



Midcontinent Livestock Supplements

mlstubs.com

WINTER 2016

PROVEN PERFORMANCE

Ellendale, ND 800-450-8827

Valley Mills, TX 888-657-8827

Moberly, MO 800-406-4609

IT'S A FACT

- If you don't get them bred, you're not going to accomplish much.
- The mineral nutritional plane the cow is on directly affects breeding, gestation and calving.
- Addressing mineral nutrition's effect on the brood cow cannot be minimized.

MLS #12 Hi Mineral

For year round feeding to mature and growing beef cattle. High in energy and concentrated vitamin and trace mineral levels.

MLS #12 Breeder

For feeding to mature cows and heifers prior to and during breeding period. Contains Availa®4 from Zinpro Corp.

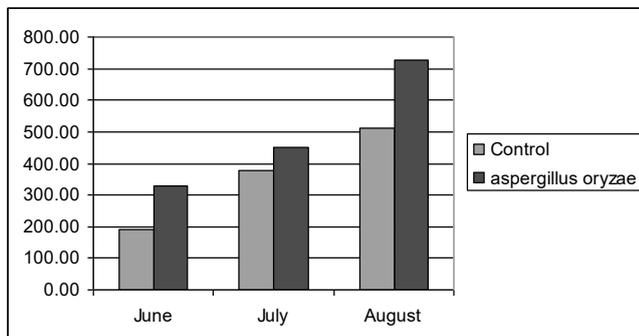
MLS #25 Stocker Mineral

For stocker cattle and replacement heifers. Concentrated vitamin and trace mineral levels. Contains Availa®4 from Zinpro Corp.

Zinpro® Availa4® Provides copper, zinc, manganese, and cobalt from bioavailable organic sources to aid fertility, soft tissue health, bone and joint development, and B-Vitamin absorption.

aspergillus oryzae

Including it in livestock diets through supplementation will increase the activity and amount enzymes produced by naturally occurring fungi already present in the rumen. These fungi are primarily fiber digesters, so by increasing their numbers and activity we can increase the utilization of forages. This will increase the efficiency and profitability of your operation. *aspergillus oryzae is a standard ingredient in all MLS tub products.*



This chart illustrates the increase of microbial protein synthesis as a result of adding *aspergillus oryzae* as demonstrated in a North Dakota State University study published in the Journal of Animal Science (1993)

THE ECONOMIC\$

CONSIDER THESE QUESTIONS

- How many miles a day to feed supplement ?
- What does the fuel cost ?
- How much time is involved ?
- What about the days cows can't be reached ?
- Do cows have equal access to the supplement ?
- Is your supplement all natural ?
- How much gets wet, blown away, or wasted ?
- How much extra equipment is needed ?
- Do you get tub deposit back?

Get all three with Altosid IGR

MLS #1

MLS #12

MLS #12

Supple-Lix Hi-Mineral Breeder

Altosid® IGR Feed-Thru controls horn flies by interrupting their life cycle, rather than through direct toxicity. Based on this mode of action, the EPA considers it to be a biochemical pesticide. Mixed into cattle feed, Altosid IGR passes through the digestive system into the manure, where horn flies lay their eggs. Altosid is not like other feed-through products. It is classified as an insect growth regulator (IGR). The IGR in Altosid IGR mimics naturally occurring insect biochemical that are responsible for insect development. Altosid IGR keeps the horn fly larvae from developing into adult flies that would otherwise emerge from the manure. It is able to exert this effect at very small concentrations. Altosid IGR is therefore an ideal horn fly control choice for today's environmentally conscious producer.

No Effects on Beneficial Insects. Residual insecticides, such as organophosphates, are toxic to beneficial insects, such as predacious beetles, parasitic wasps and dung beetles. **Altosid IGR does not** disrupt dung composition and does not harm beneficial insects.



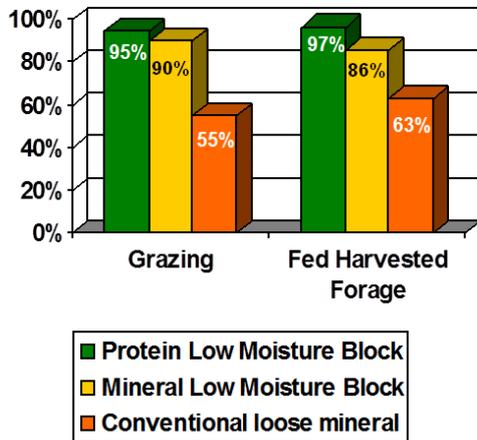
PALATABILITY

Comparison of Low-Moisture Block and Conventional Dry Mineral Systems for Delivering Mineral to Cattle Fed Low-Moisture Block Protein Supplements

Prepared by: Derek W. Bailey, Northern Agricultural Research Center, Montana State University

Low-moisture molasses blocks are self-fed supplements that can be used provide protein, mineral and other nutrients to livestock. These highly palatable supplements can be used to lure cattle to graze underutilized rangeland (Bailey and Welling, 1999; Bailey et al. 2001). Low-moisture molasses blocks were more attractive than conventional dry mineral mixes for luring cattle to graze underused areas within a pasture (Bailey and Welling 2002).

Details found on this website. <http://jas.fass.org/cgi/content/full/86/5/1271>



Bailey & Welling
Montana State
Univ. 2003

“Tubbed” Mineral

- Based on 4 ounces.
- Palatability – The molasses masks bitterness of Phosphorus & Magnesium.
- 60% more cattle visited “Tubbed” mineral Vs. Loose Mineral

“Loose” Mineral

- Based on 2 ounces.
- Palatability a big issue
- Typically under consumption occurs!

CELMANAX™SCP and Zinpro®Availa® 4 are available in a variety of MLS tub products.



CELMANAX™SCP can be effective in reducing the incidence and/or severity of bovine respiratory disease (BRD) and scours caused by E. coli or salmonella.



Availa® 4 organic zinc, manganese, copper & cobalt. Essential trace minerals for maximizing the health and performance of your calf crop!

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 Jeff Anslinger (MO-KS-NE-IA) 816-244-7340 Ed Kreimier (CO-UT-NM-WY) 970-456-3136
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