Southdown Ram, Two Years Old-First Prize Winner and Champion.

the Ozark region of Missouri. For and brush foraging in the winter to several years we have been clearing housing and feed in the barn. up and fencing our farm, but we have had a terrible time fighting brush and the eight ewes. All the sheep and sprouts on the newly cleared land. lambs are fat and in fine condition and Some cattle, hogs and horses have excellent health. We sheared and been an aid in eating and killing the shipped the wool last week, securing sprouts in the permanent pastures. 28 cents a pound for it from a St which have been fenced with high and | Louis commission firm. The clip from tight-woven wire.

ing sheep for several years, and has had splendid success with them. Last year he had some ewe lambs for sale and we purchased eight of them, and



Choice Lot of Lambs.

a total cost of \$46 for the little flock. turn it into rich income property by fenced with woven wire for hogs, cat- | Money from the animals comes in at tle and horses, there was no extra ex- least twice each year-when wool and pense in providing pasture for the lambs are sold. Old sheep are high

sheep. outside was not more than five dollars. able for years to come.

(By H. H. SHEPARD, Missouri.) | Except when snow was on the ground We live on a hilly, brushy farm in they preferred being out in the hills

This spring we had six lambs from the nine sheep gave a net return, aft-One of our neighbors has been keep- er expressage and commission were deducted, of \$21.85, or a little over \$2.42 each sheep, for wool only,

This was about 50 per cent of what the sheep cost us last August when a buck from another farmer to mate they were purchased. Counting the lambs worth \$5 each by August, the total income from the flock will amount to \$51.85. Deducting \$5.85 for feed, the flock will have netted us \$46 to one year, or even 100 per cent net on the original investment. which is from two to ten times as much net profit as we make with any other of our farm animals.

Besides being highly profitable sheep are the easiest of all domestic animals to handle. Our children like them immensely, and can handle them with ease and safety. They clean the land of weeds and sprouts, and they fertilize richly as they roam and forage. They are so good in so many ways that we are preparing to increase our flock to 50 ewes on the 100-

Of course, sheep and wool are extra high in price right now, but indicawith them. For the eight lambs we tions point to continued high prices. paid \$36 and \$10 for the ram, making | Those having hilly and rocky land can Since we had the pastures already fencing it and pasturing with sheep. priced, and lambs are the highest they in our brushy and sprouty pastures have been in many years, and prices the small flock of sheep ate and grew for both old and young sheep have spendidly, refusing feed in the lot or continued high without material barn till the middle of January this change for many months. Where the year. They made practically all their farmer has any spare land not suited living on the waste of the farm and to cultivation, sheep raising offers pastures, and the actual cost of feed- golden opportunities at present, and ing them outside of what they secured | perhaps will be equally or more profit-

HANDY BAG HOLDER FEEDING CHICKENS SAVES MUCH TIME **GRASS FROM LAWN**

Light Materials May Be Used in In Case Fowls Are Not Accus-Construction of Device for Granary or Barn.

of a bag holder, so that grain, chop or bran can be sacked without requiring the services of a second person. square or round hopper, stationary in some corner of the granary or a movable one supported by three spreading legs is easy to make and handy to use. Light material may be employed in making such a holder.

The height of the hopper from the floor is regulated by the length of the bags used, as the bottom of the bag should not rest on the ground while being filled.

Dull hooks or nails of such length and position as judgment dictates will hold the bag while it is being filled Such conveniences as these are simple but they save not only time but much needed energy.

ALWAYS KEEP MILK

Bacteria Increase Very Slowly at Low Temperatures-Put Liguid Against the Ice.

(By WALTER B. LEUTZ.) The colder milk is kept, the longer ft will remain sweet. Bacteria are responsible for the changes which take place, and bacteria increase in num bers very slowly at low temperatures. Therefore, do not leave milk where it will get warm. If possible, put it directly against the ice.

