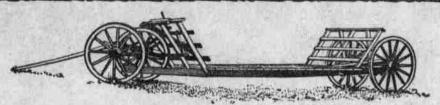
OVERPRODUCTION IN INTENSIVE FARMING



A Convenient Rack for Hauling Fodder.

ment of Agriculture.)

Read it

With

Know

In order to make the small farm profitable, it is, in most cases, necesgrowing, intensive dairying, etc. Befrom their markets not only are the tween the shipping of the commodity and its sale on the market, prices ment may have dropped with results disastrous to the grower.

Intensive crops such as garden truck, fruit, etc., have a much wider range and more rapid fluctuation of prices than staples like wheat or corn. A comparatively small acreage is sufficient to supply the demand for the intensive crops. It is very easy therefore to increase this acreage to a point where the market is flooded and prices drop immediately. Taking the country as a whole, vegetables, including potatoes, occupy only two and onehalf per cent of the crop area, and this acreage, under present conditions, furnishes about all that the market can absorb at a price that will be profit-

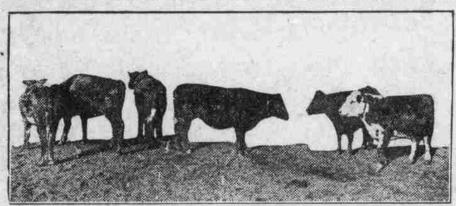
able to the grower. If the farmer is ill-advised enough to undertake the production of garden truck at a time when the supply is greater than the available markets require, it is a comparatively easy matthe case of fruit, however, it takes acre.

(Prepared by the United States Depart- | done at any time until it is too late to permit the crop to mature before frost. The land should be plowed in the spring for surface planting and then , sary for the farmer to devote himself allowed to lie rough until about seedintensive type of agriculture ing time when it should be smoothed such as truck farming, poultry, fruit with a drag harrow or disk. For furrow planting spring plowing is not ore any of these can be successful, necessary. A lister like those made be market demand and transportation for planting corn can be used on facilities must be adequate. When stubble or cotton land without preperishable products are grown far vious preparation. If the farmer does not have a lister the furrow can be freight and commission charges apt to laid out with a plow and the seed be prohibitive, but in the period be planted with a one-horse drill after the manner of planting cotton or corn. Planting in furrows is recommended which were attractive at time of ship- for western Texas or Oklahoma, and flat or ridge planting for all the region east of this where the rainfall is more abundant. When planted in rows 36 to 44 inches apart 4 to 6 pounds of seed to an acre are sufficient. Sorghum seed is usually cheap, but the farmer is urged to buy only standard varieties

cultivation is as essential to the sorghums as to corn. This method produces larger yields and the crop is better prepared to withstand drought the latter method is followed, howoats or any other small-grain crop. Cowpeas or soy beans are also frequently mixed with sorghum to improve the quality of the hay. This is especially frequent on dairy farms. Three parts of cowpeas or soy beans to one of sorghum seed is the usual proportion. From 60 to 90 pounds of ter for him to correct his mistake. In the seed mixture is required to the

from a reliable dealer.

Ronger to produce a crop, and a similar mistake is therefore likely to be after it has become fully matured;



A Good Bunch of Feeders.

Until there is increased consumption cessible to our growers overproduction can easily occur.

Sorghums for Southern Live Stock. Every southern farmer who is producing beef or milk should grow the sweet sorghums. These are not recommended as money crops, but as a fodder they are practically equal in value to corn while as a rule better yields can be obtained. They should be consumed for the most part on the farm where they are grown or at least

at points within hauling distance. The sorghums are particularly useful as silage, which is essential to the live stock owner and particularly to the dairy farmer. The various southern states report yields of from 16 to 20 tons of sorghum silage per acre, which is an average of from 2 to 4 tons more than the yields of corn, while the relative value pound for pound of the two feeds has been found to be much the same by experiments conducted at the Kansas agricultural experiment station. In fact for beef cattle these tests showed that sweet sorghum sllage was, if anything, superior to corn silage. The sorghums intended for silage, however, should not be harvested before they are fully matured. If cut when the seed is hard there will be no trouble from spoiling feed, but this should always be supplemented with 12 to 15 pounds of dry roughage and some concentrate like corn or cottonseed meal. Cottonseed meal combines particularly well with | yield. sorghum silage, and since this meal is always abundant in the South, this is another reason for growing the sor-

