

# Pan American Hereford Cattle Evaluation

## Genetic Trend

EPDs as of April 10, 2023

**Includes:**

Genetic Trend: EPD and \$ Index Means by Birth Year Group

Averages and Percentile Breakdown - Active Sires

Averages and Percentile Breakdown - Active Dams

Averages and Percentile Breakdown - 2021 & 2022 Calves



**AMERICAN HEREFORD ASSOCIATION**

**EPDs as of April 10, 2023**  
**Pan American Hereford Cattle Evaluation**

**Genetic Trend: EPD & \$ Index Means - All Animals - By Birth Year Group Count**

| <b>Birth Yr.</b> | <b>Count</b> | <b>CED</b> | <b>BW</b> | <b>WW</b> | <b>YW</b> | <b>DMI</b> | <b>SC</b> | <b>SCF</b> | <b>MM</b> | <b>M&amp;G</b> | <b>CEM</b> | <b>MCW</b> | <b>UDDR</b> | <b>TEAT</b> | <b>CW</b> | <b>FAT</b> | <b>REA</b> | <b>MARB</b> | <b>BMI</b> | <b>BII</b> | <b>CHB</b> | <b>Count</b> |
|------------------|--------------|------------|-----------|-----------|-----------|------------|-----------|------------|-----------|----------------|------------|------------|-------------|-------------|-----------|------------|------------|-------------|------------|------------|------------|--------------|
| <b>91</b>        | 29,768       | 2.5        | 2.8       | 29.3      | 52.3      | -0.49      | 0.3       | 15.9       | 11.2      | 25.8           | -0.5       | 72.1       | 1.06        | 1.03        | 47.1      | -0.008     | 0.07       | 0.08        | 322.9      | 368.1      | 95.7       | 29,768       |
| <b>92</b>        | 31,088       | 2.2        | 2.9       | 30.1      | 53.4      | -0.47      | 0.3       | 15.7       | 11.4      | 26.4           | -0.4       | 73.3       | 1.06        | 1.03        | 47.2      | -0.008     | 0.07       | 0.07        | 319.3      | 364.7      | 95.1       | 31,088       |
| <b>93</b>        | 33,047       | 2.4        | 2.9       | 30.9      | 54.3      | -0.47      | 0.3       | 15.5       | 11.5      | 27.0           | -0.1       | 73.3       | 1.06        | 1.03        | 47.3      | -0.008     | 0.07       | 0.07        | 317.1      | 363.2      | 95.2       | 33,047       |
| <b>94</b>        | 35,743       | 2.2        | 3.1       | 31.6      | 55.3      | -0.47      | 0.3       | 15.2       | 11.7      | 27.5           | -0.1       | 73.8       | 1.06        | 1.03        | 47.5      | -0.008     | 0.07       | 0.07        | 312.7      | 358.9      | 95.0       | 35,743       |
| <b>95</b>        | 39,986       | 2.3        | 3.1       | 32.4      | 56.3      | -0.46      | 0.3       | 15.0       | 12.0      | 28.3           | 0.0        | 74.2       | 1.06        | 1.04        | 47.8      | -0.008     | 0.07       | 0.07        | 309.1      | 355.9      | 95.2       | 39,986       |
| <b>96</b>        | 45,255       | 2.3        | 3.1       | 33.5      | 57.5      | -0.45      | 0.3       | 14.7       | 12.5      | 29.3           | 0.0        | 74.4       | 1.07        | 1.05        | 48.1      | -0.008     | 0.08       | 0.07        | 306.7      | 354.4      | 95.7       | 45,255       |
| <b>97</b>        | 46,679       | 2.1        | 3.2       | 33.9      | 58.1      | -0.44      | 0.4       | 14.5       | 12.7      | 29.7           | 0.1        | 74.5       | 1.07        | 1.05        | 48.4      | -0.008     | 0.08       | 0.07        | 302.7      | 350.5      | 95.7       | 46,679       |
| <b>98</b>        | 55,226       | 2.1        | 3.2       | 34.6      | 58.9      | -0.43      | 0.4       | 14.2       | 12.9      | 30.3           | 0.1        | 74.6       | 1.08        | 1.06        | 48.9      | -0.008     | 0.09       | 0.07        | 298.8      | 347.3      | 96.3       | 55,226       |
| <b>99</b>        | 57,559       | 1.8        | 3.3       | 35.1      | 59.7      | -0.42      | 0.4       | 13.8       | 13.2      | 30.8           | 0.2        | 75.5       | 1.08        | 1.05        | 49.2      | -0.008     | 0.09       | 0.07        | 293.9      | 342.4      | 96.2       | 57,559       |
| <b>00</b>        | 56,409       | 1.6        | 3.4       | 35.5      | 60.2      | -0.40      | 0.4       | 13.2       | 13.6      | 31.3           | 0.2        | 76.2       | 1.07        | 1.04        | 49.7      | -0.007     | 0.09       | 0.06        | 284.8      | 333.1      | 96.2       | 56,409       |
| <b>01</b>        | 153,379      | 1.3        | 3.5       | 35.2      | 59.8      | -0.42      | 0.4       | 12.8       | 13.5      | 31.1           | 0.8        | 77.0       | 1.07        | 1.04        | 49.6      | -0.006     | 0.08       | 0.06        | 279.5      | 326.8      | 95.5       | 153,379      |
| <b>02</b>        | 144,827      | 1.2        | 3.5       | 36.1      | 60.9      | -0.40      | 0.5       | 12.5       | 14.0      | 32.0           | 0.7        | 77.5       | 1.07        | 1.04        | 50.3      | -0.006     | 0.09       | 0.06        | 275.4      | 323.4      | 95.9       | 144,827      |
| <b>03</b>        | 144,910      | 1.2        | 3.5       | 37.0      | 62.3      | -0.37      | 0.5       | 12.2       | 14.4      | 32.9           | 0.8        | 78.0       | 1.07        | 1.04        | 51.1      | -0.005     | 0.11       | 0.06        | 272.3      | 320.8      | 96.6       | 144,910      |
| <b>04</b>        | 145,574      | 1.2        | 3.5       | 37.9      | 63.5      | -0.34      | 0.5       | 12.1       | 14.8      | 33.8           | 0.8        | 78.1       | 1.07        | 1.05        | 51.9      | -0.005     | 0.12       | 0.06        | 271.4      | 320.7      | 97.1       | 145,574      |
