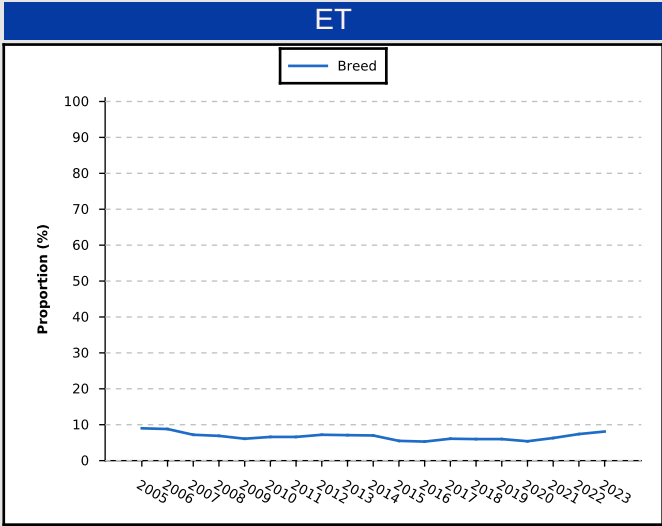
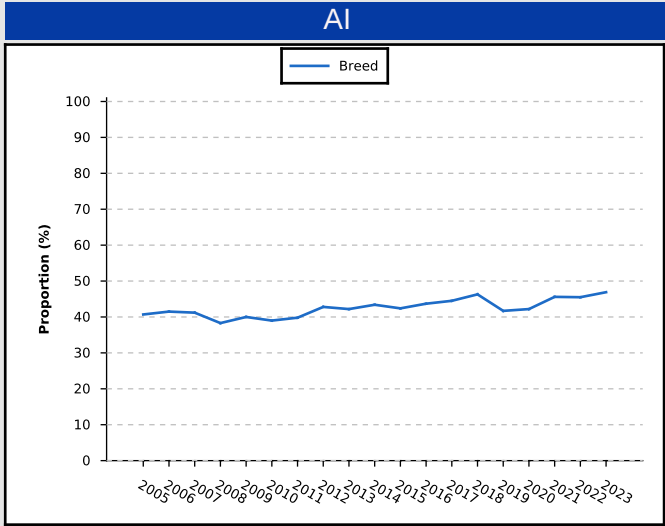
