tion and Quality Necessary to

Bring Best Market Prices

long, loosely-coupled bodies with lit-

This class of animals is not desirable

and market buyers make the best of

lambing time comes on: A lamb that

is so badly chilled that it appears to

be dead, may be revived by pouring

down its throat a half pint of warm

milk, into which a tablespoonful of

gin has been poured. If there is no

tubful of warm water, dry it off with

stove. Get some warm milk into its

minutes it will be as frisky as ever.

stomach, if possible, and in a few

A bunch of sheep will clean up the

cornfield in which the stalks are left standing in fine shape. They strip

off the blades and pick up every

The great loss of lambs is, in some

instances, due almost entirely to the fact that the ewes are allowed to run

down and become weak before wean-

The quality of the market lamb de

care, prove very satisfactory at mar-

tank and dip regularly twice a year.

Device Built Over Regular Shoe Pre-

vents Animals From Slipping

on Icy Pavements.

A recently patented shoe, designed

to save horses on icy streets, consists

of an overshoe built to fit over the

regular shoe and is kept in place by

the upper edge of the hoof, says Popu-

Betachable Overshoe.

lar Mechanics The overshoe has five

large, sharp calks, the largest being

in front. One calk on each side pre-

vents skidding or side slipping, while

one on each point holds the foot firm-

ly on the pavement. It is made of

malleable fron and adds but slightly

WINTER RATION FOR SHEEP

Fine. Well-Bred Hay. Ensilage or

Roots, With Grain Is Excellent

-Overcrowding is Bad.

Feed is a great point in sheep grow-

ing. A good winter ration for mutton

sheep consists of fine, well-bred hay,

about four pounds of ensilage or roots,

with a grain ration approximating the

bran, oats, corn, one part of oil meal,

divided into two feeds a day. The

best in the winter, after the cull stuff

is cleaned up, but the price generally

Sheep are nervous animals and of rather delicate constitutions, and suf-

fer more from bad ventilation and

overcrowding than any other animal

on the farm. It is a mistake, there-

fore, to confine sheep during the win-

ter in close quarters. If kept dry,

BREED ONLY THE BEST SOWS

Animals Showing Poor Feeding and

Milking Qualities Should in All

Cases Be Avoided.

It is of very great importance that

you use for breeding purposes animals that are easy feeders and good suck-

lers. Sows in many lines of breeding

show very poor feeding and milking qualities. The sow that can produce

six pigs or more and bring them

through to weaning time in good con-

dition is much more valuable to you

than the one that will produce that

number of pigs and, on account of

poor milking qualities, bring them to

weaning time in poor condition. By all means avoid poor sucklers and

Keeping Too Many Hogs.

It is a common mistake with many to try to keep too many sows, or more

than they can give proper attention

to during the periods of pregnancy, birth and suckling. During all three periods they must be cared for cor-

rectly if good results are expected with the litters.

their fleece will keep them warm.

stays on a profitable basis.

to the weight of the foot.

eather straps which fit neatly around

to the youngsters.

kernel of stray corn left on the

ground.

ing time.

gin in the house, dip the lamb in

A good thing to remember when



Artificial Brooding of Chicks, Showing Arrangement of Outdoor Brooders.

(Prepared by the United States Depart- wise many hens remain on the nest ment of Agriculture.) and brood the chickens for at least twenty-four hours after the hatching When it is noted that a hen sits on the nest for two or three nights in is over. Chickens hatched during the on, she is ready to be transwinter should be brooded in a poultry ferred to a nest, which should be prehouse or shed, while the outside weathpared for her beforehand. This nest conditions are unfavorable; should be in a box and composed of the weather becomes settled, they straw, hay, or chaff for nesting mateshould be reared in brood coops out Dust the hen thoroughly with of doors. Brood coops should be made insect powder each week while setso that they can be closed at night In applying the powder hold to keep out cats, rats, and other ani the hen by the feet, head down, workmals, and enough ventilation should ing the powder well into the feathers. be allowed so that the hen and chicks ng special attention to regions and the vent and under the wings. will have plenty of fresh air. Hens giving will successfully brood ten to fifteen The powder should also be sprinkled chickens in the early breeding seain the nest. The nest should be in son, and eighteen to twenty-five in some quiet, out-of-the-way place on the warm weather, depending upon the farm, where the setting hen will not size of the hen. be disturbed. Move her from the reg-The hen should be confined in the ular laying nest at night. Put a china egg or two in the nest when she is set coop until the chicks are weaned, while the chickens are allowed free and place a board over the opening so range after they are a few days old. that she cannot get off. Toward eve-When hens are allowed free range

