**Individual Quarter-Milk Results and Analysis - Methods and Interpretation**

Included in this packet is the results for individual quarter-level milk cultures for all of the cows on your farm involved in the study. The results are listed by the date of the farm visit when milk was collected, with the culture results of each of the cow’s four quarters. Quarter-milk was also submitted for somatic cell count, so the right-most column lists the somatic cell count for that individual quarter-milk sample. Quarters will have listed any species identified to be causing an intramammary infection; quarters with nothing listed in this column were deemed to be uninfected (no intramammary infection present). Some quarter-milk samples were deemed to be contaminated; from these samples, we could not determine the infection status of a quarter. Cows are listed (roughly) in the order that milk samples were taken on the day of the farm visit.

We realize that this long list of individual culture results may be overwhelming to some! Additionally, given the age of these results, they are not very representative of the current status of your herd (many of these infections may have cleared, cows have left the herd, heifers have freshened in, etc.). For this reason, **we have put together a one-page summary sheet with the number of infected quarters by species group, and identified some overall trends for udder health on your farm and possible opportunities for improvement.** The comprehensive list of quarter-milk culture results is included for completeness sake, if any of you are curious about the full results.

Although many of the infections listed in these results may have cleared, there is one exception: quarters that were identified as having Staph. aureus. Infections with Staph. aureus can be chronic, sometimes living in the udder without showing any physical (clinical) signs of mastitis. Cows with chronic *Staph. aureus* infections may show occasional clinical flare-ups of mastitis (abnormal milk). As this mastitis pathogen is long-lived in the udder, contagious (passed from cow-to-cow), and can drastically increase somatic cell counts, **we’ve included a list below of cows with quarters we identified as having Staph. aureus.**

We realize that many of these quarters had already been identified on the farm, and these cows were already segregated, milked last, or otherwise treated specially. Furthermore, in the time since these cultures we taken, many cows may have already left the farm if they were identified as having high cell counts or as Staph. aureus positive. However, **we hope that this list may be useful if any of these cows are still on farm, so that you can keep a “close eye” on these quarters for elevated cell counts or an abnormal CMT, and work with your herd veterinarian or milk testing company to check if these cows are still positive for Staph. aureus.** Due to the nature of the organism, repeated cultures are sometimes needed to determine if Staph aureus is present in a quarter, as it is often shed intermittently in the milk.

***BJ Farm, Staph. aureus positive quarters by date***

* 720 LF
  + 12.17.2019 + 1.29.2020 + 2.26.2020
* 720 RF
  + 1.29.2020 + 2.26.2020
* 733 RF
  + 12.17.2019 + 1.29.2020
* 701 LH
  + 12.17.2019 + 2.26.2020
* 656 LH
  + 1.29.2020 + 2.26.2020

***Butterworks Farm, Staph. aureus positive quarters by date***

* Manzana LF
  + 1.2.2020
  + 2.4.2020
  + 3.3.2020
* Peace LF
  + 1.2.2020
  + 2.4.2020
  + 3.3.2020
* Applecore LH
  + 1.2.2020
  + 2.4.20202
  + 3.3.2020
* Applecore RH
  + 1.2.2020
  + 3.3.2020
* Applecore RF
  + 1.2.2020
  + 2.4.2020
  + 3.3.2020
* Lilac RH
  + 1.2.2020
  + 2.4.2020
  + 3.3.2020
* Plantain LF
  + 1.2.2020
* Eva LH
  + 2.4.2020

***Choiniere Farm, Staph. aureus positive quarters by date***

* 66
  + LF
    - 12.11.2019
    - 1.21.2020
    - 2.17.2020
    - 3.16.2020
* 86
  + LH
    - 12.11.2019
    - 1.21.2020
    - 2.17.2020
    - 3.16.2020
* 40
  + LH
    - 12.11.2019
    - 1.21.2020
    - 2.17.2020
    - 3.16.2020
  + LF
    - 12.11.2019
    - 1.21.2020
    - 2.17.2020
    - 3.16.2020
* 32
  + RH
    - 12.11.2019
    - 1.21.2020
    - 2.17.2020
    - 3.16.2020
* 9
  + LF
    - 12.11.2019
  + RH
    - 1.21.2020
    - 2.17.2020
    - 3.16.2020
* 62
  + RH
    - 12.11.2019
* 17
  + LF
    - 12.11.2019
    - 1.21.2020
    - 2.17.2020
    - 3.16.2020
  + RH
    - 12.11.2019
    - 1.21.2020
    - 2.17.2020
    - 3.16.2020
* 74
  + LF
    - 12.11.2019
    - 2.17.2020
* 97
  + RH
    - 12.11.2019
    - 1.21.2020
    - 3.16.2020
  + RF
    - 12.11.2019
    - 1.21.2020
    - 3.16.2020
  + LF
    - 2.17.2020
* 93
  + LH
    - 12.11.2019
    - 1.21.2020
    - 3.16.2020
  + LF
    - 1.21.2020
    - 2.17.2020
    - 3.16.2020
  + RH
    - 12.11.2019
* 69
  + RF
    - 1.21.2020

***Glennview Farm, Staph. aureus positive quarters by date***

* 165
  + LH
    - 1.14.2020
    - 2.19.2020
    - 3.19.2020
* 27
  + LH
    - 1.14.2020
    - 3.19.2020
* 169
  + RF
    - 1.14.2020
* 114
  + RF
    - 2.19.2020

***Lynd Farm, Staph. aureus positive quarters by date***

* Cheese
  + LF
    - 12.19.2019
    - 1.30.2020
* Moonwalk
  + LH
    - 12.19.2019
  + RF
    - 12.19.2019
* Magenta
  + LF
    - 1.20.2020

***Oughta-Be Farm, Staph. aureus positive quarters by date***

* Easter
  + RF
    - 1.3.2020
    - 2.14.2020
* Jersey
  + LF
    - 1.3.2020
    - 2.14.2020
    - 3.12.2020
* Tiktac
  + RF
    - 1.3.2020
    - 3.12.2020
* Honey
  + RF
    - 1.3.2020
    - 2.14.2020
    - 3.12.2020
* Ginger
  + LH
    - 1.3.2020
* Gold
  + RH
    - 2.14.2020
    - 3.12.2020
* Pistol
  + RF
    - 2.14.2020

***Paddlebridge Farm, Staph. aureus positive quarters by date***

* Marney
  + LF
    - 1.17.2020
    - 2.21.2020
    - 3.20.2020
* Shania
  + LF
    - 1.17.2020
    - 2.21.2020
    - 3.20.2020
* Scrapie
  + RF
    - 1.17.2020
    - 2.21.2020
* Annabeth
  + LF
    - 2.21.2020
    - 3.20.2020
* Annabelle
  + RF
    - 1.17.2020
    - 2.21.2020
    - 3.20.2020

***von Trapp Farm, Staph. aureus positive quarters by date***

* Leopard
  + LH
    - 1.2.2020
    - 2.12.2020
    - 3.10.2020

***Stony Pond Farm, Staph. aureus positive quarters by date***

* Charlotte
  + LF
    - 12.19.2019
* Italia
  + RF
    - 12.19.2019
* Charlie
  + LF
    - 1.10.2020

***Swallowdale, Staph. aureus positive quarters by date***

* Zeal
  + RF
    - 12.13.2019
* Gigi
  + RH
    - 1.22.2020
    - 2.28.2020