THE HERTFORD COUNTY HERALD



### Haying in Comfort.

so as to make a tall, narrow cock.

Perches are much used in curing pea-nuts and cowpeas. A pyramid con-sists of three or four legs, usually six

to eight feet long, pointed at the top, and commonly sharpened below, so

they can be fastened firmly in the

ground. Crosspieces joining the legs are also useful. A pyramid permits

the building of rather large cocks

with a hollow space in the middle,

which helps greatly in drying the hay.

The objection to all of these devices is the additional labor and cost in-

volved. They are considered more

useful for legumos than for grasses

Additional information on growing hay

h. the South is contained in this bul-

letin, No. 677, and may be had upon

the division of publications, United

States department of agriculture,

Washington, D. C., as long as the de partment's supply lasts.

By Means of Arrangement Shown In

**Illustration One Man Can Work** 

Satisfactorily While Alone,

herewith

appfication to the editor and chief

(Prepared by the United States Depart- cocks from rain have been used. The The cure given the hay crop has simplest is a piece of canvas about three feet square with a weight at much to do with its selling price on the city market. One of the greatest obstacles in the way of producing hay in the great agricultural sections of outh, which imports more than driven into the ground and the green one-fifth of all the hay it uses, is the matter of curing. Rains are heavy in the South, and often come at harvest time. Weather-stained hay, un-less badly damaged, is quite satisfactory as a feed for farm stock, but there is a strong prejudice against it in the city markets. The following suggestions for curing southern hay are contained in United States Department of Agriculture Farmers' Bulletin No. 677, "Growing Hay in the South for Market."

The coring of grass hay in favorable weather is a simple process. Curing is really a combination of three processes, drying, fermentation and bleaching. The first two processes are necessary and desirable; the third is undesirable, but in field curing it cannot be entirely avoided. To secure the best quality of hay the drying proceas must not be too slow. To avoid uneven drying the familiar processes of tedding and cocking are commonly employed.

Tedding is simply the turning or scattering of the cut grass after it is partially dry on top. It may be done by hand with a pitchfork or, preferably, by a horse-drawn machine called a tedder. When the crop is very heavy, the grass is sometim tedded when in the swath, but usually not until after it has been raked into windrows.

Cocking consists of putting the partially cured hay into small piles. The object is twofold: (1) It reduces the surface exposed to moisture that may fall upon it, either as dew or rain, and (2). It evens up the dry-ing, for the reason that the relatively dry leaves continue to draw water from the moister stems. Incidentally cocking also reduces the amount of bleaching.

'In unfavorable weather the labor of curing hay is much increased, as the cock, until sufficiently dry, should be spread at each favorable opportunity and recocked again in the evening or when rain threatens. If hay that is not sufficiently dry be placed in the barn or stack it is likely to become moldy and dusty.

Cut hay should never be handled while wet with rain or dew. As the surface of the hay, if lying in the swath, is the part which was best cured before the rain, it is in the best position to dry promptly. If in the windrow, the stirring of the hay would bring the surface moisture in contact with the drier hay beneath, by which it would be readily absorbed. Bale Hay Only When Sweating is

Completed. carry easily. The fermentation of hay takes place during the process of drying, and be-

LIVE-STOCK-FRUIT-DAIRYING-GARDENING-FIELD CROPS-SILOS-PIGS FARM Now Weinkles Making the Farmers' AND Progressive Business Agriculture 1 28 6 Profitable TOLD IN AN INTERESTING MANNER EXPRESSLY FOR OUR READERS BREEDING FOR MILK SUPPLY | QUALITIES OF POLAND-CHINA Breeds Improve the Thing for Which Breed Considered Ideal of Lard Type They Are Selected-Germany of Hog-Gives High Per Cent of Makes Increase In Yield. Marketable Meat,

Cattle used to be bred chiefly for Therefore the cows did not give much milk. Breeds improve the things for which they are selected. If cows were used for stepladders we should by this time have them seven feet high. La 1730 the work cows of Germany gave an average of a pint and a half a day. Interest in milk increased, and

by 1800 the average yield was a quart and a half. Breeding went on milkeach corner. A perch is simply a pole or stake about six feet long, preferward, and in 1810 the German cows averaged two quarts of milk each per day. In 1820 three, in 1830 four-and ably with one or more cross arma three to four feet long. The stake is there the gain stopped for 30 years. or half-dried plants are hung upon it

## Deven Cows.

HANDY BAG-FILLING DEVICE But in 1860 the production had increased to six quarts, and by 1870 to eight.

