

It may be added that to produce an increase of 3,231½ lbs. in the live weight of 24 swine, 4.14 lbs. of a mixture of equal parts of ground pease, barley and rye were required for every pound of increase in the live weight.

PEN 6.

Swine,
raw and
cold,
& Sugar
beets.

Lbs. of Sugar Beets.
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2 32
2 13
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EXPERIMENTS IN FEEDING GRAIN, UNGROUND, GROUND AND WITH SKIM-MILK.

During the winter of 1891-2 experiments were begun to discover the effect of feeding swine upon a ration of grain only (unground and ground) as compared with a ration composed of grain and skim-milk. For the purpose, four pens of pigs were selected and sorted into lots as nearly alike as they could be obtained. In each of the four pens were put two pigs out of a Poland-China sow by an Improved Large Yorkshire boar. With them were put three grade pigs in each of the three first pens; and in the fourth pen two pigs out of a Berkshire sow by an Improved Large Yorkshire boar, were put with the two cross bred Poland-China-by-Yorkshire pigs.

The 9 grade pigs which were put in the first three pens with the 6 crossbred Poland-China-by-Yorkshire pigs, were purchased outside. Their breeding was not known but they appeared to be grades of Chester White or Yorkshire blood. The pigs in the several pens, considered as lots, were as nearly as practicable equal as to breeding, quality, age and size.

The experiment began on January 4th and ended on May 2nd. The feed consumed was weighed every day and the swine were weighed once every week. The following Tables have been arranged to show the average results at four different times in the fattening period.

TABLE II.

Pen 1 contained 5 swine, as described above—3 grades and 2 cross bred Poland-China-by-Yorkshire. They were fed upon