

FATTENING SPRING PIGS

head daily, whereas lot 6 consumed 5.51 of corn, .46 pound of tankage, and .22 pound of alfalfa hay.

For some time there has been ome confusion in the minds of many hog feeders relative to the kind of a protein supplement one should feed with corn and other rain to hogs that were being fatened for market on alfalfa pasture. One experiment stattion felt that a series of tests under local condiseries of tests under local condi-tions was needed to help clarify the mituation. Five lots of spring pigs everaging around 62 pounds when the test started on June 22, 1931, were used in making this study of protein supplements. The test ran 120 days and was closed October 20, 1931. Each of the five lots were self-fed, the corn from one compartment and the protein supplement from another compartment of the mme self-feeder. No minerals were mame self-feeder. No minerals were fed. Lot 1, fed corn plus tankage gained 1.62 pounds per head per day; consumed a daily ration of 5.2 pounds of corn, and .21 pounds of tankage; required 320.73 pounds of corn, and 13.22 pounds of tankage to make 100 pounds of gain; and produced gains at a cost of \$1.47 per cwt. Lot 2, fed corn plus tank-age 1 part and cottonseed meal 1 part, gained 1.66 pounds per head per day; consumed a daily ration of

part, gained 1.66 pounds per head per day; consumed a daily ration of 5.28 pounds of corn; .16 pounds of tankage, and .16 pounds of cotton-seed meal; required 318.23 pounds of corn, 8.54 pounds of cottonseed meal to make 100 pounds of gain; and produced gains at a cost of \$3.46 per cwt. Lot 3, fed corn plus cottonseed oilmeal 1 part and cotcottonseed oilmeal 1 part and cot-tonseed meal 1 part, gained .94 pounds per head per day; consumed a daily ration of 3.37 pounds of corn; .10 pounds of linseed oil meal; and .10 pounds of cottonseed meal; required 360.04 pounds of corn; 10.05 pounds of linseed oil-meal; and 10.05 pounds of cottonseed meal; and 10.05 pounds of cottonseed meal to make 100 pounds of gain; and produced gains at a cost of \$3.86 per cwt. Lot 4, fed corn plus tankage 1 part, linseed oilmeal 1 part, and cottonseed meal 1 part, gained 1.58 pounds per head per day; consumed a daily ration 4.96 pounds of corn; .13 pound of tankage; .13 pound of linseed oil-meal; and .13 pound of cottonseed meal; required 313.15 pounds of corn; 8.08 pounds of tankage; 8.08 pounds of linseed oilmeal; and 8.08 pounds of cottonseed oilmeal to make 100 pounds of gain; and pro-duced gains at a cost of \$3.51 per cwt. Lot 5, fed corn plus tankage 2 parts and linseed oilmeal 1 part, plant, then fill the box or pail to the top with soil. The soil keeps the bark and buds on the stems from freezing dry during the winter. In early spring the soil is gradually rerained 1.67 pounds per head per day; consumed a daily ration of 5.39 pounds of corn; .18 pound of tankage; and .9 pound of linseed colimeal; required 322.31 pounds of moved. I lift off the protecting box first, then the soil will fall away from the plant somewhat and then corn, 10.42 pounds of tankage, and 5.21 pounds of linseed oilmeal to make 100 pounds of gain; and pro-duced gains at a cost of \$3.51 per owt. The cost of feeds used in this test were: Shelled corn 56 cents per bushel: tankage \$20 a ton; cotton. I begin removing the soil a few days later. Climbing roses that need protection should be tied to their summer supports instead of being woven through. This permits them to be let down to be wrapped for winter. They may be wrapped with burlap, cornstalks, or covered with soil. I know of one farm home that bushel; tankage \$30 a ton; cotton-seed meal \$25 per ton; and linseed olimeal \$30 per ton. There was no significant difference in either the has a low iron fence covered with red rambler roses interwoven daily gains or the feed required to through the fence. These roses were make 100 pounds of gain in the lots protected by tying a layer of cornwhere tankage was used alone or part of the protein supplement fed (lots 1, 2, 4 and 5). The reduction in the cost of gains by adding either or both linseed oilmeal and cottonseed meal did