The breeders of the trotting horse found it tremendously hard to make their steeds go any faster after the 2:10 mark was reached, and it took A handy device for filling bags can be made by following the plan given years and years to get below two minutes-and at about the two-minute Set up three posts, as shown in picmark in all probability the record will ture. The apex should be about six always stand. So with the milch cows, feet from the ground. Screw into each as the yield increased it grew more part a stout hook at the height that

difficult to breed record breakers, or to will let the bag rest lightly on the better the average; but now the average daily yield of all German cows is said to be ten quarts. A thousand per cent gain in a cen tury and a quarter; that is what long period breeding will do. It is such work as this which alone will keep

the world big enough for its increas ing numbers of people. HANDLE THE BULL CAREFULLY

Quiet Animal That Has Never Harmed Anyone Usually One to Attack Unsuspecting Attendants.

The bull should always be handled kindly and firmly, and should understand that his attendant is his master. It is always advisable to train the buil calf to lead, and a ring should bə placed in his nose at an early date. Never permit the bull to have his own out anything where you may one place to another, as the posts can differ with him and insist upon prompt obedience.

easily be made of 2 by 4 inch pine material, light enough for a man to It is very easy to spoil the dispo-

(By D. L. GRAY.) The Poland-China breed of hogs originated in the state of Ohio. This breed is considered the ideal of the lard type of hog. The individuals are broad on the back, compact, low, and dress a high per cent of marketable meat. The back is broader and

shorter than that of the Berkshire, but the latter has the advantage of the Poland-China in length of side. The face of the Poland-China is

longer and not dished so much as that of the Berkshire. While the ideal ear of the Poland-China hog stands erect,



still the tips of the ears should droop. The large, over-hanging ear is very objectionable to Poland-China breed-In color the Poland-China is ers. black, with six white points-on the face, on the tip of the tail and on the feet.

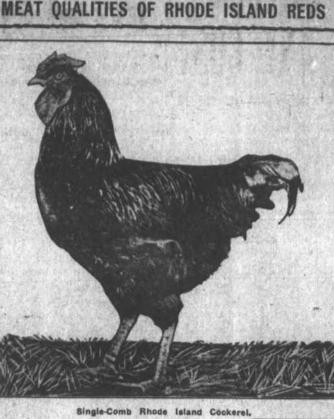
The Poland-China was originally a very large hog, but has been bred for refinement and compactness so long that at the present time it will not weigh as much as the Berkshire. Poland-Chinas are good feeders and early maturers. They are suited rather to lot feeding than to pasture feeding, as they have not the rustling qualities as some of the other breeds. Still they will make good use of pas-tures. The meat of this breed is tender and fine-grained, but there is more fat than the average consumer likes and the fat is not suitably distributed with the lean. The Poland-China is not quite as good as the Berkshire or Jersey in breeding qualities. Dur

Animals at California Experiment Station Made Satisfactory Gains and Brought Profit.

ALFALFA SILAGE FOR STEERS

California experiment station made silage out of their first cutting of alfalfa last summer. The field was foul with weeds, there being much foxtail which was nearly ripe, with beards already hard. It was decided that the cutting was practically value-less for hay, and therefore the crop was put into the silo.

The steers were fed on rolled barley, alfalfa hay, and the alfalfa silsition of a bull by permitting children. lage. In two months they made a old as well as young, to play with him or tease him. The man who is al-a profit of about \$5 per head.



(By E. T. DE GRAFF.)

After 16 years' experience with fowls, I have concluded that Rhode Island Reds combine more practical qualities and fewer undesirable than any of the 20 varieties I have

Their popularity is due to their rapid growth, oblong bodies with wide, plump breasts and yellow skins. rule.

Besides their early maturity they are hardy and lay large eggs, espe-cially in winter. As mothers, they compare favorably with Plymouth Rocks and Wyandottes and are free from the objectionable fattening-upbehind characteristics of these breeds. In raising these birds to table sizes, the following is my regular practice.

In a corner of the house cellar is an asbestos-lined incubator room.

When a hatch is made, 50 of the liveliest chicks at about thirty hours old are removed in the afternoon and placed in a thoroughly clean, painted louseproof brooder, each chick having its bill dipped in water to teach it to drink. The other chicks remain in the incubator until next morning. The first feed consists of stale bread, soaked in either sweet or sour milk, and squeezed out.

The second day they are given the range of the brooder scratching floor, upon which are scattered sand and charcoal dust with some litter.

Until they are six weeks old they get mostly chick feed in the litter and charcoal, grit and meat scrap in a hopper

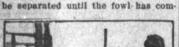
All utensils are kept scrupulously clean; they are bolled once a week. Green food is always given them when there is no grass run. The out-

PROPER TIME FOR MOLTING | more or less susceptible to sickness.

