

FY 2011-12 TAEP Cattle Genetics Program - Beef EPD Requirements by Breed - 3 Options

To Qualify: A bull must meet or exceed EPD requirements in **EACH** EPD category for **1 of the following 3 bull types** .

The 3 bull types are: **Balanced, Terminal or Calving Ease** bulls.

Each bull type (Balanced, Terminal or Calving Ease) has different EPD requirements.

The 3 EPD categories are: **Calving Ease, Growth and Maternal**.

Balanced and Heifer bulls must meet 3 of 3 EPD categories .

Terminal bulls must meet 2 of 2 EPD categories (Terminal bulls do not have a maternal requirement).

BALANCED Bulls

(1st bull type option)

*Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal*

| Breed | 1.) CALVING EASE + | | 2.) GROWTH + | | 3.) MATERNAL | | | | |
|-----------------------|--------------------|---------|--------------|---------|--------------|---------|------|----|------|
| | Minimum | Maximum | Minimum | Minimum | Minimum | Maximum | | | |
| | CE | or | BW | WW | or | YW | MILK | to | MILK |
| ANGUS | 3 | or | 3.0 | 40 | or | 74 | 16 | to | 32 |
| BEEFMASTER | | | 0.4 | 3 | or | 7 | -1 | to | 8 |
| BRAHMAN | | | 1.5 | 11 | or | 18 | 4 | to | 14 |
| BRANGUS & ULTRA-BLACK | | | 1.0 | 17.1 | or | 32.7 | 6.7 | to | 22.6 |
| CHAROLAIS | 4 | or | 0.3 | 16.9 | or | 29.9 | 2.9 | to | 18.7 |
| CHIANGUS & CHIANINA | | | 1.5 | 36.8 | or | 69.5 | 5.3 | to | 21.9 |
| GELBIEH | 104 | or | 1.4 | 36 | or | 67 | 14 | to | 25 |
| GELB-BALANCER | 103 | or | 0.6 | 30 | or | 65 | 13 | to | 26 |
| HEREFORD | -0.5 | or | 4.3 | 40 | or | 65 | 14 | to | 31 |
| BLACK HEREFORD | | | 3.7 | 37.5 | or | 60 | 14.1 | to | 25.8 |
| LIMOUSIN | 7 | or | 1.9 | 39 | or | 73 | 18 | to | 33 |
| LIM-FLEX | 7 | or | 0.7 | 41 | or | 82 | 22 | to | 37 |
| MAINE ANJOU | | | 1.6 | 36.4 | or | 73 | 16.2 | to | 30.9 |
| MAINE-TAINER | | | 1.1 | 31.8 | or | 66.7 | 16.1 | to | 30.9 |
| MURRAY GREY | | | 3.9 | 15 | or | 23 | 1 | to | 10 |
| RED ANGUS | 2 | or | 1.2 | 25 | or | 48 | 13 | to | 27 |
| SALERS | 0 | or | 2.2 | 34.1 | or | 67.8 | 15.5 | to | 31.7 |
| SANTA GERTRUDIS | | | 0.3 | -1 | or | -1 | -2 | to | 9 |
| SHORTHORN & HYBRID | -1.3 | or | 2.2 | 10.5 | or | 17.5 | 0.5 | to | 7.4 |
| SIMMENTAL | 7.4 | or | 0.6 | 25.5 | or | 47.2 | 0 | to | 14.2 |
| SIMM-HYBRID | | | -0.3 | 19.9 | or | 41 | -1.9 | to | 13.1 |
| SOUTH DEVON | | | 2.5 | 34.5 | or | 67.7 | 17.2 | to | 32 |

TERMINAL Bulls

(2nd bull type option)

