INTENSIVE HAY RAISING IS PROFITABLE



Mowing Cowpea and Millet Hay-Two and One-Half Tons Per Acre.

plant, and it was tried as an experi-

ment inasmuch as the soil was more

or less full of humus form heavy

applications of stable manure, and

vegetation following the cutting of

forage crops, such as young weeds,

oat and pea-vine stubble and the like.

at the rate of 15 loads per acre were

spread late in the fall on the growing

crop of wheat and clover. The cost

of seeding the 6-acre plot was: Plow-

ing, \$16; disking, rolling, harrowing

and seeding, 16; 1 ton of acid phos-

The cost of seeding the 5-acre plot

was: Plowing, \$14; disking, rolling,

harrowing and seeding, \$14; one car-

load of ground limestone, spread, \$66;

seed wheat, \$5.25; clover seed, \$7.50.

acre farm last fall were as follows,

Estimating the 11-acre crop of

mixed wheat and clover at 2 tons per

Crull will get 22 tons of feed that will

be worth at the lowest, \$20 per ton,

to be taken into consideration, that

year, both from the standpoint of fer-

tility and also from the fact that its

proximity to a growing city enhances

its value in that respect. But the idea

is this-intensify your operations, use

more manure, humus, fertilizer, fight

shy of big, poor surfaces, from which

no profits attend. Mr. Crull's work

Them Should Be Careful in Se.

lecting Land for Plants,

Strawberry growers who are trou-

bled with white grub worms should be

careful in selecting the land upon

which the plants are to be set. Sod

that the land be given to some crop

not injured by the grubs, for two or

three years after the sod is turned

under. If the grower cannot wait that

long he might pasture pigs on the land

If stable or barnyard manure is used

as fertilizer, it might be well to mix

with it from 200 to 400 pounds of cy-

anamide to the acre. It is possible

that cyanamide cannot be obtained.

About 100 pounds of sulphur or enough

to slightly color the manure might be

added. The sulphur can be applied be-

the grubs, but they act as repellents,

and will probably drive the grubs

away. The best method, however, is

Worth While to Remember That Feed

Lot Should Be Kept Free From

Other Animals.

Many people are of the opinion that

sheep is nothing but a scavenger

that needs little attention, but it will

e found that the more care and atten-

tion the lambs receive the greater the

profits will be. Among the items of

good care in fattening lambs the fol-

lowing are worth remembering: The

feed lot should be kept free from other

animals. Lambs should be fed with

regularity. Quiet in the fed lot is

important. Feed troughs should be

kept as clean as possible. Salt is nec-

essary and should be before them at

all times in a separate trough. Lambs

do not need much shelter, but a good

windbreak is necessary and an open

shed whereby their coats and feet can

BREEDING HORSES FOR FARM

Don't Neglect to Give Attention to

Temperament of Sires and Dams-

Avoid Bad Qualities.

While breeding for size and uni-

formity of farm horses, don't neglect to give proper attention to the tem-

perament of the sires and dams. Un-

desirable qualities in this respect are

just as much to be avoided as those

Keep Farm Tools Sharp.

It saves horse feed and horse

strength. It does better work, more

of it in a day, and pays a better profit

tallty. A good emory stone will pay

for undersize and ill shape.

be kept dry gives the best results.

Neither of these substances will kill

the grubs out and eat them.

tween the rows.

to avoid sod lands.

On this 5-acre plot, stable manure

The following experiments in raising forage crops, on an intensive plan. show most conclusively that if land is heavily manured and the crops put | with the consecutive turning in of in as they should be that the yields will be at least 100 per cent more per scre than the ordinary farmer re-

reives. Mr. N. J. Crull, a well-known liveryman of Richmond, but formerly a successful farmer in the state of Pennsylvania, and later on in Virginla, owns an 11-acre farm near Richmond, which when purchased a few pears ago in a low state of fertility, phate, \$14; seed wheat, \$5.30; clover although the land was naturally good. Only forage crops have been raised, and the writer will briefly tell of those which he has seen growing, harvested

md estimated. Beginning with an oat hay crop. sown a year ago last September and The total expenses of seeding the 11harvested in June: I saw this crop as a two-horse tedder was stirring it and given as a whole, including the up and it was the first time in my life harvesting of the hay crop, \$272.05. (20 years of which has been spent in farming) what I ever saw a growth of oat hay of such rank growth | acre (a most conservative figure), Mr. that a tedder could not stir up the mown crop from top to bottom. From this plot of 6 acres 15 very large \$440. Deducting expenses, there is wagonloads of hay were harvested, left a profit of \$187.5. With this fact The hay was perfectly cured and a ton per load was a most conservative his land is improving in value each astimate.