If this cannot be done, put it in the anistal refuse. compartment of the ice box directly beneath the ice, for the air circulating through the ice chest is coldest directly after it passes over the ice.

as cool as possible by putting it in the cellar, or by wrapping the bottle in a damp cloth and setting it out of the direct sunlight in a current of air.

Feed for Farrowing Sow.

It is just as important to use care in feeding the sow following farrowing time in the fall as it is in the spring. Ples are sometimes scoured too green. Best results will follow by allowing the sows free access to if the corn is allowed to be well dentthe alfalfa after they have been shut | ed before cutting. up a week or ten days.

Specialized Farming. Specialized farming is the kind of farmin that puts fertility into the soil and profits into the pockets. That's the difference in many cases between scialfund and general farming.

tomed to Green Food They Will Engarge Themselves.

Every farmer should have some kind (By H. S. BAKINS, Colorado Agricultural College.) In cities where chickens are kept in back yards, it is sometimes a common practice, after mowing the lawn, to throw the cut grass into the chicken lot to supply green food for the fowls. In case the chickens are not accustomed to green food they will engorge themselves and frequently become crop bound. The grass will become impacted in a large mass in the crop which becomes distended. The bird straightens its neck and yawns, shows signs of distress, and if not properly attended to, may die.

> Prevention of course should be p acticed, and it may be stated that fewer cases of impaction occur, if lastead of feeding the cut grass, the chickens are allowed the freedom of the grass plot. Treatment should be sought in consulting the local veterinarian.

COLD AS POSSIBLE MANURE PILES ARE DANGEROUS PLACES

Favorite Breeding Spot for Stable Fly-Animal Refuse Should Be Spread at Once.

Although straw is the principal breeding place for the stable fly in the grain belt, thousands of them develop in manure piles. The house fly and horn fly also breed extensively here and therefore the greatest care should be used in dealing with this

Manure should be hauled out and scattered at regular intervals and any accumulations of straw or hay, especially adjacent to stables, should be If no ice box is used, keep the milk disposed of. Stable manure being usually in close proximity to human habitations, the flies from it have human diseases

Best Corn for Silo

A considerable amount of corn will go into the silos this fall. Don't get in too big a hurry and cut this corn

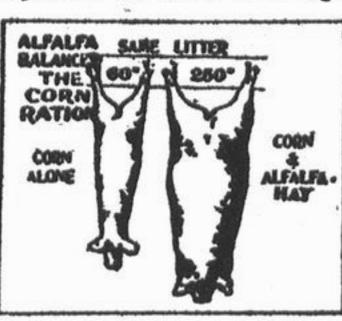
Let Sheep Eat Weeds. Turn your weeds into profit by let ting some sheep eat them.

Lamba Relish Mangles. Mangles, when finely sliced, are greatly reliahed by lamba.

EXPERIMENT WITH HOG FEED

Mustration Shows Difference in Size of Animals Fed on Alfalfa and Corn, and Corn Alone.

The pigs shown in the illustration were litter mates fed at the Kansas experiment station. The big pig was fed on a ration of corn and alfalfa hay; the little pig on corn alone. The experiment was carried on for eight



Balanced Feed.

months. The alfalfa-corn pigs averaged 250 pounds dressed; the cornalone pigs but 60 pounds each. Pigs must have protein. There is plenty of it in alfalfa. The balanced ration made the difference.

PROTECT STOCK FROM FLIES

Department of Agriculture Recommends Mixture of Soap and Kerosene-Use Spray or Wash.

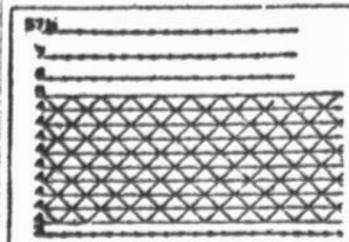
(By CHARLES I. BRAY, Colorado Experiment Station.) During the summer months, when cattle are most likely to be bothered with flies, there are many people who wish to know what can be done as a preventive. There are a number of methods sometimes recommended for this purpose, some of which are supposed to keep flies off the animal by virtue of their had odor or greasy nature, and some which are supposed to be sprayed on to kill the flies. Considerable doubt exists as to the benefits to be obtained from using any of these treatments, or as to the relative value of the different ways of combating flies.

