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and substance are essentials, but these thing of a hobby with me.

calf, made an average gain of 736 do not insure the road horse. To

I am aware that the tendency is to pounds; and three spayed heifers that these must be added individuality, the reduce the size when a great deal of had calves averaged 645 pounds gain. be a high ideal and a fixed determina tion in breeding."

## SWINE BREEDING AND FEEDING.

(From a paper read by W. M. McFADDEN, at an American Farmers' Institute.)

My observations along the line of raising hoss have convinced me that there are several popular ideas on the subject that are erroneous. I do not thinking, but I hope I can draw out a discussion that will be of value to all of us. We are raising hogs for the money there is in the business. Of course, I expect all to agree with that. best way to get the most money out of it that I may cause some contention.

they secure in producing pork. These able as breeders of that kind. men but prove that the average man hog men (and I speak now of the itstrictly pork producers) are those who fine boned and lack size. From my standpoint nothing about a hog is easier to produce than size, that is, a big meaty hogthe most profitable pork producers, often as in any other way. What we need is quality. It is generally thought we cannot get quality without reducing the size, but it can be secured and all the size necessary kind and shape.

secured, I think it worth any farmer's rated higher than steer beef. while to make a study of the matter best produce a hog of the right type.

ing a decided angle, and not cut under concerned, they are valuable to any gain and sold for one cent per pound, raised in these experiments was 6.51 o sharply at base.

one raising hogs for two reasons. First, live weight, more than the heifers, cents for the steers, 6.21 cents for the "Such a horse, going smooth and a bunch of this nice, neat, stylish kind, During the whole test, which lasted spayed heifers, and 6.14 cents for the true, neither paddling nor toeing in with lots of quality, will generally bring about eleven months, the steers made open heifers. The average selling forward, nor, as we say, straddling be- a little more on the market, and in the an average gain of 806 pounds; one price received by them was 6.59 hind, will always command a top price second place, and by far the most im- open heifer, clear of calf, gained 775 cents, 6.26 cents, and 6.24 cents, in the market, provided he has been portant one, they indicate good breededucated, and abounds in nervous ing, or, if you please, what I have calves made an average gain of 628 Form, size, color, symmetry, termed quality, a thing that is some-

result of breeding. It manifests itself attention is paid to quality, but this is The steers were sold at 5.75 cents in what we term nervous energy, the not necessary. The secret of the whole and the heifers at 4.75 cents per pound, up-and-get-there power. It is the business is to know what to select for live weight. Allowing 3.5 cents per power of heredity, so desirable, so breeders that will maintain sufficient pound for the steers and 2 cents for necessary. To secure this, there must size and yet secure the kind of animals the heifers at the beginning of the that will give the very best results for trial, there was a profit of \$64.39 on feed consumed. This can be done, the steers, \$30.51 on the unspayed quality as the first consideration, beef in the carcass was 63.2 per cent, There is not a scarcity of this kind of breeding animals. Simply, we do not heifers, and 62.8 for the spayed heifers. select them when we get them.

sow we must select a long, loose, expect to convert you to my way of sow is one that will produce a fairsized litter of the right kind of pigs. Some of the best brood sows I ever had were of the rather neat and stylish Of kind. I have bred a few state fair winners, and they were nearly all from It is, however, on the question of the sows that showed plenty of quality, products, and not including the exand I never had results that were satisfactory to me from a big, coarse, roomy All have noticed a few hog growers sow. Of course, there are some good butcher paid, he made \$20.45 on the mevery neighborhood who are away brood sows of that type, but not by steers, \$58.12 on the unspayed heifers, ahead of their neighbors in the success any means of the sows that are valu-

As to feeding, I can sum up what could adopt much better methods little I know about it in a very few than those he practises. I believe a words. It does not matter nearly so large number of the most successful much what you feed as how you feed The best part of any improved breed is the corn crib cross. One difdo not accept many of the popular ficulty is that the average farmer does ideas on the business, who think for not feed regularly, and with a view to themselves, and who work on lines constant gain on his hogs. Variety of business in these days of close compe- alike during fourteen months. tition, constant and intelligent thought Hogs that possess and attention, and can be secured by briefly summarized in the following these characteristics are by no means independent thought and methods as table:

## STEER AND HEIFER BEEF.

Widely different opinions are held retained. The art of combining these as to the comparative value of steer two marks the successful hog man. A and heifer beef. American packers good, flinty bone is what we want, and rate steers at from 25 to 50 cents per not the coarse, soft leg. The bone hundred more than heifers of the same need not be large, if it is the right age, breed and general qualities. On the other hand, the opinion in Eng In view of the increased profits to be land is the reverse, heifer beef being

For some years feeding experiments Now, I believe a man who is raising horns, as nearly alike in breeding and

pounds; four open heifers that had pounds; two spayed heifers, clear of

not by selection for size and so-called heifers, and \$13.76 on the spayed bone, but by intelligent selection, with heifers. The average proportion of for the steers, 62.4 for the unspayed

combat is that to get a good brood The heifers gave a larger percentage of he learned from these experiments, prime cuts (ribs and loins) than the coarse roomy one. Now, a good brood steers, so that, on the basis of the meat the gains made. - Bulletin, U.S. Deand by-products obtained and the price partment of Agriculture. paid for the steers, the heifers were worth from 0.57 to 0.62 cent a pound more than was paid for them.