The hay at that time would easily have brought \$20 per ton on the Richmond market, which gives \$300 worth of hay from 6 acres. The cost was as follows, the figures being accurate. Cost of manure at 15 loads per acre, a total of 90 loads, value \$1 per load, 190; cost of plowing, \$16; cost of har- teaches a profitable lesson. rowing, rolling, disking and seeding, \$16; cost of harvesting, \$15; cost of GRUBS EAT THE STRAWBERRY 12 bushels of seed at 60 cents per bushel, \$7.20; total expense, \$144.20; Growers Who Have Trouble With profit on crop, \$155.80.

As soon as the oats were off the ground, the six acres were plowed, prepared and seeded to German millet and cowpeas, at the rate of 8 bushels of peas and 3 pecks of millet per

Before the crop was sown, an appliland, according to J. R. Watson, encation of a little over 300 pounds of tomologist to the University of Florida acid phosphate per acre was used, or experiment station, is apt to be inin other words, 1 ton put on the 6 fested with the worms. He advises

When this crop was harvested, hay was very high on the Richmond market and \$25 per ton is a conservative value to place on the beautifully cured millet and pea crop, which made a six months before planting. Pigs root splendid mixed hay. The yield was 15 tons, which, valued at \$25 per ton, totals \$375. Cost of crop as follows: Plowing, \$16; harrowing, rolling, disking and seeding, \$16; harvesting \$16; I ton acid phosphate, \$16; 6 bushels of cowpeas, \$12; 41/2 bushels of mitlet, \$7.87. Potal cost of crop, \$82.871/2. Profit, \$287.12.

Another five acres were sown in cowpeas and millet about two weeks earlier. This crop followed out stub-He from a crop sowed the previous September, but owing to the fact that it was constantly grazed, the value of the hay crop was so materially lessened that no account was kept of the light yield. However, the amount of grazing value of the oats was of great value to the owner.

This crop of oats had been topdressed during the late fall with manure at the rate of 15 spreader loads per acre (in fact all manure used on any crop was applied with spreader). The land was plowed, and there was considerable growth of oats. as well as manure, turned under. The writer saw this crop as it was being mowed, and it could not be excelled either for growth or quality.

The crop was estimated at 3 tons per acre, by many practical farmers who saw the crop at harvest time, but at the lowest, the yield was 21/4 cons per acre, making 15 tons, which at time of harvesting was worth \$25 per ton, or \$375. Cost of crop: Plowing, \$13.50; disking, rolling, harrowing and seding, \$14; harvesting, \$14; cowpens, \$10; millet, \$6.56. Cost of 75 londs of manure at \$1, per load, \$75, but it seems that at least half of this amount should be charged to the oat erop sown the previous fall. Allowing this way, the cowpea and millet crop will be charged with \$37.50 manure account. The total cost of this other nes and millet crop follows: \$91.561/2 profit, \$283.44.

Last fall the whole farm of 11 neres was sown in wheat and German or crimson clover, to be cut for hay in the late spring. The methods were carried out in this manner:

An application of 1 ton of acid phosphate was applied on 6 acres, then the land was seeded with wheat at the rate of 1 bushel per acre and at the same time clover seed at the rate of 1 peck per acre.

The 5-acre plot (after plowing) had It saves time, temper, and human viground limestone at the rate of 6 tons per acre spread over it. This lime for itself in one season-get one and stone was secured from the state keep the tools sharp.

CARE OF CREAM IN SUMMER

Few Simple Rules Given Which Should Be Followed-Dirt Always Carries Bad Flavors.

(By W. B. COMBS, Missouri College of

Agriculture.)
During the hot days of summer the farmer who is selling cream to the creamery finds it a problem to keep his cream in the proper condition. However, there are but a few simple rules which should be followed, that would result in better cream. First of all these is cleanliness. Dirt, remember, carries bad flavors. If the barn or its surroundings and cows are dirty it will result in poor milk; poor milk results in poor cream; poor cream results in poor butter.

Immediately after separating, the cream should be cooled down to at least 50 degrees Fahrenheit. Warm cream should never be poured upon cold as the temperature of the lot is raised and bad flavors may result. It is essential that the cream be stirred frequently to insure uniform ripening. If the cream is left undisturbed, the fat rises the same way as it does in milk. As a result the cream is full of curd particles or it becomes "lumpy."

Never put cream in a rusty or battered can and always remember that milk and cream have that property of absorbing bad flavors.

CAREFUL ATTENTION TO COW

Animal Brings In Regular Returns In Dairy Products-No Farmer Can Afford to Neglect Her.

Cows require regular and careful attention. There is work in keeping cows and giving them proper attention. But they bring in regular returns in dairy products and cash and no farmer can afford to neglect cows.