Period Commences Earlier in Young Fowls Than In Old-Valuable Additions to Bill of Fare.

The proper months for molting are August, September and October, but in young stock it is apt to begin a month earlier and in old a month

later. The older the fowl the more delayed will be the commencement of this period If not already done, the sexes should



door brooding is in a clover-covered pear orchard with running spring wa A very good food is made by adding some charcoal and meat scraps to

johnny cake. The chicks are also fond of dry wheat bran which is always before them. Feed little and often is the

Milk is often given in addition to water. All liquids are protected so the chicks cannot wet themselves. I know of no breed that possesses more vitality right from the shell. One of the reasons for this is the chicks feather out rather slowly un-

til about two months old. Most of the food goes towards making flesh, bone and muscle instead of feathers.

In this respect the reds are superior to those breeds that feather out young.

When three weeks old the chicks weigh about eight ounces, and when they reach the first broller stage at six weeks, they weigh about one and one-fourth pounds. Two weeks later they weigh about two pounds.

At this stage the cockerel is com-mercially more profitable if plump. and batched at the right season than he ever will be afterwards if feed and care are considered. In the roasting stage at three months, they will weigh three pounds and will gain a pound per month thereafter until they weigh five pounds.

In this stage they appear awkward because of their rapid growth and development of their second feathers; but - their well-shaped bodies, long, plump white breasts make them very attractive when dressed for market

. It is generally supposed that it takes one hundred days for a fowl to

change its coat of feathers. The Van Dresser method of semistarving and then overfeeding fowls to make quick molt has not stood the test expected. Poultrymen, as'a rule, are more favorable to old nature's

method. Both sunflower seed and linseed meal are valuable additions to the bill of fare at this time of the year. The bill of fare should be rich in nitrogen. Green food is important. Unless the material in the food is of a feather-making nature, the fowls cannot shed the old coat.

pays big. When a hen receives a large supply

DORMANT PRUNING IN FAVOR Work on Considerable Scale During

Summer Season is Not Advisable --Difficult to See.

In practice, summer pruning, on a nsiderable scale, is not advisable. It

is difficult to see, when the leaves are

on, just which branches should be re-

moved, except in the case of dead branches. One must be on the guard, also, to avoid peeling of the bark when

it peels rapidly. Pruning is less ex-

peditiously done in summer than when

There are occasions, however, when one desires to complete work of prun-

ing begun early in the season. There

need be no fear of injuring the trees

by taking off a moderate number of

the trees are dormant.

completed. The removal of dead branches cannot affect the vitality of the tree, no matter when done. Nor can there be any serious effect if here and there branches, which are too close or which cross, are removed. The thinning out of small, twiggy branches for the purpose of thinning the fruit is not a harmful process in early summer. The drain on the tree is less than it would be to bear an abnormally heavy crop of fruit. There are a great many trees which might be relieved of a surplus of fruit during May and early June to

# SPRAYING IS NOT DIFFICULT

Know Enemy You Are Fighting and Mix Materials Properly-Ha ard Work Will Not Do.

It does not pay to spray, as spray-ing is done by half of those who try it.

Yet proper spraving is not difficult. Have first a clear idea of what you want'to do. Know the enemy you are fighting. Then mix your materials properly. Study the formula and follow directions carefully. No haphan-ard work will do. The details given for the mixing are all necessary.

Spraying well done pays, and it Apply it right, with a strong pres-

sure so as to make a very fine mist. You can do it right if you try to and yet it is no easy job. It is work

good advantage.

Pruning Peach Tree in Dormant Sea

branches when the leaves are on, in spite of the fact that the removal of leaves debilitates a tree; If done early in the summer the injury is less than after the summer growth is nearly





cause of it the characteristic sweet odor is developed. The process is accompanied by the formation of heat, which is particularly noticeable in the later stages of curing in the cock, the stack, or mow. The final stage of fermentation 11 called sweating. The process of sweating continues for a considerable period and hay should never be baled until the sweating has ceased. If for any reason curing be long protracted the hay becomes bleached or, weather stained and loses most of its aroma.

Legumes, with the exception of lespedeza, are far more difficult to cure than grasses. This is due largely to their solid, more succulent stems, and to the fact that the Jeaves shed readily if the curing process is delayed, so that much of the leafage. the most nutritious part of the bay, is lost. Furthermore, legume hay ab sorbs rain or dew more readily, both in the windrow and in the cock. Finally, legume hay is very apt to heat excessively in the sweating process if put in the stack or mow when not sufficiently cured. This heating is often sufficient to char the hay in the center and sometimes to cause fires. Legume hay should therefore never be put into a barn when half cured Curing may be considered completed when the stems are apparently dry. In this state a wisp of the hay is dry enough to rattle if gently shaken and readily when tightly twisted

in the hand. Special Devices for Hay Curing.