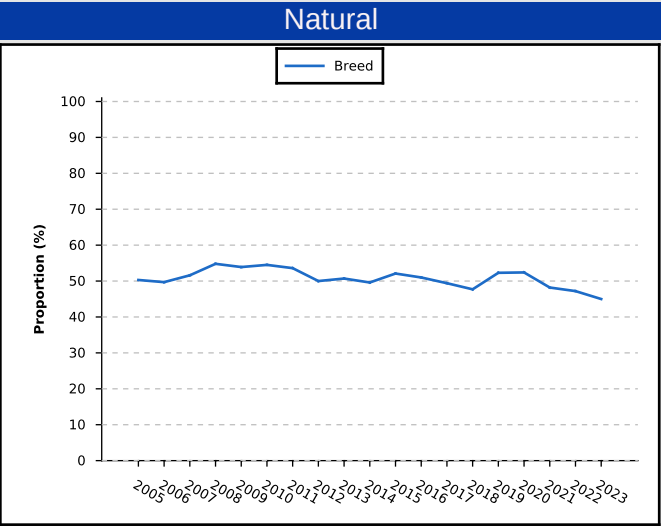
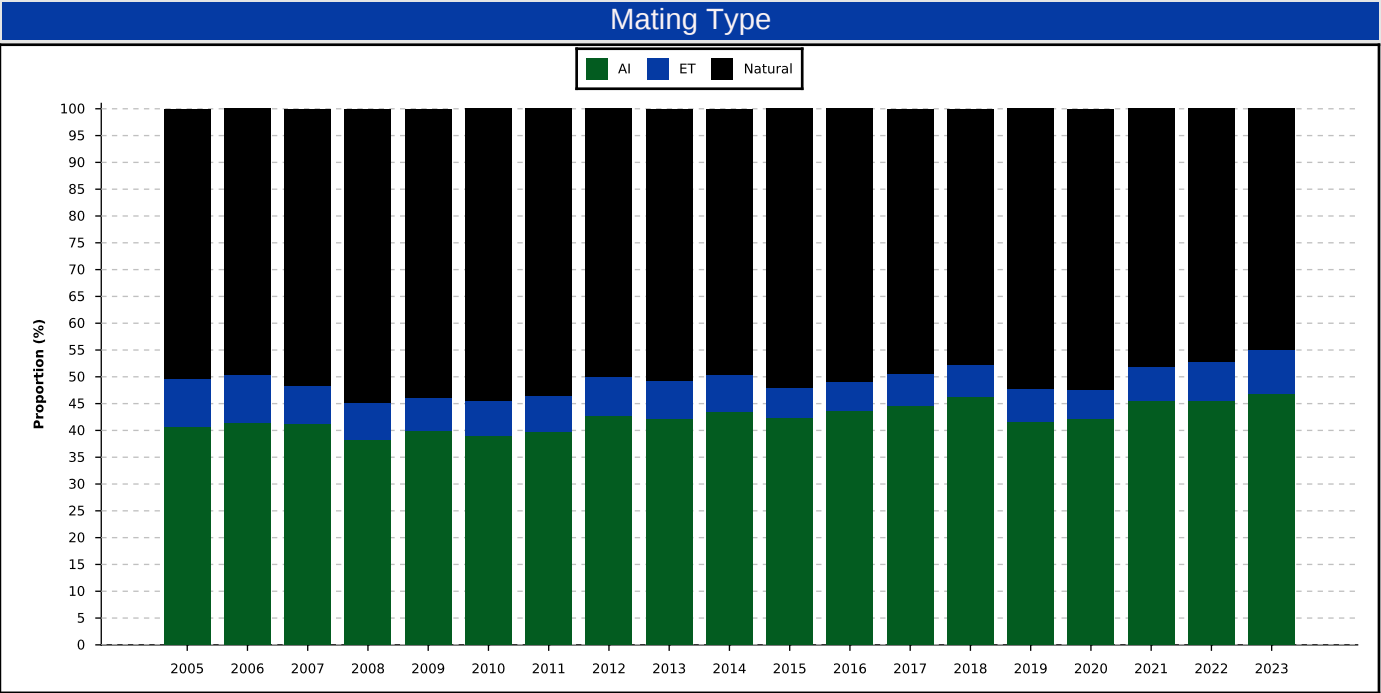


