



THIS DAIRY COW SHOWS how animals lick the new liquid protein supplement. The liquid is stored in 300 gallon drums on the farm and flows down into the feeding trough by gravity. Some farmers report they prefer to mix the supplement with feed or hay.

New Liquid Protein Supplement Makes Rumen Bacteria Work Harder

Cattle feeders and dairymen in the Southeastern Pennsylvania area this week are being introduced to a new feed supplement called Morea.

While supplements are fairly common these days, this one has some unusual features not seen before in the East. First of all, it is a liquid, designed to be fed free choice.

Secondly, it is designed to make the rumen bacteria more active in producing amino acids, proteins, carbohydrates and other materials, rather than simply supplementing the production of the rumen bacteria.

THE UNUSUAL FEATURE of Morea is that fact that it contains ethyl alcohol. But the alcohol, present in relatively low concentration, is not used to supply the animal with energy. Its purpose is to provide the proper chemical environment in the rumen for the most effective use of urea and other feed ingredients.

It is used specifically to promote the metabolism of rumen microorganisms which, in turn, provide necessary nourishment to the animal.

THE PROCESS WAS developed by Philip C. Anderson and Janet L. C. Rapp of Feed Service Corp., Crete, Neb. This company has licensed U. S. Industrial Chemicals to manufacture the product for distribution in the East.

The premix is then combined with molasses by the dealer to make the finished product. The dealer in this area is Hespender and Thompson, Inc., York, a 38-year old feed manufacturing firm.

The feed as the farmer will receive it is 67 per cent molasses, 10 per cent urea, six per cent alcohol, three per cent phosphoric acid, four per cent trace minerals and vitamins, and 10 per cent water.

THE LIQUID supplement, delivered to the farm bulk tank by truck, is used to feed livestock, dairy cattle and sheep. It is used not only to supplement the feeding of low cost rough-

ages such as hay, ground corn cobs, and cottonseed hulls, but also with full grain rations.

In either free-choice or controlled feeding, metabolic control mechanisms in the rumen prevent the animal from eating too much. The critical factor here is the amount of urea consumed, since the animal tends to maintain, on a dry-weight basis, a two per cent nitrogen (equivalent to a 12.5 per cent protein level in the rumen). As a result, the average animal will consume only about two pounds of the supplement a day.

THIS LIMITATION on intake eliminates the possibility of untoward effects from the alcohol (intoxication or dizziness, for example). The ethyl alcohol is completely metabolized in the rumen. It never builds up to a high enough concentration to enter the blood stream.

Thus far the greatest demand for the supplement has been in Nebraska, Iowa and Illinois. The York firm is the first dealership to be established in Pennsylvania.

Pretests of the supplement have been carried out on several Southeastern Pennsylvania farms. Among those participating in the tests were John Neff, Lancaster County; Bernie Norris, Thad Owings and Luther Shaul, all of York County.

Farm Employment Up 2 Per Cent from Last Year

During the week of May 18-24, the number of persons working on farms, at 8,369,000, was 2 per cent higher than a year earlier and 14 per cent above late April of this year.

The supply of workers available for farm labor from April to May continued to be in better balance with demand than usual for this time of year, with reported shortages mostly local.



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Rank of nationally sold chicks in 1956-57 tests

(Based on income over feed cost except in N. Y., C. and Missouri.)

Strain	Calif.	Mo.	N.Y.C.	Tenn.	Del.	Avg. Rank
Kimber K-137	4	4	6	5	2	4.2
Strain A	3	10	—	10	1	6.0
Strain B	11	16	2	3.5†	4	7.3
Strain C	5	18	18	12	5	11.6
Strain D	—	6	24	—	10	13.3
Strain E	38	3	25	15	3	16.8
Strain F	23	20	—	7	18	17.0
Strain G	—	25	27	11	13	19.0

*Incomplete. †Average of 2 entries.

‡Income over feed and chick costs.

K-137 entries ranked **FIRST IN NET INCOME** among all nationally sold chicks entered in three or more of the above tests. The average net income from Kimberchiks was 56¢ higher than the average of all entries. Such consistent, profitable performance in a wide variety of environments should encourage you to order K-137 Kimberchiks this season.

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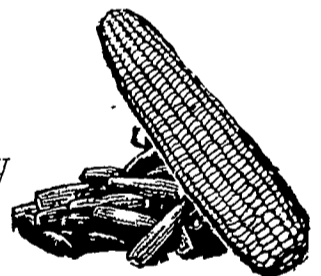
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