

In this experiment, the object was to discover the value, if any, of pea ensilage for the feeding and fattening of swine.

Records were also kept to ascertain the comparative quantities of feed required to produce every pound of increase in the live weight of the swine, during the different stages of the feeding period.

The pea ensilage was prepared by harvesting the crop when the earliest pods were filled and before the peas became hard. The vines were green and succulent. The ensilage was well preserved. The pigs in lot 3 were fed an allowance of grain, a mixture of equal parts of ground peas, barley and rye, but not as much as they would have eaten readily. They were fed also a quantity of pea ensilage. The pigs in lot 4 were fed upon pea ensilage only. In both cases the pigs refused to eat more than a small portion of whatever quantity of pea ensilage was offered to them. The remainder was nosed over, pushed about and tramped on. When what was left uneaten was weighed out of the pens, it was very wet.

Both lots of pigs were allowed cold water to drink, and a mixture of salt and ashes was accessible to the pigs in both cases. The pea ensilage did not seem to have any feeding value to the pigs which received an allowance of grain; and the pigs in lot 4 steadily decreased in weight for nine weeks, when the feeding of ensilage was ended.

The following table contains the details of the weights of pigs, feed consumed, and rate of gain in live weight:—

TABLE XII.

	29th December.		5th January.		2nd February.		2nd March.		30th March.		27th April.		18th May.		Totals.
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
<i>Lot 3—Four swine.</i>															
Fed on a mixture of ground pease, barley and rye, fed, steamed and warmed, and pea ensilage—															
Live weight	251	267	414	379	442	494	548	*Three swine only.							
Gain in weight	13	147	74	63	52	54	403	gain in weight.*							
Feed consumed. { Grain.....	63	474	335	287	260	243	1,662	grain consumed.							
Pea ensilage.....	112½	682	345												
Pea ensilage left uneaten (wet)....	100	625	319												
Grain consumed per lb. of gain in live weight.....								4.12, grain.							
<i>Lot 4—Four swine.</i>															
Fed on pea ensilage only un- til 2nd March—															
Live weight	256	237	223	205											
Loss in weight	19	14	18					51, loss in weight.*							
Pea ensilage fed	235	1401	2127												
Pea ensilage left uneaten (wet)....	150	938	1409												
After 2nd March, fed on a mix- ture of ground pease, barley and rye, fed raw and cold—															
Live weight			205	395½	512½	571									
Gain in weight			190½	117	58½										
Feed consumed			443	388	327										
Feed consumed per lb. of gain in live weight.....								3.66, gain in weight. 1,158, grain consumed.							
<i>Lots 3 and 4.</i>															
Average feed consumed per lb. of gain in live weight.....	4.84	3.22	4.52	2.88	3.83	5.06		3.16, grain							

Lots 5 and 6 were fed similarly to lots 3 and 4, save that sugar beets were substituted for pea ensilage.