

## **TAEP: FY 2018-19 Cattle Genetics Program - Beef EPD Requirements by Breed - 3 Options**

### **Requirements - Bulls**

1. **Test negative for BVD-PI** (test results required) - see veterinarian with BSE & 840 EID
2. **840 EID** - "840" are the first three digits (numeric code for "USA") - see vet at time of BSE and PI testing
3. **BSE** - must be performed by a licensed veterinarian within 90 days of purchase or reimbursement
4. **EPD and Accuracy requirements** - read below
5. **Receipt** - with seller name, address and phone, bull ID, price, sale date, and buyer name

**EPDs have changed for this application period and must be current as of October 1, 2018.**

Seedstock breeders are encouraged to print current bull pedigree once true NCE EPDs or Genomic Enhanced EPDs are posted on the breed association website and keep a copy for buyers.

Producers are encouraged to purchase registered bulls from reputable seedstock breeders who provide buyers with complete reimbursement documentation **at time of purchase** including bull type, receipt, 840 EID, BSE, negative BVD-PI test results and pedigree with current EPDs, accuracies, genomic status and performance data.

Eligible beef breeds for the TAEP Genetics program must have a national breed performance testing program that participates in a National Cattle Evaluation (NCE) program recognized by the Beef Improvement Federation. Genomic Enhanced or True NCE EPDs must be calculated and printed from the most prominent breed association.

**EPD Requirements:** A bull must meet or exceed EPD requirements in **each** EPD category (Calving Ease, Growth, and Maternal) for **one** of the following three bull types (Balanced, Terminal, or Calving Ease).

### **Bull Types**

**Balanced** - must meet 3 of 3 EPD categories (Calving Ease, Growth, and Maternal)

**Terminal** - must meet 2 of 2 EPD categories (Calving Ease and Growth) - *Maternal is not a requirement*

**Calving Ease** - must meet 3 of 3 EPD categories (Calving Ease, Growth, and Maternal)

All bull types must have true NCE EPDs with minimum 0.15 accuracy for the Calving Ease (CE or BW) and Growth (WW or YW) categories. Interim EPDs, pedigree estimates, pedigree index (ex. I, I+, P, P+ or 0.05 Accuracy), or parental averages are not eligible for reimbursement.

*TAEP EPD and Accuracy Requirements for Balanced, Terminal and Calving Ease bulls are listed on the following pages.*

**\$1,200 Max Reimbursement** - Bulls with eligible true NCE EPDs with a minimum 0.15 accuracy for Calving Ease and Growth categories for 1 of the 3 eligible bull types

- Bulls must have true NCE EPDs with a minimum 0.15 accuracy **prior to purchase** to be eligible for a cost share reimbursement up to the \$1,200 max.
- Pedigree must be submitted with reimbursement request and include EPDs, accuracies, and have a **printed date between October 1, 2018 and the date of purchase.**

**\$1,600 Max Reimbursement** - Bulls with eligible Genomic Enhanced EPDs for 1 of the eligible bull types

- Genomic Enhanced EPD verification must be complete on pedigree **prior to purchase** to be eligible for a cost share reimbursement up to the \$1,600 max.
- Pedigree must be submitted with reimbursement request and include EPDs, accuracies, genomic verification, and have a **printed date between October 1, 2018 and the date of purchase.**

**Payment may be denied if individual bulls do not have true NCE EPDs with a minimum 0.15 accuracy calculated by their breed association at time of sale catalog printing (or sale date for private treaty sales).**

## Balanced Bulls

TAEF Balanced bull type sires work well in small herds where producers expect one bull to sire optimal performance (more growth than Calving Ease bulls) when bred to 20 mature cows while maintaining adequate calving ease when bred to 3-5 heifers. Producers with limited time, pasture and facility resources could choose to either sell heifers at weaning or to enroll the top quality weaned heifers into a heifer development program. Producers raising their own replacement heifers are encouraged to AI breed heifers to high accuracy calving ease sires.

