

# FALL 2017 CHAROLAIS NATIONAL CATTLE EVALUATION

## American-International Charolais Association

### PHENOTYPIC TREND - BIRTH AND GROWTH

(Includes all animals in the AICA Performance Database used in computation of EPD)

| YEAR | FEMALES |     |      |     | MALES |     |      |      |
|------|---------|-----|------|-----|-------|-----|------|------|
|      | BWT     | WWT | GAIN | YWT | BWT   | WWT | GAIN | YWT  |
| 1991 | 88      | 579 | 298  | 876 | 92    | 634 | 491  | 1124 |
| 1992 | 88      | 591 | 291  | 882 | 92    | 645 | 486  | 1134 |
| 1993 | 87      | 592 | 288  | 882 | 91    | 643 | 495  | 1151 |
| 1994 | 87      | 584 | 290  | 875 | 91    | 637 | 493  | 1135 |
| 1995 | 86      | 583 | 287  | 871 | 91    | 635 | 481  | 1128 |
| 1996 | 86      | 574 | 282  | 861 | 90    | 626 | 484  | 1114 |
| 1997 | 86      | 578 | 293  | 884 | 90    | 634 | 494  | 1141 |
| 1998 | 85      | 581 | 300  | 888 | 89    | 635 | 498  | 1143 |
| 1999 | 85      | 591 | 310  | 906 | 89    | 648 | 519  | 1175 |
| 2000 | 85      | 598 | 304  | 913 | 89    | 657 | 500  | 1166 |
| 2001 | 85      | 596 | 298  | 902 | 89    | 652 | 499  | 1159 |
| 2002 | 85      | 594 | 312  | 914 | 89    | 654 | 507  | 1171 |
| 2003 | 85      | 596 | 308  | 912 | 89    | 653 | 503  | 1172 |
| 2004 | 84      | 603 | 291  | 906 | 89    | 669 | 511  | 1193 |
| 2005 | 85      | 600 | 314  | 923 | 89    | 665 | 513  | 1195 |
| 2006 | 84      | 607 | 307  | 912 | 89    | 674 | 499  | 1184 |
| 2007 | 84      | 595 | 299  | 898 | 89    | 665 | 503  | 1183 |
| 2008 | 84      | 601 | 278  | 886 | 89    | 665 | 503  | 1191 |
| 2009 | 84      | 601 | 282  | 893 | 88    | 666 | 496  | 1182 |
| 2010 | 83      | 602 | 275  | 874 | 88    | 671 | 492  | 1181 |
| 2011 | 83      | 602 | 274  | 880 | 88    | 665 | 509  | 1184 |
| 2012 | 83      | 607 | 275  | 885 | 88    | 677 | 496  | 1192 |
| 2013 | 83      | 601 | 267  | 877 | 88    | 663 | 499  | 1178 |
| 2014 | 83      | 607 | 279  | 902 | 88    | 675 | 509  | 1197 |
| 2015 | 83      | 610 | 276  | 909 | 88    | 678 | 502  | 1196 |
| 2016 | 83      | 614 | 278  | 922 | 88    | 681 | 503  | 1221 |

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Phenotypic Distribution for Carcasses (Male) in the Charolais Database. Adjusted to 480 Days.

| Trait                    | No. of Records | Avg   | Std. Dev | Min  | Max   |
|--------------------------|----------------|-------|----------|------|-------|
| Hot Carcass Weight (HCW) | 7,431          | 809   | 98.20    | 410  | 1135  |
| Ribeye Area (REA)        | 7,610          | 14.08 | 1.56     | 9.10 | 20.10 |
| Fat Thickness (FAT)      | 7,578          | 0.40  | 0.17     | 0.01 | 2.22  |
| Marbling (MARB)          | 7,563          | 4.83  | 1.11     | 1.10 | 10.00 |

Phenotypic Distribution for Carcasses (Female) in the Charolais Database. Adjusted to 480 Days.

| Trait                    | No. of Records | Avg   | Std. Dev | Min  | Max   |
|--------------------------|----------------|-------|----------|------|-------|
| Hot Carcass Weight (HCW) | 3,680          | 809   | 84.03    | 466  | 1253  |
| Ribeye Area (REA)        | 3,681          | 14.99 | 1.79     | 9.50 | 21.70 |
| Fat Thickness (FAT)      | 3,474          | 0.38  | 0.16     | 0.05 | 3.53  |
| Marbling (MARB)          | 3,457          | 4.52  | 1.03     | 2.12 | 9.55  |

Phenotypic Distribution for Ultrasound (Bulls) in the Charolais Database. Adjusted to 365 Days.

| Trait              | No. of Records | Avg   | Std. Dev | Min  | Max   |
|--------------------|----------------|-------|----------|------|-------|
| Scan Weight        | 53,263         | 1146  | 138.73   | 405  | 2065  |
| Ribeye Area        | 53,805         | 13.81 | 1.92     | 5.70 | 21.70 |
| Rib Fat Thickness  | 49,311         | 0.17  | 0.06     | 0.03 | 0.50  |
| Rump Fat Thickness | 35,155         | 0.19  | 0.07     | 0.02 | 0.63  |
| % IMF              | 51,906         | 2.78  | 0.66     | 0.65 | 6.13  |

Phenotypic Distribution for Ultrasound (Heifers) in the Charolais Database. Adjusted to 365 Days.

| Trait              | No. of Records | Avg   | Std. Dev | Min  | Max   |
|--------------------|----------------|-------|----------|------|-------|
| Scan Weight        | 11,464         | 845   | 110.13   | 424  | 1438  |
| Ribeye Area        | 11,420         | 10.31 | 1.60     | 5.60 | 17.00 |
| Rib Fat Thickness  | 10,130         | 0.16  | 0.06     | 0.03 | 0.47  |
| Rump Fat Thickness | 7,904          | 0.21  | 0.08     | 0.03 | 0.60  |
| % IMF              | 11,026         | 3.39  | 0.84     | 0.95 | 7.53  |