

MAXIMIZE FUNCTION.
MAXIMIZE INTAKE.
MAXIMIZE PERFORMANCE.

Roughage Buster products are suited for cattle consuming mature or winter pasture/ range forages or fed low-protein forages.

Roughage Buster is the ideal supplement to complement forages that lack sufficient RDP (rumen degradable protein), such as forages in later stages of the growing season and forage residues.

Providing a small amount of a high-protein supplement can significantly increase available energy to cattle.

Roughage Buster's strength lies in biuret, ADM's exclusive protein source, and its powerful mineral technology. Adding to Roughage Buster's solid strength is the inclusion of vitamins A, D and E.

ADDITIONAL BENEFITS OF ROUGHAGE BUSTER:

- Designed for free-choice feeding
- Enables maximum forage intake, digestibility and energy utilization
- Gradual release of biuret, which facilitates better utilization of forages for greater economy of production
- Provides the correct amounts and mineral ratios to balance forage deficiencies and support animal needs
- Supplies vitamins that maybe lacking in mature forages and forage residues
- Available in range of varying crude protein contents to fit forage conditions and cattle needs
- Choice of product forms, including blocks, tubs, cubes and loose mix
- Formulations are also available with IGR for horn fly population control and Endo-Fighter® to help counter the harmful effects of fescue toxicosis

**Roughage
BUSTER**

Get more out of your forage.

Roughage Buster offers performance benefits while lowering supplementation costs in later product stages due to better body condition.

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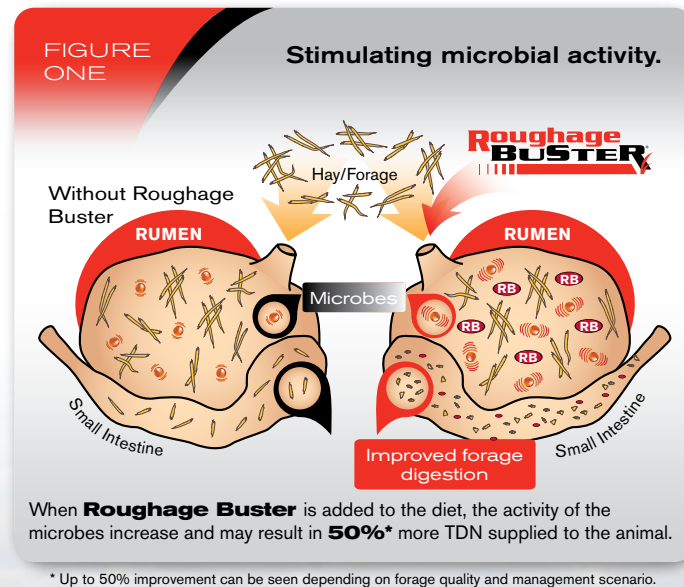
**Roughage
BUSTER**

**Get more out of your forage for
better production responses**



THE PROTEIN FACTOR

When forages lack sufficient rumen degradable protein (RDP), cattle growth, reproduction, lactation and overall maintenance will suffer. However, supplementing with ADM's exclusive biuret protein source in Roughage Buster provides a source of slow-release ammonia-nitrogen over several hours, better fueling the rumen microbes' task of breaking down forages. This action releases energy, boosts the microbial population and increases forage intake which results in optimal animal performance.



Evidence Supporting Biuret

Effect of biuret supplementation on cellulose digestion

↑ 17.08%
over negative control
(ADM research)

Effect of biuret on steers fed prairie hay

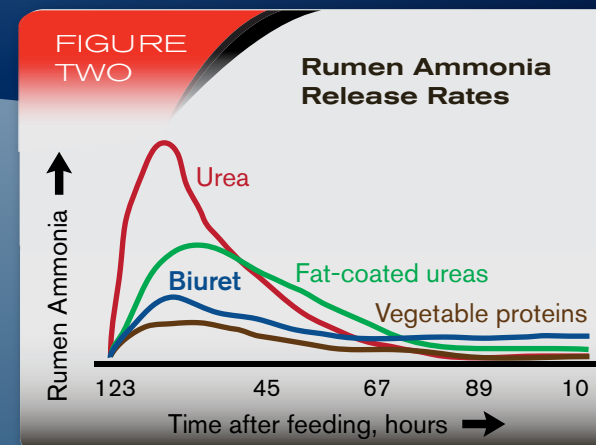
Forage intake **↑ 22%** Digested organic matter **↑ 52%**
(Lowest et al., Kansas State University)

Winter feeding study

Biuret supplemented cattle maintained body weight and condition score; whereas, cows fed an 18% crude protein supplement lost an average of 62 lbs body weight per head and dropped 1/2 body condition score.
(Montana State University)

THE BIURET BENEFIT

Protein nutrition for ruminants requires more than simply providing a source of crude protein. That's why most of the dietary protein, predominately biuret, in Roughage Buster is gradually degraded in the rumen for microbial needs. Unlike the high amount of urea found in other supplements, biuret has releases ammonia which has a release at a rate similar to vegetable proteins. This means cattle fed high-forage diets containing Roughage Buster can make more efficient use of the forage. The result is maximum rumen function, maximum forage intake.



MINERALS MATTER

Matching mineral requirements to forage supply and cattle needs is a juggling act because a producer must account for:

- Mineral interactions
- Antagonistic attributes of some minerals
- Differing mineral needs for rumen microbes and cow

That's where Roughage Buster excels because its supplements are specifically formulated to take these factors into account without hampering mineral availability, rumen function and animal productivity. Simply put, it provides the right amount of digestible minerals in the most cost-effective manner possible.

Since forage is the base for grazing beef cattle diets, enhancing forage utilization with Roughage Buster can be profitable to the bottom line.