• (CE or BW) and (WW or YW) must meet or exceed minimum 0.15 Accuracy for all bull types •						
Must meet or exceed EPD requirements for: Calving ease and Growth and Maternal						
BALANCED Bulls <i>(1st bull type option)</i>	1.) CALVING EASE +		2.) GROWTH +		3.) MATERNAL	
	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum
Breed	CE (Acc.) or	BW (Acc.)	WW (Acc.) or	YW (Acc.)	MILK	MILK
Angus	5 (.15) or	2.8 (.15)	48 (.15) or	75 (.15)	15 to	37
Akaushi	3 (.15) or	-0.4 (.15)	22 (.15) or	43 (.15)	26 to	36
Beefmaster	2 (.15) or	0.6 (.15)	17 (.15) or	33 (.15)	7 to	14
Brahman		1.3 (.15)	12 (.15) or	20 (.15)	1 to	11
Brangus (Black)	4 (.15) or	1.5 (.15)	21 (.15) or	37 (.15)	5 to	18
Red Brangus	4 (.15) or	1.6 (.15)	15 (.15) or	19 (.15)	5 to	15
Ultrablack	4 (.15) or	1.6 (.15)	26 (.15) or	50 (.15)	5 to	18
Braunvieh	5 (.15) or	3.1 (.15)	41 (.15) or	61 (.15)	26 to	48
Charolais	6 (.15) or	0.4 (.15)	23 (.15) or	38 (.15)	3 to	22
Chianina/Chiangus	7 (.15) or	2.2 (.15)	42 (.15) or	61 (.15)	11 to	26
Gelbvieh	11 (.15) or	1.7 (.15)	60 (.15) or	81 (.15)	19 to	33
GV Balancer	12 (.15) or	1.2 (.15)	60 (.15) or	86 (.15)	17 to	32
Hereford	0 (.15) or	3.8 (.15)	48 (.15) or	74 (.15)	19 to	37
Black Hereford		3.1 (.15)	42 (.15) or	70 (.15)	20 to	27
Limousin	11 (.15) or	1.5 (.15)	57 (.15) or	81 (.15)	17 to	30
Lim-Flex	12 (.15) or	1.2 (.15)	60 (.15) or	90 (.15)	18 to	31
Maine Anjou	8 (.15) or	0.9 (.15)	40 (.15) or	52 (.15)	14 to	27
Murray Grey	-0.9 (.15) or	4.5 (.15)	20 (.15) or	32 (.15)	2 to	10
Red Angus	11 (.15) or	0.1 (.15)	54 (.15) or	79 (.15)	18 to	32
Salers	-0.3 (.15) or	2.8 (.15)	28 (.15) or	53 (.15)	10 to	30
Santa Gertrudis		0 (.15)	0 (.15) or	0 (.15)	-3 to	9
Senepol		1.7 (.15)	6 (.15) or	7 (.15)	-1 to	14
Shorthorn	9 (.15) or	1.5 (.15)	47 (.15) or	67 (.15)	14 to	27
Simmental	9 (.15) or	2.3 (.15)	63 (.15) or	89 (.15)	15 to	32
Hybrid Simmental	10 (.15) or	1.4 (.15)	59 (.15) or	83 (.15)	15 to	32
South Devon		2.2 (.15)	39 (.15) or	69 (.15)	18 to	36
Tarentaise	0 (.15) or	2.0 (.15)	-3 (.15) or	3 (.15)	-4 to	8

continued

## Terminal Bulls

TAEP Terminal bull type sires can be utilized by producers desiring to maximize performance (more growth than either Balanced or Calving Ease bulls) when bred to mature cows. *Not recommended to breed to heifers.*