Crediting each lot with the actual value of the different cuts and the bypense of killing and handling, it is cal-culated that, at the prices which the and \$64.84 on the spayed heifers. In other words, the returns made by the heifers would have justified a purchase price of \$5.37 per hundred for the spayed heifers and \$5.32 for the open heifers, instead of \$4.75 for each, and still have left the same profit as with the steers.

The results of a second trial to compare steers and heifers for beef production have been recently published. that a majority would denounce if feed and a balanced ration are all The test was made with 15 pure-bred asked to give an opinion. Now one right and of great advantage, but re- or high-grade Herefords. The animals remark we hear most frequently about quire an intelligent use of them just at were divided into three equal lots, one our hogs is, perhaps, that they are too the right time. Success in pork pro- of steers, one of spayed heifers, and duction demands, as does every other one of open heifers, and all were fed

The results of the experiment are

RESULT OF FEEDI	NG STEE	RS AND N	EIFERS P	OR REEF.
	Average weight at end of test.	Average daily gain per head.	Dry matter caten per pound of gain.	Average cost of food per pound of gain
Steers Open heifers Spayed heifers	Pounds. 1,358 2,300 1 337	Pounds 1.71 1.55 1.70	Pounds. 8.70 7.67 8.60	Cents 4.03 3.65 4.05

heifers made a slightly greater average gain from correspondingly less food and at a less cost than the steers. Carefully conducted slaughter and to study the comparative value of steers difference in the character, composi We frequently hear farmers declare and heifers for fattening. In the first tion, or quality of meat from steers the case of the steers.

sidered only "fancy." While these Seven of the heifers calved during the therefore, less profitable to the con products obtained from crossote or tar things will add nothing to a bunch of trial, which interfered with the com sumer. The average cost of the beef as the destroying agent. As the latter hogs on the scales, so far as weight is parison. The steers made a larger to the firm purchasing the cattle dips are effective and less dangerous

respectively.

It was observed in this and other investigations that under similar conditions heifers are inclined to take on flesh a little more readily than steers. Larger gains by the heifers may not be The steers were sold at 5.75 cents shown, but there is a tendency to finish at a little earlier stage in the process of fattening. The difference between steers and heifers in this regard, when fed under the same conditions, has also been noted by practical stockmen feeding on an extensive scale.

The fact is emphasized that heifer beef has been much underestimated, since in both trials the heifers have returned a higher net profit on the block than the steers, notwithstanding the lect them when we get them.

When slaughtered, the carcasses fact that the steer beef was rated higher Another popular idea that I want to were cut and judged by an expert, than the heifer beef. So far as could spaying had no particular influence on

## DIPPING SHEEP FOR TICKS.

The injury inflicted by the sheep tick upon the flocks of this state can only be roughly estimated. Ticks do not cause death directly, nor injure the wool, but cause untold torment by their biting and wandering about over the body. This saps the vigor of the old sheep, retards the growth of the lambs, and makes both susceptible to disease. The tick is a wingless fly about a quarter of an inch long, having a large, strong, reddish-gray body, and six legs. The most opportune time for killing ticks is just after shearing, as the ease of handling and the cost of dip is reduced to the minimum. Nearly all the ticks will leave the sheep for the lambs, so that the work will be very effective if only the lambs are dipped. It is better, however, to dip both old and young. The sheep should be examined carefully about three weeks after dipping, and if any eggs escape destruction the sheep should be redipped.

The apparatus necessary may consist of only a box or barrel, into which the animal may be submerged, and a table upon which they may be allowed to drain. Such temporary arrangements necessitate considerable labor and loss of dip. A special tank may be parchased or built if a large number are to be handled, as one will soon be repaid for its use. The tank should be about eight feet long at the top and As shown by the experiment, the two feet wide. It should be four and a half feet high, and one end made vertical. The sides should slant so that the bottom will be from five to eight inches wide. The bottom should with a view to determining how he can have been made at the Iowa Station block tests did not reveal any material be about three and a half feet long, and one end made to slant so that the sheep may walk out. The tank should be they care nothing for the so-called fine trial one lot of steers, one lot of spayed and heifers, although the percentage set into the ground and a chute made points that breeders of purebred herds hersers, and one lot of open heisers of high priced cuts, ribs and loins was so that the sheep may be driven into seem to place so much stress upon. were used. They were all grade Short greater in both lots of heisers than in the tank. On the whole, it is more greater in both lots of heifers than in the tank. On the whole, it is more the case of the steers.

conomical and satisfactory to use hogs for pork is interested in a neat development as possible. There were It has been claimed that the princi- some of the good sheep dips offered head and ear, a nice coat of hair, and five animals in each lot. The lots were pal cuts in heifer carcasses contain upon the market. These dips usually other points that are generally con fed and treated in the same manner, more fat than those of steers, and are, contain arsenic, extract of tobacco, or sidered only "fancy." While these Seven of the heifers calved during the therefore, less profitable to the con-products obtained from crossote or tar