

*Criticisms and Suggestions Regarding Rations Shown in Table.*

*Ration No. 1:* A well-balanced ration, though the value of the oat and vetch hay had to be approximated.

*Ration No. 2:* Also a fairly well-balanced ration, but it is probable that the quantity of hay has been over-estimated, making the *total organic matter* too high.

*Ration No. 5:* Too high in *organic matter* and *carbohydrates*, but *protein* and *fat* satisfactory. No doubt straw has been over-estimated. Reducing the quantity of straw would narrow the ratio and make the ration very well-balanced.

*Ration No. 6:* Estimated on basis of 2 lbs. cotton seed meal, 4 lbs. shorts, 50 lbs. ensilage and 5 lbs. hay. Too low in all constituents except fat, though nutritive ratio is satisfactory. Slightly increasing the shorts, and adding a little clover hay, would tend to remedy the fault.

*Ration No. 8:* No doubt there is some mistake here in estimating the quantities of fodder, as the ration appears abnormal.

*Ration No. 9:* The straw has probably been over-estimated, as the ration is high in *organic matter* and *carbohydrates*. A less quantity of straw would also tend to balance the ration. Making this allowance, the ration looks like a very good one.

*Ration No. 11a:* Low in all constituents, especially *protein*. The *protein* could not be materially increased by feeding more straw, though the *organic matter* and *carbohydrates* could thus be made satisfactory. *No. 11b* shows the same ration with 3 lbs. old process oil meal added. The improvement will be noted.

*Ration No. 12a:* By referring back to *Ration No. 12* as given in the report, it will be seen that 3 lbs. pea meal is sometimes fed in place of 3 lbs. corn meal. *No. 12a* represents ration with corn meal, and *No. 12b* with pea meal. The pea meal has made the ration better balanced, though it is still deficient in *protein*.

*Ratio No. 13:* The main fault of this ration is that it is too low in *protein*. If the oil meal mentioned is fed in place of part of the oats, it will make an improvement.

*Ration No. 14:* Abnormally high in *organic matter* and *carbohydrates*. It is quite probable that the rough fodders have been over-estimated. Reducing the corn fodder would balance the ration very well.

*Ratio No. 15:* Very low in *protein*. The addition of the oil meal mentioned would improve the ration.

*Ration No. 17:* Rather high in *organic matter* and *carbohydrates*, though it may be called a fairly well-balanced ration. The weight of rough fodders has likely been over-estimated.