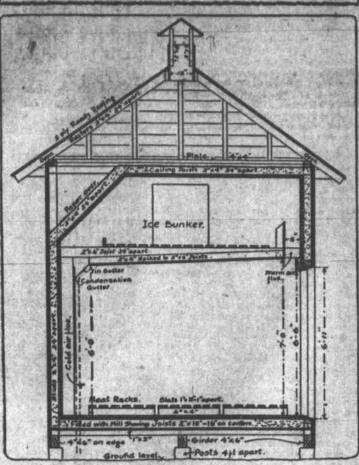
BUILDING MEAT-CURING HOUSES ON FARM

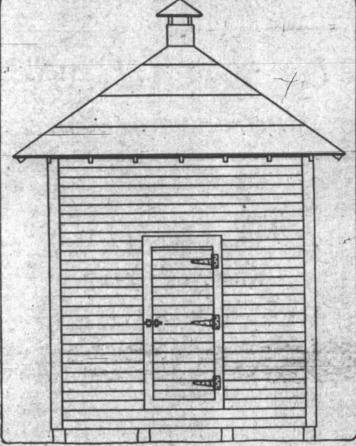


Section Through Box.

Prepared by the United States Depart- | diversified form of agriculture.

houses could be erected throughout the South it would be a great incentive constructed could do the curing for farmers to raise their own meat, his neighbors and take his pay in which in turn would lead to their pro-ducing other food supplies, and a more tions in grain.

ment of Agriculture.) In the experimental curing house a test was made last winter in which built in southern Georgia last year the estimated cost of curing the meat trom plans supplied by the United was not over three-fourths of a cent a States department of agriculture pound, including the cost of the ice. proved so successful that additional All meat cured in dry salt kept persets of plans have been distributed feetly, but five hams and shoulders among individuals who profess their cured by the brine method puffed in willingness to build from them and five days after being hung up. The to report upon their results. Georgia plans called for a building 12 by 12 imports a great part of the meat that feet in size, but this is somewhat she consumes, and for this the diffi-culty in curing meat in a climate quired, and a building 9 by 9 teet was makes the process much of a erected. Buildings of the larger size gamble is held responsible. It is be-fleved that if satisfactory meat-curing successfully on a co-operative basis.



Front Elevation

TESTING FOR SOIL REACTION | LICE ON CATTLE AND COLTS

Easy to Determine Whether Soil is Acid or Alkaline by Means of Litmus Paper Test.

(By DR. CHARLES K. FRANCIS, CI est, Experiment Station, Oklahoma Agri-cultural College.)

natural reaction of fertile soil should be slightly alkaline, Acid soils do not produce well. It is an easy matter to determine whether a given soil is acid or alkaline by means of the litmus paper test.

Litmus paper may be purchased at a drug store in two colors, red and blue, and should be of good, strong To apply the test it is neces sary to knead a handful of the soil into a ball with the aid of a small quantity of rainwater. (Do not use wellwater.) Break open the ball and place a piece of red paper between length will remain uncovered. Press have been pulled down by worms. the two portions together and set saide. Repeat this with another portion of the same soil, but insert a piece of the blue litmus paper. Examine the test papers at the end of an hour, or after standing overnight, and note if they have changed color. If the red paper has become blue, the soil is alkaline; but if the blue paper has changed to pink or red, the soil is

Don't Overlook Chickens.

has the room, who fails to keep a flock of hens is making a mistake. Besides the "home consumption" part of the program, the chickens and eggs and are always in demand.

Duck-Raising Equipment.

It is not necessary to have an elaborate equipment for duck raising, but it is very important to have the plant laid out in such a manner that there will be no waste of labor.

Watch Animals Closely When Put In Stables This Winter-Worms Also Do Much Injury.

Usually no attention is given to lic on cattle and colts until they have free life. ione enough harm to be noticed in the condition of the animals. When these ter watch them closely and kill the given during intense cold who ticks in the spring

Worms do most injury when the stock is in dry lots and during the going in, but not stuffy, otherwise winter. It is a good plan to regularly the horses will feel chilly upon comfeed some worm medicine at intervals ing out. during the winter. Prevention. least early destruction, is better than the halves so that one third of the building up the animals after they

> The activity of a bird, is a very good indication of production. high producer must have more to eat of everything that a hen requires for production, consequently she is the first down in the morning and the last to roost at night. She will range farther and is always looking for

Millet Seed for Poultry. Millet seed is not only an excellen poultry food, but, being very small there is nothing better to scatter in the litter as an inducement for the fowls to get the exercise they require Throw a handful in deep litter in the norning and it will keep the fowls busy and active.