The reports below assess the change in the average EBVs of Angus seedstock animals born in each year for each respective trait.



This report assesses the utilisation of reproductive technologies within the Angus breed by summarising the number of animals born in each year that have been bred by artificial insemination and embryo transfer.

Calving Year	Animals	Mating Type		
		Natural	AI	ET
2005	69679	35046	28355	6278
2006	70739	35135	29346	6258
2007	67434	34811	27764	4859
2008	67838	37151	26004	4683
2009	66746	35985	26697	4064
2010	67427	36728	26272	4427
2011	73574	39415	29283	4876
2012	79636	39820	34102	5714
2013	82015	41572	34649	5794
2014	80896	40130	35120	5646
2015	81578	42477	34581	4520
2016	82579	42078	36095	4406
2017	86086	42528	38289	5269
2018	86970	41450	40309	5211
2019	86753	45378	36167	5208
2020	84079	44086	35462	4531
2021	96597	46523	44026	6048
2022	106012	49998	48192	7822
2023	105864	47642	49668	8554



Generation Length

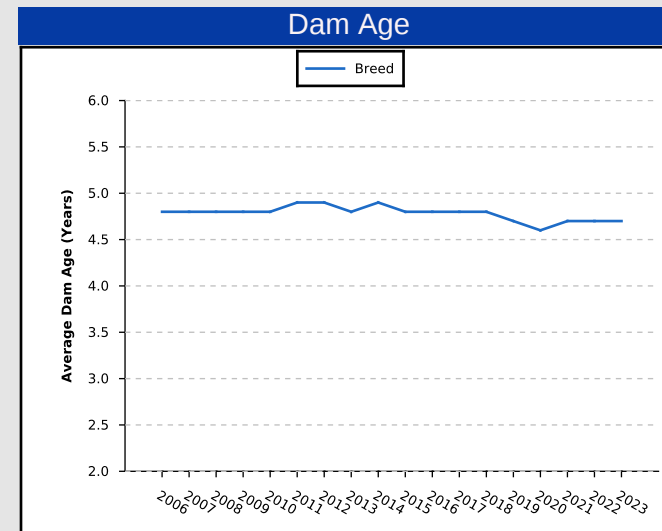
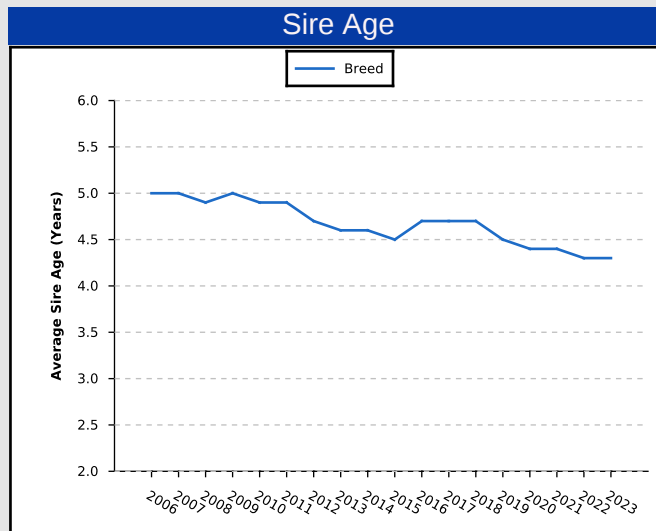
Average Sire and Dam Age By Year

Date: March 18, 2025

Page: 13

This report summarises the average age of the sires and dams of Angus seedstock animals over time. The statistics are calculated as the age of the sire and dam when their progeny are born, and are weighted according to the number of progeny that a sire or dam has in a particular year. For example, if a sire has 50 calves in a particular calving year, its age will make a greater contribution to the average age statistics than a sire with 5 calves.

Calving Year	Animals	Sire Age (Years)				Dam Age (Years)			
		All	Natural	AI	ET	All	Natural	AI	ET
2006	64564	5.0	3.7	6.2	7.7	4.8	4.7	4.4	6.4
2007	62626	5.0	3.7	6.3	7.6	4.8	4.7	4.4	6.4
2008	63359	4.9	3.7	6.4	7.8	4.8	4.8	4.4	6.7
2009	62994	5.0	3.7	6.5	7.9	4.8	4.7	4.5	6.9
2010	63495	4.9	3.7	6.1	7.6	4.8	4.8	4.5	6.5
2011	69741	4.9	3.7	6.1	7.6	4.9	4.9	4.5	6.8
2012	75079	4.7	3.7	5.6	6.7	4.9	4.9	4.5	6.7
2013	77367	4.6	3.7	5.4	6.4	4.8	4.8	4.5	6.8
2014	76297	4.6	3.7	5.4	6.7	4.9	4.9	4.5	6.9
2015	77961	4.5	3.7	5.3	6.7	4.8	4.8	4.5	6.9
2016	78577	4.7	3.8	5.5	6.7	4.8	4.9	4.5	6.8
2017	81159	4.7	3.8	5.5	6.6	4.8	4.8	4.5	6.8
2018	82287	4.7	3.7	5.5	6.5	4.8	4.8	4.4	6.9
2019	82301	4.5	3.6	5.3	6.8	4.7	4.7	4.4	6.5
2020	80505	4.4	3.6	5.2	6.0	4.6	4.7	4.3	6.8
2021	91789	4.4	3.5	5.2	6.5	4.7	4.7	4.3	6.9
2022	99470	4.3	3.5	4.9	5.8	4.7	4.7	4.3	6.8
2023	98875	4.3	3.5	4.8	5.7	4.7	4.7	4.4	6.8



