

Minnesota DHIA Scorecard for 2023 Use

* Use yearly average values when available, not current test day. All Cows, RHA Milk, December 2022

| PRODUCTION MEASURES | | Your Herd | <16,000 | 17-18,999 | 19-20,999 | 21-22,999 | 23-24,999 | 25-26,999 | >27,000 |
|---------------------------------------|---------------------------------------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| A | Average Cows per Herd | | 67 | 88 | 127 | 140 | 322 | 289 | 526 |
| B | RHA Pounds of Milk | | 15,550 | 19,642 | 22,052 | 24,044 | 25,980 | 27,910 | 30,564 |
| C | Average Mgmt. Level Milk, All Cows | | 56 | 67 | 74 | 80 | 86 | 91 | 99 |
| D | Average Peak Milk lb, 1st Lactation | | 59 | 69 | 76 | 81 | 86 | 91 | 96 |
| E | Average Peak Milk lb, All Cows | | 69 | 81 | 89 | 95 | 102 | 108 | 117 |
| F | Average Days in Milk | | 205 | 194 | 188 | 178 | 174 | 172 | 168 |
| MASTITIS | | | | | | | | | |
| G | Raw SCC (in 1,000s) | | 348 | 301 | 278 | 233 | 197 | 178 | 156 |
| H | Percent Infected (%) | | 30 | 26 | 23 | 20 | 17 | 16 | 12 |
| I | Percent New Infections(%) Yr | | 8.7 | 7.7 | 7.1 | 6.7 | 5.7 | 5.4 | 4.7 |
| IDENTIFICATION | | | | | | | | | |
| J | Percent Identified by Sire, 1st Lact. | | 56 | 72 | 81 | 89 | 94 | 96 | 98 |
| REPRODUCTION | | | | | | | | | |
| K | Percent Dry 40 to 70 Days (%) | | 50 | 64 | 67 | 73 | 78 | 82 | 85 |
| L | Pregnancy Rate (%) | | 11 | 13 | 15 | 16 | 20 | 21 | 23 |
| M | Heat Detection Index (%) | | 20 | 28 | 34 | 38 | 45 | 48 | 52 |
| N | Days to First Served | | 129 | 108 | 96 | 90 | 86 | 81 | 79 |
| O | Services per Conception | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| P | Management Calving Interval | | 16 | 15 | 14 | 14 | 13 | 13 | 13 |
| GENETICS (Adjusted for Genetic Trend) | | | | | | | | | |
| Q, R | Average NM\$, Service Sire | | 558 | 692 | 722 | 723 | 775 | 821 | 907 |
| S | Average NM\$, 1st Lact. | | 79 | 156 | 196 | 234 | 286 | 343 | 451 |
| T | Average NM\$, 2nd Lact. | | 69 | 131 | 160 | 171 | 220 | 268 | 368 |
| U | Average NM\$, 3rd+ Lact. | | -16 | 19 | 77 | 90 | 128 | 175 | 260 |
| REPLACEMENTS | | | | | | | | | |
| V | Average Age Freshening, 1st Lact. | | 29 | 28 | 26 | 26 | 25 | 24 | 24 |
| W | Percent Herd, 1st Lactation (%) | | 34 | 35 | 36 | 37 | 35 | 36 | 35 |
| X | Percent Cull Rate, 1st Lactation (%) | | 11.1 | 14.2 | 11.6 | 12.6 | 10.4 | 10.4 | 9.4 |
| Y | Annual Turnover Rate (%) | | 38.8 | 43.5 | 39.5 | 41.3 | 37.8 | 37.7 | 37.3 |

| | | | | | | |
|-------------------------|--------------------------|-------------------------|------------|-------------------------|---|-----------------------------|
| Breed HO | Herd Summary | | | | 55-99-9999 | DHI-302 |
| Type Test 23-DHIR-AP | Prev. Test 04-05-2016 | Test Date 05-03-2016 | Days 28 | Processed 05-04-2016 | HENRY SMITH SMITH DAIRY FARM | String = HERD Tech = 999 |

| | | | | | | | | |
|--|--|--|---|--|--|---|--|--|
| Peak and Persistency Peak Milk Lact 1 is shaded Yellow if Peak Ratio (1st/Others) is < .70 (Indicates under performance versus older cows) Peak Milk Lacts 2/3+ are shaded Yellow if Peak Ratio (1st/Others) is > .85 (Indicates under performance versus younger cows) | | | Yearly SCC Summary Any value will be shaded Yellow if >= 30% (Ideally should be < 20%) | | | Changes in SCC Status Cures >= 20% shaded Green if at least 8% higher than New Infections New Infections >=15% shaded Yellow if at least 8% higher than Cures (New Infections ideally should be < 8%) | | |
| Production Averages MLM is shaded Green if 10+% increase from previous test and shaded Yellow if 10+% decrease from previous test. | | | | | | | | |

