

|       | A                         | B                                 | C                          | D  | E   | F                            | G                         | H   | I  | K                    | L               | M                               | N                                   |       |
|-------|---------------------------|-----------------------------------|----------------------------|--|---|------------------------------|---------------------------|---|--|----------------------|-----------------|---------------------------------|-------------------------------------|-------|
| Month | All Milk Cows Monthly Avg | PA Monthly Production million lbs | % U.S. Milk Produced in PA | Calculated Rolling 12 month production Billion lbs | Calculated Milk per Cow per Day 1/ pounds | Wholesale Milk Price dollars | PA Daily Feed Cost CWT ** | Income over Feed Cost / cow @ 75 Lbs.Milk | 75 lb Milk Margin (IOFC @ 100 Lbs. Milk) dollars | Rolling Milk average | Total Componets | %herds with component over 1650 | %Herds with 80+ lbs per cow per day |       |
| 1     | Cg Lst Yr                 | 0.0%                              | -0.8%                      | -0.5%  | -0.4%                                     | -0.8%                        | -14.5%                    | -14.2%                                    | -14.7%   | -14.5%               | 2.1%            | 3.2%                            | 12.9%                               | 12.2% |
| 2     | Cg Lst Mn                 | -0.2%                             | 4.9%                       | 0.5%   | -0.1%                                     | 1.7%                         | -5.6%                     | 4.1%                                      | -10.5%   | -5.7%                | 0.4%            | 0.5%                            | 1.2%                                | 13.8% |
| 3     | Dec-23                    | 465,000                           | 821                        | 4.4%   | 9.907                                     | 65.5                         | \$21.80                   | \$8.11                                    | \$10.27  | \$16.35              | 23,569          | 1,698                           | 64.3%                               | 36.9% |
| 4     | Nov-23                    | 466,000                           | 783                        | 4.3%   | 9.914                                     | 64.4                         | \$23.10                   | \$7.79                                    | \$11.48  | \$17.33              | 23,465          | 1,690                           | 63.5%                               | 32.4% |
| 5     | Oct-23                    | 466,000                           | 806                        | 4.3%   | 9.925                                     | 64.1                         | \$22.80                   | \$7.63                                    | \$11.38  | \$17.10              | 23,432          | 1,686                           | 62.7%                               | 32.1% |
| 6     | Sep-23                    | 466,000                           | 785                        | 4.3%   | 9.929                                     | 64.5                         | \$21.50                   | \$8.02                                    | \$10.11  | \$16.13              | 23,430          | 1,685                           | 63.2%                               | 31.8% |
| 7     | Aug-23                    | 466,000                           | 825                        | 4.4%   | 9.930                                     | 65.6                         | \$20.20                   | \$8.84                                    | \$8.14   | \$14.78              | 23,294          | 1,673                           | 61.2%                               | 34.7% |
| 8     | Jul-23                    | 466,000                           | 829                        | 4.4%   | 9.926                                     | 66.0                         | \$18.70                   | \$9.16                                    | \$6.18   | \$13.05              | 23,252          | 1,670                           | 61.3%                               | 34.9% |
| 9     | Jun-23                    | 466,000                           | 825                        | 4.4%   | 9.933                                     | 67.8                         | \$19.30                   | \$9.36                                    | \$7.45   | \$14.48              | 23,228          | 1,665                           | 60.5%                               | 42.4% |
| 10    | May-23                    | 466,000                           | 878                        | 4.4%   | 9.942                                     | 69.9                         | \$20.60                   | \$9.65                                    | \$8.21   | \$15.45              | 23,177          | 1,658                           | 59.9%                               | 44.5% |
| 11    | Apr-23                    | 466,000                           | 855                        | 4.4%   | 9.947                                     | 70.3                         | \$21.10                   | \$9.50                                    | \$8.70   | \$15.83              | 23,180          | 1,657                           | 59.4%                               | 46.4% |
| 12    | Mar-23                    | 466,000                           | 871                        | 4.4%   | 9.947                                     | 69.3                         | \$21.70                   | \$9.67                                    | \$9.02   | \$16.28              | 23,267          | 1,662                           | 60.0%                               | 44.2% |
| 13    | Feb-23                    | 466,000                           | 781                        | 4.4%   | 9.949                                     | 68.8                         | \$22.70                   | \$9.38                                    | \$9.99   | \$17.03              | 23,135          | 1,651                           | 57.9%                               | 42.5% |