To hasten the drying of hay and to prevent the injury of half-cured hay by rain, several devices often used are helpful and are here described, but each necessitates additional labor. Various forms of hay caps to protect | ties.

Fertile Eggs.

Upon placing a male with bens which have not had a male with them. the eggs become fertile in about three days and remain fertile for 15 to 20 that much longer. The mule's keep is days after the male has been re-3 moved.

Stick to the Cow. Stay by the cow. She produces butter, skim milk, a good calf and manure to fertilize the land. of these products will remain high in

oor Methods at Fault What we need today is better farming, better system of rotation and more land in grass. Under such management we can put stock raising on a money-making basis and gradually build-un our solls. The great trouble today is not that of poor land so much as it is poor methods of soll ha Much of the trouble is due to the fact that we do not measure up to the pres

Device for Filling Bags.

ground when filled. If they are too

By means of this arrangement one

man can do the work of one man and

a boy. It can easily be moved from

high the bag will tear out.

ent-day requirements as farmers.

Protect the Machinery. Some of the implements which are found on almost every farm are used for very short periods of each year. The length of service may not include more than three or four weeks. For quicker. the remaining part of the year, such pieces either remain in the open, or

they may be given the best of care in first-class implement shed. Where they are exposed to the weather s rapid decline in value is the result. Spray for the Onion Maggot.

The onion maggot, which does a lot of mischief, may be fought with a new spray compounded to kill the which lays the eggs from which the maggots come. This spray should be applied, before the maggots appear,

with a coarse spray. The mixture consists of one pint of New Orleans molasses, one-sixth of an ounce of sodium arsenite and one gallon of wa

Good Old Red Clover. Don't give good old red clover the go-by entirely. We can remember when it was as much lauded as alfalfa and s ningly as hard to get. No doubt of its food or soil-building quali-

Average Life of Mule. It is claimed that the life of a mule is an average of five years longer than that of a horse, and it will do work

a horse. Disinfect Coops Between Broods

After taking one brood of chicks from a coop move it to unother patch of ground before putting in another brood. It is also a wise safeguard to disinfect coops between broods.

any.

It is the quiet bull that has never horned anything that usually does the damage, suddenly developing a viclous spirit and attacking his unsuspecting attendants.

Working In Salt.

If you use a barrel churn, sprinkle the salt in on the butter after you have drawn off the buttermilk and washed

the butter. Then turn the churn as you do to gather the butter. You will find that you have worked in the salt more evenly than you can by the old method, and this way is easier and

Pasture Extravagance.

But one of the most absurd pasture extravagances is the feeding and tramping thereon of an unprofitable cow, for even the cleanest and best, most luxuriant pasture cannot feed profit into a cow that has missed her

calling. Water for the Cows. Cows should be given all the pure water they can drink, not less than twice a day. It has a decided effect upon the milk production,

Know How to Raise Cows.

Better than knowing how to pick good cows out of the sale ring is knowing how to raise them.

Good Investment. A high price for a good bull is a better investment than a low price for a

poor bull. Feed Growing Helfers

Growing heifers should be fed very much as milch cows are fed, except that the rations will be smaller, course.

Faulty Method of Feeding Poor results sometimes obtained it

feeding akim milk are due nine times out of ten to faulty method of feeding

improper Feeding. Milk fever and caked udder may both be brought on by improper feed ing before calving time.

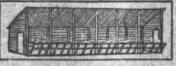
The silage as fed out was about half foxtail, but it was always eaten up clean. The experiment shows that silage may be made from weedy alfalfa which would make but inferior hay, that such silage will be eaten without waste, and that it can be used as a supplementary food for fattening on alfalfa hay and barley.

It is suggested that where the first cutting of alfalfa containing foxtall is to be used for silage, the work should be done before the foxtail beards become hard.

CHEAP SHELTER FOR STEERS

Posts Set Eight Feet High on One Side and Six on Other With Roof Will Answer Purpose.

A cheap shelter for stock is made by setting posts 8 feet apart, 8 feet high on one side and 6 feet on the other alde. making the shed 12 feet wide and 40 feet long, writes D. Siskel of Merrick county, Nebraska, in Missouri time.