| Dry Period Summary | | | |
|--------------------|------------------|---------|------|
| Avg Days | Cows by Days Dry | | |
| | < 40 | 40 - 70 | > 70 |
| 48 | 40 | 105 | 9 |
| | 26% | 68% K | 6% |
| Based on 154 Cows | | | |

| Peak and Persistency | | | | | | | | | |
|----------------------|----------|------------|------|------|-----|------|-------|---------|------|
| 305 ME | | Prod Index | Lact | Cows | DIM | Peak | | MLM | |
| Milk | \$ Value | | | | | DIM | Milk | Current | C-L |
| 24,644 | 3,908 | 104 | 1 | 72 | 200 | 76 | 98 D | 92 | +3.0 |
| 28,130 | 3,830 | 101 | 2 | 74 | 156 | 62 | 124 | 97 | +2.8 |
| 29,933 | 3,603 | 95 | 3+ | 80 | 181 | 63 | 138 | 94 | +5.7 |
| 27,638 | 3,774 | 100 | All | 226 | 179 | 67 | 121 E | 94 | +4.0 |

| Daily Milk | |
|------------|-------|
| DHI | 18112 |
| Sold | 17981 |
| Shipped % | 101 |
| Value \$ | 4166 |
| \$ / cwt | 23.00 |

| Current SCC Evaluation | | | | | | | |
|------------------------|--------|------------|------|------------------------|-----|-------|-------|
| Cows | SCC LS | % Infected | Lact | % Cows by Linear Score | | | |
| | | | | 0,1 | 2,3 | 4,5,6 | 7,8,9 |
| 64 | 0.8 | 2 | 1 | 83 | 14 | 3 | |
| 66 | 1.1 | 6 | 2 | 67 | 26 | 8 | |
| 71 | 2.1 | 18 | 3+ | 44 | 32 | 23 | 1 |
| 201 | 1.4 | 9 H | All | 64 | 24 | 11 | 0 |

Peak Ratio (1st/Others) is 0.74

Monthly SCC Production Loss is 0 Lbs with a \$ Loss of 0

| Management Level Milk | | | | | | | | | |
|-----------------------|-----------|-------|----------|------|--------------|--------------|-------|----|--|
| Annual Summary | | | All Cows | Lact | Current Test | | | | |
| Days in Milk | | | | | All Cows | Days in Milk | | | |
| < 100 | 100 - 200 | > 200 | | | < 100 | 100 - 200 | > 200 | | |
| 90 | 97 | 95 | 94 | 1 | 92 | 84 | 100 | 91 | |
| 102 | 100 | 93 | 99 | 2 | 97 | 93 | 99 | 97 | |
| 98 | 100 | 92 | 96 | 3+ | 94 | 100 | 106 | 82 | |
| 97 | 98 | 93 | 96 C | All | 94 | 93 | 102 | 88 | |

| Yearly SCC Summary | | | |
|--------------------|-------------------|----------|-------|
| Lact | % Infected by DIM | | |
| | < 30 | 30 - 220 | > 220 |
| 1 | 13 | 5 | 6 |
| 2 | 2 | 5 | 14 |
| 3+ | 11 | 16 | 23 |
| All | 8 | 9 | 13 |

| Changes in SCC Status (Distribution of Cows Sampled) | | | |
|---|----------------|--------------------------|----------------|
| Annual Fresh vs Dry Off (%) | | Current vs Last Test (%) | |
| Cures | Chronics | Cures | Chronics |
| 10 | 2 | 3 | 8 |
| Negatives | New Infections | Negatives | New Infections |
| 83 | 4 | 87 | 2 |

