

but as the pea straw proved of much poorer quality than was at first anticipated, the experiment with this lot was abandoned. The same quantity of roots was given to the lambs in groups 1 and 2, and the hay was given without limit in each instance; that is to say they were given all the hay they would eat clean. The experiment therefore was a test of the comparative value of a mixed grain ration in the one case, as against oats in making mutton, and of the value of ensilage as against roots for the same purpose in the other.

The table gives the comparative cost of the food consumed by the animals of each group, and also of the increase in live weight:

	Group I.	Group II.	Group III.
Total cost of food per group.....	\$66.50	\$65.94	\$60.17
Average cost of food per day per lamb	2.22 cts.	2.20 cts.	2.01 cts.
Total live weight increase per group.	31.46 lb.	33.74 lb.	30.80 lb.
Average weight of increase per lamb per day	.262 lb.	.281 lb.	.257 lb.
Cost of food to produce one pound live weight increase	8.47 cts.	7.93 cts.	7.82 cts.

The good results relatively from feeding the grain ration of oats in the one case, and the ration of corn ensilage in the other, are clearly brought out in the experiment. This is so far satisfactory, as there is no grain so universally grown in Ontario, and corn ensilage can be grown by many who cannot grow roots.

Conclusions.

1. That in this experiment the rations with oats simply made mutton more quickly and more cheaply than the ration with oats, peas and bran.
2. That in this experiment while the ration with ensilage did not make mutton quite so quickly as the corresponding ration with roots, it made it more cheaply.
3. That in this experiment the ration given to the lambs in groups II and III, viz., the oat ration with adjuncts and the ensilage ration with adjuncts proved about equally valuable for fattening lambs, cost considered.
4. That in this experiment an average daily increase per lamb per group of .267 lb. was secured, at a cost for food of 2.14 cents per day; in other words every pound of mutton added to the live weight cost 8.07 cents, food only considered.