Raise Better Calves at Less Expense, with

# Royal Purple CALF MEAL

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It is no longer necessary or even advisable to give your whole milk to calves. Use ROYAL PURPLE Calf Meal and get the good price for your whole milk that it will bring. ROYAL PURPLE Calf Meal is entirely different from most others, because it is partly pre-digested. The ingredients which are hard to digest are roasted to render them easy of assimilation by the calves. The roasting also causes the grains to shrink over one-third, so that in using ROYAL PURPLE Calf Meal you are using a concentrated meal, containing pound for pound, more value than others. Equal to new milk at 5 cents a gallon.

SPECIAL $50 PRIZE OFFER.

We offer $50 cash prize for the best calf raised in Ontario on our ROYAL PURPLE Meal, weight for age, shipped to us for the Toronto Exhibition. This calf will be shown in our exhibit, and after the exhibition is over will be returned to the successful contestant. Ask your dealer for full particulars or write us direct. Also inquire about our club plan, whereby you can secure 100 pounds of ROYAL PURPLE Calf Meal for best calf raised in your district.

ROYAL PURPLE CHICK MEAL Solves the problem of what to feed young chicks to get best results. ROYAL PURPLE Chick Meal is just right, neither too coarse nor too fine. The ingredients hard to digest are partly roasted. No losses of chicks through indigestion when you use this splendid meal. If your dealer hasn't it, write us direct. Fifty per cent of the young chicks that die do so from indigestion due to improper feeding.

To raise fowl successfully you should have our poultry remedies, especially our Roup Cure. There is no reason why you should lose any of your young chicks or turkeys from disease.

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## The Feeders' Corner

The Feeders' Corner is for the use of our subscribers. Any interested are invited to ask questions, or send items of interest. All questions will receive prompt attention.

### Re Grain Mixtures

How would you mix bran and gluten feed for feeding for milk? Hay and ensilage are also fed. Would cottonseed meal produce greater production?—A. M., Soulanges Dist., Que.

Bran and gluten feed may be mixed in equal proportions for milch cows. It is always well in buying gluten feed to make sure of its analysis, as the constituents vary widely, occasionally gluten feed being very rich in protein and in other samples being of only medium value. Gluten meal is generally more reliable as to analysis. On an average, gluten feed will test 20.4 per cent protein, 48.4 per cent. carbohydrates, and 8.8 per cent fat, as compared with wheat bran, 12.9 per cent. protein, 40.1 per cent. carbohydrates, and 3.4 per cent. fat.

For cows giving 40 lbs. of milk a day or more the addition of a small proportion of cotton seed meal to the grain ration would be desirable. In fact cotton seed meal would be a desirable addition for cows of medium milking ability, as at present prices for bran it is the cheaper food of the two. We would suggest a ration consisting of two parts of bran, two parts of gluten feed and one part of cotton seed meal, fed in the proportion of one pound of this mixture to three and one-half pounds of milk.

### Value of Foods

Please give the analysis of bran, shorts, middlings, cotton seed and oil cake. Which would you consider the best food for milch cows giving 30 lbs. of milk a day?—G. R. C., Stanstead Co., Que.

The following is an analysis of the feeds mentioned:

| | Protein | Carbohydrates. | Fat |
|---|---|---|---|
| Bran .. .. | 12.9 | 40.1 | 3.4 |
| Shorts . .. | 12.2 | 50 | 3.8 |
| Middlings . | 12.8 | 53 | 3.4 |
| Cotton Seed. | 37.2 | 16.9 | 12.2 |
| Oil Cake .. | 29.3 | 32.7 | 7 |

Of all of these feeds, bran is the only one that can be safely fed in large quantities when using only one mill feed in the ration. A mixture of these feeds, however, is preferable in all cases, as both cotton seed and oil cake are too concentrated to be fed separately and bran, price being considered, is not as economical a food as either the cotton seed or oil cake.

The way in which these feeds are mixed would depend very much on the quality of roughage food. If fed in conjunction with timothy hay and corn ensilage one would need to feed a larger proportion of cotton seed and oil cake to balance the deficiency of protein in the bulky foods. Where, however, one has good clover hay to feed we would suggest that a ration composed of two parts of bran and one part of cotton seed or oil cake would give good results. This mixture would be fed in the proportion of one pound of grain to three and one-half or four pounds of milk to cows giving 30 lbs. of milk daily. If timothy were substituted for clover the proportion would need to be increased to one pound to three. If good alfalfa hay were available little grain would need to be fed to cows giving 30 lbs. of milk a day; but we are not sure that alfalfa can be grown successfully in your section of Quebec. It is worth a trial.


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