For forage in the South the sweet sorghums will be found better than the grain sorghums, such as mile. with the cotton grown the year imkafir and feterita, which suffer from the attacks of the sorghum midge. Of data show that the increase over the the various varieties the Sumac, Orange, Amber, Gooseneck and Honey are probably to be preferred. The Amber and Orange are the earlier kinds and two cuttings can often be obtained from them. All of these varieties respond excellently to good soil, but they succeed on many different types; a rich, loose, well-drained clay loam soil is the best. A water-logged clay or extremely sandy soil will not afford profitable returns. Fertilizers strong in nitrate applied to poor soils will produce good results and the free use of barnyard manure is always advis-

move

Sorghums may be planted as soon as the ground becomes warm in the spring, usually from one to two weeks good layers or good market fowls, later than Indian corn. When the sea- will thrive in any climate, with a dry you is favorable, the planting may be shed for shelter.

more serious. The acreage devoted to | that is, after the seed has become | sulphur some of the previous difficulfruit is even smaller-one and three- hard. Before this time, especially aft- ties have been eliminated, but at the fourths per cent of the country's crop | er a period of drought, a poison some | same time there are others of equal area-than that devoted to vegetables. times forms which is fatal to stock. importance which have arisen or Where there are two growths the sec- which have not been overcome. This either in this or other countries ac- ond is considered more dangerous is particularly the case under the clithan the first, and any stock allowed matic conditions which exist in the to pasture on it should be carefully apple growing regions of the north-

watched. In feeding the hay, from 18 to 25 where apple scab frequently appears pounds a day will be found sufficient in its most virulent form. for milk cows and work horses, if it is accompanied by the ordinary amount of grain. Beef cattle, however, should found to be less likely to produce be fed all that they will eat clean. Stock cattle and horses can be carried tain that in practical work it is less through the winter on a liberal quan- efficient with them than bordeaux tity of sorghum without any grain.

INCREASING SOIL FERTILITY

Farmer Can Secure More Cotton by Planting on Area Where Leguminous Crops Have Grown.

Inasmuch as green crops suitable for hog cholera cambe maintained in other hand, it has been the writer's the South practically every month in experience that with varieties suscepthe year, it is possible for the southern farmer to make more money than the northern farmer upon hog-producing operations, and the profits made are in proportion to the amount of green food used. But in addition to making ready money on the hogs themselves the farmer who grows le guminous crops and grazes them off with hogs has a fertilizer factory on his own farm. In a test at the Aror from excessive acidity. From 20 to | kansas station, hogs grazed upon areas 30 pounds per day is considered a full of peanuts, chufas and soy beans. The following two years the land was planted in cotton, and data were collected to determine what effect this grazing might have upon the cotton

> The effect was remarkable; for instance, in the case of soy beans and peanuts the increased yield of cotton was 44.6 and 61.1 per cent, respectively. The effects of growing these crops and grazing them off does not stop mediately following the grazing. The corn lot was still considerable in the second year. It is therefore apparent that the farmer can get more cotton when it is planted on an area where hogs have grazed or where peanuts, soy beans, or other legumes have been

> > Cottonseed Meal as Protein.

If some mill feed mush be pur chased as a source of protein, cottonseed meal is at present the cheapest source. A still better solution of the protein question is to grow it in alfalfa or clover hav.

Ducks are very easily raised and

LIVE-STOCK-FRUIT-DAIRYING-GARDENING-FIELD CROPS-SILOS-FIGS

New Wrinkles Progressive Agriculture

FARM AND FIELD

Making the Farmers' Business Profitable

TOLD IN AN INTERESTING MANNER EXPRESSLY FOR OUR READERS

BEST LOCATION FOR GRAPES INVESTMENT IN POOR COWS

Plant Two-Year-Old Vines on Southern, Eastern or Southeastern Slope in Straight Rows.