| <b>05</b>        | 141,113      | 1.1        | 3.6       | 39.0      | 65.1      | -0.31      | 0.5       | 12.1       | 15.4      | 35.0           | 0.7        | 78.6       | 1.08        | 1.05        | 52.9      | -0.004     | 0.14       | 0.06        | 271.9      | 322.2      | 98.0       | 141,113      |
| <b>06</b>        | 138,583      | 1.1        | 3.6       | 39.9      | 66.4      | -0.28      | 0.6       | 11.9       | 16.1      | 36.1           | 0.7        | 79.1       | 1.08        | 1.06        | 53.8      | -0.003     | 0.16       | 0.06        | 270.2      | 321.3      | 98.9       | 138,583      |
| <b>07</b>        | 134,510      | 1.1        | 3.5       | 41.0      | 68.0      | -0.25      | 0.6       | 11.8       | 16.6      | 37.2           | 0.9        | 79.4       | 1.08        | 1.06        | 54.8      | -0.002     | 0.18       | 0.06        | 269.8      | 322.0      | 99.9       | 134,510      |
| <b>08</b>        | 132,051      | 1.1        | 3.5       | 41.7      | 69.0      | -0.22      | 0.6       | 11.9       | 17.1      | 38.0           | 0.8        | 79.6       | 1.09        | 1.07        | 55.6      | -0.001     | 0.19       | 0.06        | 271.4      | 324.5      | 100.8      | 132,051      |
| <b>09</b>        | 127,233      | 1.3        | 3.5       | 42.7      | 70.3      | -0.20      | 0.6       | 11.9       | 17.8      | 39.1           | 1.0        | 79.6       | 1.09        | 1.07        | 56.4      | 0.000      | 0.20       | 0.07        | 273.1      | 327.5      | 101.8      | 127,233      |
| <b>10</b>        | 130,339      | 1.3        | 3.4       | 43.5      | 71.5      | -0.17      | 0.7       | 11.8       | 18.3      | 40.1           | 1.0        | 80.9       | 1.10        | 1.08        | 57.4      | 0.001      | 0.22       | 0.07        | 272.4      | 327.6      | 102.7      | 130,339      |
| <b>11</b>        | 129,631      | 1.4        | 3.4       | 44.4      | 72.6      | -0.14      | 0.7       | 12.1       | 18.8      | 41.0           | 1.0        | 81.8       | 1.10        | 1.09        | 58.2      | 0.002      | 0.24       | 0.07        | 277.0      | 333.3      | 103.5      | 129,631      |
| <b>12</b>        | 129,404      | 1.6        | 3.3       | 45.2      | 73.8      | -0.11      | 0.7       | 12.4       | 19.4      | 42.0           | 1.0        | 82.4       | 1.11        | 1.10        | 59.0      | 0.002      | 0.25       | 0.07        | 282.3      | 339.7      | 104.2      | 129,404      |
| <b>13</b>        | 129,255      | 1.7        | 3.2       | 46.0      | 74.9      | -0.08      | 0.7       | 12.8       | 20.1      | 43.1           | 1.0        | 82.7       | 1.12        | 1.11        | 59.7      | 0.004      | 0.26       | 0.07        | 289.1      | 347.6      | 104.9      | 129,255      |
| <b>14</b>        | 129,037      | 1.9        | 3.2       | 46.9      | 76.1      | -0.06      | 0.8       | 13.2       | 20.9      | 44.3           | 1.2        | 83.0       | 1.14        | 1.12        | 60.6      | 0.005      | 0.28       | 0.08        | 295.6      | 355.4      | 106.0      | 129,037      |
| <b>15</b>        | 135,412      | 2.0        | 3.1       | 47.8      | 77.5      | -0.03      | 0.8       | 13.5       | 21.4      | 45.4           | 1.2        | 83.5       | 1.14        | 1.13        | 61.5      | 0.006      | 0.30       | 0.08        | 301.4      | 362.5      | 107.0      | 135,412      |
| <b>16</b>        | 133,718      | 2.1        | 3.1       | 48.9      | 79.1      | 0.01       | 0.8       | 14.0       | 22.3      | 46.8           | 1.3        | 84.1       | 1.16        | 1.15        | 62.6      | 0.007      | 0.32       | 0.09        | 310.0      | 372.8      | 108.5      | 133,718      |
| <b>17</b>        | 134,335      | 2.2        | 3.0       | 50.0      | 80.7      | 0.04       | 0.9       | 14.4       | 23.0      | 48.1           | 1.3        | 85.0       | 1.17        | 1.17        | 63.6      | 0.010      | 0.33       | 0.09        | 317.4      | 381.7      | 109.2      | 134,335      |
| <b>18</b>        | 132,440      | 2.4        | 2.9       | 50.9      | 82.0      | 0.07       | 0.9       | 14.8       | 23.7      | 49.2           | 1.4        | 85.5       | 1.19        | 1.18        | 64.7      | 0.011      | 0.35       | 0.10        | 324.1      | 390.0      | 110.9      | 132,440      |
| <b>19</b>        | 128,068      | 2.6        | 2.9       | 51.9      | 83.5      | 0.10       | 0.9       | 15.2       | 24.5      | 50.5           | 1.5        | 86.1       | 1.20        | 1.20        | 65.8      | 0.013      | 0.37       | 0.10        | 331.5      | 399.1      | 112.7      | 128,068      |
| <b>20</b>        | 122,550      | 2.8        | 2.8       | 53.1      | 85.2      | 0.14       | 1.0       | 15.4       | 25.2      | 51.8           | 1.6        | 87.0       | 1.21        | 1.21        | 67.1      | 0.016      | 0.39       | 0.11        | 336.6      | 405.8      | 114.2      | 122,550      |
| <b>21</b>        | 117,395      | 2.9        | 2.8       | 54.2      | 87.1      | 0.17       | 1.0       | 15.7       | 25.9      | 53.0           | 1.8        | 87.8       | 1.22        | 1.23        | 68.5      | 0.018      | 0.41       | 0.12        | 342.7      | 413.8      | 116.5      | 117,395      |
| <b>22</b>        | 88,461       | 3.1        | 2.7       | 56        | 89.6      | 0.22       | 1.1       | 16.2       | 27.1      | 55.1           | 2.2        | 88.3       | 1.24        | 1.25        | 70.1      | 0.021      | 0.43       | 0.14        | 351.6      | 425.6      | 119.3      | 88,461       |

