

## THE VALUE OF TAEP BEEF GENETICS PROGRAM TO THE BEEF INDUSTRY

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The TAEP Beef Genetics Program provides the opportunity to rapidly change the genetics of the state's cow-calf producers at a lower cost. The program provides a 50 percent cost share of up to a maximum of \$1200 for the purchase price of a bull that genetically qualifies for both EPDs and accuracy provided the buyer is an updated certified Master Beef Producer (MBP). If the buyer is a certified MBP and they purchase a genetically qualifying bull that has Genetic Enhanced EPDs (GE-EPD), the cost share can go up to a maximum of \$1600 for the purchase price. Buyers that purchase bulls that qualify and are not certified MBP graduates can receive up to 35 percent cost share of the purchase price of a bull up to a maximum of \$1200 or up to \$1600 for the purchase of a GE-EPD bull..

The following Table illustrates how to interpret the amount of cost share a buyer might receive for different scenarios. Those scenarios are current or non-current MBP and qualifying bulls that have Genetic Enhanced EPDs and those that do not. A bull that has Genomic Enhanced EPDs (GE-EPD) is one that has either blood, hair samples or tissue submitted to its breed association for DNA analysis and used in the calculation of its EPD. Bulls that have GE-EPDs have much higher accuracies and reduce the risk of possible change in their genetic evaluation for non-parent bulls.

From the Table one can see that if a buyer was an up to date MBP and purchased a GE-EPD bull for \$3000, they would receive a \$1500 cost share and would then only have a real cost of \$1500. That is buying a bull for one-half cost. If the buyer was not a current MBP and purchase either a GE-EPD or non GE-EPD bull, they would receive a cost share of \$1050 and have a real cost of \$1950. Another example is a non MBP that purchases a qualifying GE-EPD bull for \$5000 could receive a \$1600 cost share and the real cost would be \$3400.

This program has been a win-win situation for our state beef cattle industry. With the use of genomic technology, the purebred breeder can realize genetic progress in traits of economic importance more rapidly by being able to make more accurate selection decisions in their operations for those traits that contribute to the improvement and profitability of the state's beef industry. In concert with this, the commercial bull buyer has the opportunity to identify and capture those improved genetics that will contribute to the improvement and profitability of their operations. Never has there been such an opportunity for being able to both improve the quality of genetics and reputation of the Tennessee beef industry. The TAEP Beef Genetics program eligibility requirements for the different breeds can be found at the following website: <https://www.tn.gov/agriculture/farms/taep/producer/genetics/cattle.html>

Tennessee Beef Genetics AG Enhancement Program For Purchasing QUALIFIED Bulls

<b>Bull Purchase Price \$</b>	<b>Current MBP Certificate</b>	<b>Genomic Enhanced EPD Bull</b>	<b>Cost Share \$</b>	<b>Actual Cost \$</b>
2500	Yes	Yes	1250	1250
2500	Yes	No	1200	1300
2500	No	Yes or No	875	1625
3000	Yes	Yes	1500	1500
3000	Yes	No	1200	1800
3000	No	Yes or No	1050	1950
3500	Yes	Yes	1600	1900
3500	Yes	No	1200	2300
3500	No	Yes	1225	2275
3500	No	No	1200	2300
4000	Yes	Yes	1600	2400
4000	Yes	No	1200	2800
4000	No	Yes	1400	2600
4000	No	No	1200	2800
4500	Yes	Yes	1600	2900
4500	Yes	No	1200	3300
4500	No	Yes	1575	2925
4500	No	No	1200	3300
5000	Yes	Yes	1600	3400
5000	Yes	No	1200	3800
5000	No	Yes	1600	3400
5500	Yes	Yes	1600	3900
5500	Yes	No	1200	4300
5500	No	Yes	1600	3900
5500	No	No	1200	4300