Any good farm land will grow grapes. Plant on a gentle eastern, southern or southeastern slope. If the land is stiff clay it needs drainage. Plant two-year-old vines.

Buy direct from a reliable nurseryman-not of agents. Set the vines in straight rows eight feet apart-the vines eight feet apart in the row, says a writer in Baltimore American. Have the ground deeply plowed and well pulverized, plow out the rows, going twice in each row with the plow. This will save hand labor. Set the vines the same depth they grew in the nursery, spread out the roots, cover with good earth, press the earth, as it is put in, with the foot. After all the earth is in, spread one forkful of When planting in rows, thorough long manure, rotted leaves or straw around each vine. This mulch will keep the ground cool and moist.

Drive down a stout stake close to each vine and train to one cane. Tie than if broadcast or drilled. Where the cane as it advances in growth to the stake. When four feet in height, ever, the practice is the same as for nip off the top bud. Cultivate the ground between the rows-the ground must be mellow and free from weeds and grass.

Never let the ground crust over and become hard and dry, as this stops all growth. The best varieties for family use are Concord, Niagara and Delaware. For warm, sandy and gravelly soils, add a few vines of Catawba. It is one of the best grapes for this class

SPRAYS FOR APPLE ORCHARD

Ideal Combination for Controlling Various Pests Has Not Yet Been Put on Market,

(By W. J. MORSE.)

In spite of the fact that a large amount of work has been done both in this and in other countries, in studying the effects of different insecticides and fungicides upon the trees themselves and their efficiency in controlling the various insect and fungous pests, the ideal spray or combination of sprays for use on apple orchards has not yet been discovered. It is true that with the introduction of limeeastern portion of the United States,

While it is granted that lime-sulphur, as ordinarily used, has been spray injury, many orchardists mainmixture in controlling apple scab. In fact, a prominent apple grower recently told the writer that even with the most careful and thorough spraying with lime-sulphur their fruit the past season was badly attacked by scab and that some orchardists were seriously considering going back to bordeaux mixture this year. On the



European Apple Canker of Crotch of Tree.

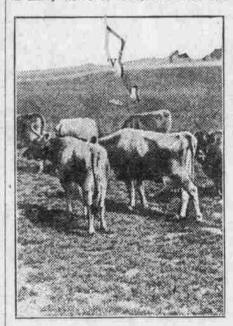
tible to spray injury lime-sulphur is, on the whole, by far the most satisfactory material.

The question of the proper fungicide to use is by no means the only important matter involved in efficient orchard spraying. Insecticides are necessary and it is both necessary and convenient to use them in combination with fungicides. While a fairly settled policy has been reached as to the proper time to apply the various sprays or combinations of sprays to secure the greatest efficiency there is many points connected with apple cul-

Milk Producer Must Stop Guessing and Be Certain of Results-Much Money Is Wasted.

Chief obstacles in successful dairying are lack of well balanced, intensive methods and not applying business principles. The milk producer must stop guessing and know for sure what the results will be and adopt the ways of most profit.

Large sums of money are invested in many acres of land, extensive and



Excellent Milk Producers on Pasture.

expensive buildings, costly horses, tools and machinery, high-priced feed and labor, and all of this outlay turned to raising crops that do not yield anything like the amount of digestible nutrients per acre that should and could be obtained, and to feeding and poorly caring for a herd of poor cows utterly unable to return a profit.

The same expenditure of money and labor bestowed in an intelligent manner upon the same farm and an efficient dairy herd would return a handsome profit.

BEST SIZE OF SILO TO BUILD

Not Advisable to Construct Receptacle With Diameter Over Twenty Feet-Right Height.

In building a silo one should plan well the width of the silo. If the silc is too wide for the number of stock to be fed from it daily, there will not be a sufficient amount of silage taken from the silo per day, especially in warm weather, to keep the silage from spoiling.

A depth of 2 to 21/2 inches of silage should be taken from the silo per day during the winter months, and a depth of three inches per day during the warm summer months.