## **Percentile Breakdowns of EPDs**

A percentile chart can be used to get a better idea of how an animal ranks in the current group of equivalent animals in the Hereford population in North America, Argentina and Uruguay. The charts are divided into five-percent increments for each trait. The top five percent are further divided into one-percent increments.

Hereford cattle can be grouped into three very broad categories. The first would be active sires in the Pan American Hereford population. These are bulls who have sired at least ten total calves in the last three years. Your herdsire or potential herdsire can be compared to this population of bulls. Very few bulls rank at the top in every trait because of inherent genetic correlations. With careful evaluation you should be able to find bulls to match your specifications. Note, no animal will fall exactly on all even percentile increments. Simply utilize the even percentile level in which the EPD has exceeded.

Since EPDs may be used to compare animals in addition to active sires, additional information is provided. The average EPDs, ranges and a percentile breakdown for yearling and two-year-old cattle born in 2021 and 2022 are also provided. This table is useful for comparing the EPDs of animals that are typically for sale or a potential herd replacement candidate.

The breakdown chart and EPD ranges for the active cows with a calf reported since Jan. 1, 2021 allow one to compare his herd with all active cows in the Hereford population in North America, Argentina and Uruguay.

**American Hereford Association**  
**EPDs as of April 10, 2023**  
**Pan American Hereford Cattle Evaluation**

**Average and Percentile Breakdown - 2021 & 2022 Calves**

|                             | Production |      |     |     | Fertility |      |      |    | Maternal |       |     |      | Carcass |     |        | \$ Indexes |       |     |     |     |
|-----------------------------|------------|------|-----|-----|-----------|------|------|----|----------|-------|-----|------|---------|-----|--------|------------|-------|-----|-----|-----|
|                             | CED        | BW   | WW  | YW  | DMI       | SC   | SCF  | MM | M&G      | CEM   | MCW | UDDR | TEAT    | CW  | FAT    | REA        | MARB  | BMI | BII | CHB |
| <b>Average</b>              | 3.0        | 2.7  | 55  | 88  | 0.2       | 1.0  | 15.9 | 26 | 54       | 2.0   | 88  | 1.2  | 1.2     | 69  | 0.019  | 0.42       | 0.13  | 347 | 420 | 118 |
| <b>Low</b>                  | -13.5      | -9.2 | -14 | -34 | -1.3      | -0.9 | -3.3 | -9 | -15      | -23.5 | -32 | 0.4  | 0.4     | -12 | -0.120 | -0.73      | -0.40 | 62  | 106 | 15  |
| <b>High</b>                 | 24.4       | 11.7 | 93  | 158 | 2.4       | 3.2  | 34.6 | 55 | 93       | 18.9  | 176 | 2.0  | 2.1     | 133 | 0.170  | 1.43       | 1.19  | 602 | 725 | 271 |
| <b>Percentile Breakdown</b> |            |      |     |     |           |      |      |    |          |       |     |      |         |     |        |            |       |     |     |     |
| <b>Upper 1%</b>             | 15.6       | -3.8 | 75  | 122 | -0.9      | 1.9  | 24.0 | 41 | 74       | 9.0   | 33  | 1.5  | 1.6     | 97  | -0.030 | 0.90       | 0.57  | 478 | 573 | 175 |
| <b>2%</b>                   | 13.3       | -1.6 | 73  | 118 | -0.5      | 1.8  | 22.9 | 39 | 72       | 8.1   | 46  | 1.5  | 1.5     | 93  | -0.030 | 0.84       | 0.49  | 461 | 555 | 167 |
| <b>3%</b>                   | 12.0       | -1.0 | 71  | 116 | -0.4      | 1.7  | 22.3 | 38 | 70       | 7.6   | 52  | 1.5  | 1.5     | 90  | -0.020 | 0.80       | 0.44  | 451 | 543 | 162 |
| <b>4%</b>                   | 11.1       | -0.6 | 70  | 114 | -0.3      | 1.7  | 21.8 | 37 | 69       | 7.2   | 55  | 1.5  | 1.5     | 89  | -0.020 | 0.77       | 0.41  | 443 | 533 | 158 |