Genetic Diversity

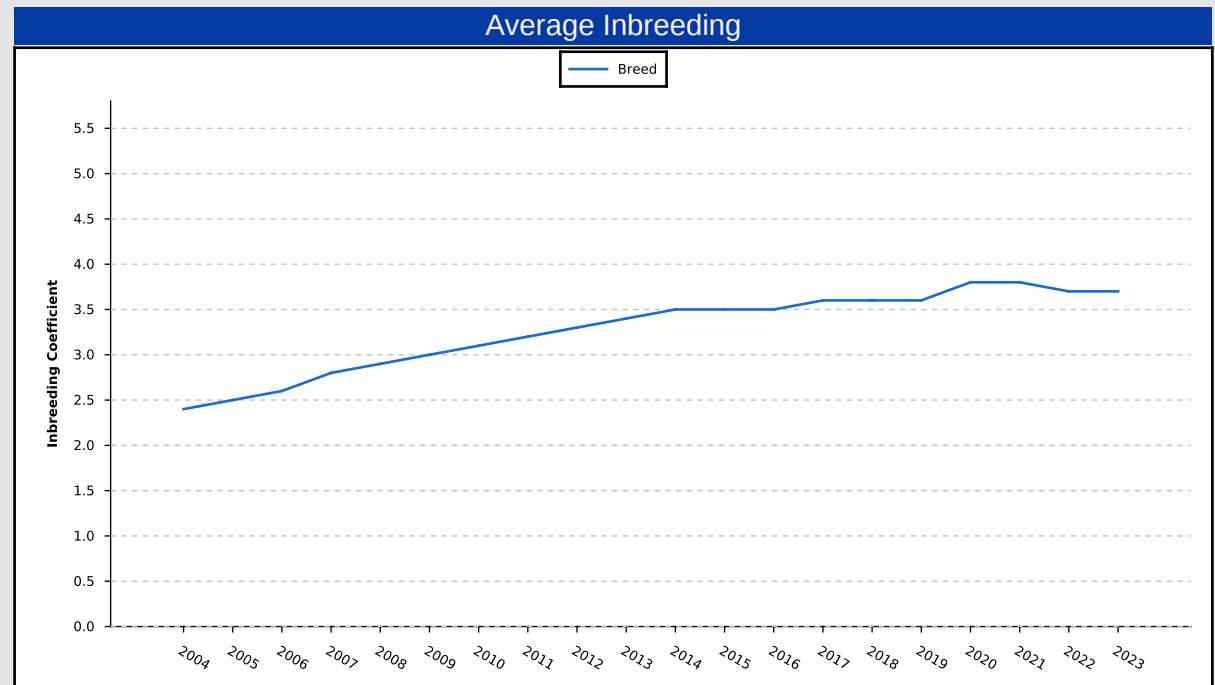
Average Inbreeding By Year

Date: March 18, 2025

Page: 14

This report assesses the genetic diversity within the Angus breed by summarising the average inbreeding co-efficient of animals born in each year.

Calving Year	Animals	Inbreeding Coefficient (%)
		Breed
2004	61501	2.4
2005	63462	2.5
2006	64564	2.6
2007	62626	2.8
2008	63359	2.9
2009	62994	3.0
2010	63495	3.1
2011	69741	3.2
2012	75079	3.3
2013	77367	3.4
2014	76297	3.5
2015	77961	3.5
2016	78577	3.5
2017	81159	3.6
2018	82287	3.6
2019	82301	3.6
2020	80505	3.8
2021	91789	3.8
2022	99470	3.7
2023	98875	3.7



