

Adams Advanced Nutrition, Inc.

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Preparing for cold weather feeding

Calves need added energy during winter months. In addition to continuing their growth and development, their basic maintenance needs increase with every 10 pounds of added body weight regardless of temperature. What does change is the amount of milk replacer: +1 ounce/day at 70° (F) to +2 ounces/ day at 0° (F). Additionally, it takes approximately 2 ounces of calf starter to provide the same energy as 1 ounce of 20% fat milk replacer. Here is a chart of guidelines to help with cold weather milk replacer needs, based on the 2001 NRC nutrient requirements model for a 100 lb calf that is less than 2 months of age:



Average Daily Temperature (°F)	Additional milk replacer (20% fat) needed to match thermoneutral growth rates	
	Birth to 3 weeks	>3 weeks of age
	Lbs (Ounces)/day	Lbs (Ounces)/day
70	NONE	NONE
60	0.12 (1.9)	NONE
50	0.23 (3.7)	NONE
40	0.34 (5.4)	0.12 (1.9)
30	0.45 (7.2)	0.23 (3.7)
20	0.56 (9.0)	0.34 (5.4)
10	0.67 (10.7)	0.45 (7.2)
0	0.78 (12.5)	0.56 (9.0)
<i>Thumb Rule: +0.11 (+1.8 oz.) per 10° F temperature drop</i>		

Consider these tips:

1. Calves need housing that prevents drafts
2. Bed calves often and heavily ~ and keep them dry
3. Newborn calves must be dried quickly and thoroughly
4. Consider "calf coats" for young calves in severe weather
5. Provide warm water after every milk feeding (at minimum)
6. Feed GET MILK! starter and grower to ensure calves are getting adequate nutrients and energy
7. Consider an extra [milk replacer] feeding when the temperatures plummet around/below 0° (F).

Ask me for more information on helping your calves grow and develop, while meeting their maintenance needs during the upcoming fall and winter months!



Advanced nutrition and quality agronomy work together for the benefit of improving rations

Nutronomy... makes sense!

"Nutronomy" refers to our efforts to integrate advanced nutrition and quality agronomy ~ working together for the benefit of improving your rations. My desire is to work with you from seed to feed... and toward outstanding results in productivity and profitability. That is why Renaissance offers research-tested hybrids: corn, alfalfa and grasses. That means RESULTS! Many are tested for starch

and fiber digestibility in order to determine nutrient availability. Plan ahead for 2005 and enjoy the benefits of our *early order discounts* and *top quality hybrids*. Our selected seeds offer outstanding genetics that are impacting farms throughout the northeast and Midwest. They are value for money – an investment in your ration program. I can supply the information needed to help you make an informed decision on next year's crops. The Renaissance agronomy office is also available to assist with recommendations on varieties that can best meet your needs, climate, and soil conditions. Order your seed today and plan for success next year. Invest in quality seed from Renaissance... it's an investment in good nutrition!

Renaissance... quality you can plant!

Milking Principles: A case for environment

When it comes to producing high quality milk, the cow's environment is critically important. Consider where the cow is to be milked and housed. Many bacterial problems, such as mastitis, come from the environment. It is crucial to ensure cows are kept clean, dry and comfortable 24 hours a day. Cows that are not kept in clean and dry housing often experience decreased productivity, which impacts directly on profitability. Bacteria thrive in places where moisture and dirt collect, compounding disease concerns. Controlling bacteria can stop many problems before they happen. Take time to walk through barns and lots, and identify areas of concern.

Ensuring adequate ventilation will help herd health and impact productivity. Be sure to check air movement and exchange. Good ventilation is key to respiratory health and maintaining a suitable environment for cows.

Evaluate milking equipment on a regular basis and ensure you are milking at an optimum operating level. Consider all aspects of milking equipment: pulsator ratios, vacuum level/regulation, etc. This is important in order to encourage more milk and reduce the chance for infection.

Exposure to extremely cold weather after teat dipping may cause chapped or frozen teat ends. Check to see that the dip you use contains a skin conditioner (maximum of 10-14%), such as glycerin or lanolin. You might even consider keeping the cows in the parlor for at least one additional minute and drying teats with a single-service paper towel before releasing them from the milking area. Alleys and walkways also need to be protected from wind, which reduces the impact of low temperatures.

Make a commitment to quality milk production. "An attitude for quality is an attitude for profit." (Edited from: [Quality Milk Production](#), Andrew P. Johnson, Wisconsin)

Interested in discussing topics in this newsletter, or want to do a better job feeding and managing your cows? Call me! My goal is to help you. That's Renaissance's commitment to you!

VOLUME 3 – Number 11 – November 2004

**RENAISSANCE... geared for success!
 A Dependable Part of Your Team**

Start 'em Right! **GET MILK!**

Getting calves off to a good start is critical for a productive, profitable future. Our uniquely formulated, highly palatable line of calf starters and grower are having a positive impact on herds where they are fed. **GET MILK!** starters (18%, 20% or 22% protein) and grower (16%) will give calves what they need to grow and develop. When combined with a quality Renaissance milk replacer and good management, you'll notice a difference today... and tomorrow when they join the lactating herd! A productive, profitable cow begins at birth! Order **GET MILK!** today. It can make a difference you (and your calves) will appreciate!



WHAT'S IT LIKE AROUND THE FARM?

Mmmm... a nice cold glass of milk! The quality of milk continues to be an important issue, along with concerns about overall food quality and safety. On many farms milking speed is the goal, while the production of quality milk takes a back seat. Both are important. We need to remember that the bacteria not removed from the teat surface before the milking machine is attached will end up in the milk. Studies in New York and Wisconsin have shown that when certain bacteria are found in the milk they are a source of proteolytic enzymes or plasminogen activators that reduce dairy product shelf life and yield (Ballou, et al, 1995, Factors affecting herd milk composition. J. Dairy Sci 78:2185-2195). These, along with high SCC, may also impact taste quality. It is important to find practical ways to include quality pre-milking teat sanitation into every milking routine to ensure milk quality and safety. Next time you enjoy a glass of delicious milk... think quality and enjoy it to the last drop!

A POINT TO PONDER...

Thanksgiving is just around the corner! At this time of year our thoughts turn to the accomplishments and changes that we and our family have experienced during the past year, the challenges and opportunities that have made a difference in our lives. We've had good times and difficult times... times of joy, and times of pain and sorrow. However, as we prepare for this season, take time to be thankful for the many blessings enjoyed. There is much to be thankful for in spite of the challenges, hardships and concerns. Then, share an attitude of thanksgiving with those around us. It can uplift everyone's day.



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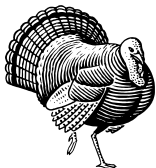
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Fall & winter feeding for results!



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