and have to forage for feed for them-

selves and chicks they often take

them through wet grass, where the

chicks may become chilled and die.

Chickens frequently have to be

Industry as on Market for

Meat Animais.

To the man who has feed, but who

or the uncertain prospects at selling

time, may occur the idea of feeding

young horses or mules. The war is

having fully as great an influence on

the horse and mule business as on

Seemingly, therefore, the present

time is most propitious for buying

young mules. They may be bought

\$25 to \$35 lower than usual, and when

they are three or four years old there

than in an ordinary year heretofore.

Growing mules will have a greater

value than usual during the next two

or three years, in case owners want

In buying mule colts, it is advis-

able to buy females. The cotton trade

pays \$15 to \$25 a head more for mare

mules than for males, because they

are better shaped and look more trim.

Mare mule colts will cost \$5 or \$10 a

head more than males. Railroad con-

tractors and mine workers prefer

male mules because they can stand

more work, but the cotton trade pref-

erence for females overbalances this

Kansas and Missourf are the great-

est surplus mule states. At the pres-ent time it is possible to buy any

reasonable number of weaning mule

colts within a radius of 100 miles, or

less, of Kansas City, in a compara-

tively short time. Missouri possesses about 350,000 mules, Kansas some-

thing less than 300,000. Each of the

cotton growing states has between

200,000 and 300,000 mules, Texas more

than 500,000, but they raise compara

Raise All Your Feed.

While it may be better to use some mill feeds during the winter, profitable

dairying can be carried on with farm

raised feeds alone. The man who has

plenty of alfalfa hay and good corn

need not worry about not having the

addition he has sliage he can afford to

forget about the mills and their prod-

Save the Best Helfers

heifers and grow them into big, useful

Good cows are scarce. Save the best

ments of a balanced ration. If in

tively few mules.

demand to the extent indicated.

be sold for \$25 to \$50 a head

to borrow money on them.

the market for meat animals.



ning of the second day leave some

feed and water and let the hen come

off the nest when she is ready. Should

she return to the nest after feeding,

Dusting Hen With Insect Powder Be fore Setting, to Kill Vermin.

to fifteen, according to the size of the hen. If eggs become broken while the hen is setting, replace the nest with new clean material and wash is every reason to believe they can the eggs in lukewarm water so as to move all broken egg material from them.

Many eggs that are laid are infer tile. For this reason it is advisable to set several hens at the same time. After the eggs have been under the hen for seven days they should be tested as to whether they are fertile or infertile. Infertile eggs should be removed and used at home in cooking or for omelets, and the fertile eggs should be put back under the hen. In this way it is often possible to put all the eggs that three hens originally started to sit on under two hens and reset the other hen again. A good homemade egg tester or candler can be made from a large shoe box or any box that is large enough to go over a lamp by removing an end and cutting a hole a little larger than the size of a quarter in the bottom of the box, so that when it is set over a common kerosene lamp the hole in the bottom will be opposite the blaze. A hole the size of a silver dollar should be cut in the top of the box to allow the heat to escape. An infertile egg, when held before the small hole a lamp lighted inside the box will look berfectly clear, the same as a fresh one, while the fertile egg will show a small dark spot, known as the embryo, with a mass of little blood veins extending in all directions if the embryo is living. The testing should be done in a dark room.

which are slow in hatching may be placed under other hens, as hens often get restless after a part of the chickens are out, allowing the remaining when steady heating is necessary Hen: should be fed as soon as possi ble after the eggs are hatched, as feeding tends to keep them quiet; other lows.