Progress of Fruit Industry.
The development of the fruit in dustry in the Texas Panhandle has made wonderful progress. Few peop realize its magnitude.

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

Progressive Agriculture

Making the Farmers' Profitable

TOLD IN AN INTERESTING MANNER EXPRESSLY FOR OUR READERS

BEST DOG FOR SHEEP FLOCK | RABBITS AS ORCHARD PESTS

Rattle-Brained Cur is Much Out of of Place—Collie is Most Excellent for Herding Purposes.

The rattle-brained cur is as much out of place in the flock as the man of hasty temper, cruelty, thoughtlessss and disinclination or lack of natural talent for his work. The dog should be born to sheep tending and should be early accustomed to sheep and trained in their care.

Many years ago it was a practice in Texas to take a puppy from its dam before the eyes had opened and place it with a ewe, let her nurse it and allow the puppy to grow up with



Splendid Sheep Dog.

the sheep and be with them night and day. Then the dog would become the natural defender of the flock against all dangers and foes, stay with them fidence. It was also stated that a dog so raised would bring in the flock at a given hour, when accustomed to be fed at that time.

Sheep know a strange dog instantly The dog to work among them must not be strange to the sheep in any way, must have their confiden command their respect and be able to boss" them when that becomes neces sary. The collie is the dog for such service. Sheep herding has been the work of the breed for generations and to tend sheep is a hereditary tendency

No dog bred and born otherwise is worth raising for work among sheep and it is waste of time to train a wrong dog for such work.—American Sheep Breeder.

HORSES IN UNITED STATES

According to Estimate of Departmen of Agriculture There Were 21,-195,000 on January 1.

The United States department of agriculture estimates the number of horses in the United States on January 1st of each year, except 1910, when the April census figures are used, as follows: 1910, 19,833,000; 1911, 20,-277,000; 1912, 20,509,000; 1913, 20,567, 000; 1914, 20,962,000; 1915, 21,195,000.

In spite of automobiles and everything else it can be seen that the horse is gradually gaining in numbers. In spite of the heavy exportation of horses on account of the war, the to-tal amount available is so great that the exports are not materially reducing the supply. It is doubtful also if the war will affect American horseraising very greatly. In the western fighting everything appears to be trench warfare, where cavalry is of lions of horses and would not need to call on America, even if shipments would be possible. One of the ways America is hardest hit is in the sup ply of imported draft stallions.

VENTILATION FOR THE BARN

All Stables Should Be Fairly Lofty, cause Horses Need Abundance of Good Fresh Air.

The horse is very susceptible to when not being worked or exercised feel the changes of weather quite as readily as do those enjoying a more

All stables should be fairly lofty, because horses need plenty of fresh animals are put in the barns this win air, and this can only be properly lice if they appear before they seri- lation can be given above the heads ously check the growth of the stock of the animals so far as elevation There is no better time to kill ticks is concerned, the position of the ven-than October and November. One tilators mattering little so long as they killed now means less eggs to batch are at a good height and placed with

The stable should feel cozy upon

as cold weather approaches. Be sure that they go into winter quarters in the pink of condition, for there is where the profit comes in. Keep Sows in Condition. It is not wise to allow young sow

Look out for the weanlings and colts

to become too fat, as they never make as good breeders as those with more Most Prolific Sow. Select sows from good-sized litters. The sow that carries good length and depth of body generally proves the

most prolific. Quality should not be overlooked, but in the search for qual-

ity, do not sacrifice substance, nor select delicate animala Cold, rainy spells may come any day now. You may save trouble with the pigs by providing a well-bedded shelter for them instead of letting them get along as best they can.

Department of Agriculture Reco mends Wash to Be Applied to Trunks of Trees With Brush.

In the sections of the United States where heavy snow abounds in winter, rabbits, especially jack rabbits, become a serious pests in young orchards, by girdling the trees just above the snow Various methods of protecting trees have been used with more or less success, particularly that of wrapping the trees with thin sheets of wood made for the purpose, or coiled wire wrappers.