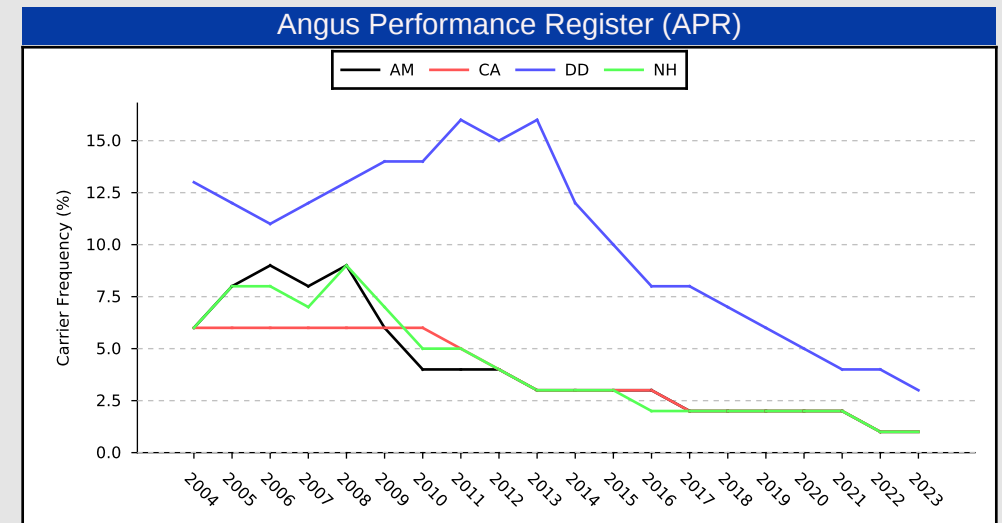
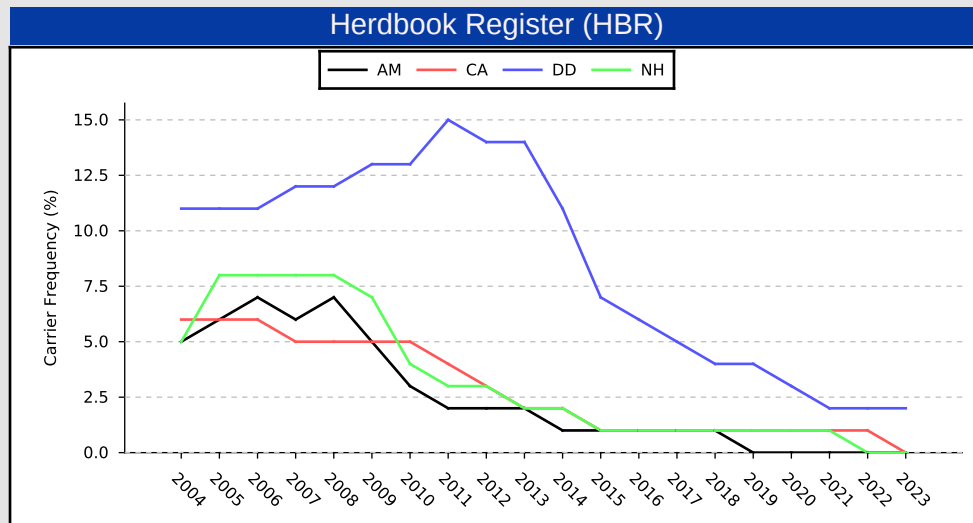
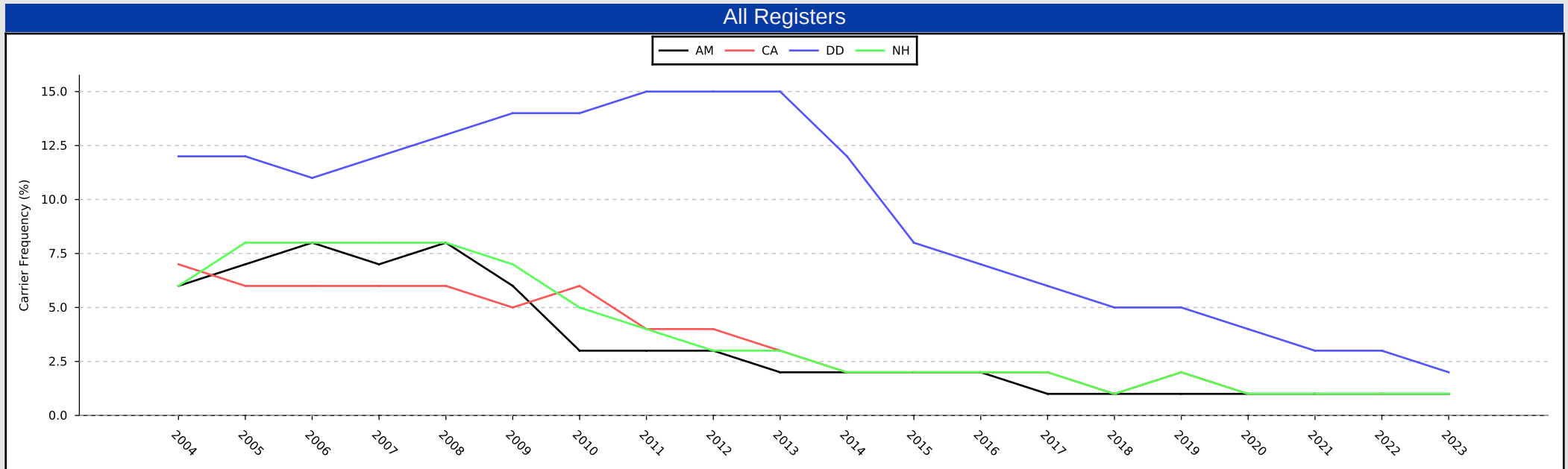
Genetic Conditions