What would it mean to individual farmers and the country if every home had as many cows as it requires to supply the table with milk and butter? would mean. It would certainly give more cash from the animals and crops



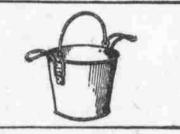
Head of a Purebred Jersey. raised and be the means of greater

Doubtless it would mean more than this. It would give more wholesome, nutritious foods and enable parents to rear healthier, stronger, more efficlent children. Isn't this worth striv-

DEVICES SUPPORT MILK PAIL CARE FOR FATTENING LAMBS

Curved Side Arms, Resting on Knees of Milker, Keep Receptacle in Its Proper Place.

The curved side arms of this pail, when in use, rest on the knees of the milker and help support the pail. When not in use they are folded down out of the way or are removed entirely



Supports for Milk Pail.

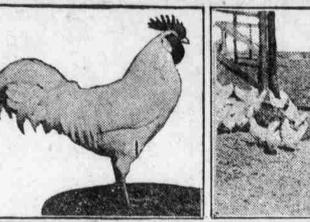
by simply springing them out of their bearings. It is claimed that these arms are simpler than similar devices previously patented.-Wisconsin Agri-

FEEDING SILAGE IN SUMMER

Farmer Must Decide for Himself Whether Practice Is Cheaper Than Letting Cows on Pasture.

Every farmer must decide for himself whether it is cheaper or more profitable to feed silage during the summer or let the cows get most of their feed from the pastures. If you have land suitable for no other purpose than raising grass it would not pay to let it lie idle, but if your farm consists largely of tillable land the situation is quite different. It costs time and money to raise corn and put it in the silo and feed it out, but on many farms it will pay to rely mainly on the summer sile for the dairy herd, to doctor when disease appears,

HOW HIGH PRODUCERS MAY BE SELECTED



White Leghorn Cockerel and Flock of Pullets.

It is not only possible but desirable | hard, but birds in good condition and to pick out the high-producing hens laying have pliable combs. in the flock by means of external characteristics, according to W. A. Lippincott, professor of poultry husbandry in the Kansas State agricultural col-

"Hens that molt late are high producers," says Professor Lippincott, "because they have a longer period in which to lay. Late molting is the accompaniment of late laying, but the mere fact of late molting does not make high producers. The hens that molt late begin laying as early as the early molters, because they molt much more rapidly and lose less time,

"In the yellow-skinned breeds the paleness of shank is a very reliable indication in the fall at the end of the first year. The high producers lay year of laying has been a poor producer for that year.

"Those birds with soft and pliable combs about October 1 are in general better producers than those with hard ing year all pullets which have yellow and dried-up combs. As a bird molts shanks, dried-up combs and shrunken the comb tends to shrink and become abdomens."

"With the White Leghorn pullets which have yellow pigment in the earlobe at the start of the season a white earlobe will be an indication of high production. These birds with yellow pigment in the earlobe will lay out this color until the lobes are

"The smoothness, pliability and oiliness of the skin are indications of egg production. A laying bird has a softer, smoother feeling than the nonlaying bird.

"Due to the yolks developing in the ovary and the increase in size of the oviduct, the abdomen swells out in preparation for the laying season. When a bird gets ready to stop laying the abdomen shrinks. This fact the color out of their shanks, and so is valuable in telling what the bird any bird with yellow shanks after a may do for the next two or three weeks, or by knowing whether the bird is laying at a certain time of the year.

"The practical application of these facts is to discard at the end of a lay-

DEVELOPMENT OF THE CHICK RANGE FOR YOUNG CHICKENS

Egg Furnishes Feed, Water and Other Necessary Essentials-Heat Causes Incubation.

Each egg produced by good, vigorous hens running with a strong rooster and housed and fed under proper conditions is the possibility of another chick. In the egg is a home and it contains feed, water and all that is Perhaps none of us realize what it necessary for the development of the chick, except heat. It is the application of this heat under favorable conditions that is called incubation. At the time the egg is laid the development of the chick has been going on rapidly for several hours. As soon as the temperature drops down below 70 degrees F. this growth stops and the embryo goes into a resting stage until the egg is again warmed up. This very young chick, called the blastoderm, rests on the upper surface of the yolk.

Immediately surrounding the yolk Rape may be sown and, when grown, James M. Foley, a mining engineer. the large and small ends of the egg is a dense opaque layer of albumin or white called chalaza which tends to support the yolk and lessens its movement, except as it revolves on the chalaza as an axis to keep the blastoderm at the top. The rest of the white is more watery and more transparent and is surrounded by two rather tough membranes and the shell. These two membranes separate at the large end of the egg and form the air cell which in a fresh egg is about the size of a dime, but increases with age due to evaporation of moisture. The shell being porous permits the passage of air or moisture in or out.

CLEAN THE CHICKEN BROODER

Give Chicks Good Start by Disinfecting Before Placing Them in it-Use Hot Water.

