#### November 12, 1914.

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#### Balancing the Ration of the Dairy Cow

Continued from page 3) would have to eat 280 pounds of sil-age daily containing 68.52 pounds of dry matter. No cow can eat this uantity of silage, and no matter how iberally you might faced her she would still be starving because of the code of cortage.

aberally you might feed her she acold still be starving because of the lack of protein. Contrast corn silage with alfalfa hay. Alfalfa tests 91.6 per cent. dry matter, 11 per cent. protein, 39.6 per cent. carbohydrates, and 1.2 per cent, iaupply all of the protein necessary to a cow giving 22 pounds of milk daily. It would also supply 22.9 pounds of dry matter, 9 pounds of carbohydrates, and .276 pounds of tat. If we compare this with the Wolff-Lehman standard we will find their a shitle short in dry mat-ter, carbohydrates, and fat. It is, however, not far off, and alfalfa comes the bearest to being a com-plete feed for dairy cattle of any crop grown on our farms. If we were to feed more alfalfa hay, however, and tius bring up the other constituents to be smither, would be feeding mortein is to valuable to wave. protein is too valuable to waste. It would also be a great drain on the cow's system to get rid of the excess protein

protein. the Ideal Combination of Roughage Alfalfa, however, is rich in the very point where corn silage is poor. Why not combine the two? Let us start with a ration of 40 pounds corn en-silage and 20 pounds alfalfal. Here is the way it would figure out: by P. C.H. P. C.H. P.

 
 Instructure
 D.M.
 P.
 C.-H.

 40
 1bs. ailage ...
 8.326
 .560
 4.52

 20
 1bs. alfalfa.
 18.320
 2.200
 7.92
 F. .28 .240 Wolff - Lehmann Standard .... 29 2.5 13

both ensilage and alfalfa, and it may be necessary to combine various foods in order to get a properly balanced ration. Let us suppose that we have a choice of clover hay, oat straw, at ensilage for roughage, and of bran and oil cake for concentrates. The combinations of these will be deter-mined somewhat by the supplies that we have on hand. After considerable calculating we might determine that such a ration as the following is most satisfactory for our purpose: D.M. P. C.H. P. C.H. P.

 
 D.M. P. C.H. P.

 15 lbs. clover...
 12.7
 1.02
 5.77
 2.95

 5 lbs. clover...
 6.77
 7.33
 31
 31

 5 lbs. bran......
 4.405
 .61
 1.96
 .135

 2 lbs. oll meal.
 1.21
 .506
 .654
 .014
 29.725 2.546 13.304 (Concluded on page 13) .654

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