milking time, there is possibly nothing more reliable than kerosene emulsion. The following recipe given by the United States department of agriculture is one of the best ways of making this: Dissolve one-half pound of hard soap in one gallon of hot water, and while still at near boiling point add two gallons kerosene, and emulsify by use of a force pump or agitator of some kind. Dilute with water, one part emulsion to eight parts water, and use as a spray, dip

SUITABLE DOGPROOF FENCE

Arrangement Tried by Government Rangers and Found Satisfactory-Height Is 57 Inches.

On one of the government's forest ranges this fence has been tried for three months and found to be dog and covoteproof. Not a covote made his way through it. Posts are set 16 feet apart. They are 71/4 feet long and set



Dogproof Fence.

the ground The lower wire lies fla i !' ground. numbers on the cut indicate 'he inches betweer wire rands, ' ie total height of the fence 7 inch. The wovenwire fencing is 36 inches high and has a four-incl mesh.

SHEEP REQUIRE SOME SHADE

Best Place for Shed Is on Open Ground Where There is No Grass-High Fence Will Do.

Do not allow the sheep to lie around in fence corners or huddle in underbrush. The best shade is a shed on open ground where there is no grass. A little bit of shelter is fine for sheep. Even if it be nothing more than a high board fence on the side toward the sunshine it will help a lot The sheep can snuggle up near to that and escape the direct rays of the

Better than such a fence is a piece or woodland. We have a cluster of Ht. tle hemlocks in our pasture, up on a side hill, says a writer in an exchange The sheep run up into that and escape not only the heat, but also the miserable flies that hurt them so.

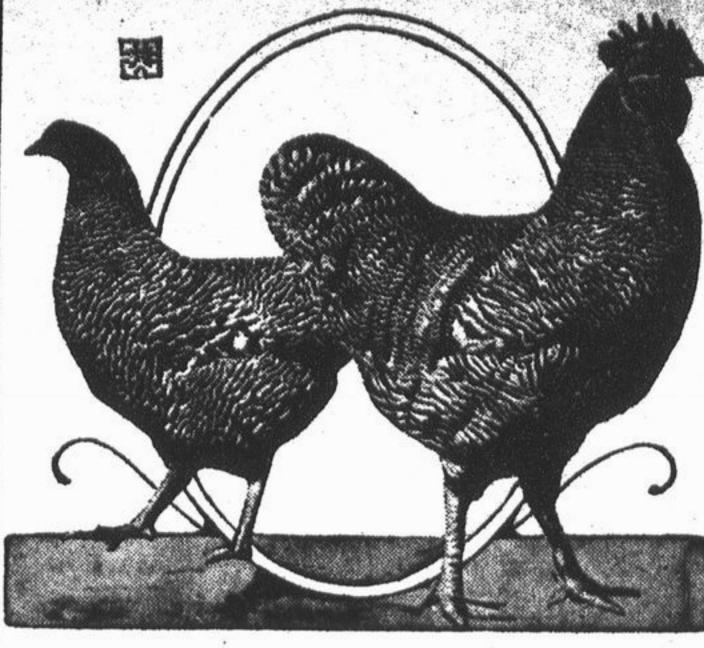
Examine Ram for Ticks.

It is a good plan to examine the ram once in a while for ticks, and if any are found he should be thoroughly soaked with a few gallons of a dip preparation. This can easily be done freer access to man to disseminate with a hand-sprinkler while the ram is in a standing position.

Time to Wean Colts.

Wean the colts at five months of age. If you can put two or three together in a small paddock they will be company for each other and will be easier to wean. If they have been eating grain and grass for a month or more there will be little trouble or setback in weaning them.

Opening for Sheep Raiser. The opening for the sheep raises is very wide. Sheep are very scarce. They are good property on the farm ing season, when it is necessary not and pay well year in and year out. | only to get ours, but ones that



Healthy Barred Rock Cockerel and Pullet.

the flock for weeks.

beneficial.