| <b>5%</b>                   | 10.5       | -0.3 | 69  | 112 | -0.3      | 1.6  | 21.4 | 36 | 68       | 6.9   | 58  | 1.4  | 1.5     | 87  | -0.020 | 0.74       | 0.38  | 437 | 526 | 155 |
| <b>10%</b>                  | 8.5        | 0.5  | 66  | 107 | -0.2      | 1.5  | 20.1 | 34 | 65       | 5.8   | 66  | 1.4  | 1.4     | 83  | -0.010 | 0.66       | 0.30  | 415 | 501 | 144 |
| <b>15%</b>                  | 7.2        | 1.0  | 64  | 103 | -0.1      | 1.4  | 19.2 | 33 | 63       | 5.0   | 71  | 1.4  | 1.4     | 80  | -0.010 | 0.61       | 0.26  | 401 | 484 | 138 |
| <b>20%</b>                  | 6.3        | 1.4  | 63  | 101 | 0.0       | 1.3  | 18.6 | 32 | 62       | 4.5   | 74  | 1.3  | 1.4     | 78  | 0.000  | 0.57       | 0.22  | 391 | 471 | 133 |
| <b>25%</b>                  | 5.6        | 1.7  | 61  | 98  | 0.0       | 1.3  | 18.0 | 31 | 60       | 4.0   | 77  | 1.3  | 1.3     | 76  | 0.000  | 0.54       | 0.20  | 381 | 460 | 129 |
| <b>30%</b>                  | 4.9        | 1.9  | 60  | 96  | 0.1       | 1.2  | 17.6 | 30 | 59       | 3.6   | 80  | 1.3  | 1.3     | 74  | 0.010  | 0.51       | 0.17  | 373 | 450 | 125 |
| <b>35%</b>                  | 4.3        | 2.2  | 59  | 94  | 0.1       | 1.2  | 17.1 | 29 | 58       | 3.2   | 82  | 1.3  | 1.3     | 73  | 0.010  | 0.49       | 0.15  | 366 | 441 | 122 |
| <b>40%</b>                  | 3.8        | 2.4  | 58  | 93  | 0.1       | 1.1  | 16.7 | 28 | 57       | 2.8   | 84  | 1.3  | 1.3     | 72  | 0.010  | 0.46       | 0.14  | 359 | 433 | 120 |
| <b>45%</b>                  | 3.2        | 2.6  | 57  | 91  | 0.2       | 1.1  | 16.3 | 28 | 56       | 2.5   | 87  | 1.2  | 1.3     | 70  | 0.010  | 0.44       | 0.12  | 352 | 425 | 117 |
| <b>50%</b>                  | 2.7        | 2.8  | 56  | 89  | 0.2       | 1.0  | 15.9 | 27 | 55       | 2.1   | 89  | 1.2  | 1.2     | 69  | 0.020  | 0.42       | 0.11  | 346 | 417 | 115 |
| <b>55%</b>                  | 2.2        | 3.0  | 55  | 88  | 0.2       | 1.0  | 15.5 | 26 | 54       | 1.7   | 91  | 1.2  | 1.2     | 68  | 0.020  | 0.40       | 0.09  | 339 | 410 | 113 |
| <b>60%</b>                  | 1.7        | 3.2  | 54  | 86  | 0.3       | 0.9  | 15.1 | 25 | 53       | 1.4   | 93  | 1.2  | 1.2     | 67  | 0.020  | 0.38       | 0.08  | 333 | 402 | 111 |
| <b>65%</b>                  | 1.2        | 3.4  | 53  | 84  | 0.3       | 0.9  | 14.7 | 25 | 52       | 1.0   | 95  | 1.2  | 1.2     | 66  | 0.030  | 0.35       | 0.07  | 326 | 394 | 109 |
| <b>70%</b>                  | 0.7        | 3.6  | 51  | 82  | 0.4       | 0.8  | 14.3 | 24 | 50       | 0.6   | 97  | 1.2  | 1.2     | 64  | 0.030  | 0.33       | 0.05  | 319 | 386 | 107 |
| <b>75%</b>                  | 0.1        | 3.9  | 50  | 80  | 0.4       | 0.8  | 13.8 | 23 | 49       | 0.1   | 100 | 1.1  | 1.1     | 63  | 0.030  | 0.30       | 0.04  | 311 | 377 | 105 |
| <b>80%</b>                  | -0.6       | 4.2  | 49  | 78  | 0.4       | 0.7  | 13.2 | 22 | 48       | -0.5  | 103 | 1.1  | 1.1     | 61  | 0.040  | 0.27       | 0.02  | 303 | 367 | 103 |
| <b>85%</b>                  | -1.3       | 4.5  | 47  | 75  | 0.5       | 0.7  | 12.6 | 21 | 46       | -1.1  | 106 | 1.1  | 1.1     | 60  | 0.050  | 0.24       | 0.00  | 293 | 356 | 100 |
| <b>90%</b>                  | -2.3       | 5.0  | 44  | 71  | 0.6       | 0.6  | 11.8 | 19 | 43       | -2.0  | 110 | 1.1  | 1.1     | 57  | 0.050  | 0.19       | -0.02 | 281 | 342 | 97  |
| <b>95%</b>                  | -3.8       | 5.7  | 40  | 65  | 0.7       | 0.4  | 10.6 | 16 | 38       | -3.3  | 117 | 1.0  | 1.0     | 53  | 0.060  | 0.11       | -0.05 | 263 | 322 | 92  |
| <b>100%</b>                 | -13.5      | 11.7 | -14 | -34 | 2.4       | -0.9 | -3.3 | -9 | -15      | -23.5 | 176 | 0.4  | 0.4     | -12 | 0.170  | -0.73      | -0.40 | 62  | 106 | 15  |