| 14    | Jan-23                    | 466,000                           | 848                        | 4.4%   | 9.950                                     | 67.5                         | \$23.90                   | \$9.61                                    | \$10.71  | \$17.93              | 23,162          | 1,653                           | 58.3%                               | 38.6% |
| 15    | Dec-22                    | 465,000                           | 828                        | 4.4%   | 9.949                                     | 66.0                         | \$25.50                   | \$9.45                                    | \$12.04  | \$19.13              | 23,083          | 1,645                           | 56.9%                               | 32.9% |
| 16    | Nov-22                    | 467,000                           | 794                        | 4.4%   | 9.955                                     | 65.1                         | \$26.60                   | \$9.25                                    | \$13.01  | \$19.95              | 23,091          | 1,644                           | 57.3%                               | 28.7% |
| 17    | Oct-22                    | 468,000                           | 810                        | 4.3%   | 9.962                                     | 64.2                         | \$26.90                   | \$9.21                                    | \$13.26  | \$20.18              | 23,050          | 1,640                           | 56.2%                               | 26.9% |
| 18    | Sep-22                    | 468,000                           | 786                        | 4.3%   | 9.970                                     | 64.3                         | \$26.10                   | \$9.25                                    | \$12.63  | \$19.58              | 22,999          | 1,634                           | 55.8%                               | 26.8% |
| 19    | Aug-22                    | 468,000                           | 821                        | 4.3%   | 9.983                                     | 65.0                         | \$26.20                   | \$9.38                                    | \$12.61  | \$19.65              | 22,988          | 1,634                           | 55.2%                               | 27.7% |
| 20    | Jul-22                    | 467,000                           | 836                        | 4.4%   | 9.993                                     | 66.4                         | \$26.80                   | \$9.81                                    | \$12.74  | \$20.10              | 22,979          | 1,631                           | 55.5%                               | 31.4% |
| 21    | Jun-22                    | 467,000                           | 834                        | 4.4%   | 10.010                                    | 68.4                         | \$27.70                   | \$9.07                                    | \$13.98  | \$20.78              | 22,995          | 1,632                           | 55.3%                               | 35.2% |
| 22    | May-22                    | 467,000                           | 5                          | 4.5%   | 10.022                                    | 70.1                         | \$27.30                   | \$9.34                                    | \$13.47  | \$20.48              | 22,961          | 1,630                           | 54.2%                               | 39.6% |
| 23    | Apr-22                    | 467,000                           | 855                        | 4.5%   | 10.032                                    | 70.1                         | \$27.50                   | \$8.97                                    | \$13.90  | \$18.80              | 22,993          | 1,630                           | 54.8%                               | 42.2% |
| 24    | Mar-22                    | 467,000                           | 873                        | 4.4%   | 10.051                                    | 69.3                         | \$26.40                   | \$8.59                                    | \$13.76  | \$17.81              | 23,039          | 1,634                           | 54.3%                               | 39.5% |
| 25    | Feb-22                    | 468,000                           | 782                        | 4.5%   | 10.071                                    | 68.6                         | \$25.70                   | \$8.61                                    | \$12.82  | \$17.09              | 23,153          | 1,639                           | 55.2%                               | 38.3% |
| 26    | Jan-22                    | 468,000                           | 847                        | 4.4%   | 10.087                                    | 67.1                         | \$24.80                   | \$8.42                                    | \$12.28  | \$16.38              | 23,179          | 1,640                           | 55.0%                               | 32.7% |
| 27    | Dec-21                    | 470,000                           | 834                        | 4.4%   | 10.114                                    | 65.8                         | \$22.30                   | \$8.51                                    | \$10.34  | \$13.79              | 23,207          | 1,642                           | 55.7%                               | 28.9% |
| 28    | Dec-20                    | 478,000                           | 856                        | 4.5%   | 10.276                                    | 66.4                         | \$18.80                   | \$8.27                                    | \$7.90   | \$10.53              | 22,779          | 1,600                           | 47.6%                               | 31.4% |
| 29    | Dec-19                    | 483,000                           | 843                        | 4.6%   | 10.120                                    | 64.7                         | \$20.90                   | \$7.12                                    | \$10.34  | \$13.78              | 21,877          | 1,523                           | 34.0%                               | 23.4% |