• (CE or BW) <u>and</u> (WW or YW) must meet or exceed minimum 0.15 Accuracy for all bull types •						
Must meet or exceed EPD requirements for: Calving ease <b>and</b> Growth						
<b>TERMINAL Bulls</b> <i>(2nd bull type option)</i>	<b>1.) CALVING EASE</b> +		<b>2.) GROWTH</b> +		<b>3.) MATERNAL</b>	
	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum
<b>Breed</b>	<b>CE (Acc.)</b> or	<b>BW (Acc.)</b>	<b>WW (Acc.)</b> or	<b>YW (Acc.)</b>		
Angus	0 (.15) or	4.7 (.15)	55 (.15) or	94 (.15)		N/A
Akaushi	1 (.15) or	3.1 (.15)	26 (.15) or	47 (.15)		N/A
Beefmaster	0 (.15) or	2.0 (.15)	25 (.15) or	45 (.15)		N/A
Brahman		2.9 (.15)	19 (.15) or	31 (.15)		N/A
Brangus (Black)	2 (.15) or	3.0 (.15)	28 (.15) or	55 (.15)		N/A
Red Brangus	2 (.15) or	2.6 (.15)	20 (.15) or	30 (.15)		N/A
Ultrablack	2 (.15) or	3.0 (.15)	35 (.15) or	71 (.15)		N/A
Braunvieh	3 (.15) or	5.0 (.15)	46 (.15) or	72 (.15)		N/A
Charolais	0 (.15) or	2.6 (.15)	31 (.15) or	55 (.15)		N/A
Chianina/Chiangus	4 (.15) or	3.3 (.15)	48 (.15) or	71 (.15)		N/A
Gelbvieh	8 (.15) or	3.0 (.15)	66 (.15) or	95 (.15)		N/A
GV Balancer	9 (.15) or	2.3 (.15)	67 (.15) or	101 (.15)		N/A
Hereford	-4 (.15) or	5.3 (.15)	54 (.15) or	87 (.15)		N/A
Black Hereford		4.4 (.15)	47 (.15) or	78 (.15)		N/A
Limousin	8 (.15) or	3.0 (.15)	63 (.15) or	95 (.15)		N/A
Lim-Flex	9 (.15) or	2.3 (.15)	66 (.15) or	103 (.15)		N/A
Maine Anjou	3 (.15) or	3.2 (.15)	46 (.15) or	63 (.15)		N/A
Murray Grey	-2.0 (.15) or	5.8 (.15)	28 (.15) or	43 (.15)		N/A
Red Angus	9 (.15) or	1.6 (.15)	61 (.15) or	97 (.15)		N/A
Salers	-1.1 (.15) or	4.0 (.15)	36 (.15) or	70 (.15)		N/A
Santa Gertrudis		1.2 (.15)	6 (.15) or	19 (.15)		N/A
Senepol		2.6 (.15)	13 (.15) or	16 (.15)		N/A
Shorthorn	5 (.15) or	3.9 (.15)	54 (.15) or	79 (.15)		N/A
Simmental	5 (.15) or	4.0 (.15)	70 (.15) or	102 (.15)		N/A
Hybrid Simmental	7 (.15) or	3.0 (.15)	67 (.15) or	100 (.15)		N/A
South Devon		4.1 (.15)	48 (.15) or	89 (.15)		N/A
Tarentaise	-5 (.15) or	4.7 (.15)	10 (.15) or	20 (.15)		N/A

continued

## Calving Ease Bulls

TAEP Calving Ease bull type sires are utilized to improve calving ease for breeding to 10-20 heifers while maintaining acceptable growth and maternal traits. Production example: Producer with good reproductive management and facilities decides to retain, purchase, or custom develop high quality heifers which are sired by registered bulls. Preventative health and stewardship best management practices, including estrus synchronization and artificial insemination to high accuracy calving ease sire, are applied during development. Heifers are then pastures exposed to high quality calving ease bulls. Bred heifers are kept, sold, or returned to owners after veterinary diagnosis of a minimum 90 day pregnancy.

