

MEMBERSHIP TIPS

by Jerry Cassady
director of member services



Pedigree Lookup features

The American Angus Association website (www.angus.org) contains a wealth of information for new and seasoned members alike, ranging from sale books and reports to animal pedigree and expected progeny difference (EPD) information.

One of the most popular search locations continues to be the EPD/Pedigree Lookup feature, as this site receives more than 8 million page views each year. The EPD/Pedigree Search page is located within the Member Services tab and can be found at Member Services > Herd Tools > EPD/Pedigree Lookup.

Here you can look up individual animal information such as ownership, ancestors, genetic condition status, current EPDs, as well as other pertinent information relating to the specific animal you are searching for.

General information

Within the general information section, you will find the animal's name, registration number, gender, birth date and method of permanent identification (i.e., tattoo, freeze brand or hot brand).

In addition, breeder and current owner information is listed here, and these codes can also be

found at the very bottom of the page with the subsequent registration/transfer issue dates listed. These dates can be helpful for those members needing to provide an issue date to meet a show or sale deadline.

Consider the example animal in Figure 1— you can see the original membership code registered the animal April 18, 2013, and this original issue date reflects an animal with the same breeder as first owner, indicating “bred and owned” by the letters BO. An additional owner was later added Dec. 26, 2013.

Genomic information

The newest family of information included within the pedigree lookup feature relates to the animal's

genomic test results. This might include the genomic profile test performed, the parentage test that was included and any genetic condition test results.

Today's parentage testing currently utilizes SNP (pronounced “snip”) technology compared to the former microsatellite technology from the past. Specific to the genetic condition information, a link for additional information relating to genetic conditions is included for your convenience.

In addition, the genomic progeny count may be shown and indicates the total number of progeny from this specific animal in the Association database with a genomic profile test.

The screenshot shows the American Angus Association website interface. At the top, there is a navigation bar with the logo and the tagline "THE BUSINESS BREED". Below the logo, there are several menu items: "Member Services", "Management", "Marketing", "Commercial", "News", "Events", "Shop", and "About". The "Member Services" menu is expanded, showing a list of options including "Member Center", "Herd Tools", "Angus University", and "Join Us". The "EPD/Pedigree Lookup" option under "Herd Tools" is highlighted in yellow. The "Member Center" menu includes options like "Registrations", "Rules & Forms", "Genetic Conditions/Policies", "Breeder's Reference Guide", "Suggested Sale Terms & Conditions", "Current Fees", "Member Lookup", "Member Websites", "State/Regional Associations", "Awards & Recognitions", "Breed Information", and "Data Access". The "Herd Tools" menu includes "AAA Login", "EPD/Pedigree Lookup", "AIMS", "Angus Mobile", "SHR Data Collection Guide", "Top Sires List", "DNA Testing", "Order Tests", "Order FTA Blood Cards", "Order Tissue (TSU) Samples", "DNA Collection Instructions", "DNA Submitting Instructions", and "Genetic Condition Policy". The "Angus University" menu includes "About", "Resources", "Webinars", and "Newsroom". The "Join Us" menu includes "Become a Member", "Membership Application", "Junior Membership", "Current Fees", "National Junior Angus Association", "American Angus Auxiliary", "State Associations", and "Industry Organizations".

EPD information

Just below the three-generation pedigree illustrating the animal's recent ancestry, you will find the EPD section, segmented by five specific subgroups. These subgroups include production traits, maternal traits, management traits, carcass traits and economic indexes.

The economic indexes are not actually EPDs but rather are mathematical computations combining multiple EPDs together with weighted economic inputs into one numeric value to simplify the genetic selection process.

Just above the EPD section is the "as of" date, indicating how current the information is. This is important if you print off the pedigree lookup page, as EPDs are updated through our system weekly. There is an option for you to hide the management EPD subgroup if you so choose to simplify the EPD section.

New additions

Located within the Pulmonary


Arterial Pressure (PAP) EPD box, you will find a clickable information icon providing details from the PAP progeny reported. The PAP EPD is designed to assist producers to identify those animals more adaptive to the higher elevation regions and to avoid issues associated with high altitude sickness or "brisket disease," with a lower EPD being more favorable indicating a sire should produce progeny with a lower, more desirable PAP score.

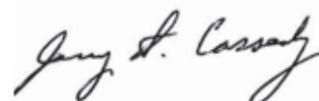
The PAP measurements are designed to be a high-elevation [above 5,500 feet (ft.)], yearling PAP prediction as the direct trait of interested being reported.

However, data received by the Association includes both high- and moderate (4000-5500 ft.)-elevation measurements, as well as weaning and yearling PAP measurements. The Association can accept these moderate altitude and weaning measurements in a correlated-trait manner, which can further support the genetic evaluation.

Lastly, at the very bottom of the page is the newest information included on EPD Pedigree Lookup titled "Phenotypic Traits." This is a list of those phenotypic measurements submitted by the breeder on this specific animal.

Efforts to collect and submit these phenotypes by those utilizing Angus genetics are being rewarded by listing them here to provide greater confidence in the resulting EPDs.

Next month we will explore the details of various prefix symbols the Association uses preceding the registration number. 



jcassady@angus.org

Editor's note: For more information regarding pedigree lookup features contact the Member Services department at (816) 383-5100 or email me directly at jcassady@angus.org.

Figure 1: Sample Pedigree Lookup

EPD Percentiles														As of 09/10/2021	
Production									Maternal						
CEW	BW	WW	YW	RADG	DMI	YH	SC	HP	CEM	Milk	MkH	MW	MH	SEN	
Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	Acc %	
Prog	Prog	Prog	Prog	Prog	Prog	Prog	Prog	Daus	Daus	%	MkD	Prog	Prog	%	
+9	+3	+44	+88	+25	+44	+7	+1.40	+14.4	+11	+38	62	+29	+3	-10	
.72	.91	.88	.84	.59	.59	.88	.82	.55	.70	.67	176	.67	.74		
30%	30%	85%	75%	40%	25%	25%	15%	20%	25%	2%		80%	50%	40%	
169	979	776	481	24	24	395	184	63	187			51	46		
* Click here to show/hide Management EPD Section															
Management															
Doc					Claw					Angle					PAP
Acc %					Acc %					Acc %					Acc %
Prog					Prog					Prog					Prog
+25					+49					+66					+3.90
.81					.63					.63					.33
15%					45%					95%					95%
179					77					77					7
Carcass															
CW	Marb	RE	Fat	Carc Grp	Uand Grp	SM	SW	SF	SG	SB	SC				
Acc %	Acc %	Acc %	Acc %	Prog	Prog	%	%	%	%	%	%				
Prog	Prog	Prog	Prog	Prog	Prog	Prog	Prog	Prog	Prog	Prog	Prog				
+45	+1.37	+84	-0.17	14	244	+65	+63	+104	+87	+191	+313				
.67	.64	.61	.63	26	462										
40%	2%	15%	15%			35%	40%	20%	1%	2%	2				

Phenotypic traits: CE, BW, WW, YW, YH, SC, Doc, UScanWT, UIMP, URE, URBFat, URumpFat

1075541 12262013; 1108486 00 04102013

EPD & \$Value Definitions