Carrier Frequency By Register

Date: March 18, 2025

Page: 15

This report assesses the frequency of carriers for recessive genetic conditions over time. The statistics are calculated based on the results of the gene probability analyses conducted by Angus Australia.



Appendix 2

Breed Genetic Trends

Date: March 18, 2025

Page: 16

This report provides the average EBVs for all animals recorded with Angus Australia over time.

		Estimated Breeding Values																																	
		Calv-Ease		Birth	Growth			Maternal				Fert		Carcase						Feed	Temp	Structural			Selection Index										
Year	Count	Dir	Dtrs	GL	BW	200	400	600	Mwt	MBC	MCH	Milk	SS	DC	CW	EMA	RIB	P8	RBV	IMF	NFI-F	DOC	Claw	Angle	Leg	\$A	\$D	\$GN	\$GS	\$A-L	\$D-L	\$GN-L	\$GS-L	\$PRO	\$T
2005	63462	-0.1	+0.0	-2.1	+4.2	+33	+60	+78	+69	+0.22	+7.9	+12	+1.2	-3.2	+42	+3.0	+0.2	+0.4	+0.8	+1.1	+0.19	+16	+0.88	+0.99	+1.04	+118	+99	+155	+102	+211	+185	+250	+232	+67	+115
2006	64564	-0.1	+0.0	-2.3	+4.2	+34	+62	+81	+71	+0.23	+8.0	+13	+1.2	-3.3	+44	+3.2	+0.1	+0.3	+0.8	+1.1	+0.18	+16	+0.87	+0.98	+1.04	+122	+102	+160	+106	+218	+191	+258	+240	+71	+118
2007	62626	-0.3	-0.1	-2.3	+4.3	+35	+64	+83	+74	+0.23	+8.0	+13	+1.3	-3.4	+46	+3.3	+0.1	+0.2	+0.8	+1.1	+0.17	+16	+0.87	+0.98	+1.04	+126	+105	+165	+110	+224	+196	+265	+248	+74	+122
2008	63359	-0.4	+0.0	-2.4	+4.4	+36	+66	+86	+76	+0.23	+8.1	+13	+1.3	-3.4	+47	+3.5	-0.1	+0.0	+0.8	+1.2	+0.16	+16	+0.86	+0.97	+1.03	+129	+108	+170	+114	+231	+201	+273	+255	+77	+125
2009	62994	-0.1	+0.2	-2.5	+4.3	+37	+68	+88	+78	+0.23	+8.1	+14	+1.4	-3.5	+49	+3.5	-0.1	+0.0	+0.7	+1.2	+0.13	+17	+0.87	+0.97	+1.03	+134	+111	+175	+118	+238	+208	+282	+263	+82	+129
2010	63495	-0.2	+0.1	-2.6	+4.4	+38	+70	+90	+80	+0.24	+8.2	+14	+1.5	-3.6	+50	+3.7	-0.1	+0.0	+0.7	+1.3	+0.15	+17	+0.86	+0.97	+1.02	+138	+115	+180	+122	+245	+213	+289	+271	+86	+133
2011	69741	+0.0	+0.3	-2.6	+4.4	+39	+71	+93	+82	+0.24	+8.2	+14	+1.5	-3.6	+51	+4.0	-0.2	-0.1	+0.7	+1.4	+0.14	+17	+0.87	+0.97	+1.03	+142	+118	+186	+126	+252	+219	+298	+280	+90	+137
2012	75079	-0.1	+0.3	-2.8	+4.4	+41	+74	+96	+85	+0.25	+8.3	+14	+1.6	-3.8	+53	+4.3	-0.2	-0.2	+0.7	+1.4	+0.15	+17	+0.86	+0.97	+1.02	+149	+124	+195	+133	+263	+229	+310	+292	+97	+142