The United States department of agriculture recommends the following



Apple Tree Wrapped With Paper to Protect Against Rabbits.

wash to be applied to the tree trunks with a brush:

Unslaked lime, 20 pounds; flowers of sulphur, 15 pounds; water, 50 gal-

"This wash has been used succe fully," says Prof. W. L. Burnett of the Colorado Agricultural college, "When trees have been girdled, the gnawed surface must be covered at once, be-fore the wind and sun have access to wound. The injured parts may be

painted or covered with grafting wax.
"As a rule, trees treated in this nanner, in the spring will grow new bark. In cases of severe girdling, the ed of bridge grafting may be used, this operation being a simple one for a nurseryman familiar with the process of grafting."

CARING FOR PLANTED TREES

Large Amount of Foliage Requires
More Food Material Than Broken Root System Can Supply.

When the trees are taken from the nursery row, a large part of the root system is left in the ground; the equilibrium between the roots and the of the tree is thus disturbed, and it is obvious that a part of the top should also be removed. Should the top be left unpruned, transpiration will take place too rapidly. The large amount of foliage requires more water and food material than the short root sys-

tem can supply.

Trees which have not been cut back will often start growing too vigorously only to die when the food and water little use and the slaughter of artilities which is stored in the plant, or which is easily available, is exhausted All on the eastern front Russia has milcuts that will readily heal. Long, straggly roots should be shortened, should be shortened and thinned .- No.

WRAP LATE AUTUMN APPLES

Arranged in Layers in Barrels and Boxes and Placed in Dry, Cool Place Will Keep Nicely.

(By M. COVERDELL.) Late autumn apples can be wrapped in thin paper, arranged in layers in place and kept till the following spring, their flavor being enhanced by the storage and close confinement. This is especially commendable where one is short on the winter varieties, or the autumn fruit can be used and the more valuable winter fruit be marketed. Only smooth sound fruit should thus be stored, and one should make frequent inspection of the supply to see that no deteriors. tion has set in, as this class of fruit spoils very quickly, contamination spreading very rapidly, once it begins.

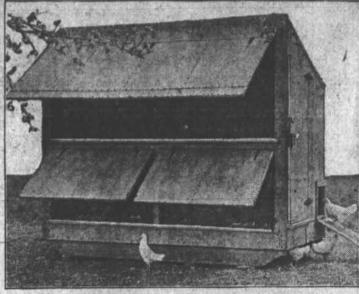
A western horticulturist, who has had a very extensive experience in orchard planting, says that he makes it a practice when planting a large orchard, to follow his planters and try to pull up the trees. Where sharp jerk falls to loosen a tree, it is set firmly enough. But if the soil cracks or the tree pulls out, then it must be reset and the soil packed down as firmly as it should have been

In the Fall of the Year. Time spent in clearing up an or-chard in the fall of the year will be amply rewarded with better and cleaner fruit the next season.

Fruit trees take something out of the soil. Do you ever put anything back? Time you did.

Sucress With Strawberries. Frequest tillage the first season is one of the secrets of successful strawberry growing.

BEST ARRANGEMENT OF POULTRY HOUSES



Open-Front Acosting House-Usually Very Comfortable During Hot Weath er, the Front Being Arranged in Such Manner as to Keep Out the

for the health and vigor of the laying be clean, or the eggs become soiled hen. Low windows should be set so by contact, and it must be sufficient that the sun will shine into every part in quantity, or the eggs are often of the house during some part of the day. Roosts should be placed on a floor of the nest. In houses where the level and not too high, as the hens dropping boards are above the nests, are apt to injure themselves either and the custom is to sand the boards. Roosts should be placed on a by crowding, falling or flying against small stones often drop into the nest a projection about the house. Keep and breakage results when newly laid the windows in the poultry house eggs fall upon them. The condition clean. Rub them repeatedly with old newspapers. Sunshine is the greatest the nesting material replenished when

Poultry keepers may easily reduce the percentage of dirty or soiled eggs and losses entailed to insignificant fig-First, an ample number of nests is,

of course, necessary, but an ample number means no more than, and probably not as many, as are usually directed by poultry writers. Laying houses are, as a rule, provided with a sufficient number, but where the keeper falls down is in falling to supply enough nesting material and floor

Sunshine is absolutely necessary | Obviously the nesting material must broken by dropping upon the hard eggs fall upon them. The condition of nests should be noticed daily, and necessary. Plenty of nesting materials prevents breakage and insures clean eggs.

