

AgSource Breed Averages, Revised January 1, 2018

| Breed Name | AYRSHIRE | BR SWISS | GUERNSEY | M SHORT | CROSS BRED |
|---|----------------|----------------|----------------|----------------|----------------|
| Herd Count | 18 | 67 | 22 | 8 | 29 |
| | Average | Average | Average | Average | Average |
| Cows/Herd | 23.4 | 47.3 | 61.6 | 21.1 | 87 |
| Production Measures | | | | | |
| RHA Milk | 18718 | 19844 | 17531 | 16560 | 19456 |
| RHA Fat | 728 | 833 | 817 | 624 | 796 |
| RHA Protein | 586 | 678 | 599 | 514 | 637 |
| RHA Cheese Yield | 1950 | 2254 | 2041 | 1692 | 2129 |
| Management Level Milk (MLM) | 62.3 | 72.5 | 62.8 | 53.1 | 67.4 |
| Daily Milk | 61.1 | 62.8 | 55.1 | 49.7 | 59.4 |
| RHA Fat % | 3.9 | 4.2 | 4.7 | 3.8 | 4.1 |
| RHA Protein % | 3.1 | 3.4 | 3.4 | 3.1 | 3.3 |
| Mature Equivalent Production Measures | | | | | |
| 1st Lactation ME Milk | 19589 | 22547 | 18273 | 18517 | 21511 |
| 1st Lactation ME Fat | 758 | 933 | 819 | 696 | 886 |
| 1st Lactation ME Protein | 604 | 748 | 596 | 564 | 684 |
| 2nd Lactation ME Milk | 20282 | 22938 | 18998 | 19824 | 20978 |
| 2nd Lactation ME Fat | 763 | 937 | 849 | 746 | 867 |
| 2nd Lactation ME Protein | 628 | 758 | 623 | 593 | 671 |
| 3+ Lactation ME Milk | 19985 | 22092 | 18908 | 19737 | 20780 |
| 3+ Lactation ME Fat | 767 | 923 | 864 | 749 | 865 |
| 3+ Lactation ME Protein | 613 | 735 | 627 | 586 | 668 |
| Stage of Lactation Production Measures | | | | | |
| 1st Lactation Peak Milk | 70.1 | 65.6 | 61.4 | 61.2 | 67.2 |
| 2nd Lactation Peak Milk | 85.4 | 85.3 | 78.1 | 76.2 | 82.8 |
| 3+ Lactation Peak Milk | 94.3 | 92.8 | 82.5 | 86 | 90.8 |
| 1st Lact 1-100 Days Milk | 61 | 59.7 | 52.5 | 52.7 | 57.3 |
| 1st Lact 101-240 Days Milk | 58.9 | 57.3 | 52.5 | 42.3 | 53.3 |
| 1st Lact 241+ Days Milk | 44.5 | 48.3 | 44.1 | 42.8 | 47.5 |
| 2nd Lact 1-100 Days Milk | 73.3 | 75.9 | 67.4 | 78.6 | 73.6 |
| 2nd Lact 101-240 Days Milk | 64 | 67 | 57.9 | 49.4 | 59.4 |
| 2nd Lact 241+ Days Milk | 45.1 | 50.5 | 43.4 | 44.5 | 45.6 |
| 3+ Lact 1-100 Days Milk | 78.7 | 80.4 | 73.6 | 70.6 | 79.6 |
| 3+ Lact 101-240 Days Milk | 64.4 | 71.9 | 60.5 | 61.5 | 63.4 |
| 3+ Lact 241+ Days Milk | 48.7 | 55.6 | 46.2 | 33.3 | 48.3 |
| Days In Milk Measures | | | | | |
| Herd Average Days In Milk (DIM) | 155.8 | 194.3 | 176.4 | 196.6 | 181.6 |
| Lactation Days In Milk (LDIM) | 309.3 | 315.4 | 318 | 300.3 | 311.2 |
| % Days In Milk (%LACD) | 84.2 | 85.9 | 86.8 | 82 | 84.7 |
| Accuracy Measure | | | | | |
| % of Bulk (DHI Wt / Bulk Tank Wt) | 103 | 104 | 103 | 106 | 101 |
| Herd Age Measure | | | | | |
| 1st Lact Age at Calving | 28.1 | 27 | 26.9 | 27.4 | 25.7 |
| Herd Avg Age at Calving (Months) | 49.2 | 46.8 | 45.3 | 54.8 | 44.7 |