2013	77367	+0.0	+0.3	-2.9	+4.4	+42	+75	+98	+87	+0.25	+8.3	+14	+1.6	-3.9	+55	+4.6	-0.3	-0.3	+0.7	+1.6	+0.14	+17	+0.87	+0.97	+1.03	+154	+128	+202	+138	+270	+235	+320	+301	+102	+146
2014	76297	+0.3	+0.5	-3.1	+4.3	+42	+77	+100	+88	+0.26	+8.2	+15	+1.6	-4.1	+56	+4.7	-0.1	-0.2	+0.6	+1.7	+0.15	+17	+0.87	+0.97	+1.02	+159	+132	+209	+143	+278	+240	+330	+310	+107	+150
2015	77961	+0.4	+0.9	-3.2	+4.3	+43	+78	+102	+89	+0.26	+8.2	+15	+1.7	-4.1	+57	+4.9	-0.2	-0.3	+0.6	+1.7	+0.15	+18	+0.86	+0.97	+1.02	+163	+135	+213	+146	+284	+246	+337	+317	+110	+153
2016	78577	+0.5	+1.1	-3.4	+4.3	+44	+80	+105	+91	+0.26	+8.2	+16	+1.8	-4.2	+59	+5.1	-0.1	-0.2	+0.6	+1.7	+0.15	+18	+0.86	+0.97	+1.02	+168	+139	+219	+151	+292	+253	+347	+327	+115	+157
2017	81159	+0.8	+1.3	-3.6	+4.3	+46	+82	+107	+93	+0.27	+8.2	+16	+1.8	-4.4	+61	+5.3	-0.1	-0.3	+0.6	+1.8	+0.16	+18	+0.86	+0.97	+1.02	+174	+144	+227	+158	+302	+262	+358	+338	+121	+162
2018	82287	+1.1	+1.8	-3.8	+4.2	+47	+84	+110	+95	+0.28	+8.2	+16	+1.9	-4.5	+62	+5.5	-0.1	-0.3	+0.5	+1.9	+0.17	+18	+0.85	+0.96	+1.01	+180	+149	+235	+163	+312	+270	+370	+349	+127	+167
2019	82301	+1.3	+2.1	-3.8	+4.2	+47	+86	+111	+96	+0.28	+8.2	+16	+1.9	-4.4	+63	+5.7	+0.0	-0.3	+0.5	+2.0	+0.18	+19	+0.85	+0.96	+1.01	+183	+151	+240	+166	+316	+273	+376	+353	+130	+170
2020	80505	+1.5	+2.2	-4.1	+4.1	+49	+88	+115	+99	+0.29	+8.2	+17	+2.0	-4.6	+65	+6.0	-0.1	-0.3	+0.5	+2.1	+0.18	+19	+0.85	+0.95	+1.01	+190	+157	+249	+173	+328	+284	+391	+367	+138	+176
2021	91789	+1.8	+2.6	-4.3	+4.0	+50	+90	+116	+100	+0.29	+8.2	+17	+2.1	-4.8	+66	+6.1	+0.0	-0.3	+0.5	+2.2	+0.21	+20	+0.84	+0.95	+1.00	+195	+162	+257	+179	+337	+291	+402	+377	+144	+180
2022	99470	+2.0	+2.9	-4.4	+4.0	+51	+92	+119	+102	+0.29	+8.1	+17	+2.2	-4.8	+68	+6.4	+0.0	-0.3	+0.4	+2.4	+0.22	+21	+0.83	+0.93	+0.99	+201	+166	+264	+185	+345	+298	+412	+387	+149	+185
2023	98875	+2.3	+3.1	-4.6	+3.9	+52	+93	+121	+103	+0.29	+8.0	+17	+2.2	-4.8	+69	+6.6	+0.1	-0.2	+0.4	+2.5	+0.24	+21	+0.82	+0.92	+0.99	+206	+170	+272	+190	+353	+305	+423	+395	+154	+189

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