

*Ration No. 18:* No. 18a represents the ration as given in the report, and it will be noticed that it is abnormally high in all its constituents. This indicates that there must be some mistake in describing the ration, and therefore it was calculated again, with 20 lbs. ensilage instead of 20 lbs. corn fodder, and numbered 18b. The change has made an improvement, though it is still very high in *protein* and *fat*, which would indicate an expensive ration.

*Ration No. 19:* Very low in all constituents except *fat*, which indicates that quantities of fodder have been under-estimated.

*Ration No. 20:* In calculating this ration the straw has not been taken into account, which renders the nutritive ratio very narrow. The most marked feature of the ration is the large amount of *protein*, which indicates an expensive ration.

*Ration No. 23:* Low in *protein*. If bran were substituted for barley, it would make an improvement.

*Ration No. 25:* Extremely low in *protein*, and high in *carbohydrates* and *organic matter*. Corn and barley are both low in *protein*.

*Ration No. 31:* Apparently a very well balanced ration.

*Ration No. 32:* Very low in *protein*. The addition of a few pounds of bran would improve the ration.

*Ration No. 35:* Low in all constituents except *fat*. Cows probably eat more straw than is estimated, but this would not sufficiently increase the *protein*. The need of more bran or oil meal is indicated.

*Ration No. 36:* A very well balanced ration. It has been calculated for timothy hay, but if clover hay is fed, the ration would be still better balanced.

*Ration No. 37:* A well balanced ration, indeed. The 9 lbs. mixed bran and shorts have been calculated as shorts, but this makes very little difference.

*Ration No. 39:* Also an exceptionally well balanced ration.

*Ration No. 46:* Too low in *protein*, and high in *carbohydrates*. Could be made better balanced by increasing the amount of peas and bran. It has been assumed that cows eat 10 lbs. straw, which is probably too high an estimate.

*Ration No. 49:* Rather low in *protein*. This could be remedied by increasing the amount of oil meal, or by adding bran.

*Ration No. 50:* Low in *protein*. Substituting some bran or oil meal for part of the oats, would increase the *protein*.

*Ration No. 51:* Very high in *protein*, which indicates an expensive ration. In calculating ration, no allowance was made for straw, which makes the nutritive ratio narrower than it would otherwise be.

*Ration No. 72:* A fairly well balanced ration, though containing a large amount of meal.