Treatment.

may be retarded by giving a dose of

one-third of a teaspoonful of Epsom

ful of castor oil followed by disolv-

ing one-tenth of a grain of mercuric

bichloride in a quart of dripking

quart of water is also considered

Prevention.

many of the flock. The birds should

be watched closely and all those

showing any sign of the disease

should be removed at once, killed

contagion and take active steps to

The yard should be plowed deeply

possible, remove the healthy birds to

place and the groups widely sepa

cases should be isolated from the

It is most fortunate that epidemics

This is the only means of saving

water. A few drops of creolin in

There is no effective cure for poul-

(By DR. R. H. WILLIAMS, Arizona Ex- | spreads more slowly, remaining to periment Station.) Cholera is one of the most infectious poultry diseases, often sweeping away an entire flock of any variety of domesticated fowl, and even some species of wild birds. It is caused by specific bacteria which spread most rapidly in filthy yards and houses where the birds are not in thrifty condition. The general nature of the disease and its method of spreading over a district resemble hog cholera. To prevent it from entering a flock where the disease is prevalent in the district, great care must be exercised to avoid carrying the germ by means of droppings, earth attached to clothes, eggs, birds, wind, water or feed.

Symptoms: The symptoms vary considerably in and burned. Avoid bringing in new affected birds. The first indication of cholera is usually diarrhea with destroy all germs by burning the lita yellowish coloration of the urates ter and dosing the house and yard which normally appear white in the with a strong coal tar disinfectant. droppings. The coloration may finally turn to a greenish or bluish green and sprinkled with slacked lime. If color as the case advances. Sometimes affected birds maintain a good clean quarters, putting a few in appetite till death, but usually they quit eating and fever is always pres- rated. An orchard or back field may ent. The comb and wattles lose their be utilized for this purpose, but the For spraying the backs of cattle at | bright appearance and the birds as | birds should be well fed and care sume a drooping, rounded outline, fully watched. Even the suspected caused by the lowering of the tail, head and wings. The period of incu- flock bation varies from one day to several weeks, averaging about eight days, of true cholera are rare among poul-Death may occur at any time, being try as it is a very disastrous disease. preceded by convulsions and sharp Where proper care is exercised to cries. In the virulent form most of keep the birds clean and healthy the birds die in a few days, but if the there is little danger, except when chronic form is present the disease it appears in a district.

Green Food and Corn Add to Color of Yolk, While Beef Scrape Impart Firmness to White.

It is, perhaps, not generally known that the quality of eggs is dependent | able in flocks of fowls. "Going light" in a large measure upon the food the hens eat. In eggs of high quality the yolk is a deep yellow color, and the a disease of its own kind, though what white quite firm, not thin and watery. The feeding of green food and corn (preferably yellow corn) will add to the color of the yolk, and beef scrap will impart firmness to the white

As certain foods will add quality to it will be a large part of the flock. the eggs, certain other foods will impart a flavor that decreases the quality | causes-lice, intestinal worms, tuberof the eggs. Thus onions, fish scrap culosis or aspergillosis. An investigaand highsmelling beef scrap will im- tion should first be made for mites or part to the eggs certain character the larger lice. Look well over the istic and disagreeable flavors.

Odors also lower the quality of whether the fowls are getting plenty eggs. Egg-shells are very porous and of nutritious food. This really is the air readily enters. Eggs should be first question. If the rations are all gathered often and stored in a cool, | right and mites and lice do not aspear well-ventilated room. If allowed to in numbers, then kill a bird acd exremain in a foulsmelling poultry house | amine it. Open some of the interfor any length of time, the odors of tines. If worms are doing the work the house will lower the quality of you will find them in large numbers;

very highest quality are not possible unless the male birds are removed this once or twice a day at first. If from the pens. The embryo of a fertile egg often begins to develop be- a microscopic test, the fowls must be fore the egg is laid, and no matter how often gathered or how well cared for, fertile eggs cannot compare in quality with infertile ones. The germ of life is the germ of decay. An infertile egg will decrease in quality with age, or through improper handling, but it cannot decay.