That is why in the prayer book words

so often run in couples: "Humble and lowly." "scknowledge and con-

If the eggs batch unevenly, those

fess," "assemble and meet together." The circumfocution of legal documents is the penalty of having a billingual language and descends to us Chaucer is a great user of such bilingual language. from these countries when the Enggual phrases: "Hunting and vener-eye," "wright and carpenter," "care and heed." And that is whence lawgual phrases: lish and the Normans were slowly amalgamating into one people. So the two races, in the market place or yers get such talk as "aid and abet," converse, to make their "will and testament" and "use and meaning clearer, joined a French word to an English or vice versa. wont."

Oakland and San Francisco are agitating for a connecting suspen bridge nine miles in length.

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

Progressive Agriculture FIFE

Making the Business Profitable

TOLD IN AN INTERESTING MANNER EXPRESSLY FOR OUR READERS

TAKES NERVE TO THIN FRUIT TIMELY HINTS OF SHEEPFOLD Animals of Medium Grade Lack Condi-

Practice Has Become Quite Popular With Some Orchardists-Expense of Time is Small Item.

(By W. H. M'CURDY.) One of the most noted peach growers in this country tells how his neighbors wondered when they saw him condition and quality necessary to picking off the major portion of his bring the best prices on the market. first peach crop.

They shook their heads and won dered at the absurd proceeding of the tle spring of rib and rough outline man who had peculiar views about and are coarse and often paunchy. peach growing. But that season when his peaches proved a bumper crop they ged their minds. Since that time their bad points, the thinning of peaches has been popular with the more progressive neigh-

The thinning of peaches or any fruit must be conducted with judgment. It is not by any means advisable to thin every tree regardless of how much fruit it carries. Some trees set so little fruit that all can be ripened without overtaxing the tree a rough cloth and place it near the or without producing undersized fruit.

Some charge up the cost of thinning as an extra expense on the orchard. But anyone who has gathered fruit knows that fruit gathering is a slow task, especially with fruit that has to be handled as carefully as does the

The picking of the small- gre peaches at thinning time removes the necessity of picking off many of these same peaches later on,

When they are thinned they are simply pinches off and allowed to fall on the ground, while later if allowed to ripen they must be put carefully in

The expense of time in pinching off a small fruit is only a fraction of that ket time. required to gathering the same peach when it is ripe enough to market.

Of course, there is an offset in the the winter sets in they will save much fact that some of the young peaches loss from ticks and scab. This takes would be switched off by the wind later, but in the main it may be stated it pays. that no more labor is required to thin peaches and gather the remainder when ripe than to gather the harvest that results without thinning.

## PRUNING FOR PEAR BLIGHT

Cut Out and Burn Every Particle of Diseased Wood-Do the Work While Trees Are Dormant

To control pear blight cut out and ourn every particle of blighted wood while the trees are dormant. Do the work thoroughly. A few branches overlooked may cause all the trouble again next year. The work may be done any time during winter or spring up to the time growth begins but the best time is in fall while the foliage is still on the trees and the contrast strongest between blighte and healthy branches.

Make a weekly inspection of eac



A Young Pear Tree Grown Where Pruning and Spraying Is Practiced.

tree throughout the growing seaso and cut all blighted wood. Cut well below the infected area. Wipe the pruning knife or tool used after each branch is cut with a cloth saturated with some good disinfectant to prevent spreading the blight. Burn all wood removed and continue the work persistently.

Handling an Apple Crop. order to handle the apple crop In order the grower should be provided with picking ladders, picking baskets, a grading table, a barrel press and bar rels for the apples.

Value of Warm Barns.

