

PHENOTYPE AND GENOTYPE SHOW (PGS) SHOW RULES

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.

Overview:

Exhibitors can enter in the PGS online while entering for the specific show (WRJAS, ERJAS, NJAS). However, 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.

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. The PGS judge will receive judge's cards split in classes that include entry number, birthdate, and EPDs/\$Values (CED, BW, WW, YW, Milk, Marb, REA, \$M, \$B, \$C) along with a percentile breakdown. For the PGS, the same judge will evaluate the EPDs/\$Values and the phenotype classes. He/she will place the class based on his/her preferences. Results will be turned into the Association staff to compile prior to the show. The show will be run similar to other NJAA sponsored shows where the judge will evaluate the class in the same manner as a regular phenotype show. The judge will receive a judge's card with birthdates only for phenotype classes. 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. The judge will then receive a judge's card with the composite placing and respective EPDs to talk the class. During divisions and the grand drive, the judge will receive judge's cards.

To enter:

1. All animals must have been genomic tested, with a DNA sample on file with AGI, by ownership deadline. The animal must be tested with Angus GS or HD50K Basic parentage testing does not qualify for this show.
2. GE-EPDs are required at the time of check-in.
3. Any animal with interim EPDs or EPDs not enhanced with genomic results at time of check-in will not be allowed to show.

Show Categories:

1. Only females are allowed to enter with no specification on bred-and-owned versus owned. Champions will be selected in each division. Grand and Reserve Champion PGS Females will be awarded.
2. Entries will be listed in the catalog in order of age (youngest to oldest) and will be led into the showring in order of catalog number.
3. Classes will be made up after cattle have been checked-in at the show with no more than 15 head in any class and on a logical age break, not necessarily following formal American Angus Association classifications.
4. Division champions will be named in the female category as follows: Division I, Division II, Division III, Division IV.

Premiums & Awards:

1. Any questions regarding premiums or awards should be forwarded to the association office no later than six weeks after date of show.
2. Each entry shown shall receive a ribbon and premiums. Banners will be awarded to champions in each division and category.
3. Premiums will be paid according to the following schedules:

Females

1st-\$125; 2nd-\$115; 3rd-\$105; 4th-\$95; 5th-\$85; 6th-\$75; 7th-\$65; 8th through 15th-\$55.

All individuals must be genomic tested prior to entry deadline in order to participate. GE-EPDs are required at the time of check-in. Animals can be tested with any of the available genomic profile platforms including Angus GS or HD50K.

DNA TESTING PROCESS AND TIMELINE

- 1 ORDER SUPPLIES**
To begin the testing process, you can order DNA cards or tissue sampling units (TSUs) for DNA collection online at <https://www.angus.org/AGI/SeedStockOptions> or through AAA Login.
- 2 TAKE SAMPLE**
Keep in mind Association best practices when collecting your sample and sending it to our office. How to videos on collecting DNA samples are available at www.angus.org/agi
- 3 ORDER TESTS**
Before mailing your sample, order testing online through your AAA Login account.

Testing Options
 - *Angus GS* (includes Parentage): An advanced high-density genomic testing option available for Angus cattle powered by Neogen Genomics, fully endorsed by Angus Genetics Inc. for \$37.00.
 - *HD50K* (includes Parentage): The latest advancement in Angus genotyping technology from Zoetis, fully endorsed by Angus Genetics Inc. for \$37.00
- 4 MAIL SAMPLE**
Once you have mailed your sample, account for a week (mailing time) before seeing the sample entered in our system and sent to the lab.
- 5 SAMPLES TO LAB**
After they have been received at the lab, test results take 3-4 weeks and are posted when available in your AAA Login Account.
- 6 RESULTS AVAILABLE**
After results are received, EPDs may take an additional week to update. To be safe, you should account for 5 total weeks to receive your results and have them updated in our National Cattle Evaluation.

