The goal of this article is to provide some cold weather tips to keep you and your livestock healthy and safe during the frigid days of winter.

**THE ANIMALS**

**WATER** - Regardless of if you have dairy cattle, beef, sheep or goats, water is critical!

Livestock require water to maintain their immune system and stay healthy. Decreased water consumption leads to decreased feed intake, decreased milk production, decreased reproduction efficiency and reduced metabolic function.

During winter months, check water sources throughout the day to make sure they are free of ice and properly functioning.

*Lactating animals* have increased water requirements compared to non-lactating and youngstock. These requirements do not change in the winter just because it is cold outside. Look into options to divert the water from the plate cooler to the water tank for the fresh pen, or price out water heaters. Yes, there may be some increased costs in December, January and February to keep the water flowing, but it’s likely better than the alternative of decreased milk production and losses in reproductive efficiency.

**CALVES NEED MORE ENERGY!!!**

When the temperature drops below 60°F calves need more energy!

Calves are born with <5% body fat and do not have a functioning rumen to help keep them warm. If you do not increase the energy in their diet, they will use the energy from the milk or milk replacer to stay warm and will not grow.

**To improve calf health, growth and thermoregulation:**

- Feed adequate amounts of milk or milk replacer in insure that calves get enough MCals/day to meet energy requirements
- **DO NOT** increase the amount of Milk Replacer powder without also increasing the amount of water. Adding more powder to the same volume of water increases the total solids content and can lead to dehydration.
- Milk should be warm when fed (minimum 102°F), so the calf does not have to use energy to warm the milk during the digestion process.
- Read the mixing directions of your Milk Replacer, some require a warmer mixing temperature.
- A third feeding of milk/milk replacer may be needed to get enough energy into the calves when the temperatures drop below zero.
- Provide each calf with a calf jacket as temperatures drop.
  - Make sure each jacket is clean before placing on the calf.
  - Regularly adjust the leg and belly straps as the calf is growing.
  - Remove once the temperature starts to increase, or the calf begins to outgrow the jacket.
- Provide enough clean & dry bedding so the calves can nest.
- Make sure the calf is protected from the wind.

With lactating dairy cattle because as they ruminate they are producing heat. However, if the temperature drops below zero, or cows are not housed in a dry and draft free environment adjustments may be needed to accounted for increased energy needs. Work with your nutritionist to make sure energy needs are being met for cold conditions. Not adjusting energy in the diet can lead to reduced milk production and losses in reproductive efficiency.
Cold Weather

UDDER CARE – Udder prep, pre and post is always important, in wintertime it is even more important as chapped or frozen teats are a great place for bacteria to thrive. Unfortunately, freezing temperatures and teat dip don’t always mix. These tips will hopefully help keep your cows happy, healthy and help you get that Quality Milk Premium!

- Make sure teats are dry before the cows leave the parlor.
- Switch from a water based, to a glycerin based teat dip.
- Store teat dips in an area that is less likely to freeze
  - Freezing can inactivate some ingredients as well as cause ingredients to separate.
- Make sure milking systems are functioning properly as well as provide cows with clean, dry housing and protection from the wind.

THE BARN

Smoke & Fire detectors:  
Make sure these are in all of your barns and in your house and then make sure they work.  
With all of the heater systems that get set up during winter, safety should be the #1 factor.

Windows & Doors:  
Double check that all windows and doors that have been opened during the day (or warmer weather) have been closed and latched to prevent water or other items from freezing. Everyone wants to get home at night, but take 5 minutes to double check things at night, or create a check list and make this one persons responsibility.

Vaccines:  
Make sure vaccines, medication and other thermal sensitive items are properly stored, or temporarily re-located. Last winter a farmer told me it was so cold out that the vaccine was freezing in the syringe. This inactivates the vaccine and provides no benefit to the animal and costs the farmer twice the money as they now have to buy another round of vaccine.

Space heaters:  
Space heaters can be the difference between freezing and 33°F, but USE WITH CAUTION and COMMON SENSE! Do not place near flammable items such as paper towels or bedding.

YOU:  
You have spent all day, out in the cold caring for the animals that are your livelihood. You need to take care of yourself.

WATER – Dehydration can occur in winter months just as easily as in the heat. Make sure you are drinking plenty of fluids and not just coffee! Signs of dehydration include, but are not limited to, headache, dizziness, fainting, tiredness and lack of appetite.

Clothing – Be prepared, have lots of extra layers available.

- Dress in layers
- Wear clothes that wick away the sweat.
- Keep extra clothes in the barn and in your vehicle.
- If you get wet, don’t “tough it out”, take a few minutes, put on warm, dry clothes and stay healthy. A few minutes added onto chores is a lot better than frostbite due to wet socks or a week in the hospital with pneumonia due to wet overalls.
- Buy some cheap, “stretchy” gloves—they fit well UNDER your milking gloves and help keep your hands a little warmer.

STRESS

With the challenges that comes with the cold, people getting sick, cows and livestock needing extra attention, barns needs additional maintenance and then you have to make sure everything is running smooth at home, it’s important not to get overwhelmed.

- Take a 15 minute coffee/ hot chocolate break to warm up and catch up with your kids and spouse.
- Create a schedule with managers and employees so that everyone can take some time-off during winter. Even a day or two (or milking) away from the farm can improve your mental and emotional well being.
- If you are feeling overwhelmed take a break, call your neighbor, a sibling, your spouse or call your local Extension Educator and find out what programs are coming up ☺

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