An ample and clean litter on the floor is also very essential when an A-1 clean product is sought. Particularly is this true when the hens are allowed outdoors during hot weather. The litter acts as a foot mat for the hens on their way to the nests.

Clean eggs bring better prices than

dirty ones. If your hens do not produce eggs make up your mind that the management is at fault.

POULTRY CARE DURING FALL | UTILITY VALUE OF POULTRY

Much of Success in Winter Depends on Attention Given to the Fowls In Autumn Season.

The success of poultry during the winter depends largely on the care they receive during the autumn.

If your hens do not molt early they will not be profitable winter layers, writes Mrs. W. M. Jeans of High Hill. Mo., in Farm Progress. I find it profitable to feed three tablespoonfuls of sulphur in one gallon of soaked corn; this is enough for about thirty hens. I feed this twice daily for two days. This has to be fed at a dry time, or keep the hens confined in a dry-house for three or four days and feed the

first two days. About thirty days after I use this feed I cull out all my hens that have not molted and market and keep only my best hens and early-hatched pullets. The henhouse should be thoroughly cleaned and painted or sprayed with some good disinfectant. The chickens should be either well sprayed or dipped. I use a good stock dip. I find this keeps off disease and mites.

Hens should be fed a well-balanced ration at this season and always keep before them a dust-box filled with ashes, in which sprinkle some lime, grit of some kind and plenty of fresh water, and there is no reason why your poultry will not return a good

BEST PRODUCER MOLTS LATE DIET FOR GROWING CHICKENS

Hens Laying Most Eggs Gets Rid of Feathers Late in Season—Brings Up the Yearly Output.

Cornell experiment station says: The hen that molts late is the hen that will lay the most eggs for you during the year, despite the belief that the early molter is the great egg producer. It is true, she may lay a few more winter eggs for you, but she is quite likely to shut off laying in the late spring and the summer time, just when the late molter producing an egg every day and bringing up the yearly output to high igures.

It is not advisable to breed from bird which has a severe attack of roup. Hens affected with chronic roup lay, but the chicks hatched from such eggs are usually unhealthy. These chicks may appear all right for time, or until they grow up, when in most cases the disease will attack

Hauling Eggs to Market. If you haul eggs to town in the wagon, put a good bunch of straw unter your case of eggs. You are sure to get broken eggs if you try to haul them set in the bottom of wagon withour putting in hay or straw to take off part of the jar.

Would Cull More Closely, Were the general farmer obliged to purchase in the market for one year the grain fed to his poultry, it is safe to estimate that the flock he winters thereafter would be about one-half the size it formerly was. Goese Are Pugnacious.

Most geese are of a pugnacious nature and cannot be kept with other poultry.

Two Poultry Essentials. Provide plenty of clean drinking waer and keep charcoal and grit always feeding. at hand.

Dual Purpose Geese. Toulouse geese are profitable for sither market or breeding purposes.

Farmer Should Aim to Select Fowls for Production of Eggs and Meat
—Scrubs Are Unprofitable.

> In poultry, as with other live stock, the farmer should be much more concerned in their practical utility value than in their ability to win prizes at the shows.

Prize-winning hens are judged for their beauty of form and plumage. not for their ability to produce eggs or meat abundantly and profitably.

This does not infer that the farmer should breed scrub poultry by any means. He can no more afford to harbor scrub hens than scrub cattle or hogs, but his aim should be to pro cure purebred fowls that have been bred along utility lines rather than for show purposes only. There are such strains in all the practical breeds and these are the strains that the farmer should procure for his breeding flocks.

The fact that fowls have been bred along practical lines does not indi-cate that they have lost beauty or sumed. breed type, but rather that greater attention has been given to egg production than to the fancy points of the show room, which would be lost to the average poultryman anyway.

It is gratifying to note that the ten dency of the times is toward greater utility value in all of the popular in this direction.

Supply a Variety of Corn, Oats, Wheat, Bran and Alfalfa Meal-Bone Meal Strengthens.

Growing chickens should not be fed a diet of just one kind of food, say corn, oats or wheat. Mix all three, or either wheat or oats, with the corn, or corn and dry bran, or corn, wheat and alfalfa meal, ways keep plenty of charcoal for the growing chicks to pick at; you can burn and pound up wood for this. If you will provide bone meal for the coming-on flocks you will find that it strengthens the bones. Stout leg bones are signs of healthy young

Unprofitable Management. The "root-hog-or-die" plan of man-aging the poultry on the farm never will make many dollars for the owner.