Based on 10 Tests

Based on 1930 Samples

Based on 137 Cows Sampled

Based on 184 Cows Sampled

| Production Averages | | | | | | | | | | | | | | | | | | | | |
|---------------------|------|-----|----------|-----------|------|-----------|------|-----------|------------|-----|------|-----|-------|-------|---------|--------|-------------------|------------------|----------------|--|
| Rolling Herd | | | Test Day | | | | Date | Quantity | | | | | | | Quality | | | | | |
| Milk | Fat | Pro | All Cows | % in Milk | Milk | % Shipped | | Milk Cows | Fresh Cows | DIM | Milk | MLM | % Fat | % Pro | Raw SCC | LS SCC | Number Infections | Fresh Infections | New Infections | |
| 29,696 B | 1034 | 876 | 226 | 90 | 81 | 101 | 203 | 18 | 179 | 90 | 94 | 3.1 | 3.1 | 61 | 1.4 | 18 | | 3 | 1 | |
| 29,979 | 1047 | 881 | 226 | 87 | 75 | 100 | 196 | 16 | 174 | 86 | 90 | 3.4 | 3.0 | 98 | 1.9 | 23 | 2 | 9 | 5 | |
| 30,291 | 1059 | 888 | 221 | 89 | 76 | 101 | 196 | 14 | 173 | 86 | 88 | 3.4 | 3.0 | 93 | 1.4 | 17 | 2 | 5 | 3 | |
| 30,544 | 1066 | 894 | 221 | 88 | 79 | 100 | 194 | 32 | 163 | 90 | 93 | 3.5 | 3.0 | 105 | 1.5 | 17 | 1 | 9 | 5 | |
| 30,657 | 1060 | 897 | 220 | 88 | 82 | 100 | 194 | 25 | 170 | 93 | 98 | 3.7 | 3.0 | 114 | 1.6 | 16 | 2 | 6 | 3 | |
| 30,765 | 1054 | 902 | 222 | 90 | 82 | 100 | 199 | 35 | 168 | 91 | 97 | 3.7 | 3.0 | 92 | 1.4 | 17 | 1 | 6 | 3 | |
| 31,139 | 1059 | 912 | 218 | 85 | 79 | 100 | 186 | 33 | 171 | 93 | 100 | 3.6 | 3.0 | 104 | 1.5 | 19 | 2 | 8 | 4 | |
| 31,533 | 1072 | 925 | 222 | 88 | 83 | 101 | 195 | 19 | 172 | 95 | 101 | 3.3 | 2.8 | 113 | 1.3 | 21 | 1 | 7 | 4 | |
| 31,680 | 1079 | 930 | 218 | 89 | 81 | 101 | 193 | 17 | 174 | 91 | 98 | 3.5 | 2.8 | 116 | 1.7 | 23 | 1 | 8 | 4 | |
| 31,690 | 1077 | 931 | 212 | 90 | 87 | 101 | 191 | 20 | 173 | 97 | 103 | 3.4 | 2.9 | 148 | 2.0 | 25 | 3 | 8 | 4 | |
| 31,688 | 1078 | 932 | 202 | 89 | 87 | 100 | 180 | 24 | 181 | 98 | 103 | 3.3 | 2.8 | 137 | 1.8 | 23 | 5 | 8 | 4 | |
| 31,620 | 1078 | 930 | 192 | 89 | 87 | 101 | 171 | 16 | 177 | 98 | 102 | 3.5 | 3.0 | 112 | 1.5 | 15 | 2 | 7 | 4 | |
| Averages > | | | 217 A | 88 | 81 | 101 | 192 | 22 | 173 F | 92 | 97 | 3.4 | 2.9 | 108 G | 1.6 | 20 | 2 | 7 | 4 | |

Record Publication

Open Disclosure

Data Collection Rating (Milk) = 91.5

| | | | | | | |
|-------------------------|---------------------------|-------------------------|------------|-------------------------|---------------------------------|-----------------------------|
| Breed HO | Consultant Summary | | | | 55-99-9999 | DHI-302 |
| Type Test 23-DHIR-AP | Prev. Test 04-05-2016 | Test Date 05-03-2016 | Days 28 | Processed 05-04-2016 | HENRY SMITH SMITH DAIRY FARM | String = HERD Tech = 999 |

| Herd Genetic Profile (Source: CDCB) | | | | | | | | | | | | | |
|-------------------------------------|---------------|------|------|---------|------|------|-----------|------------|------|--------|----------|------|--------|
| Num Bred | Service Sires | | | | | | Group | Animal PTA | | | Sire PTA | | |
| | Progeny Test | | | Genomic | | | | Num | NMS | % Rank | % AI | NMS | % Rank |
| | % | NMS | % Rk | % | NMS | % Rk | | | | | | | |
| 57 | | +0 | | 100 | +760 | 98 | Calves | 126 | +442 | 83 | 100 | +662 | 94 |
| 55 | 22 | +47 | 16 | 78 | +542 | 77 | Yearlings | 60 | +300 | 69 | 100 | +478 | 76 |
| 48 | 23 | +223 | 31 | 77 | +487 | 73 | Lact 1 | 64 | +247 | 74 | 94 | +451 | 71 |
| 62 | 29 | +53 | 16 | 71 | +582 | 85 | Lact 2 | 71 | +150 | 61 | 91 | +264 | 44 |
| 165 | 25 | +96 | Q0 | 75 | +540 | R79 | Lact 3+ | 79 | +88 | 52 | 93 | +148 | 31 |
| | | | | | | | Cows | 214 | +156 | 62 | 92 | +282 | 48 |