Source: USDA, NASS [www.nass.usda.gov](http://www.nass.usda.gov)

Source: Penn State

\*1/ Milk/cow/day calculation uses an approximation that 87% of all cows are in milk while the rest are dry.

\*\* PA Daily Feed Costs = Corn, Soybean, and Hay at 75 lbs/milk production

\*\*\* IOFC (\$/cow/day) = Pmilk/100\*75 - Daily Feed Cost for 75 lbs of milk

\*\*\*\* Milk Margin (\$/cwt) = Pmilk - (Daily Feed Cost for 75 lbs of milk)/75\*100



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|    | O         | P                  | Q                             | R                    | S                         | T                              | U                            | V                                 | W                           | X                                     | Y                          | Z  | AA                  | AB                                |
|----|-----------|--------------------|-------------------------------|----------------------|---------------------------|--------------------------------|------------------------------|-----------------------------------|-----------------------------|---------------------------------------|----------------------------|--|---------------------|-----------------------------------|
|    | Month     | Average Actual SCC | % Herds less than 200,000 SCC | Average Days in Milk | % Herds DIM less than 185 | Average Current Pregnancy Rate | % Herds Pregnancy Rate > 20% | % Herds Pregnancy Rate > or = 29% | Average Days to 1st Service | % Herds with days to 1st service < 80 | Average age at 1st calving | % Herds with age at 1st calving 21-24 months | Average % left herd | % of herds with % left herd 20-35 |
| 1  | Cg Lst Yr | -4.4%              | 0.7%                          | 0.0%                 | -0.4%                     | 3.1%                           | 11.5%                        | 23.1%                             | 0.8%                        | -4.1%                                 | 0.4%                       | -4.9%  | -0.6%               | -2.0%                             |
| 2  | Cg Lst Mn | -5.8%              | 6.4%                          | -1.7%                | 6.3%                      | -1.2%                          | -0.9%                        | -3.9%                             | -0.8%                       | 1.4%                                  | 0.0%                       | -1.0%  | -0.1%               | -0.2%                             |
| 3  | Dec-23    | 184,070            | 65.6%                         | 174                  | 71.7%                     | 16.2%                          | 24.4%                        | 2.9%                              | 87                          | 41.1%                                 | 25.1                       | 45.8%  | 37.2%               | 45.3%                             |
| 4  | Nov-23    | 195,300            | 61.7%                         | 177                  | 67.4%                     | 16.4%                          | 24.6%                        | 3.0%                              | 88                          | 40.5%                                 | 25.1                       | 46.3%  | 37.2%               | 45.4%                             |
| 5  | Oct-23    | 208,120            | 57.5%                         | 180                  | 63.6%                     | 16.8%                          | 27.9%                        | 3.6%                              | 87                          | 41.7%                                 | 25.1                       | 46.2%  | 37.4%               | 44.6%                             |
| 6  | Sep-23    | 222,040            | 53.4%                         | 182                  | 59.9%                     | 17.2%                          | 30.2%                        | 4.5%                              | 88                          | 40.1%                                 | 25.1                       | 46.2%  | 37.5%               | 44.4%                             |
| 7  | Aug-23    | 229,600            | 50.4%                         | 184                  | 56.3%                     | 17.7%                          | 31.8%                        | 5.6%                              | 87                          | 39.7%                                 | 25.1                       | 46.0%  | 37.7%               | 44.8%                             |
| 8  | Jul-23    | 212,350            | 56.1%                         | 186                  | 53.6%                     | 17.8%                          | 32.7%                        | 5.5%                              | 87                          | 39.0%                                 | 25.1                       | 47.8%  | 37.3%               | 45.7%                             |
| 9  | Jun-23    | 191,470            | 61.2%                         | 187                  | 53.2%                     | 17.4%                          | 31.5%                        | 5.2%                              | 87                          | 39.4%                                 | 25.1                       | 46.7%  | 37.3%               | 45.5%                             |
| 10 | May-23    | 185,620            | 65.5%                         | 185                  | 54.9%                     | 16.8%                          | 27.0%                        | 4.0%                              | 88                          | 39.7%                                 | 25.1                       | 46.5%  | 37.3%               | 44.9%                             |
| 11 | Apr-23    | 180,210            | 66.2%                         | 180                  | 64.3%                     | 16.4%                          | 25.9%                        | 4.0%                              | 87                          | 41.3%                                 | 25.1                       | 46.8%  | 37.4%               | 45.5%                             |
| 12 | Mar-23    | 179,470            | 67.9%                         | 177                  | 69.6%                     | 16.1%                          | 24.2%                        | 3.2%                              | 87                          | 41.3%                                 | 25.1                       | 46.9%  | 37.3%               | 45.0%                             |