211,710 calves born in 2021 and 2022

**American Hereford Association**  
**EPDs as of April 10, 2023**  
**Pan American Hereford Cattle Evaluation**

**Average and Percentile Breakdown - Active Sires**

|                             | Production |      |     |     | Fertility |      |      |    | Maternal |       |     |      | Carcass |     |        |       | \$ Indexes |     |     |     |
|-----------------------------|------------|------|-----|-----|-----------|------|------|----|----------|-------|-----|------|---------|-----|--------|-------|------------|-----|-----|-----|
|                             | CED        | BW   | WW  | YW  | DMI       | SC   | SCF  | MM | M&G      | CEM   | MCW | UDDR | TEAT    | CW  | FAT    | REA   | MARB       | BMI | BII | CHB |
| <b>Average</b>              | 3.2        | 2.7  | 55  | 88  | 0.2       | 1.0  | 16.0 | 26 | 54       | 1.9   | 88  | 1.2  | 1.2     | 69  | 0.019  | 0.42  | 0.13       | 347 | 420 | 118 |
| <b>Low</b>                  | -12.4      | -8.5 | -12 | -28 | -1.2      | -0.9 | -2.8 | -9 | -9       | -19.7 | -9  | 0.1  | 0.4     | 6   | -0.100 | -0.57 | -0.51      | 93  | 133 | 33  |
| <b>High</b>                 | 22.5       | 11.3 | 90  | 148 | 2.5       | 2.9  | 35.7 | 61 | 90       | 17.4  | 175 | 2.2  | 2.3     | 125 | 0.150  | 1.57  | 1.2        | 638 | 728 | 236 |
| <b>Percentile Breakdown</b> |            |      |     |     |           |      |      |    |          |       |     |      |         |     |        |       |            |     |     |     |
| <b>Upper 1%</b>             | 16.7       | -4.3 | 78  | 128 | -0.9      | 2.2  | 26.5 | 45 | 77       | 10.8  | 25  | 1.6  | 1.7     | 101 | -0.050 | 0.99  | 0.67       | 510 | 606 | 187 |
| <b>2%</b>                   | 14.8       | -2.4 | 76  | 123 | -0.7      | 2.0  | 25.3 | 42 | 74       | 9.8   | 35  | 1.6  | 1.6     | 97  | -0.040 | 0.93  | 0.57       | 493 | 586 | 178 |
| <b>3%</b>                   | 13.5       | -1.6 | 74  | 120 | -0.5      | 1.9  | 24.4 | 41 | 73       | 9.1   | 40  | 1.5  | 1.6     | 95  | -0.040 | 0.88  | 0.51       | 480 | 573 | 170 |
| <b>4%</b>                   | 12.6       | -1.1 | 73  | 117 | -0.4      | 1.9  | 23.7 | 40 | 72       | 8.6   | 43  | 1.5  | 1.6     | 93  | -0.030 | 0.84  | 0.47       | 470 | 561 | 166 |
| <b>5%</b>                   | 11.9       | -0.7 | 72  | 115 | -0.4      | 1.8  | 23.2 | 39 | 71       | 8.1   | 46  | 1.5  | 1.5     | 91  | -0.030 | 0.81  | 0.44       | 461 | 551 | 163 |
| <b>10%</b>                  | 9.6        | 0.1  | 68  | 110 | -0.2      | 1.6  | 21.4 | 36 | 67       | 6.8   | 57  | 1.4  | 1.5     | 86  | -0.020 | 0.72  | 0.34       | 433 | 520 | 150 |
| <b>15%</b>                  | 8.2        | 0.7  | 66  | 106 | -0.1      | 1.5  | 20.3 | 35 | 65       | 5.9   | 63  | 1.4  | 1.4     | 83  | -0.010 | 0.66  | 0.28       | 416 | 499 | 143 |
| <b>20%</b>                  | 7.2        | 1.1  | 64  | 103 | -0.1      | 1.4  | 19.4 | 33 | 63       | 5.2   | 68  | 1.4  | 1.4     | 80  | -0.010 | 0.61  | 0.24       | 402 | 483 | 137 |