| Reproductive Analysis - Cows | | | | | |
| Annual Pregnancy Rate % | 17.9 | 15.7 | 14.6 | 39 | 19.6 |
| Annual Service Rate % | 40.1 | 39.1 | 43.2 | 54 | 48.4 |
| Annual Pregnancy Loss % | 1.7 | 4.8 | 6.6 | 11 | 3.4 |
| Calculated Voluntary Waiting Period | 50.9 | 54.1 | 52.5 | 59 | 51.9 |
| Average DIM at 1st Breeding | 79.3 | 88.6 | 80.3 | 64 | 78 |
| Calving Interval Projected | 13.3 | 14.3 | 14.3 | 13 | 13 |
| Calving Interval Historic | 13.7 | 14.6 | 14.2 | 13.8 | 13.1 |
| Days Open PG | 111 | 147.7 | 138 | 159 | 115.9 |

| | | | | | |
|--|------|------|------|------|------|
| Services Per Conception (SPC PG) | 1.8 | 1.9 | 2 | 2 | 1.8 |
| Conception Rate % 1st Lactation | 57 | 57.1 | 49.6 | 50 | 67.4 |
| Conception Rate % 2nd Lactation | 63.9 | 58.4 | 48.1 | 75 | 51.6 |
| Conception Rate % 3+ Lactation | 54.6 | 59.8 | 53.6 | 33 | 59.4 |
| % Total Repeats 3-17 Days | 3.7 | 3.2 | 2.6 | 6 | 4.4 |
| % Total Repeats 18-24 Days | 21.3 | 18.6 | 26.9 | 18 | 23.6 |
| Conception Rate % 3-17 Days | 16.8 | 19.7 | 11.7 | 0 | 27.6 |
| Conception Rate % 18-24 Days | 36 | 27.6 | 27 | 50 | 28.2 |
| Reproductive Analysis - Heifers | | | | | |
| Conception Rate % Heifers | 52.3 | 53.4 | 52.6 | 40 | 55.4 |
| Services Per Conception | 1.9 | 2 | 1.9 | 2.5 | 1.9 |
| % < 23 Months at Calving | 6.1 | 7.6 | 11.3 | 0 | 13.9 |
| % > 25 Months at Calving | 65.4 | 53.9 | 45.2 | 56.4 | 26 |
| Yearly Herd Turnover | | | | | |
| % Turnover (-) Sales for Dairy | 36.2 | 39.4 | 34.7 | 20.7 | 42.7 |
| % Total Herd Left/Died | 51 | 49.2 | 45.6 | 58.9 | 46.8 |
| % Total Herd Died | 5 | 6.3 | 7.9 | 0.7 | 8.6 |
| % Cows Leaving the Herd < 60 DIM | 11 | 11.4 | 7 | 10 | 11.1 |
| % Total Herd Sold for Dairy | 11.1 | 7.3 | 8.3 | 27.6 | 2.4 |
| % 1st Lact Left/Died | 17.4 | 17.5 | 12.1 | 26.1 | 16.8 |
| % 2nd Lact Left/Died | 10.7 | 11.2 | 12 | 13.8 | 8.4 |
| % 3+ Lact Left/Died | 26.1 | 23 | 22.7 | 26.9 | 26 |
| Udder Health | | | | | |
| Weighted Average SCC | 170 | 191 | 261 | 272 | 247 |
| Bulk Tank Weighted Average SCC | 170 | 187 | 255 | 278 | 238 |
| % of herd >= 200000 SCC | 20.8 | 19.2 | 23.4 | 32 | 22.4 |
| % of Herd New Infections | 10.5 | 10 | 12.8 | 20 | 13.2 |
| % Infected Cows That are Chronic | 54.8 | 57.3 | 57.8 | 56 | 53.4 |
| Herd Linear Score | 2.5 | 2.6 | 2.8 | 2.9 | 2.6 |
| 1st Lact Linear Score | 2 | 2.2 | 2.6 | 2.9 | 2.3 |
| 2nd & >Lact Linear Score | 2.8 | 2.8 | 2.9 | 3.1 | 2.7 |
| % Heifers Infected at First Test | 2.5 | 16.1 | 29.2 | 50 | 24.1 |
| % Fresh Cows - New Infections | 14.8 | 17.5 | 19.2 | 0 | 15.5 |
| 1st Lact Weighted Average SCC | 88 | 132 | 184 | 202 | 165 |
| 2nd & >Lact Weighted Average SCC | 207 | 231 | 315 | 302 | 260 |
| % Dry Cows Cured | 69.8 | 63.8 | 63.9 | 83 | 67.4 |
