Combating the Summer Rise In SCC
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The heat and humidity of summer are upon us, and it sure gets uncomfortable at times for both people and cattle. Dairy cows usually respond to the heat and humidity by both eating less feed and producing less milk. These decreases are obviously undesirable. Also undesirable is the increase in the bulk tank somatic cell count (SCC) that usually occurs in many herds during the uncomfortable months of summer. Unfortunately, this increase usually means that there is a corresponding increase in the udder infection level in the herd. So, what can producers do during the heat-stress months of the year that can help minimize the increase in their herd's SCC level? I offer the following management practices for consideration.

1. Keep the cows' udders as clean as possible so the number of bacteria the teat ends are exposed to is minimized. The cleanliness of the free stalls and alleys is very important for keeping clean udders, so the stall bedding material and the alleys may need to be cleaned at each milking (or perhaps more frequently) to minimize the soil that gets on the cows.

2. Consider using a different stall bedding material that is less supportive of bacteria growth. Since the teat ends are exposed to bacteria as the cows are resting in the stalls, try to use a bedding material that does not support the growth of bacteria. Sand is the preferred bedding material of many producers. If your waste handling system cannot handle sand, then use kiln dried sawdust/shavings. Avoid green sawdust. Pine products are preferred to hardwood products. You may want to try adding a pH-altering product to the bedding material to slow the growth rate of bacteria in the bedding. Such products must be added every 2-3 days.

3. Keep your cows as cool as possible so they don't congregate in wet, mucky areas where they will surely end up with dirty udders. Cooler cows usually have better functioning immune systems to combat udder-invading bacteria. Provide shade if the cows are on pasture or in an exercise lot. Install fans and water misters in your free stall barn alleys, parlor holding pen and return alleys to cool the cows. In certain areas of the country cooling ponds are used to cool cows, but proper maintenance of the ponds is required to keep them from becoming contributors to a problem rather than a solution.

4. Proper udder preparation at milking time is critical to reducing/preventing the introduction of bacteria into the udder during milking. The use of predips and post dips, proper wiping and drying of the teats when cleaning them, and minimizing the machine on time are all very important in reducing the new cases of intramammary infections and in keeping the SCC value low. Barrier post milking dips may be helpful in reducing environmental pathogen caused infections.

5. Ask your nutritionist to check your rations to be sure your cows are receiving adequate levels of vitamins A and E, and selenium. These nutrients help promote a strong functioning immune system which is needed to combat udder invading bacteria and elevating SCC values.
While producers may not be able to prevent completely the increase in bulk tank SCC values that occur during the summer, there are practices that can be used that will reduce the economic impact of heat stress on cows. I encourage producers to talk with their consultants about what practices should be considered for their dairy.