Buying Breeding Stock. It is not a good plan to wait until spring to buy your breeding stock If you want a well-bred rooster, for instance, look around among the or three times as much

Nothing Yet Found That Answers Purpose as Well as Beef Scraps-Produce Stronger Chicks.

forcing to lay more eggs each year has developed into sort of an egg ma chine. Part of the food she eats goes to make blood and bone and muscle for her own body. The rest of the food, if it is of the right sort, goes to make eggs. But the best hen in the world can't

make eggs from the air. The eggs a hen lays come directly from the food

for themselves, we must look for a there, and then improve on them all good substitute. Up to the present you can. time nothing has been found that answers no well as beef scrap The beef scrap must be absolutely

This is especially true in the breed- the best hens you can afford and

losis Are Responsible. Loss of weight is quite often notice

Different Troubles Lice, Intestinal Worms, Tuberculosis or Aspergil-

is the old name for it, and once it was thought by most farm people to be kind they could not say. It is a name given when fowls become weak, emaciated and unproductive. Sometimes but a few in the flock will show this "light as the wind" disease, but often Powls really go light from different birds and the houses and ascertain even if you find a few it is well to try It is safe to say that eggs of the the turpentine and castor oil treatment, half and half, a teaspoonful of tuberculosis, which really might mean gotten rid of: if aspergillosis, the mouth and throat will show inflammation and pimples; if any of the microbe diseases, like coccidosis, in which the liver is enlarged and spotted with white spots, the intestines badly inflamed, kill off bad cases, if not all, use an occasional purgative and follow with strong quarantine measures

and disinfectants. Water Is Always Necessary. Some people imagine that if they give their chickens skim milk, water breeders and pick out one that is fit is not necessary. This is a mistake to show at the poultry exhibition. If as milk turns into solid food almost you wait until he goes to the show as soon as it reaches a bird's digestive and wins a prize, you will pay twice apparatus, and water must always be

well. It has been found that

fed any animal food, but they also

Damp Quarters Cause Roup.

Roup, one of the most troublesome

eggs laid by hens that have been fed beef scrap not only hatch better than those laid by hens that have not been

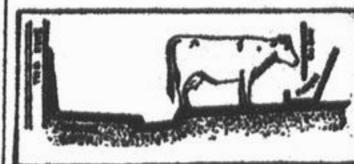
produce stronger chicks. The modern hen, the bird we are diseases among chickens, is almost always caused by damp quarters. Keep the quarters dry and warm, and the

yards clean and roup will not trouble you. Selling Eggs for Hatching. If you are selling eggs for hatching, a visit to the best breeding farm you Since it is not possible to furnish can easily reach, will pay you well. bugs and worms such as the hens find Observe closely the methods followed

Start With Purebreds. While it is desirable, it is not always sweet and pure, or trouble is sure to necessary to start in the chicken

Dairy Building Should Be Constru With Alm to Keep Gows Dry and Clean as Possible

While it is more pleasant to work in fine barns, it is not necessary to have them in order to get good results, but items under this head are quite necessary for getting the best returns, With the comfort of the animal in view, our buildings should be constructed with the aim to keep the cows as dry and clean as possible. Cement floors built with about the same thickness as sidewalks and so construct ed as to offer good drainage are the most serviceable, says a writer in West ern Farmer. They should contain gutter 18 to 20 inches wide and seven



try cholera. Sometimes the disease to eight inches deep. The gutter should slope to one edge and also to one end, as in Fig. 1, which shows salts mixed in a mash, or a tablea cross-section. spoonful of olive oil, or one teaspoon-

The front gate should be adjustable, so as to close to the rear edge of the platform. The manger may be made of wood or cement, but in all cases should be partitioned off so as to keep each cow's food separate. Some stockmen object to cement floors on the ground that they give the cows rheumatism and produce sere feet. If proper bedding is given, there should be no trouble, Many think such a floor construction extravagant and impractical for the average dairyman, but it is not. While the original cost may be a little more, it will be cheaper in the end and far more serviceable. Such a floor will outwear many made of wood and will be far more sanitary in every way They are easier to clean and do not give off odors like a board floor, which soaks up fifth and causes an

ever-present odor in the stable. The stalls should be separate so that each animal will be by herself, and she will soon learn to take her own place when entering the stable. This is not saying that good stables cannot be built of wood, but it is to building or wishes to remodel his barn. that it pays to build well.

