

Dairy Tips By Dr. John Clark, P.A.S.PURINA
MILLS, INC.

Purina Mills Dairy Consultant

UREA & BY-PASS PROTEIN

If protein costs are high, like they normally are, the value of non-protein nitrogen in dairy rations becomes very attractive to cost conscious dairymen. Concentrates containing urea are being used profitably & efficiently by top dairymen with herds producing in excess of 25,000 pounds of milk.

The lactation ration must provide a balance of nutrients to the rumen microbes first and then provide by-pass nutrients. If excess by-pass protein is in the ration, poor rumen fermentation results & production suffers - particularly in high

producer rations with abnormally high fiber. Soluble protein sources or urea must be added in these cases.

Urea complements rations high in rumen by-pass protein by providing a source of ruminal ammonia needed for bacterial growth and fiber digestion. This is of particular importance when fat is added to the ration.

Urea works only in the rumen by helping multiply rumen bacterial protein - much of which will by-pass the rumen anyway.

AT LAST!!! THE TOTAL PRODUCT FOR FRESH COWS!!! INTRODUCING - NEW - PURINA FRESHENER PAK!!!

That's right, Purina nutritionists have brought every ingredient that will benefit fresh cows and put them together in one easy-to-feed product. Dairy Freshener Pak can help prevent retained placenta, twisted stomach, uterine infections, ketosis, fresh cow mastitis and help cows peak higher by keeping them on feed. Simply top dress or mix in high-group TMR at 4 ounces per head per day. No other package delivers all these benefits:

- | | | | |
|--------------------|---|--|---|
| Niacin - | Average 2.38 lbs. more milk. It slows fat metabolism and fights ketosis. | Oxytetracycline | - Two pounds milk increase, prevents infections. |
| Yeast - | Live Sacchromyces Cerevisae - more than 4 lbs. extra milk by keeping cows on feed. | Vitamin A & D-Extra vitamins for low feed intake at freshening. | |
| Vitamin E - | Involved in muscle function, works against twisted stomach and retained placenta. | Selenium - | Works with Vitamin E |
| | | Vitamin B₁₂ - | Stimulates appetite. |

Order Freshener Pak today to help your fresh cows get off to an excellent start.

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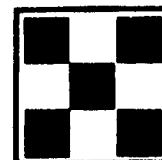
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