Dairymen having warm barns and bundance of skim milk, can raise the fall and early winter calves with less trouble and with scarcely any expense as no feed will have to be bought and there is plenty of time to feed and care for the little fellows.

Clover hay is a very good feed and cotton-seed hulls rather poor for dairy Cotton-seed hulls can be used Tier, but they do not furnish milk-making material. MOST PROFITABLE OF THE DUCK FAMILY



A Fine Flock of Ducklings.

(By ANNA GALIGHER.) It is only a few years since the Indian Runner first made its appearance in America. They came originally from the West Indies, where they have been raised for years, chiefly as egg producers. They derive their name from their native land and racy upright carriage.

In color they are fawn and white, with yellow shanks and light green cannot. Don't try to raise ducklings bill; the latter being sometimes splashed with black.

The body is long and narrow and carried in an almost upright position. Neck is long and thin with finely formed head.

The Indian Runner is, we think, not only the most beautiful but also the most profitable of all the duck family. They have the Pekin beaten a mile, and are steadily gaining in

The Indian Runner is rather small fully matured ducks weighing from four to five pounds. Drakes from five to six pounds live weight.

But they grow very rapidly while young and are easy to raise. What pends largely upon the first four weeks of its life. Given a good boost they lack in weight is more than made up for in their other good qualities. then, he will, with reasonably good To begin with, they are very prolific layers, beginning when they are about six months old. Their eggs are If sheepmen will take the pains to pure white and a little larger than dip their sheep at least twice before a Plymouth Rock hen.

They are superior in quality to any duck's eggs that we have ever eaten time and some trouble, of course, but and as a rule they bring a better price in the markets.

The ducklings reach a marketable Many farmers have the idea that after sheep are shorn, the ticks will size when about twelve weeks old; abandon them. Certainly they do to when forced they will weigh four to some extent, but they immediately go five pounds at two months. to the lambs, where they find a com-The meat of a Runner is of supe

fortable nest and make life a burden rior quality; fine in grain, julcy and ex-cellent in flavor. Hotels and res-Buy a dipping taurants pay fancy prices for duck lings. The eggs are in good demand also. OVERSHOES FOR THE HORSES

In winter when eggs are high the Indian Runner is "on the job." Any enterprising person can work up a trade among hotels and restaurants hat should prove highly profitable.

There is no danger of strong compe tition, as comparatively few poultry raisers have taken up this branch of the industry, notwithstanding fact that nearly all kinds of poultry products are bringing unheard of prices in the open market.

Duck culture, in the past, has been ore or less neglected, owing to the general belief that ducks cannot be



following: Two parts each of wheat An Indian Runner Duck. successfully raised without a stream prices for prime mutton are usually or pond of water. The fact is, how ever, that the Indian Runner requires

only sufficient water to drink. They are usually small feeders compared with other ducks. One Pekin will consume as much feed as two Runners and then not be satisfied. Unlike the former they are great foragers.

In summer the Indian Runner, when given free range, will find the great er part of his living in the fields. of course, when being fattened for other litter.

market, they need some grain. would be well to say right here that for best results the grain should be either ground or cooked.

A great many would-be duck raisers fail because they insist upon feeding the ducks, both old and young, whole grain.

The matured birds can get along, but the young ones most certainly on whole wheat, cracked corn and "chick feed." They simply cannot digest it. About the only kind of grit that a young duck will eat is sand; and whole or cracked grain requires something sharper than sand to grind it.

Those who have Indian Runner ducks would do well to keep them over winter and see what they will do toward keeping the egg basket filled when biddy is on a strike.

Begin by culling out all surplus drakes and undersized specimens. If the ducks are expected to furnish eggs next spring for hatching purposes, now is the time to procure

drakes from some other flock. It is not a good plan to keep close ly related birds. One drake for every even or eight ducks is about right.

Drakes may be kept for seven years, but ducks will not lay so well when of that age. Few duck raisers care to keep old drakes unless they happen to be high-priced birds.