### Shed for Steers.

Valley Farmer. Roof runs one way, and north side and ends are boxed, with a gate at each end and rack running the full length of shed on south side. Straw may be used for the roof to still further cheapen construction. A shed of this size will shelter 25 or 30 two-year-old steers.

#### Sheep Keep Weeds Down.

One can easily tell while driving along the roads the farms on which sheep are kept. The absence of weeds is always noticeable. A few sheep on a farm is a sure means of letting the boys do something else on a rainy day than wield the scythe on the weed patches.

Sheep Respond to Care. Sheep respond to every little extra stention, and the owner should move among them, talking to them quietly, every day.

of carbonaceous food she increases her fat without supplying the necessary elements needed in the renewal o the feathers, and there is a general wasting away, inactivity of the bird. and death. When no stimulant is given, the shafts of the new feathers seem to stick on too long, not split ting open freely.

### **USE CLEAN FEEDING BOARDS**

Many Poultry Diseases Caused by Chicks Eating Over Droppings-Extra Work Gives Reward,

Keep plenty of smooth boards on which to feed the chicks. Never feed a chick twice on the same side of the board: turn over to the clean side and next time get a clean board. Give all these boards a scalding off each time washed.

From white diarrhea on through many poultry diseases the contagion is carried because the chicks eat over

the droppings. This extra work gives you its reward in saving you many chicks that otherwise would get sick

and die. Never feed poultry of any

GAPE WORMS CAUSE TROUBLE | from the well ones, and the quarters where they are kept should be sprin kled daily with slaked lime. Put a few

Best Preventive Measure is to Remov crystals of permanganate of potash in the drinking water-enough to turn it pinkish. By this means you may be able to save a good many of your

chicks, but an ounce of prevention is worth many pounds of cure.

### Good Poultry Food.

Screelings, the small grains of wheat, if not moldy or musty, make as good poultry food as the large grains, and can often be purchased at one-half the cost of good wheat,

Supply Some Animal Food.

The hen must have some anima food in order to produce successfully She gathers this in the summer time but in the winter it must be provided

Milk Relisted by All. Milk in any form is good for both old and youn, stock.

**Bulky Food is Best.** 

from first to last, but it is work that pays.

### **RIGHT SITES FOR ORCHARDS**

Well-Known Fact That Cold Air Setties to Lower Levels is Often Overlooked-Loss by Frost.

It is a well-recognized fact though one too often overlooked in selecting sites for orchards, that cold air settles to the lower levels. For this reason it is often colder at the lower elevations than it is at higher points in the same locality. This is what is meant by "atmospheric drainage. The occurrence of frost in low places when there is none on ele-

vated areas is thus explained. For the same reason peach buds

sre often winterkilled or the blossoms are injured by frost in the spring in low places when nearby orchards on higher elevations are injured much less, or even escane entirely

Bees Help Fruit Trees. In a recent experiment at the Illinois station it was found that the bees in the neighborhood work principally on the outside rows of the orchard, and this, with other factors, are the probable cause of this part of the orchard bearing more fruit. With hives located in the center of the orchard, the trees nearest the hives were better pollinated than those farther away.

### Pruning Bush Fruits.

In pruning bush fruits the principal object is to shape the bush and do away with all unnecessary growth, This can be overdone, however, and should not be carried to extremes

#### Check Wood Growth

Summer pruning has a tendency to check the wood growth and encourage the setting of fruit buds, and also to aid in their development and maturity. This alits in keeping up the balance, and an orchard once in the habit of bearing will be less likely to overar one year and produce little or no fruit the next.

Cut Off Cedar Applea Either cut off any cedar appl trees near the orchard or cut out the trees.

Runs to New Ground-Separate All Infected Birds. Gapes in chickens are caused by the gape worms which live from year to year in the soil of the ground where the infected chickens have been kept. The best preventive measure is move the runs to ground that has not been so occupied for two or three years. If the chickens are kept until they are six weeks old on ground that is free from worms, the trouble will be over for that year. A good plan is to move the entire chicken plant to new

ground and devote the old ground to vegetables, grain or grass.

About the only remedy for the infested chick is to extract the gape worms from its throat with a looped horsebalr or a very fine wire. hair or wire should be disinfected in a solution of a tablespoonful of creo-lin in a pint of cold water each time before inserting it in the windpipe. Bulky food serves to promote diges Affected chicks should be separated tion and bealth.



Flock of White Leghorns.

pleted her new feather growth. In fact it is not advisable to remate before the first of the new year. Any weakness a fowl may have is pretty sure to develop at molting

Molting is not a disease, but the strain in growing the new feathers

is apt to weaken the fowl, making it age on dirty ground.