| Inventory | | | | | |
|-----------|------------|------|-----|--------------|-----|
| % Herd | Group | Age | Num | % Identified | |
| | | | | Sire | Dam |
| | Calves | 0-06 | 126 | 100 | 100 |
| | Yearlings | 1-05 | 60 | 100 | 100 |
| | Youngstock | 1-00 | 186 | 100 | 100 |
| 32 | Lact 1 | 1-11 | 72 | 99 | 97 |
| 33 | Lact 2 | 3-01 | 74 | 97 | 100 |
| 35 | Lact 3+ | 5-02 | 80 | 98 | 99 |
| | Cows | 3-05 | 226 | 98 | 99 |

| Cows Entering and Leaving Herd | | | | | | | | | | | | |
|--------------------------------|-------------|------|--------------------|----------|-------|------|----------|---------|------|-------|------------|-----|
| Number Entered | Number Left | Lact | Reason for Leaving | | | | | | | | % Turnover | |
| | | | Dairy | Low Milk | Repro | Sick | Mastitis | Ft/Legs | Died | Other | | |
| 72 | 11 | 1 | 2 | 3 | | | | | | 3 | 3 | 5 |
| 1 | 13 | 2 | 3 | 2 | 1 | | | | | 5 | 1 | 6 |
| | 25 | 3+ | 2 | 12 | 2 | 1 | | | | 2 | 3 | 11 |
| 73 | 49 | All | 7 | 17 | 3 | 1 | | | | 7 | 5 | 22 |
| | Left Herd | | 14% | 35% | 6% | 2% | | | | 14% | 14% | 10% |

| Reproduction Summary | | | |
|---------------------------------------|--|------|----------|
| Breeding Herd | | Cows | Heifers |
| Animals | | 201 | 66 |
| Animals Served (%) | | 91 | 94 |
| Waiting Period (days or mo) | | 61 | 12 |
| First Served (<100 days or 15 mo) (%) | | 87 | 92 |
| Time to First Services (days or mo) | | 75 | 12 |
| Services per Animal | | 1.8 | 1.5 |
| Open Period (<150 days or 17 mo) (%) | | 56 | 71 |
| Min Calving Interval (months) | | 13.1 | 22.7 |
| Heat Detection Index (%) | | | M |
| Pregnant Animals | | Cows | Heifers |
| Animals | | 137 | 47 |
| Conceived at First Service (%) | | 47 | 70 |
| Services per Conception | | 2.1 | 1.5 |
| Pregnancy Rate (%) | | 21 | L |
| Open Period (days or mo) | | 113 | 14 |
| Calving Interval (months) | | 12.9 | 22.8 |
| CI - Standard Deviation (months) | | | |
| Management Calving Interval = | | 13.4 | Months P |

| Monthly Herd Turnover | | | | | | | | | | | | | |
|-----------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| | History | | | | | | | | | | | | |
| | Test | | | | | | | | | | | | Planning |
| | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov |
| Total Cows | 221 | 220 | 223 | 221 | 223 | 228 | 228 | 232 | 233 | 238 | 238 | 237 | 238 |
| Cows Milking | 198 | 196 | 200 | 195 | 198 | 207 | 202 | 204 | 209 | 204 | 200 | 208 | 214 |
| Heifers Calving | 9 | 5 | 6 | 5 | 4 | 6 | 4 | 8 | 5 | 9 | 4 | 3 | 5 |
| Cows Calving | 19 | 14 | 16 | 13 | 10 | 14 | 13 | 16 | 16 | 15 | 13 | 28 | 19 |
| Cows Dried Off | 15 | 15 | 16 | 16 | 9 | 11 | 18 | 18 | 12 | 25 | 17 | 19 | 14 |
| Cows Dry | 23 | 24 | 23 | 26 | 25 | 21 | 26 | 28 | 24 | 34 | 38 | 29 | 24 |
| Cows Left | 5 | 6 | 3 | 7 | 2 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

| % Left Non-Dairy by 60 DIM | | | | |
|----------------------------|---------|----------|----------|-----------|
| Lact | 1 Month | 3 Months | 6 Months | 12 Months |
| 1 | 0 | 13 | 7 | 5 |
| 2 | 0 | 4 | 9 | 5 |
| 3+ | 20 | 6 | 7 | 9 |
| All | 6 | 7 | 8 | 7 |

| Birth Summary | | | | | | | | | |
|----------------|----------------|------|---------|------|--------------------------|---|---|-------|-------|
| Dam's Lact Num | Offspring Born | | | | | | | | |
| | Males | | Females | | Calving Difficulty Score | | | | |
| | Alive | Dead | Alive | Dead | 1 | 2 | 3 | 4 & 5 | % 4+5 |
| 1 | 15 | 1 | 39 | 10 | | | | | |
| 2+ | 95 | 1 | 70 | 4 | | | | | |
| Total | 110 | 2 | 109 | 14 | | | | | |

| Service or Heat Intervals (Number) | |
|------------------------------------|----|
| < 18 Days | 17 |
| 18-24 Days | 63 |
| 36-48 Days | 38 |
| Other | 85 |