

on a fixed ration of one variety of grain for some weeks, and the following results obtained:

a. In case of whole oats where 14 lbs. feed was fed, 2 lbs. 6 oz. of undigested grain, or 21.6 per cent of the whole amount, was found in the excrement. One tenth of this germinated.

b. In the case of whole barley where 17 lbs. was fed, 2 lbs. 2 oz. or 12½ per cent of the whole amount was found in the excrement. None of this would germinate.

c. In the case of whole pease where 17 lbs. was fed, 2 oz. only, or about 3 of 1 per cent of the whole amount, was found in the excrement. None of this would germinate.

d. In the case of whole corn where 11 lbs. was fed, 8 oz. or nearly 5 per cent of the whole amount was found in the excrement. About one-twelfth of this germinated.

e. In the case of unground mixed grain (oats, pease and barley) where 11 lbs. of grain was fed 10 oz. or 5.7 per cent of the whole amount was found in the excrement. About one fiftieth (oats) of this germinated.

Experiments to determine the value of soaked feed as contrasted with similar feeds fed dry.

It will be seen by referring to page 26 that experiments with cooked feed (grains) would indicate that the increased returns from cooked feed were not sufficient to pay for the extra work and expenditure. The nearest approach to cooking at practically no expense is soaking the food and the following experiments were carried on along this line. A number of other experiments include some data on this point, but they are so complex as to render their consideration under this head inadvisable.

TABLE X.

Experiment.	Feed.	How Prepared.	No. of Swine.		Average weight to start.	Average weight to end.	Average net gain.	No. of days fed.	Average daily gain.	Average amount feed eaten.	Average amount feed for 1 lb. gain.
			lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1	Pease, barley and rye.	Whole, and soaked 30 hours.	4	66	171	105	119	1.08	400	3.88	
2	"	Whole, dry.	4	67	175	108	119	.90	441	4.68	
3	"	Ground, soaked 30 hours.	4	66	190	124	119	1.04	467	3.76	
4	"	Ground, dry.	4	69	195	126	119	1.06	450	3.56	

It is to be observed that in lots 1 and 2 where whole grain was fed that a considerable saving was apparently wrought in feed by soaking the grain. This amounted to about 5 per cent of the food fed lot 2.

In lots 3 and 4 it will be observed that ground grain was fed dry and compared with ground grain fed soaked. The data here would seem to point to a loss from soaking meal. While this may not be the actual case yet it is probable that the result from soaking meal may not be so marked as from soaking whole grain. A study of some other experimental work not submitted under this head would also indicate this.