Which Genomic (GGP) Panel Should You Use?

The value of accurate information and its usability in calculating EPDs has driven the acceptance and diversity of genomic DNA testing. At no other point in history has it been viable to collect a sample on a newborn calf and, for around $40, increase the accuracy of that animals EPDs, equal to adding 15 to 25 progeny records for some traits.

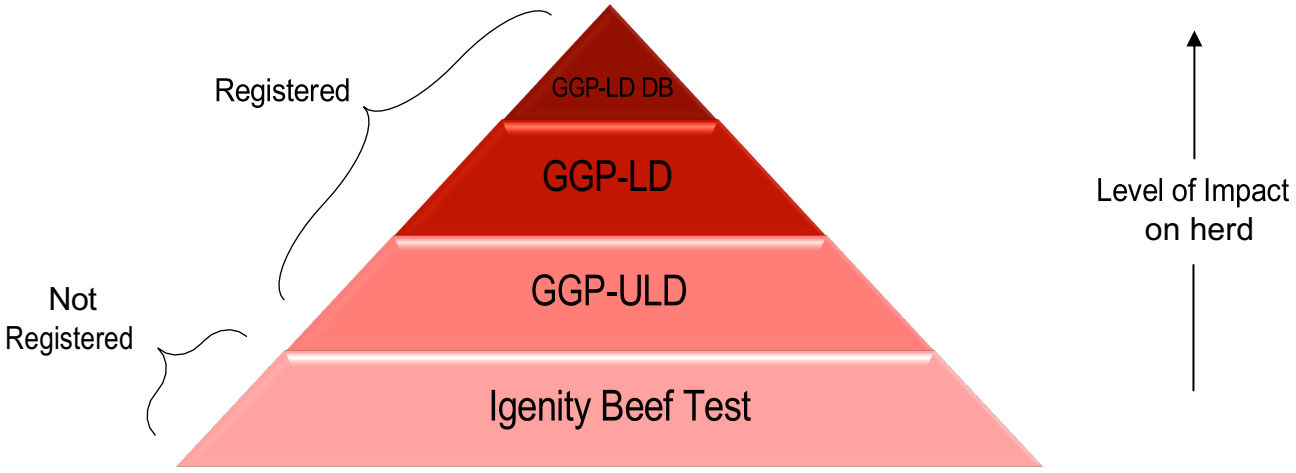
While this technology is valuable, it will never replace the necessity of collecting phenotypic records. Genomic testing of young animals is unmatched in its ability to help make culling and mating decisions earlier in life. However, high accuracy EPD estimates long-term are achieved by consistent progeny testing and data submission.

In order to complete a genomic test, the animal *must* be registered (have a RAAA registration number) in the RAAA system, at the time of sample submission. The RAAA currently offers three genomic testing options available through Neogen, known as *GeneSeek Genomic Profilers (GGP)*. All GGP panels include parentage, to meet RAAA 'on file' requirements or verify the parents of the animal, as well as, the genomic enhancement of the animals EPDs. The panels do differ in density and the availability of add-on defects.

Name	Genomic EPDs	Parentage	Defects Included	Density	Price
GGP-ULD – ultra-low density	Yes	Yes	Not available	33,000 markers	$35
GGP-LD – low density	Yes	Yes	OS and MA	100,000 markers	$50
GGP-LD Defect Bundle – low density + 6 monitored defects	Yes	Yes	OS, MA, CA, DD, NH, AM	100,000 markers	$95

RAAA recommends that any A.I. Sire or Donor Dam is ran on the GGP-LD Defect Bundle to ensure the animal is clear of all 6 of the RAAA's monitored defects. An animal that you expect to use extensively or over a longer period of time should be ran on the GGP-LD. Animals that do not need genetic defect testing can be ran on the GGP-ULD.

If you have Red Angus females that cannot and will not be registered, but you would like to obtain genetic information on them, please reach out to our DNA department to gather more information on our commercial female genomic test, Igenity Beef, that can be completed.



If the question is either to run more animals on a lower density or fewer animals on a higher density, it would always be better to test more animals on a lower density. Additionally, if finances allow it is always better to capture a higher density genotype on an animal.

If you have questions or need further assistance, feel free to contact the RAAA DNA Department at dna@redangus.org or by calling 940-387-3502 ext. 8