Touch With Best and Modern Ways of Managing Herd. 1. Treat cown gently and avoid ex-

2. Be regular in time of milking. 3. Keep stables clean, well-lighted

and ventilated. 4. Weigh the milk of milking time.



Jersey Cow With a Fine Record.

you in owning a Babcock milk tester, and test the product of each cow. 6. Discard the animals which have failed at the end of the year to pay for their keep.

7. Breed your cows to a purchred, registered dairy buil from a family having large and profitable production of butter fat. 8. Raise well the heifer calves from

cows, which for one or more generations have made large and profitable productions of milk and butter fat. 9. Breed helfers to drop their first caives at twenty-four to thirty months of age. Give cows six to eight weeks' rest between lactation periods.

10. Join a dairy cattle breeders' association. See la belp you keep postmost moders, ways of managing your dairy herd.

Short, immature corn should be al lowed to stand until nearly dry before putting into the silo. That is, the leaves should be nearly dry; the stalk should be pretty well filled with sap If this corn is put in while too green it may make sour silage.

Ideal for Keeping Milk Cool. A springhouse or a refrigerator the ideal thing for keeping milk cool but million of pounds of good butter are made every year with no better equipment than a tank for the cans filled with a pump from a well.

Repair Leaking Test. If a cow has a little hole in th side of her test, through which the milk squirts, wait till she is dry, then "crape the edges of the hole till it

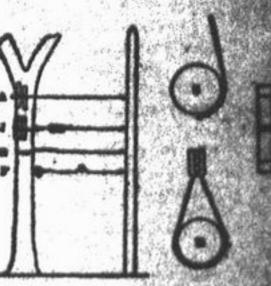
sleeds and sew together. Take out

the stitches when it heals,

Qualities of Dairy Sire. Backed by a good pedigree, base largely on production, with pleasy of

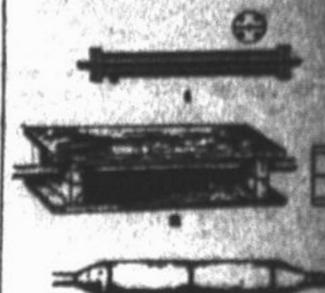


worst. Notwithstanding the



Showing Different Math ing Wires to Trees! a. Wooden Blocks; z. Gross ! Same: b. Wire Loose Placed Around Tree, Cat Wires; L Loose Loop #8 Clamps and Repareted From by Blocks; e. Grees 6 o, Greesstad Cak di Greave, to Support the Wil

regard to injuring shade agents of some public-service tions often have little regard or the laws respecting them. 40-foot poles must carry the u three or four pu interference from limbs wi with high-tension wires, gles offer less obstruction to are planted with sime, which



Showing Different Types for Electric Wires: 4 Dowel Guard: 2, Pa Good: 3, Wooden Bleave,

matic conditions. Wires often accidentally e contact with trees by the di of poles, particularly on current. the strain is very great, but a this injury may be preven bedding the poles in Feri It should be pointed out that the cessity for guying poles to trees a

MAKE SUCCESS IN O

be obviated in this way.

tion by Cultivation, Prus

What cultivation, pruning and as succeeful in lows as in touted western districts chard of the lows As care of horticulturists from College at Ames, y els of apples from 15 acc From 52 trees of Grimes more than ten bushels packing in boxes and a trade at top prices, These due to modern methods of and management. The work at Council Blaffs carried to every ore

All limbs that chafe other should be remade even enough able one to reach all casier. Trees that are

have the tops out