| <b>25%</b>                  | 6.4        | 1.4  | 62  | 100 | 0.0       | 1.3  | 18.7 | 32 | 62       | 4.6   | 72  | 1.3  | 1.4     | 78  | 0.000  | 0.57  | 0.22       | 390 | 470 | 132 |
| <b>30%</b>                  | 5.6        | 1.7  | 61  | 98  | 0.0       | 1.3  | 18.1 | 31 | 60       | 4.0   | 76  | 1.3  | 1.3     | 76  | 0.000  | 0.54  | 0.19       | 380 | 458 | 128 |
| <b>35%</b>                  | 4.9        | 2.0  | 60  | 96  | 0.1       | 1.2  | 17.5 | 30 | 59       | 3.4   | 80  | 1.3  | 1.3     | 75  | 0.010  | 0.51  | 0.17       | 371 | 446 | 124 |
| <b>40%</b>                  | 4.2        | 2.3  | 58  | 93  | 0.1       | 1.1  | 16.9 | 29 | 58       | 2.9   | 83  | 1.3  | 1.3     | 73  | 0.010  | 0.48  | 0.15       | 362 | 436 | 121 |
| <b>45%</b>                  | 3.6        | 2.5  | 57  | 91  | 0.2       | 1.1  | 16.4 | 28 | 56       | 2.5   | 86  | 1.3  | 1.3     | 71  | 0.010  | 0.45  | 0.13       | 354 | 427 | 118 |
| <b>50%</b>                  | 3.0        | 2.8  | 56  | 89  | 0.2       | 1.0  | 15.9 | 27 | 55       | 2.0   | 88  | 1.2  | 1.2     | 70  | 0.020  | 0.42  | 0.11       | 346 | 418 | 115 |
| <b>55%</b>                  | 2.4        | 3.0  | 55  | 87  | 0.3       | 1.0  | 15.4 | 26 | 54       | 1.5   | 91  | 1.2  | 1.2     | 68  | 0.020  | 0.39  | 0.09       | 338 | 408 | 112 |
| <b>60%</b>                  | 1.7        | 3.2  | 53  | 85  | 0.3       | 0.9  | 14.9 | 25 | 53       | 1.0   | 94  | 1.2  | 1.2     | 67  | 0.030  | 0.36  | 0.07       | 330 | 399 | 110 |
| <b>65%</b>                  | 1.1        | 3.5  | 52  | 83  | 0.3       | 0.8  | 14.3 | 24 | 51       | 0.5   | 97  | 1.2  | 1.2     | 65  | 0.030  | 0.33  | 0.05       | 321 | 389 | 107 |
| <b>70%</b>                  | 0.5        | 3.7  | 51  | 81  | 0.4       | 0.8  | 13.8 | 23 | 50       | 0.0   | 101 | 1.2  | 1.1     | 63  | 0.040  | 0.30  | 0.03       | 312 | 379 | 104 |
| <b>75%</b>                  | -0.2       | 4.0  | 49  | 79  | 0.5       | 0.7  | 13.2 | 22 | 48       | -0.6  | 104 | 1.1  | 1.1     | 61  | 0.040  | 0.27  | 0.01       | 303 | 369 | 101 |
| <b>80%</b>                  | -1.0       | 4.3  | 48  | 76  | 0.5       | 0.6  | 12.6 | 20 | 46       | -1.3  | 108 | 1.1  | 1.1     | 59  | 0.050  | 0.23  | -0.01      | 292 | 356 | 98  |
| <b>85%</b>                  | -1.8       | 4.7  | 46  | 73  | 0.6       | 0.6  | 11.7 | 18 | 44       | -2.0  | 112 | 1.1  | 1.1     | 57  | 0.050  | 0.17  | -0.04      | 279 | 342 | 94  |
| <b>90%</b>                  | -2.9       | 5.2  | 43  | 68  | 0.7       | 0.4  | 10.7 | 16 | 41       | -3.2  | 118 | 1.0  | 1.0     | 53  | 0.060  | 0.11  | -0.07      | 264 | 325 | 89  |
| <b>95%</b>                  | -4.6       | 6.0  | 38  | 60  | 0.8       | 0.3  | 9.0  | 12 | 35       | -4.6  | 126 | 1.0  | 0.9     | 47  | 0.080  | 0.02  | -0.12      | 238 | 298 | 81  |
| <b>100%</b>                 | -12.4      | 11.3 | -12 | -28 | 2.5       | -0.9 | -2.8 | -9 | -9       | -19.7 | 175 | 0.1  | 0.4     | 6   | 0.150  | -0.57 | -0.51      | 93  | 133 | 33  |

