

shelled corn and cull velvet beans, and all the green sorghum the pigs would eat. The cull velvet beans were the refuse taken from the seed velvet bans. They were composed of broken beans and small, immature, shriveled seed. The beans as they came from the field were put thru the bean huller, and were afterward screened thru a screen of three-eighths inch mesh. All that went thru the screen were considered as culls. The corn, cull velvet beans, and shorts, were soaked before feeding. The evening feed was weighed out in the morning and soaked until evening, and so on.

The experiments began March 21, 1911, and closed June 16, 1911, lasting ninety days. Feeding green sorghum was begun on May 9, 1911.

TABLE 4.—Weights and Gains, in Pounds

	Lot I	Lot II	Lot III	Lot IV
Weight of pigs at beginning, Mar. 21, 1911..	291.0	266.6	274.6	265.6
Weight at end, June 16, 1911.....	406.6	345.0	390.0	373.3
Gain per lot (90 days).....	115.6	78.4	116.0	108.0
Daily gain per head	0.26	0.17	0.26	0.24
Daily gain per 1,000 pounds live weight....	4.4	3.3	4.7	4.5
Pounds of feed to make 100 pounds of gain	546.2	797.2	641.7	1118.1*

*552 pounds of this was green sorghum.

TABLE 5.—Pounds of Feed Consumed

	Lot I	Lot II	Lot III	Lot IV
Corn	631.4	312.5	248.1	327.8
Velvet beans, culls.....	....	312.5	248.1	327.8
Shorts .....	....	....	248.1	....
Green sorghum .....	....	....	....	552.0

The weights of the different lots of pigs were nearly the same at the beginning. The average daily gain per head was about the same for all lots of pigs, except for the pigs in lot II, which were fed corn and cull velvet beans, equal parts by weight. The cheapest pork was produced, however, with lot IV, fed equal parts of corn and cull velvet beans, and all the green sorghum they would eat.

EXPERIMENT IV

Experiment IV was conducted with young pigs. They were weaned and then placed in the experimental feed lot. In this test were seventeen head of pigs. Their total weight was 590 pounds, or 34.7 pounds per head.

The pigs in this test were taken from four litters. The age of the pigs varied from two to three months. The feeds given were shelled corn, and shorts (equal parts by weight). In addi-