not exceed 5 cents per 100 pounds of gain produced. This emphasizes the fact that tankage alone was not materially improved as a protein supplement for hogs that are being fattened on good alfalfa pasture, by mixing either linseed ollmeal or cottonseed meal with it. The value of tankage as a protein supplement in a ration for hogs being fattened for market on good alfalfa pasture is further indicated by comparing lots 2 and 3. In lot 2, tankage and cottonseed meal were mixed half and half. In lot 3, linseed oilmeal and cottonseed meal were mixed half and half. meal were mixed half and half. The daily gains were nearly 80 per cent greater and the cost of gains nearly 11 per cent less in lots 2, fed tankage and cottonseed meal, than in lot 3, fed linseed oilmeal and cottonseed meal. Futher evi-dence of the value of tankage is seen in a comparison of lots 4 and 5. It will be noted that in lot 4, re-ceiving one-third tankage, one-third cottonseed meal, and one-thrid lin-seed oilmeal as a protein suppleseed oilmeal as a protein supple-ment, the daily gains were smaller and the cost of gains just as high as the cost of gains in lot 5, receiving two-thirds tankage and one-third linseed oilmeal as a protein supplement. The large and economi-cal gains made in this test are a reflection of the value of good breedflection of the value of good breed-ing, a growthy type, and rigid sani-tary methods in producing hogs, as well as good rations. This test also indicates the possibility of produc-ing large and economical gains without the use of minerals when tankage is used alone or as the basis of the protein supplement in hog feeding rations. The cost of the concentrates to produce 100 pounds of gain was considerably greater in concentrates to produce 100 pounds of gain was considerably greater in a drylot than on alfalfa pasture, but the alfalfa consumption was decidedly greater on pasture. In spite of this, gains were produced more cheaply and it was much eas-ier to maintain sanitary and health-ful condtions on alfalfa pasture. The frequency with which the ques-tion of the possibly of fattening hogs in a drylot during the sum-mer months and substituting alfalfa hay for alfalfa pasture is asked, prompted a series of tests for the purpose of securing data that would help answer this question. Each help answer this question. Each year both lots received corn supple-mented with tankage, one lot being fed on pasture and the other receiv-ing alfalfa hay in a drylot. The summarized as follows: Lot 1, fed corn and tankage on al-falfa pasture gained 1.62 pounds per head per day; lot 6, fed corn and tankage in a drylot gained 1.51 pounds per head per day. Lot 1 consumed 5.20 pounds of corn and .21 pound of tankage per help answer this question. Each

OLD BIBLICAL CITY Archeological Find Brings Sepphoris to Memory.

The St. Louis Globe-Democrat says Lot 1 required 320.73 pounds of corn and 13.22 pounds of tankage to produce 100 pounds of gain. Lo: 6 required 364.66 pounds of corn, 30.48 pounds of tankage, and 14.55 pounds of alfalfa hay. The cost of the corn and tankage to product 100 pounds of gain was \$3.47 in 100 pounds of gain

Few people ever heard of Sep-The case of lot 1 fed on alfalfa pas-ture, and \$4.26 in the case of lot 6 fed in a drylot. The difference in the actual cost of gains is not as great as the difference in the actual cost of gains is not as the actual cost of gains is not as great as the difference in the cost of the concentrates to produce 100 pounds of gain might indicate at first thought. Counting the cost of the also describes it as the "chief" and he also describes it as the "chief" first thought. Counting the cost of the hay consumed at \$8 per ton, the cost of gains in the drylot was \$4.32 per cwt. Estimating the hay value of the alfalfa pasture con-sumed at \$8 per ton, the cost of gains on alfalfa pasture would be \$3.89 per cwt. In spite of the greater amount and value of the alfalfa hay consumed by the pasture-fed hogs, the costs of their gains were 10 per cent cheaper than the gains in the drylot, but, in addition, we must count against drylot feeding

