

TJAA ADDS PHENOTYPE & GENOTYPE SHOW (PGS) TO 2024 STATE SHOW

-By Shelby White, TJAA Advisor

Excitement and interest are growing around a new buzz word in Texas Angus circles – PGS! Last year, TJAA Advisors announced that the 2024 State Show schedule would include the state’s first Phenotype and Genotype Show (PGS). While this show is new to Texas, PGS is only growing in numbers and popularity at Angus Junior Nationals and Angus Regional shows.

Why have a Phenotype & Genotype Show?

The NJAA states, “The objective behind the Phenotype and Genotype Show (PGS) is to create another avenue for juniors to show their heifers in an additional competition while providing an educational opportunity to learn about the value of Expected Progeny Differences (EPDs) and economic selection indexes (\$Values) as a part of the process in selecting seedstock. Animals entered in the PGS will be evaluated by a judge under a system that requires both genotypes and phenotypes to be considered. The results will be a composite score where the genotype (EPDs & \$Values) placing, and phenotype placings will be equally weighted at fifty percent.”

Is My Heifer Eligible for PGS?

In addition to regular entry and ownership deadlines, to be eligible to show in the PGS you must meet two very important deadlines for DNA & GE-EPDs:

- 1) **BEFORE ENTRY DEADLINE**, heifers must be genomic tested (either Angus GS™ or HD50K for Angus) with a DNA sample on file with Angus Genetics Incorporated (AGI), by entry deadline. We highly encourage you to submit your DNA samples as soon as possible (**BEFORE** the Entry Deadline) because sample processing and generating Genomic EPDs can take several weeks. Instructions for collecting and submitting DNA can be found here:
 - a. *SUBMITTING DNA SAMPLES TO AGI:*
https://www.angus.org/AGI/global/agi_factsheets.pdf
 - b. Submitting DNA Samples - Videos & Photos:
<https://www.angus.org/AGI/SubmittingSamples>
 - c. *DNA Testing Success Sample quality, correct test ordering and complete recording play a role in timely DNA results.* https://www.angusjournal.com/ArticlePDF/0121-by-the-numbers.pdf?_gl=1*13fd9qk*_gcl_au*MjA5NTc1ODg0Mi4xNzA3NTlyMjg3
- 2) **BY CHECK-IN**: GE-EPDs are required at the time of check-in. Any animal with Interim EPDs or EPDs not enhanced with genomic results at time of check-in will **NOT** be allowed to show in the PGS.

Can I Dual Enter My Owned and Bred&Owned heifers in PGS?

YES!!! Your Owned and/or Bred&Owned heifers can also be entered in the Phenotype & Genotype Show (PGS). And your PGS heifers can be entered in the Owned or Bred&Owned shows. We highly encourage dual entries. Just remember, in order to enter the PGS all animals must be genomic tested (either Angus GS™ or HD50K for Angus) with a DNA sample on file with Angus Genetics Incorporated (AGI), by entry deadline. We highly encourage you to submit your DNA samples as soon as possible because sample processing and generating Genomic EPDs can take several weeks.

How is PGS Judged?

The Judge, based on his/her preferences, will first place the class based on EPDs/\$Values (CED, BW, WW, YW, Milk, Marb, REA, \$M, \$B, \$C).

The same judge will then evaluate the class in the same manner as a regular phenotype show. In the ring, the judge will receive a judge's card with birthdates only.

The phenotype placings will be recorded and compiled with the genotype placings. The composite score will be made up of 50% genotype placing and 50% phenotype placings. In the event of a tie, the tie will be broke based on the phenotype placings.

We are excited to bring this opportunity to our junior membership and hope this information is helpful to you! We look forward to seeing you at the TJAA State Show May 29 – June 2, 2024 at the Cadence Bank Center (formerly called the Bell County Expo Center) in Belton, TX! More TJAA State Show and contest information can be found at <https://texasjuniorangus.com/>.