7,414 sires produced at least 10 calves since January 1, 2021

**American Hereford Association**  
**EPDs as of April 10, 2023**  
**Pan American Hereford Cattle Evaluation**

**Average and Percentile Breakdown - Active Dams**

|                             | Production |      |     |     | Fertility |      |      |     | Maternal |       |     |      | Carcass |     |        |       | \$ Indexes |     |     |     |
|-----------------------------|------------|------|-----|-----|-----------|------|------|-----|----------|-------|-----|------|---------|-----|--------|-------|------------|-----|-----|-----|
|                             | CED        | BW   | WW  | YW  | DMI       | SC   | SCF  | MM  | M&G      | CEM   | MCW | UDDR | TEAT    | CW  | FAT    | REA   | MARB       | BMI | BII | CHB |
| <b>Average</b>              | 2.3        | 3.0  | 51  | 82  | 0.1       | 0.9  | 15.0 | 24  | 50       | 1.5   | 85  | 1.2  | 1.2     | 65  | 0.012  | 0.35  | 0.10       | 328 | 394 | 111 |
| <b>Low</b>                  | -13.7      | -9.1 | -19 | -40 | -1.5      | -0.8 | -4.4 | -10 | -20      | -25.6 | -20 | 0.0  | 0.1     | -6  | -0.100 | -0.81 | -0.45      | 48  | 90  | 16  |
| <b>High</b>                 | 24.6       | 12.1 | 91  | 160 | 1.6       | 2.8  | 33.9 | 58  | 92       | 17.3  | 199 | 2.1  | 2.1     | 126 | 0.170  | 1.37  | 1.24       | 659 | 768 | 245 |
| <b>Percentile Breakdown</b> |            |      |     |     |           |      |      |     |          |       |     |      |         |     |        |       |            |     |     |     |
| <b>Upper 1%</b>             | 16.0       | -4.4 | 72  | 117 | -0.9      | 1.8  | 24.8 | 41  | 72       | 9.5   | 26  | 1.6  | 1.6     | 92  | -0.050 | 0.85  | 0.51       | 479 | 567 | 166 |
| <b>2%</b>                   | 13.3       | -1.5 | 70  | 113 | -0.6      | 1.7  | 23.4 | 39  | 70       | 8.6   | 36  | 1.5  | 1.6     | 88  | -0.040 | 0.78  | 0.43       | 459 | 544 | 157 |
| <b>3%</b>                   | 11.9       | -0.8 | 68  | 110 | -0.5      | 1.6  | 22.5 | 38  | 68       | 7.9   | 43  | 1.5  | 1.5     | 86  | -0.030 | 0.74  | 0.39       | 446 | 530 | 152 |
| <b>4%</b>                   | 10.9       | -0.4 | 67  | 108 | -0.5      | 1.6  | 21.8 | 37  | 67       | 7.5   | 47  | 1.5  | 1.5     | 84  | -0.030 | 0.71  | 0.36       | 436 | 520 | 148 |
| <b>5%</b>                   | 10.2       | -0.1 | 66  | 106 | -0.4      | 1.5  | 21.3 | 36  | 66       | 7.1   | 51  | 1.5  | 1.5     | 83  | -0.030 | 0.68  | 0.33       | 428 | 510 | 145 |
| <b>10%</b>                  | 8.1        | 0.7  | 63  | 101 | -0.3      | 1.4  | 19.7 | 33  | 62       | 5.9   | 60  | 1.4  | 1.4     | 78  | -0.020 | 0.60  | 0.26       | 402 | 480 | 134 |
| <b>15%</b>                  | 6.8        | 1.2  | 61  | 98  | -0.2      | 1.3  | 18.7 | 32  | 60       | 5.1   | 66  | 1.4  | 1.4     | 76  | -0.010 | 0.55  | 0.22       | 386 | 461 | 128 |
| <b>20%</b>                  | 5.8        | 1.6  | 59  | 95  | -0.2      | 1.2  | 18.0 | 30  | 58       | 4.4   | 70  | 1.3  | 1.3     | 74  | -0.010 | 0.51  | 0.19       | 374 | 447 | 124 |