All birds are not fit for breeders even if they are purebred. Many make the mistake in thinking so.

Early Fall Feeding Now that bugs and grasshoppers are

getting scarce, since the weather has turned cooler, the range ration must be supplemented by grain. Care must taken not to feed too heavily on the start or we may have some sick birds on our hands. Light feeding at the beginning, gradually increasing the amount as marketing time draws nigh, should be the rule.

Corn and wheat make the ideal re tion-old corn being much better for the purpose than new. The latter is to cause looseness of the bowels In the absence of corn, feterita, maize or kafir makes a good substitute. have fed all with good results.

The stiff old broom is an excel lent thing to cean out the feed trough, and this should be done after every

Simplify Brooding Problem. The brooding problem is immensely simplified by a good, careful ben.



RIGHT RULES FOR DAIRYMEN

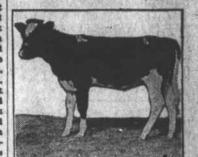
Wisconsin Agricultural College Gives Out Some Good Advice That Every Farmer Should Follow.

The dairy department of the Wisconsin college of agriculture is urg-ing that the following be pasted up in every dairy barn in the state:

Practice the following advice and you will make more dollars in dairy-Others have done it. Why can't

Use purebred dairy sires from cows having large and profitable produc-tions of milk and butterfat.

Raise well the heifer calves from cows which for one or more gen



Purebred Holstein Calf.

tions have made large and profitable productions of milk and butterfat.

Breed heifers at the age of sixteen

to twenty months. Feed heifers liberally and milk regu

larly. Do not try to save feed by turning to pasture too early.

Provide plenty of pure, fresh water,

shade and protection against flies dur ing hot weather. Supplement poor pastures with corn silage or green soiling crops like rye, peas, oats, green corn fodder, cabbage

and other available feed. Feed cows daily one pound of grain in winter for every three pounds of milk produced, 25 to 40 pounds of corn sliage, and what clover or alfalfs

hay they will eat. Do not turn cows out to remain and suffer in cold, stormy weather.

Allow them to have water which is not colder than that from a deep well twice or three times daily. Brush cows daily if you can possibly find the time, for it pays better than

does grooming of horses, which as rule is not neglected. Keep cows in clean, well-lighted, properly-ventilated stables.

Treat cows gently and avoid excite Weigh the milk of each cow at milk

ing time.

Get your neighbors to share with

you in owning a Babcock milk tester and test the milk of each cow. Discard the cow which has failed

BABCOCK TEST AND SCALES

at the end of the year to pay market

Instruments for Ascertaining Correct Value of Dairy Cow-Outlay is Not at All Large.

The Rahcock test and scales are in breeds. The egg-laying contests have struments for ascertaining the correct undoubtedly exerted much influence value of the dairy cow with reference to her milk and butterfat production. matter careful study and attention taking the necessary time for work. Those who prefer not to de-vote the time should join a cow-testing association, for it does not pay to

keep unprofitable cows. A small four-bottle tester with glassware and full directions can be se-cured for about \$5 of any creamery-

supply company. ESTABLISH THE MILK FLOW

Best Time Is When Cow Is Fresh and Should Take From Three to Four Weeks-Feed Liberally.

The time to establish the milk flow of the cow is when she is fresh. It should take three to four weeks to bring her to a full flow of milk and to eating a full ration. There is no other time in the period of lactation when care and judicious feeding have a more important bearing upon her year's rec

The dairy cow should be fed liber ally, but care should be taken not to overfeed her and carry her beyond her capacity. This works injury not only to her milk function, but to her

Selling to Private Customers.

Selling butter to private customers is almost a business by itself. You must have the market close to hand and you must be able to manufacture gilt-edged butter and give proper delivery and be a salesman besides. Really, furnishing butter to private customers might be separated from dairy farming. It is a separate business, but one man can handle both

Make a Business of Dairying. It does not pay to keep cows for a side issue. Get the best and make dairying a business just like any

Unprofitable Dalry Cow. The dairy cow that does not yield over 100 pounds of butterfat per year about as profitable to the owner as a hole in the granary roof.

Good Buttermaker. A good buttermaker deserves a good wage and will get it—from somebody.