In many sections, Indian Runner ducks are so scarce that food specimens bring almost any price asked. A house 15 by 20 feet, with a yard

attached will be large enough for 35 to 40 ducks to stay in at night, and during the cold days in winter. If there is no suitable house on the place, a duck house can be built

at small cost. Rough lumber may be used for the floor and siding. The rafters, plates and posts may be made of poles cut in the woods. Any kind of roof that will turn water will an-If the house is to be used for

houses are built with the entire south side open.

Small-mesh poultry netting is nailed to the posts, and a heavy curtain is attached inside. The curtain is to be used in cold weather. As the snow is liable to driff in, it will sometimes be necessary to nail or tack the curtain to the floor and also to the sides.

Keep plenty of straw on the floor. If it is several inches deep, it need not be renewed every day. We take a pitchfork and turn it, or remove that which is badly soiled. It is best to keep everything as clean as pos-sible, then there is, less danger of disease. Ducks are not troubled with lice, and as a rule, they are very

A flock of laying ducks should be fed four times a day when they have

Their food should censist of both raw and cooked vegetables, cornmeal, bran, beef scraps, stem-cut clover, etc. The ground grain should be moistened with milk or water.

Start in Poultry Business. To start in the poultry business at this time of the year it is necessary to start with mature stock. Many of the poultry raisers begin to cull their flocks for the winter at this time of the year, and it is a good time to purchase birds of excellent quality which are not quite up to the standard in markings.

Avoid Use of Grease Avoid using lardoil or grease of any kind about a hen or nest during incu bation. A greased egg will not hatch. The pores of the skin are closed by the grease, causing suspended action within. Under the influence of the heat decomposition follows.

Feeding Corn to Chickens, It is bad practice to feed corn or other grain to chickens on the bare Throw it into some straw or

POULTS MUST BE KEPT DRY | keep the mother hen in. Fine gravel er sand makes a good flooring for this little yard.

-Keep All Vermin Out. (By R. G. WEATHERSTONE.) The young turkeys require a good

Youngsters Require Good Care and

Attention-Morning Dews Are Bad

ical of care and management on the par of the raiser to bring them through Keep them free of vermin. Do not

coddle them too much, but try to keep them from getting out in the early morning dews, as they soon become draggled. Whenever possible drive them up

when storms are approaching, as they do not stand much wetting. It is an admirable plan to have a

house or big hovel facing to the south and with a small inclosure of wire netting in front, say about ten feet litter and make them scratch for it. square. The young turkeys can exercise in

it before being turned out for the day, and in rainy spells can be kept in, which is much better than being shut up in a close hovel.

Always give the turkey hen a good

feed of grain morning and night until the chicks are at least six weeks old. This will prevent her ranging too far leaves. for feed. The chicks will soon learn to ea

broken of cracked corn, wheat or oats. and when well feathered will eat whole grain of any sort. After ten weeks they will make

their living on a feeding ground, re-'quiring only a little grain at night to induce them to come home to roost.

Encourage Exercise.

From the very first the chicks should be induced to exercise, for activity is a prime factor in promoting health and growth. Feed grain in the A little fine chaff or finely cut clove makes a good litter.

Demand for Gharcoal. The more heavily you are feeding, the more demand there is for charcoal. Have the netting high enough to Make it an article of everyday diet.

## PROCESS OF STEWING

REGULATION OF HEAT IS THE MAIN CONSIDERATION.

On That Account It is Best to Use Gas, When Possible-Glazed Earthenware Jar Should Be Re ceptacle Employed.

Stewing is a method of food preparation that approaches the soup-making process. It is to some extent a proeeding that occupies a middle position between boiling and baking; the latter is often called roasting. In stewing, the cook's endeavor should be to extract from the meat its nutritive fulces, and then to employ those juices, suitably treated, to finish cooking the remainder of the meat. For successful stewing, the most important point is the power of regulating the heat at which the operation is conducted. In order to stew successfully the heat must be absolutely der the cook's control. The up-to-date cook, therefore, prefers gas for stewing purposes on account of the perfect control that can be exercised over the temperature.

