

BIOVANCE®

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Biovance® E-News

Nutrition is Physiology™

Dear Valued Customer

2008 can best be described as a challenging year for horse owners across the country. Skyrocketing feed costs, caused by bad weather, commodity speculation and out of control oil prices were bad enough. Add to the mix, our current climate of national, economic uncertainty, and what results is that horse owners are making management decisions, particularly nutritionally related management decisions, that they would not have otherwise. As we start 2009, it looks like more of the same at least for awhile.

If there was ever a time to put science to work for you and your horse, you are currently living it. Biovance® is pleased to provide you with the products, programs and professional advice you need to keep your horse happy and healthy, and do so at a cost that will surprise you (pleasantly, for once). This newsletter will introduce you to our strategic approach to "best cost" horse nutritional and health management, as well as share with you some real examples of success. Learn about "the Elmer Bandit Diet", as featured in the November issue of The Horse and some timely tips for winter feeding.

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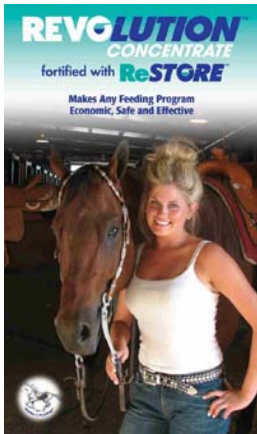
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Why Rising Feed Costs Increase Horse Health Risk



Over the last year, ingredient, manufacturing and delivery costs of commercial horse feeds have risen dramatically. This has resulted in two distinct responses in the market.

1) Feed manufacturers, to remain profitable, have been forced to use less expensive ingredients in some product lines or have introduced new products that although economical to use, may not be advisable for some horses.

2) Horse owners, to save money, make purchasing decisions that they otherwise would not have. This usually means buying products based upon bag price alone. Although for many horses, this poses no real problem, this is not the case for horses at risk.

Why should you as a horse owner be concerned?

Current knowledge of equine nutrition has made great progress in the last 10 years. Our understanding of the interaction between diet and horse health is very well documented. However, current market and economic concerns are forcing horse owners to make buying decisions that ignore this new information. What is worse is that these decisions, although understandable, may actually cost them more money in the long run, due to nutrient use inefficiencies and increased veterinary costs that are often catastrophic.

Biovance Technologies is here to help. Through a program we have been developing over the last year, and through the intervention of a patented proven technology over 10 years in the making, we can help you make your feeding program safer, more efficient, and more economical. We will advise you on a "best buy" solution for your horse and your program, using the commercial products you have readily available. This program is free of charge to you the concerned horse owner.

To learn more, please visit our website www.restoreforhorses.com and click on the Health Management Program burst. Complete and submit the on-line questionnaire and Biovance will respond with our recommendations within 48 hours. Or call our toll free number (1-877-246-7500) to speak to a Biovance nutritionist or veterinarian. This service is available during business hours Monday through Friday.

37 Year Old Elmer Bandit Breaks The Lifetime Competitive Trail Mileage Record

Question:

How at 37, did Elmer Bandit, a grey halfbred Arab gelding, break the lifetime competitive trail mileage record?

Answer:

With a devoted companion's love and with a little help from a significant breakthrough in equine nutritional health management...**Revolution™**.

Revolution™ is the result of over 20 years of university controlled, clinical and field research which focused on developing a technology that effectively prevents a number of life threatening

conditions, such as colic, founder, diarrhea, and chronic weight loss. **Revolution™** achieves this quickly, naturally, and economically by stabilizing and maximizing the natural digestive processes in the horses.

To learn more about Elmer Bandit visit www.thehorse.com, article#13149.

Winter Warning!

The Odds of a Colic Incident Rise as Temperatures Fall

Increased Feeding of Grain Often the Cause; Revolution™ fortified with ReStore™ Offers Safe Alternative

In winter, most veterinarians spend a disproportionate amount of their time treating colic. Knowing why this is so can make your life and that of your veterinarian a lot less hectic.

45 Degrees a Critical Temperature

Horses are most comfortable at temperatures above 45 degrees. When temperatures drop below 45 degrees, the horse is forced to use significant amounts of energy to help maintain body temperature. The horse has two options to produce this needed energy: First, internally, from stores of body fat and muscle; and, second, externally, from energy provided in the diet - and more importantly - from heat generated by the bacterial digestion of forage.

Option one, using body stores, is really not an option. It soon becomes life threatening, especially in older horses.

The only acceptable way to manage the energy problem is option two: dietary management.

Calculating Energy Needs

We can calculate how much extra energy is needed per day by subtracting the actual temperature, including the wind chill adjustment, from the 45-degree critical temperature.

For example, let's say today's temperature with the wind chill is 19 degrees. Subtract this from the equine critical temperature of 45 degrees and you have 26 degrees. Convert this figure to extra energy measured as calories needed by your horse. Under these conditions your horse needs 26% more energy.

Now, in this situation the natural inclination is to feed more grain or sweet feed since they provide more calories per pound than hay. But with this approach, although we may have met our calculated calorie needs with grain, we fail to generate that all important body heat generated by the bacteria of the large intestine. To do this we need to feed hay.

Recommendations

The increased feeding of grain in cold weather is a primary reason for increased incidences of colic. Our experience has shown the safest way to keep your horse comfortable through the winter is to increase equally the amounts of hay and grain fed, and to use concentrates that are very calorically dense. This means using concentrates that incorporate fat as the key energy source.

Revolution™ fortified with ReStore™

We recommend Revolution™, a diet that incorporates fat as a key energy source. Sold as a grain substitute for horses at risk from the over consumption of fermentable starches and carbohydrates, Revolution™ provides over 1600 K cals per pound, and is guaranteed at 10% fat.

It also provides your horse with ReStore™, the dietary supplement that we've found to be highly effective in maximizing the use of nutrients, and in reducing digestive upsets - especially colic.

Water and Colic

Horses prefer water that is between 45 degrees to 65 degrees. As water temperature drops, water consumption decreases - another key factor in causing colic.

We have found that the combination of adequate amounts of hay fed in conjunction with Revolution™ will encourage your horse to drink more.

Summary

Understanding how equine critical temperature affects dietary management is the first step to help you prevent a dangerous and costly episode of colic.