find that this proportion may vary between 7·2 and 14·8 per cent.; we think our clover is almost as good as the best, and that we shall be safe in assuming that it contains 14 per cent. of albuminoids; for the same reason we allow for it 3.5 per cent. of fat and 38 per cent. of soluble non-nitrogenous matters. As to the good meadow hay there is no reason to suppose that it is any better than usual, and we take the average composition as given in the tables; upon the injured one-fourth we must set a lower value, and allow that it contains only eight per cent. of nitrogenous substances, and fat and non-nitrogenous substances, in corresponding proportions. The straw and chaff are of about the usual quality. As to the roots, finally, they are of a good size but not over-grown, they were well manured and cultivated, and the season was propitious; as the supply in hand is very large, and we think there is good reason to suppose that the crop is unusually rich in nutritive matters, it seems best to have positive knowledge in regard to the matter; we send a sample to the chemist, and his report of the analysis shows that the roots contain 1·5 per cent, of nitrogenous matters, instead of only 1·1 per cent. as usual, 0·35 per cent. of fat instead of 0·1 per cent. and 10·4 instead of 9 per cent. of soluble non-nitrogenous substances.

Now, with this certain knowledge in regard to the composition of one of our most important articles of fodder, we can go to work more satisfactorily to ascertain what sort of a ration we can make up for our cows, out of the supply of strictly foddering materials in hand.

The following table shows the composition of the ration:

	Dry subst.	Nitrog. subst.	Fat.	Non-nitrog subst.
4 lbs. Clover Hay.....	3·33	0·56	0.14	1.52
3 lbs. Good meadow Hay	2·57	0·25	0·09	1·15
1 lb. Poor " "	0·86	0·08	0·016	0·24
7 lbs Barley Straw...	6·00	0·45	0·14	2·26
5 lbs Wheat Straw....	4·29	0·10	0·075	1·44
2 lbs. Wheat Chaff.....	1·71	0·09	0·03	0·64
50 lbs Roots.....	7·30	0·75	0·175	5·20
Total.....	26·06	2·28	0·666	12·56