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**"Cold Weather Protection"**


# COLD WEATHER

## Udder Health Solution!

**Healthy Teat Ends are Critical...  
Talk to us about your options!**

# RECOVER

Be sure your herd is PROTECTED... Let's set up a Plan Today!



**78% Tri-Blend  
Skin Conditioning Package!  
Germicide:  
1.5% Heptanoic Acid**

**Easier, Faster and LESS Messy than  
Most salves & creams!**

### Effective Cold Weather Protocol:

"Recover at Night and Valiant Pre-Post during the Day. This can speed up the Exfoliation Process resulting in Better Teat End Health." Dr. Roger Thomson DVM / M.Q. Consultant

## When are TEATS likely to FREEZE?

Winter's cold weather always raises concerns about exposing teats to the danger of frostbite. Jeff Reneau from the University of Minnesota has developed this chart for dairy producers to evaluate when preventive steps need to be taken.

One important thing to note from the chart is how important it is to prevent cows from being exposed to high winds. If winds are only 5 miles per hour or less, teats can tolerate temperatures as low as minus 20 degrees. However, if wind speeds reach 35 mph, teats may experience frost-bite at temperatures as high as 15 degrees.

|                  |    | Air temperature (degrees Fahrenheit) |    |    |    |     |                   |     |     |     |     |                            |     |     |     |  |  |  |
|------------------|----|--------------------------------------|----|----|----|-----|-------------------|-----|-----|-----|-----|----------------------------|-----|-----|-----|--|--|--|
|                  |    | 45                                   | 40 | 35 | 30 | 25  | 20                | 15  | 10  | 5   | 0   | -5                         | -10 | -15 | -20 |  |  |  |
| Wind speed (mph) | 5  | 43                                   | 37 | 32 | 27 | 22  | 16                | 11  | 6   | 1   | -5  | -10                        | -15 | -20 | -26 |  |  |  |
|                  | 10 | 34                                   | 28 | 22 | 16 | 10  | 4                 | -3  | -9  | -15 | -21 | -27                        | -33 | -40 | -46 |  |  |  |
|                  | 15 | 29                                   | 22 | 16 | 9  | 2   | -5                | -11 | -18 | -25 | -32 | -38                        | -45 | -52 | -58 |  |  |  |
|                  | 20 | 25                                   | 18 | 11 | 4  | -3  | -10               | -17 | -25 | -32 | -39 | -46                        | -53 | -60 | -67 |  |  |  |
|                  | 25 | 23                                   | 15 | 8  | 0  | -7  | -15               | -22 | -29 | -37 | -44 | -52                        | -59 | -66 | -74 |  |  |  |
|                  | 30 | 21                                   | 13 | 5  | -2 | -10 | -18               | -25 | -33 | -41 | -48 | -56                        | -63 | -71 | -79 |  |  |  |
|                  | 35 | 19                                   | 11 | 3  | -4 | -12 | -20               | -28 | -35 | -43 | -51 | -59                        | -67 | -74 | -82 |  |  |  |
|                  | 40 | 18                                   | 10 | 2  | -6 | -14 | -22               | -29 | -37 | -45 | -53 | -61                        | -69 | -77 | -85 |  |  |  |
|                  | 45 | 17                                   | 9  | 1  | -7 | -15 | -23               | -31 | -39 | -47 | -55 | -62                        | -70 | -78 | -86 |  |  |  |
|                  |    | No risk                              |    |    |    |     | Danger, some risk |     |     |     |     | Severe danger eminent risk |     |     |     |  |  |  |

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