If the stock on a farm is equivalent to from ten to fifteen cows, the sile should have a diameter of about ten feet; if equivalent to fifteen to twentyfive cows, a diameter of about twelve feet; if equivalent to twenty-five to say that shade cannot be provided is thirty-five cows, a diameter of about fifteen feet; if equivalent to thirty-five to forty-five cows, a diameter of sixteen feet; if equivalent to forty-five to sixty-five cows, a diameter of eighteen feet; if equivalent to sixty-five to seventy-five cows, a diameter of eighteen feet. For a herd of seventy-five cows or over the diameter can be from eighteen to twenty feet.

It is not advisable to build a sile with the diameter over twenty feet. It is a general rule not to make the height of the silo less than twice or more than three times the diameter.

PLAN FOR DEHORNING CATTLE

Illustration Shows How the Head of Animal is Held While Operation Is Being Performed.

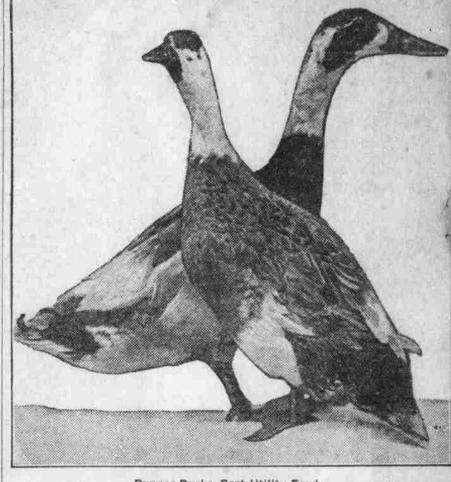
In reply to an inquiry as to the best method for dehorning a cow a subscriber of Hoard's Dairyman submits the following plan:

"I inclose you a tie for holding cow's head at stanchion while dehorning. I think it the best tie I know. I send you a small model to show how to use it. When cow's head is fast in stanchion, the rope is dropped over cow's neck, the loop is caught on the under side and the rope doubled is put inrough toop and placed around the nose up far enough to not shut off her breathing, and then pull the rope back to a post at side of stanchion, and one turn around post. A man can hold the end, and by placing his weight on rope hold the cow's head quite solld while her horns are removed. The rope is quickly removed by taking off nose and pulling same."

Singing icebergs have been encountered in the north Atlantic. Even the iceman himself emits an occasional snatch of joyous song.

Instead of using asphyxiating still insufficient data with regard to bombs, why not load them with ether or chloroform, put the enemy to sleep and then humanely cart him off as a prisoner of war before he awakes?

RAISING DUCKS FOR EGGS AND PROFIT



Runner Ducks, Best Utility Fowl.

ciled Runner lays pure white eggs, and many of them, as invariably as does the purebred leghorn of different varieties. As a result the Runner duck of the duck family."

as other varieties have usually been made from this one, they, too, are prov- sider. ing their worth, when given a chance. It is fortunate that we have at least

as a layer, and for that reason is kept makes the Runner duck a farmer's

egg records are among the proud are a wonderment to many poultrymen. In referring to these records, the breeder of Penciled Runners gets much consolation, for some of the best egg records of those countries have been made by this duck. In fact, the Orpington ducks made a fine record. Penciled Runner has won over the hustling little Leghorn there.

In Australia the Utility club has won fine places. Most of the breeders above quoted.

The best authorities on Runner of ducks 'here consider six ducks ducks agree that the purebred Pen- plenty for a pen in breeding for best . utility qualities, and it is very interesting to note the type of duck the winners of the contests there are, in comparison with our present show types has earned the name of "the Leghorn here. Their ducks are much more heavy and broad, and the type is en-As a utility fowl the true Penciled tirely different in both Runners and Runner stands well in the lead, and Buff Orpington ducks. This is something for our utility breeders to con-

Probably the world's official record is held by one of those New Zealand one breed that has demonstrated itself Runners. This duck laid 320 eggs in 365 days in her second year. She laid more for utility than show. This 12 eggs is 28 months, including the molting season. A daughter of this duck laid 177 eggs in 179 consecutive The Australian and New Zealand days, and 293 eggs in 314 actual consecutive laying days. When she was achievements of those countries, and two years and eight months old her record was over 500 eggs. The breeder of these ducks mated the females to drakes whose dams had a record of 200 eggs a year or better.