<b>CALVING EASE Bulls</b>		• (CE or BW) <u>and</u> (WW or YW) must meet or exceed minimum <u>0.15</u> Accuracy for all bull types •					
<i>(3rd bull type option)</i>		Must meet or exceed EPD requirements for: Calving ease <b>and</b> Growth <b>and</b> Maternal					
<b>Breed</b>	<b>1.) CALVING EASE</b> +		<b>2.) GROWTH</b> +		<b>3.) MATERNAL</b>		
	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum	
	<b>CE (Acc.) or</b>	<b>BW (Acc.)</b>	<b>WW (Acc.) or</b>	<b>YW (Acc.)</b>	<b>MILK</b>	<b>MILK</b>	
Angus	9 (.15) or	1.4 (.15)	42 (.15) or	73 (.15)	15 to	37	
Akaushi	9 (.15) or	-1.5 (.15)	21 (.15) or	40 (.15)	26 to	36	
Beefmaster	5 (.15) or	-1.3 (.15)	15 (.15) or	31 (.15)	7 to	14	
Brahman		-1.0 (.15)	10 (.15) or	18 (.15)	1 to	11	
Brangus (Black)	6 (.15) or	0 (.15)	18 (.15) or	34 (.15)	5 to	18	
Red Brangus	6 (.15) or	0.5 (.15)	13 (.15) or	18 (.15)	5 to	15	
Ultrablack	6 (.15) or	0.1 (.15)	23 (.15) or	46 (.15)	5 to	18	
Braunvieh	9 (.15) or	0.7 (.15)	38 (.15) or	58 (.15)	26 to	48	
Charolais	11 (.15) or	-2.0 (.15)	21 (.15) or	36 (.15)	3 to	22	
Chianina/Chiangus	12 (.15) or	0.7 (.15)	41 (.15) or	60 (.15)	11 to	26	
Gelbvieh	15 (.15) or	0.0 (.15)	57 (.15) or	80 (.15)	19 to	33	
GV Balancer	14 (.15) or	-0.4 (.15)	58 (.15) or	84 (.15)	17 to	32	
Hereford	7 (.15) or	2.0 (.15)	45 (.15) or	70 (.15)	19 to	37	
Black Hereford		1.6 (.15)	40 (.15) or	67 (.15)	20 to	27	
Limousin	15 (.15) or	-0.2 (.15)	54 (.15) or	79 (.15)	17 to	30	
Lim-Flex	14 (.15) or	-0.1 (.15)	57 (.15) or	88 (.15)	18 to	31	
Maine Anjou	11 (.15) or	-0.9 (.15)	38 (.15) or	49 (.15)	14 to	27	
Murray Grey	0.3 (.15) or	2.8 (.15)	18 (.15) or	28 (.15)	2 to	10	
Red Angus	14 (.15) or	-1.6 (.15)	50 (.15) or	77 (.15)	18 to	32	
Salers	0.6 (.15) or	1.1 (.15)	25 (.15) or	51 (.15)	10 to	30	
Santa Gertrudis		-0.3 (.15)	-2 (.15) or	-2 (.15)	-3 to	9	
Senepol		-0.2 (.15)	5 (.15) or	6 (.15)	-1 to	14	
Shorthorn	13 (.15) or	-1.2 (.15)	45 (.15) or	66 (.15)	14 to	27	
Simmental	13 (.15) or	0.5 (.15)	59 (.15) or	86 (.15)	15 to	32	
Hybrid Simmental	13 (.15) or	0.0 (.15)	54 (.15) or	79 (.15)	15 to	32	
South Devon		-0.2 (.15)	35 (.15) or	72 (.15)	18 to	36	
Tarentaise	3 (.15) or	0 (.15)	-5 (.15) or	1 (.15)	-4 to	8	

continued

Example:

Does this Angus bull qualify?

As which bull type?

CE = 9 (0.18 accuracy)  
 BW = 2.9 (0.24 accuracy)  
 WW = 41 (0.21 accuracy)  
 YW = 74 (0.05 accuracy)  
 Milk = 37

BALANCED Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal  
 Calving ease and Growth must have min. 0.15 accuracy

Calving Ease (CE)                      acceptable      greater than 5  
 Birth Weight (BW)                      unacceptable      greater than 2.8

Calving ease category:                      **acceptable**      meets CE requirement  
 \*\* CE has accuracy value greater than 0.15 \*\*

Weaning Weight (WW)                      unacceptable      lower than 48  
 Yearling Weight (YW)                      unacceptable      lower than 75

Growth category:                      **unacceptable**      meets *neither* WW or YW requirements  
 \*\* Only WW has an accuracy value greater than 0.15 \*\*

Milk    acceptable      falls between 15-37

Maternal category:                      **acceptable**      meets Milk requirement (37 is max.)

**This bull does not qualify as a "Balanced" bull: Growth category is unacceptable**

TERMINAL Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth only  
 Calving ease and Growth must have min. 0.15 accuracy

Calving Ease (CE)                      acceptable      greater than 0  
 Birth Weight (BW)                      acceptable      lower than 4.7

Calving ease category:                      **acceptable**      meets *both* CE and BW requirements  
 \*\* Both CE and BW have accuracy values greater than 0.15 \*\*

Weaning Weight (WW)                      unacceptable      lower than 55  
 Yearling Weight (YW)                      unacceptable      lower than 94

Growth category:                      **unacceptable**      meets *neither* WW or YW requirements  
 \*\* Only WW has an accuracy value greater than 0.15 \*\*

Milk    *not required for Terminal bulls*

Maternal category:                      *not a required category for Terminal bulls*

**This bull does not qualify as a "Terminal" bull: Growth category is unacceptable** continued

