

## CALCULATING THE AMOUNT OF RUMENSIN OR BOVATEC SUPPLEMENT FOR HEIFERS

Donna M. Amaral-Phillips  
Extension Dairy Nutritionist  
University of Kentucky

(**Note:** All equations shown use the cancellation of units to arrive at the answer with the correct units.)

**Calculation: Calculate The Amount of Rumensin Supplied Through a Free-choice Mineral.** (Same principles apply for Bovatec - although amounts needed may be different.)

- Assumptions:**
- a) Bred heifers weigh 900 lbs.
  - b) You want the free-choice mineral to supply 200 mg Rumensin/day for this weight of heifers.
  - c) Heifers consume 3 oz of mineral daily.
  - d) From the feed tag on the mineral, the mineral contains 1600 g Rumensin/ton of mineral.

$$\left( \frac{3 \text{ oz mineral}}{16 \text{ oz mineral}} \right) \left( \frac{1 \text{ lb mineral}}{2000 \text{ lbs mineral}} \right) \left( \frac{1600 \text{ g Rumensin}}{1 \text{ ton mineral}} \right) \left( \frac{1000 \text{ mg Rumensin}}{1 \text{ g Rumensin}} \right) = 150 \text{ mg Rumensin/heifer in 3 oz. of mineral}$$

**If 4 oz of mineral is consumed, it would supply 200 mg Rumensin.**