For successful stewing, meat should be divided into small portions for the easy extraction of the juices. Where bones exist, these should be broken into small pieces, and form an under layer in the stewing vessel. The meat and bones ought always to be placed in cold water and the water should cover everything in the pan or jar. The lid or cover should be carefully ecured, and the temperature must be gradually raised to a steady which must, of course, be below boiling. The extraction of the meat juices then proceeds, and when vegetables are to be added to the stew they are placed in the vessel at a later stage. soiling and stewing are by no means the same process. The proper temperature for stewing is about 180 degrees Fahr. As almost everybody knows, the boiling point is 212 Fahr. A glazed earthenware jar with a

tight-fitting cover is most useful for stewing meat, or for making soups. If it has no cover, one should be constructed by fitting a plate or saucer on top of the jar and brown paper should then be tied over it. A jar with a cover saves this trouble, and is, there fore, worth the extra expense. Earthenware or stone jars are very easily kept clean, and food does not spoil when left in them, as it may do if left in a metal pan. They can be placed on the top of the stove or in the oven when it is necessary to reheat the food contained in them, or if placed in a pan of boiling water the contents of the jar will cook slowly without attention from the cook. meat stew can be served in the jar in which it has been cooked, if it is neither too large nor too high. It must of course, be wiped dry and a napkin may be neatly folded around it. By this process the great advantage of a very hot dinner may be obtained in the coldest weather, even when the young ducks during the spring and whole family does not reach the home ommer months, there should be two at exactly the same hour, as a stone large doors, one at each end, and a or earthenware jar, having been thorwindow at the other. Some duck oughly heated, will retain the heat for some time.-American Cookery

Lobster Cutlets.

Melt one teaspoonful of butter, add two tablespoonfuls of flour and cook thoroughly. Add one cupful of boiling water and cook until thick, stirring constantly. Add two upfuls of chopped lobster meat. Season with salt, paprika, lemon juice and Linced parsley. Take from the fire, adu the beaten yolk of an egg and cool. Shape into cutlets, Jip into egg and crumbs and fry in deep fat. Stick a lobster claw into the small end of each cut

Bean Pot Roast.

Take one pound of beef, a cheap cut is jest as good if it is free from veins. Put in all the fat, too. Put in a bean pot, just cover with water and put in the oven. As water boils away add a little more. When about half done add a little salt. When ready to serve take from oven and put it in the spider. Thicken with a little flour mixed with water. The gravy is a rich brown.

Remove skin and bones from two boxes of sardines, then add four finely chopped hard-boiled eggs, five table spoonfuls of bread crumbs, two table spoonfuls of melted butter, one and one-fourth cupfuls of milk, one-half saltspoonful of salt, big dash of red pepper. Heat this mixture to a boiling point, then pour it over four slices of buttered tdast.

For Cleaning Silver. Precipitated chalk is excellent for cleaning tarnished silver. Place a little in a saucer and add just enough liquid ammonia to moisten it. this lightly over the silver, and stains will quickly disappear. Then wash in hot suds, dry carefully, and polish with a clean chamois leather.

Take nice, fresh, crisp carrots, scrape and put through a food chopper, using the coarse knife. To each pint of carrots add two tablespoonfuls melted butter, one teaspoonful sugar and salt to taste. Serve on lettuce

Mince Ple

Line pie plate with rich crust, put in mince meat and cover with lattice work of crust. Just before serving, pour a little brandy over the top, light, and send to table while blasing.

Fig and Nut Salad. Cook a few pulled figs and, when cold, slice in thin slices, add a few blanched and chopped almonds and dispose on leaves of lettuce. Serve

Fried Rice.

with a cream dressing.

ing pan. When cold, cut into two inch squares, dredge with flour and fry brown in drippings. Serve with a da of paprika.