*Must meet or exceed EPD requirements for: Calving ease **and** Growth*

| Breed | 1.) CALVING EASE + | | 2.) GROWTH | | 3.) MATERNAL | | |
|-----------------------|--------------------|---------|------------|---------|--------------|------|-----|
| | Minimum | Maximum | Minimum | Minimum | Not Required | | |
| | CE | or | BW | WW | or | YW | |
| ANGUS | 1 | or | 5.0 | 47 | or | 86 | N/A |
| BEEFMASTER | | | 1.7 | 9 | or | 14 | N/A |
| BRAHMAN | | | 3.3 | 17 | or | 28 | N/A |
| BRANGUS & ULTRA-BLACK | | | 2.9 | 23.4 | or | 43.4 | N/A |
| CHAROLAIS | 0 | or | 3.5 | 25.2 | or | 44.2 | N/A |
| CHIANGUS & CHIANINA | | | 3.7 | 43.8 | or | 81.9 | N/A |

| | | | | | | | |
|--------------------|------|----|-----|------|----|------|-----|
| GELBVIEWH | 100 | or | 4.0 | 42 | or | 75 | N/A |
| GELB-BALANCER | 101 | or | 2.8 | 36 | or | 75 | N/A |
| HEREFORD | -2 | or | 6.0 | 45 | or | 74 | N/A |
| BLACK HEREFORD | | | 5.1 | 41.5 | or | 69.6 | N/A |
| LIMOUSIN | 4 | or | 4.0 | 44 | or | 82 | N/A |
| LIM-FLEX | 5 | or | 2.5 | 46 | or | 90 | N/A |
| MAINE ANJOU | | | 4.2 | 41.9 | or | 82.2 | N/A |
| MAINE-TAINER | | | 3.2 | 36.5 | or | 74.0 | N/A |
| MURRAY GREY | | | 5.3 | 20 | or | 30 | N/A |
| RED ANGUS | 0 | or | 3.5 | 33 | or | 62 | N/A |
| SALERS | 0 | or | 4.0 | 40.9 | or | 78.5 | N/A |
| SANTA GERTRUDIS | | | 1.5 | 4 | or | 6 | N/A |
| SHORTHORN & HYBRID | -4.5 | or | 4.8 | 15.7 | or | 25.4 | N/A |
| SIMMENTAL | 4 | or | 3.5 | 33.2 | or | 59.9 | N/A |
| SIMM-HYBRID | | | 1.9 | 28.4 | or | 56.6 | N/A |
| SOUTH DEVON | | | 4.8 | 41.8 | or | 78.0 | N/A |

CALVING EASE Bulls

(3rd bull type option)

Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal

| Breed | 1.) CALVING EASE + | | 2.) GROWTH + | | 3.) MATERNAL | |
|-----------------------|--------------------|---------|--------------|---------|--------------|---------|
| | Minimum | Maximum | Minimum | Minimum | Minimum | Maximum |
| | CE | BW | WW | YW | MILK | MILK |
| ANGUS | 7 | or 1.4 | 34 | or 65 | 16 | to 32 |
| BEEFMASTER | | -1.6 | -1 | or 1 | -1 | to 8 |
| BRAHMAN | | -0.4 | 5 | or 10 | 4 | to 14 |
| BRANGUS & ULTRA-BLACK | | -0.9 | 12.6 | or 24.9 | 6.7 | to 22.6 |
| CHAROLAIS | 9.8 | or -2.9 | 12.9 | or 23 | 2.9 | to 18.7 |
| CHIANGUS & CHIANINA | | -0.8 | 32.0 | or 60.9 | 5.3 | to 21.9 |
| GELBVIEWH | 109 | or -0.7 | 32 | or 60 | 14 | to 25 |
| GELB-BALANCER | 107 | or -1.9 | 26 | or 58 | 13 | to 26 |
| HEREFORD | 2.7 | or 1.8 | 33 | or 55 | 14 | to 31 |
| BLACK HEREFORD | | 2.1 | 33.4 | or 51.8 | 14.1 | to 25.8 |
| LIMOUSIN | 12 | or 0 | 33 | or 64 | 18 | to 33 |
| LIM-FLEX | 10 | or -1.2 | 35 | or 72 | 22 | to 37 |
| MAINE ANJOU | | -0.5 | 30.1 | or 63.1 | 16.2 | to 30.9 |
| MAINE-TAINER | | -0.8 | 25.9 | or 58.0 | 16.1 | to 30.9 |
| MURRAY GREY | | 2.2 | 9 | or 13 | 1 | to 10 |
| RED ANGUS | 7 | or -0.9 | 19 | or 38 | 13 | to 27 |
| SALERS | 0.9 | or 0.4 | 29.1 | or 59.9 | 15.5 | to 31.7 |
| SANTA GERTRUDIS | | -0.6 | -5 | or -6 | -2 | to 9 |
| SHORTHORN & HYBRID | 2.2 | or 0.5 | 6.9 | or 12.0 | 0.5 | to 7.4 |
| SIMMENTAL | 11.7 | or -2.1 | 22.1 | or 41.5 | 0 | to 14.2 |
| SIMM-HYBRID | | -2.2 | 16 | or 33.9 | -1.9 | to 13.1 |
| SOUTH DEVON | | 0.6 | 27.7 | or 57.2 | 17.2 | to 32.0 |