| <b>25%</b>                  | 5.0        | 1.9  | 58  | 93  | -0.1      | 1.1  | 17.3 | 29  | 57       | 3.9   | 73  | 1.3  | 1.3     | 72  | -0.010 | 0.48  | 0.16       | 364 | 435 | 121 |
| <b>30%</b>                  | 4.3        | 2.2  | 56  | 90  | -0.1      | 1.1  | 16.8 | 28  | 56       | 3.4   | 76  | 1.3  | 1.3     | 70  | 0.000  | 0.45  | 0.14       | 355 | 425 | 118 |
| <b>35%</b>                  | 3.7        | 2.4  | 55  | 89  | 0.0       | 1.0  | 16.3 | 27  | 54       | 3.0   | 79  | 1.2  | 1.3     | 69  | 0.000  | 0.42  | 0.13       | 347 | 415 | 115 |
| <b>40%</b>                  | 3.1        | 2.6  | 54  | 87  | 0.0       | 1.0  | 15.8 | 26  | 53       | 2.6   | 82  | 1.2  | 1.2     | 68  | 0.000  | 0.40  | 0.11       | 339 | 406 | 113 |
| <b>45%</b>                  | 2.5        | 2.8  | 53  | 85  | 0.1       | 0.9  | 15.4 | 25  | 52       | 2.1   | 84  | 1.2  | 1.2     | 66  | 0.010  | 0.38  | 0.10       | 332 | 398 | 111 |
| <b>50%</b>                  | 2.0        | 3.1  | 52  | 83  | 0.1       | 0.9  | 14.9 | 24  | 51       | 1.7   | 86  | 1.2  | 1.2     | 65  | 0.010  | 0.35  | 0.08       | 325 | 390 | 109 |
| <b>55%</b>                  | 1.5        | 3.3  | 51  | 82  | 0.1       | 0.8  | 14.5 | 24  | 49       | 1.3   | 88  | 1.2  | 1.2     | 64  | 0.010  | 0.33  | 0.07       | 318 | 383 | 107 |
| <b>60%</b>                  | 0.9        | 3.5  | 50  | 80  | 0.2       | 0.8  | 14.1 | 23  | 48       | 0.9   | 91  | 1.1  | 1.1     | 63  | 0.020  | 0.31  | 0.06       | 312 | 375 | 106 |
| <b>65%</b>                  | 0.4        | 3.7  | 49  | 78  | 0.2       | 0.7  | 13.6 | 22  | 47       | 0.4   | 93  | 1.1  | 1.1     | 62  | 0.020  | 0.28  | 0.04       | 305 | 367 | 104 |
| <b>70%</b>                  | -0.2       | 3.9  | 47  | 76  | 0.2       | 0.7  | 13.1 | 21  | 46       | -0.1  | 96  | 1.1  | 1.1     | 60  | 0.020  | 0.26  | 0.03       | 297 | 359 | 102 |
| <b>75%</b>                  | -0.8       | 4.2  | 46  | 74  | 0.3       | 0.6  | 12.6 | 20  | 44       | -0.6  | 98  | 1.1  | 1.1     | 59  | 0.030  | 0.23  | 0.01       | 289 | 350 | 100 |
| <b>80%</b>                  | -1.4       | 4.5  | 45  | 72  | 0.3       | 0.6  | 12.0 | 19  | 42       | -1.2  | 102 | 1.1  | 1.1     | 57  | 0.030  | 0.20  | 0.00       | 281 | 340 | 97  |
| <b>85%</b>                  | -2.2       | 4.8  | 43  | 69  | 0.4       | 0.5  | 11.3 | 17  | 40       | -2.0  | 105 | 1.1  | 1.0     | 55  | 0.040  | 0.16  | -0.02      | 270 | 328 | 95  |
| <b>90%</b>                  | -3.2       | 5.3  | 40  | 65  | 0.5       | 0.4  | 10.4 | 15  | 38       | -3.0  | 110 | 1.0  | 1.0     | 53  | 0.050  | 0.12  | -0.05      | 257 | 314 | 91  |
| <b>95%</b>                  | -4.7       | 6.0  | 36  | 58  | 0.6       | 0.3  | 9.0  | 12  | 32       | -4.7  | 118 | 1.0  | 0.9     | 49  | 0.060  | 0.04  | -0.09      | 236 | 293 | 85  |
| <b>100%</b>                 | -13.7      | 12.1 | -19 | -41 | 1.6       | -0.8 | -4.4 | -10 | -20      | -25.6 | 199 | 0.0  | 0.1     | -6  | 0.170  | -0.81 | -0.45      | 49  | 90  | 16  |

137,878 cows calving since January 1, 2021