| % Dry Period Failure to Cure | 30.3 | 36.4 | 36.2 | 17 | 32.7 |
| Distribution of Herd by SCC on Test Day | | | | | |
| % of Herd < 100000 SCC | 64 | 63.4 | 59.8 | 53 | 62.3 |
| % of Herd 100000-199000 SCC | 16 | 16.7 | 16.4 | 16 | 14.6 |
| % of Herd 200000-399000 SCC | 9.8 | 8.7 | 9.6 | 12 | 9.2 |
| % of Herd 400000-799000 SCC | 6 | 5 | 6.3 | 10 | 6 |
| % of Herd >= 800000 SCC | 4.3 | 4.6 | 7 | 8 | 6.5 |
| Transition Cow Management | | | | | |
| Transition Cow Index | 788 | 218 | 395 | 678 | 28 |
| % 1st Lact Fat/Protien Ratio > 1.4 | 35.9 | 27.4 | 35.7 | 21.1 | 41.3 |
| % 2nd & >Lact Fat/Protien Ratio > 1.4 | 36.7 | 34.8 | 43.8 | 32.4 | 35 |
| Dry Period | | | | | |
| Average Days Dry | 72.3 | 71.9 | 64.1 | 72 | 67.9 |
| % 0-39 Days | 9.4 | 7.3 | 7.3 | 9 | 11.5 |
| % 40-70 Days | 63.5 | 66 | 69.9 | 45.9 | 58.8 |
| % >70 Days | 26.9 | 26.7 | 22.9 | 44.9 | 29.8 |
| Alternative Dry Period Length Measures | | | | | |
| % <30 Days | 3.2 | 3.1 | 3.2 | 0.7 | 7 |
| % 70-90 Days | 15.6 | 14.7 | 20.7 | 20.4 | 13.9 |
| % > 90 Days | 20.5 | 14.5 | 10.3 | 22.9 | 18.1 |

| Genetics (Net Merit Values Adjusted for Unidentified Sires) | | | | | |
|--|------|-------------|------|------|------|
| Service Sires Net Merit \$ | 199 | 248 | 154 | 207 | 459 |
| Heifer Sires Net Merit \$ | 145 | 171 | 128 | 59 | 309 |
| 1st Lact Sires Net Merit \$ | 89 | 92 | 81 | 37 | 202 |
| 2nd Lact Sires Net Merit \$ | 109 | 92 | 69 | 47 | 214 |
| 3+ Lact Sires Net Merit \$ | 100 | 45 | 77 | 27 | 138 |
| All Cows Sire Net Merit \$ | 102 | 72 | 68 | 36 | 150 |
| Functional Trait Measures | | | | | |
| Service Sires DPR | 0 | 0.1 | -0.1 | 1.3 | 1.3 |
| All Cows Sire DPR | -0.2 | -0.2 | -0.4 | 0.7 | 0.4 |
| Service Sires SCS | 2.95 | 2.93 | 2.95 | 3.02 | 2.89 |
| All Cows Sire SCS | 2.96 | 2.97 | 2.97 | 3.09 | 2.97 |
| Service Sires Prod Life | 1.1 | 2.6 | 1.3 | 2.4 | 4.3 |
| All Cows Sire Prod Life | 0.7 | 1 | 0.8 | 1 | 1.3 |
| Identification Measures | | | | | |
| % Cow Sires Identified | 83.8 | 92.3 | 89.8 | 91.4 | 43.6 |
| Service Sires % AI | 70.4 | 80.4 | 68.1 | 59 | 84.7 |
| All Cows Sire % AI | 80.7 | 88.7 | 84.2 | 85.1 | 51 |
| Calving | | | | | |
| % Female Calves | 52.1 | 46.6 | 47.6 | 42.2 | 50.4 |
| 1st Lact % Female Live | 96.6 | 95 | 85.7 | 87.5 | 87.6 |
| 2nd Lact % Female Live | 87.4 | 97.3 | 94.9 | 100 | 96.2 |
| 3+ Lact % Female Live | 86 | 95.3 | 94.6 | 93 | 95 |
| Management MUN Values | | | | | |
| All Herds % | | 10-14 Mg/Dl | | | |
| 1st Lactation % | | 56.3 | | | |
| 2nd > Lactation % | | 61.5 | | | |
| | | 57.2 | | | |
| Average MUN Values | | | | | |
| All Herds | 10.2 | 12.4 | 12.4 | | |
| 1st Lactation | 10.6 | 12.8 | 12.4 | | |
| 2nd > Lactation | 10 | 12.1 | 12.1 | | |