must count against drylot feeding the cost of harvesting and feeding the hay and the greater cost of maintaining sanitary and healthful conditions in a drylot. strange in view of the fact that Sep-

phoris was only a few miles from PUTTING FLOWERS TO BEL Nazareth. From one place to the Shrubbs are usually thought of as other was a walk of only about two being so hardy that no winter pro- hours, and the walls of Sepphoris tection is necessary. Any that are must have been in plain view from liable to be injured by the colder the top of the rise on the north side winters should be planted in a loca-tion that furnishes some protection have been intimately acquainted with from the prevailing winter winds. Young shrubs can be wrapped with It and often within it. During the burlap to bring them through the youth of Jesus, Herod Antipas estabfirst winter and get them well es-tablished, but it is more wise to plant only those of proven hardi-ness, for there are many from which to choose, says an experi-enced borticulturist. L have he serienced horticulturist. I have, he says, ater just discovered was built by wrapped althea the first two win-ters, but they have reached such size now that they will have to two to now that they will have to try to endure the coming winter without was in his early manhood, and a reprotection. That is a good example cent biographer (Case) thinks it teristic in a lumber camp. of a shrub that likes a protected probable that Jesus as a carpenter winter location. My method of pro- was employed in some of this work. tecting roses in winter, (I refer to

lical students. That the place is not mentioned in the gospels is no argument against their credibility. The city of Tiberlas is mentioned but once and that quite casually, and other places of known importance not at all. In fact, very few places are mentioned by name, although there were 204 cities and towns in Galliee, according to Josephus. Josephus himself names many of these places but he does not mention Nazareth. Yet Nazareth was there, and Josephus, was a credible historian.

"Tracer" for Debtors

The debtor who has vanished to parts unknown, leaving unpaid bills, may now be traced through the Post Office department for a fee of 23 cents, by a recent act of congress. The creditor sends a registered letter to the last known address of the debtor, marking the letter "return receipt requested showing address where delivered." If the postal department is able to deliver the letter, and usually it is, a receipt will be returned to the sender showing the new address. Heretofore it has been impossible to obtain such forwarding addresses from the post office.

Couldn't Reach Pedals

Virginia Wood reports the following story which has a laugh in it: Tommy Ware is the two-and-a-halfyear-old son of Mr. and Mrs. Thomas Ware, and he took his first ride on a horse recently.

It was a large horse, and Tommy on top looked about like the shelter house on Pike's peak. He inspected everything from his high perch and then noticed the empty stirrups hanging far below him. "It's no use, I can't ride, Gina," he

said to his cousin. "I can't reach the pedals."-Kansas City Star.

Realism in the movies has never yet introduced the sound of a coffee grinder-one of the most charac-

There isn't a great deal of peace hybrid teas) is to set a large pail or box, without bottoms, over the reported of peculiar interest to Bib- of people don't want it.



"Flora is a wife whose husband an't put anything over on her." "How's that?" "When she heard him talking in

his sleep she went to sleep herself and talked right back at him."-Vancouver Province.

Belated Belle

"Maud seems to be a thoroughly up-to-date girl." "Well, she isn't. She's six years behind in her record of birthdays."-Boston Transcript.

Bitter-Sweet Revenge may be sweet, people who

take it are usually soured by it. Life without fighting would make some natures miserable.

For winter

The Pennsylvania department of forests and waters is experimenting with clover growths as a means of checking fire outbreaks in the woods. Experiments have shown that the clover will remain green during dry weather and will form a mat thick enough to impede the advance of the

Flattering

Naturally women like a strong, stlent man; they think he is listening to them.

Nothing is so hateful to witness an a family row in which you are not involved.