In the Christchurch test the Buff Both Orpington and Runner ducks have made fine records in the Cambridge tests there, and one pen of egg-laying contests of great interest. both Runners and Orpingtons made a Ducks and other fowl from that con- remarkable showing for several months tinent and New Zealand compete in after those tests had ended. In 51/4 these contests, and the rivalry is even | months after the above tests ended one greater than in our fancy shows in | breeder's ducks laid as follows: Buff this country. The competing ducks Orpingtons, 772 eggs; Penciled Runthere seem to be mostly Runners and ners, 749 eggs. This is an average of Orpingtons, and both of these have 129 and 125 per duck for the time

SHADE NEEDED FOR POULTRY KEEP UP GRADE OF POULTRY

Cheap Shed Built of Lumber Is Easily Arranged Where Fowls Are Not Permitted in Orchard.

Whether the fowls must spend their corn near enough to the poultry yard progressive poultryman's stock. fence, where it will cast shade, or erect a cheap lumber shed, so arranged that its roof will supply shade during a portion of the day, and one ing it open on two sides at least for a proper circulation of air.

A similar structure, or several of them, can be erected on the range if the fowls must not be permitted in the the breeder can afford to line breed orchard for any reason. Then, re- his stock and take a great deal of member that during the warm days pains building up a strain or high of summer, clean, fresh water in abun- | egg producers. The grading up of the dance is also essential, no matter farm flock with good, strong males of where the fowls and chicks are running. Think of these things now and the principal things needed in the get them ready, so that when the warm days come the fowls will not need to suffer for even a single day.

CARE IN RUNNING INCUBATOR

Cleanliness Should Be Watchword In Operating Machine-Brooders Should Be Disinfected.

The incubator should be run upon sanitary lines with cleanliness for the watchword from start to finish. The machine should be thoroughly cleaned and scrubbed out before being put into use, well sunned and thoroughly dried. '

Use no disinfectants in the operation, however, as they may affect the eggs, by absorption.

After each hatch the trays should be cleaned and aired and the inside of the machine well brushed, but not washed. If the machine is to be started at once upon another hatch, cleaned, it can be closed up and kept not be neglected.

cleaning.

Poultrymen Make Mistake in Buying Hatching Eggs or Breeding Stock

From Different Breeders.

Many a poultryman, striving to time this summer on the range or in breed up a strain of egg-producing partial confinement, having only a hens, makes the mistake of buying yard in which to run, shade is neces- hatching eggs or breeding stock from sary to their successful growth. To a different breeder each year. It pays far better to go back, for a number nonsense. There may be no trees of years, to a breeder who has stock that can be utilized, it is true, but that mates well with and improves the everyone can plant some vine or even size and egg-producing qualities of the

So reports James G. Halpin, head of the poultry department of the University of Wisconsin, who has found that the number of reliable poultry end the rest of the warm hours, leav- breeders producing just the sort of breeding stock generally needed is rapidly increasing. He believes that the next few years will be a still greater increase along this line for the right sort of breeding, is one of poultry industry at this time.

TREATMENT FOR SCALY LEG

Dipping Feet and Legs of Fowls Affected in Kerosene Will Prove Quite Effective.

Look out for the scaly leg in your stock at this time. After passing through the cold and dampness of the winter months this trouble is quite likely to develop among at least a few of your fowls, and it should be nipped right in the bud or it will run through all your stock. While it is nothing serious or rapid in its work, it is a very annoying trouble and one that will make your fowls very uncomfortable, and at times it will even cripple some where it gets to be a thick scale.

The best treatment is to take a can of kerosene oil, nail it to the wall of while the trays are taken out and your poultry house, where it will be convenient to dip the feet and legs up to heat for a few hours and the of each fowl affected in up just to, but eggs put in, but the cleaning should not on to, the feathers of the hock joint. This, says Southern Ruralist. The brooders should be disinfected, repeated every other day for about But remember that perhaps some two weeks will clean it all off except sick chicks occupied them last sea- in extreme cases, when it will take son, making it all the more import- longer treatment, to be followed with ant for a thorough scalding and a little off or vaceline occasionally to smooth up the surface.