| 13 | Feb-23    | 183,890            | 67.7%                         | 174                  | 73.1%                     | 15.8%                          | 21.6%                        | 3.0%                              | 87                          | 41.6%                                 | 25.1                       | 47.1%  | 37.5%               | 44.9%                             |
| 14 | Jan-23    | 186,290            | 66.7%                         | 174                  | 73.0%                     | 15.6%                          | 21.9%                        | 2.6%                              | 87                          | 41.7%                                 | 25.1                       | 47.7%  | 37.4%               | 45.5%                             |
| 15 | Dec-22    | 192,600            | 65.2%                         | 174                  | 72.0%                     | 15.7%                          | 21.8%                        | 2.4%                              | 86                          | 42.8%                                 | 25.0                       | 48.2%  | 37.4%               | 46.3%                             |
| 16 | Nov-22    | 192,980            | 63.2%                         | 177                  | 68.4%                     | 15.9%                          | 23.0%                        | 2.6%                              | 86                          | 42.0%                                 | 25.0                       | 49.0%  | 38.0%               | 45.5%                             |
| 17 | Oct-22    | 202,640            | 60.4%                         | 179                  | 65.7%                     | 16.3%                          | 24.2%                        | 2.8%                              | 87                          | 42.9%                                 | 25.0                       | 49.0%  | 38.1%               | 45.7%                             |
| 18 | Sep-22    | 225,710            | 51.2%                         | 182                  | 61.8%                     | 17.0%                          | 28.8%                        | 3.6%                              | 87                          | 41.3%                                 | 25.0                       | 49.4%  | 38.0%               | 44.1%                             |
| 19 | Aug-22    | 234,100            | 48.1%                         | 184                  | 55.7%                     | 17.6%                          | 32.1%                        | 5.1%                              | 87                          | 41.0%                                 | 25.1                       | 49.4%  | 38.1%               | 42.7%                             |
| 20 | Jul-22    | 219,960            | 53.1%                         | 187                  | 51.5%                     | 17.7%                          | 32.8%                        | 5.5%                              | 86                          | 41.3%                                 | 25.0                       | 48.9%  | 38.2%               | 41.4%                             |
| 21 | Jun-22    | 210,990            | 56.5%                         | 188                  | 49.2%                     | 17.3%                          | 30.7%                        | 4.3%                              | 86                          | 42.1%                                 | 25.1                       | 48.1%  | 39.0%               | 40.7%                             |
| 22 | May-22    | 193,210            | 62.6%                         | 185                  | 55.0%                     | 16.7%                          | 27.1%                        | 3.3%                              | 86                          | 42.6%                                 | 25.1                       | 48.0%  | 39.0%               | 41.3%                             |
| 23 | Apr-22    | 184,320            | 66.2%                         | 180                  | 62.9%                     | 16.1%                          | 23.8%                        | 2.8%                              | 86                          | 42.3%                                 | 25.1                       | 47.8%  | 29.3%               | 40.4%                             |
| 24 | Mar-22    | 182,120            | 67.7%                         | 176                  | 70.5%                     | 15.6%                          | 21.2%                        | 2.6%                              | 86                          | 43.3%                                 | 25.1                       | 48.2%  | 39.1%               | 41.0%                             |
| 25 | Feb-22    | 184,160            | 65.9%                         | 173                  | 72.3%                     | 15.3%                          | 19.7%                        | 2.2%                              | 86                          | 44.2%                                 | 25.2                       | 47.6%  | 39.9%               | 38.9%                             |
| 26 | Jan-22    | 187,860            | 66.0%                         | 172                  | 73.8%                     | 15.1%                          | 18.3%                        | 2.1%                              | 86                          | 42.7%                                 | 25.2                       | 46.8%  | 40.0%               | 37.9%                             |
| 27 | Dec-21    | 189,020            | 64.9%                         | 173                  | 71.7%                     | 15.1%                          | 18.1%                        | 2.0%                              | 85                          | 44.0%                                 | 25.2                       | 46.6%  | 40.6%               | 36.5%                             |
| 28 | Dec-20    | 192,180            | 63.5%                         | 171                  | 74.0%                     | 19.0%                          | 41.3%                        | 15.4%                             | 86                          | 41.6%                                 | 25.4                       | 41.3%  | 38.1%               | 42.6%                             |
| 29 | Dec-19    | 181,230            | 67.3%                         | 174                  | 71.3%                     | 19.8%                          | 38.2%                        | 17.3%                             | 85                          | 44.1%                                 | 25.0                       | 47.1%  | 37.6%               | 44.0%                             |



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