The pure in heart-are comparatively scarce.

WHEN your children have the "sniffles" from one wintry week to the next, give them Scott's Emulsion of Cod Liver Oil. Doctors say that its rich Vitamin A content wards off colds, increases resistance to illness, promotes growth. And its valuable Vitamin D and mineral salts build strong bones and teeth. Scott's Emulsion is good for adults too; it helps them keep well in winter. Its pleasant flavor makes it easy to take. Scott & Bowne, Bloomfield, N. J. Sales Representatives, Harold F. Ritchie & Co., Inc., New York.

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O'NEILL FRONTIER

FEEDING LAMBS

addition of corn silage to a ration of shelled corn and alfalfa hay increased the rate of gain and reduced the cost per pound of gain and it was found in experimental studies. The addition of linseed meal to a ration of shelled corn, alfalfa hay and corn silage resulted in more rapid daily gains and a slight reduction in cost of gains. The addition of linseed meal to a The addition of linseed meal to a ration of oats, corn silage and al-falfa hay increased the daily gains and reduced the cost per hundred-weight of gain. A ration of barley, corn silage and alfalfa hay proved nearly equal in all respects to a ration of shelled corn, silage and

the fence. This method might be done more easily than letting the canes down, where the support can be reached from both sides. Mulching is not to keep plants warm, but to keep them cool. This sounds foolish, but just as wet clothes hung upon the line in zero weather will freeze dry, so do the plants suffer from freezing dry. The mulch is not to be put on until the ground is frozen for the winter, and then its purpose is to keep the ground froz-en by preventing the warming rays the sun reaching the surface of the soil and the crown of the plants. The mulch should be thick enough that the sun's heat will not pene-trate, but should not be so compact that air is excluded. For instance, cottonwood leaves when wet and then frozen are a solid covering through which no air could circulate and would do more harm to the plant by smothering than to have left it without a covering. Tomato vines would keep out the sun's rays and still allow a passage of air so the plants could breathe. Oriental poppies like a loose, coarse mulch which they can "see through." This is where I especially like to use the tomato vines. I do not find it nec-essary to mulch phlox, chrysanthe-mums, or Iris. I cut tops off the first two, leaving stems about four inch-es high which catch the leaves that the wind blows about, and they have always come through fine. The is left entirely to care for itself, the only attention it gets is to remove and burn any dead leaves which might carry disease spores. Peonies winter without extra care, but I like to cut off the tops, leaving stems about four inches high and replacing some of the tops among the stems to protect the crown. Pyrethrums appreciate some mulch between the clumps. I do not mulch between the clumps. I do not cut off their tops. Shasta daises are less hardy than some perennials and should have a loose mulch ma-terial. Mulches must be held in place to prevent winds blowing them about. Narrow boards or small branches are good. Heavy cord stretched tightly across the mulch and tied to stakes driven into the ground at the edge of the mulched ground at the edge of the mulched area is very satisfactory and not un-sightly. Forget-me-nots like a moist winter bed, and after giving them a loose mulch, I water them frequently so that the soil does not freeze dry about them. Delphiniums can-not endure moisture about their crowns, and a fire shovel full of light cinders on each crown is a popular way of caring for them. Digit-alis and canterbury bells are two others which cannot endure wet crowns. The leaves should be lifted and coarse mulch placed under them. Evergreen branches may be laid over the bed. These are some of th most commonly grown perennials that will give full satisfaction for the least effort on the part of the

st them on either side o

alfalfa hay. A ration of oats, corn silage and alfalfa hay produced the least rapid and economical gains.

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Grasshoppers of the varieties which have been causing the most damage to crops this year lay their eggs in pods deposited in sod roots just under the surface of the just under the surface of the ground, each pod containing from 75 to 100 eggs. Farmers can destroy these pods by disking the sod. The eggs then are exposed to the sun and air. The egg embryos are killed by the drying action of the wind and sunlight.

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