Example: Would this Angus bull qualify? CE = 8 / BW = 3.1 / WW = 33 / YW = 68 / Milk = 32 As which Bull Type?

BALANCED Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal

| | | |
|-----------------------------|---------------------|--|
| Calving Ease (CE) | acceptable | greater than 3 |
| Birth Weight (BW) | unacceptable | greater than 3.0 |
| Calving ease category: | acceptable | meets CE requirement |
| Weaning Weight (WW) | unacceptable | lower than 40 |
| Yearling Weight (YW) | unacceptable | lower than 74 |
| Growth category: | unacceptable | meets <i>neither</i> WW or YW requirements |
| Milk | acceptable | falls between 16-32 |
| Maternal category: | acceptable | meets Milk requirement (32 is maximum) |

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 (CE) | acceptable | greater than 1 |
| Birth Weight (BW) | acceptable | lower than 5.0 |
| Calving ease category: | acceptable | meets <i>both</i> CE and BW requirements |
| Weaning Weight (WW) | unacceptable | lower than 47 |
| Yearling Weight (YW) | unacceptable | lower than 86 |
| Growth category: | unacceptable | meets <i>neither</i> WW or YW requirements |
| Milk | <i>not required for Terminal bulls</i> | |
| Maternal category: | <i>not a required category for Terminal bulls</i> | |

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

CALVING EASE Bull

Must meet or exceed EPD requirements for: Calving ease **and** Growth **and** Maternal

| | | |
|-----------------------------|-------------------|----------------------|
| Calving Ease (CE) | acceptable | greater than 7 |
| Birth Weight (BW) | unacceptable | greater than 1.4 |
| Calving ease category: | acceptable | meets CE requirement |
| Weaning Weight (WW) | unacceptable | lower than 34 |
| Yearling Weight (YW) | acceptable | greater than 65 |
| Growth category: | acceptable | meets YW requirement |
| Milk | acceptable | falls between 16-32 |

Maternal category: **acceptable** meets Milk requirement (32 is maximum)

This bull does qualify as a "Calving Ease" bull: All 3 categories are acceptable

All bulls must have individual EPD's assigned by their breed association.

Contact TAEP about other breeds: Blonde d'Aquitaine, Braunvieh, Senepol, Tarentaise.

1-800-342-8206 - Phone

cattle.genetics@TN.gov

FY 2011/2012 TAEP Cattle Genetics Program - Minimum Dairy LNM or Index Requirements by Breed

To Qualify: A bull must meet or exceed the requirements in **1 of the 2** categories.

| BREED | LNM | or | Index | Value |
|-------------------|------------|-----------|--------------|--------------|
| HOLSTEIN | 308 | or | TPI | 1719 |
| Red & White | 308 | or | TPI | 1719 |
| AYRSHIRE | 223 | or | PTI | 83 |
| BROWN SWISS | 174 | or | PPR | 80 |
| GUERNSEY | 102 | or | PTI | 78 |
| JERSEY | 217 | or | JPI | 82 |
| MILKING SHORTHORN | 50 | | | |