Give the chicks a good start by cleaning and disinfecting the brooder made. A box deep enough to prevent before they are placed in it. The Pennsylvania State college experiment station recommends scrubbing hoppers from the weather. In such with hot water or the use of a 3 to 5 per cent solution of any of the coal tar or other commercial disinfectants. Have the brooder dry before the chicks are introduced into it. Cleaning the brooder once a week during the brooding period is a good practice.

MACHINE-HATCHING IN FAVOR

Forceful Argument Is Number of Eggs Broken and Spoiled by Hens-Average Is Large.

A forceful argument in favor of machine-hatching is the number of eggs broken and spoiled by sitting hens, Even under the most satisfactory henhatching conditions the breakage will first feed. However, their continued often average 15 to 30 per cent of the eggs set. Other eggs are smeared ground in a food chopper and mixed when not broken and the chicks lack air to develop sufficient vigor to break the shell.

WASTE OF TIME TO DOCTOR

Attention to Details, Constant Watchfulness and Careful Feeding Are of Great Importance.

Successful poultrymen spend much time in trying to prevent disease. Attention to details, constant watchfulness and careful feeding play the most important part in the everyday life of the prominent breeder. So much time is given, therefore, to prevention that it is considered a waste of time

Problem of Supply Green Feed Does Not Receive Sufficient Attention From Farmer.

The problem of supplying a range or green feed for chicks does not receive sufficient attention. This is an he is fretful and sleepless. important side of the proper rearing of poultry and the farmer who has sour skimmilk to spare and a good Boston. Sold everywhere .- Adv. green range has more than half his chick problem solved. For temporary feeding, one can soak

oats overnight in water, wash them thoroughly next morning and spread them in half-inch layers in boxes or trays. Place these trays in the shade ereign. outdoors and sprinkle with water twice daily. In from three to six days the oats will be ready for feeding. For baby chicks feed when the sprouts are one-half inch long, giving once daily what the chicks will eat in about ten a 7,000-mile trip to Seward, Alaska, minutes.

lettuce, mangels, beets, turnips can also be used for green feed.

The only really satisfactory way, however, to supply green feed and a good range is to sod a piece of land ground and dropping a piece of Bermuda sod every 13 inches, and to put some burr clover into this Bermuda grass in the fall.

FEED PENS FOR BABY CHICKS

Wire Covered Yard of Laths, Placed Close Enough to Keep Old Fowls Out, Will Suffice.

If old and young chicks are allowed to range together, feeding pens should be made for the baby chicks. A wire covered yard of laths, placed far enough apart to permit the chicks to get between, and wide enough so that the older birds cannot reach their heads in to feed, is cheaply and easily the old birds reaching in, with a wire fence in front, will protect the feed hoppers, keep a dry mash of ground grains, charcoal, cracked bone and grit. The hoppers should not furnish the only food; cracked corn scattered in the litter makes a good exerciser.

FEED SHOULD BE NUTRITIOUS

Good Practice to Throw Limited Amount of Rolled Oats on Floor for Chicks to Clean Up.

A good first feed is to throw a limted amount of rolled oats on the floor, only the amount that the chicks will clean up in about one hour. Rolled oats are very nutritious and relished by the chicks and are excellent as a use is not advised. Hard boiled eggs, with dry crumbs may also be successfully used as a first feed.

FIRST FEED FOR THE CHICKS

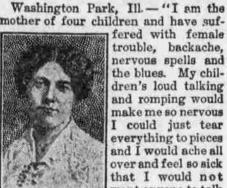
Dry Mash Mixture Given Until Fowls Are Six Weeks Old, Fed in Self-Feeding Hoppers.

Dry mash, which is fed until chicks are six weeks old in shallow boxes or self-feeding hoppers, is compounded as follows:

Five pounds blood meal, three bounds charcoal, twenty pounds middlings, twenty-two pounds cornmeal, twenty-two pounds buckwheat meal, twenty-three pounds oatmeal, five pounds fine bone meal.

MY HEALTH

To Lydia E. Pinkham's Vegetable Compound.



trouble, backache, nervous spells and the blues. My children's loud talking and romping would make me so nervous I could just tear everything to pieces and I would ache all over and feel so sick that I would not want anyone to talk

to me at times. Lydia E. Pinkham's Vegetable Compound and Liver Pills restored me to health and I want to thank you for the good they have done me. I have had quite a bit of trouble and worry but it does not affect my youthful looks. My friends say 'Why do you look so young and well?' I owe it all to the Lydia E. Pinkham remedies." -Mrs. ROBT. STOPIEL, Moore Avenue, Washington Park, Illinois.

We wish every woman who suffers from female troubles, nervousness, backache or the blues could see the letters written by women made well by Lydia E. Pinkham's Vegetable Compound.

If you have any symptom about which you would like to know write to the Lydia E. Pinkham Medicine Co., Lynn, Mass., for helpful advice given free of charge.

Many a girl deludes herself with the belief that she has completed her education before she marries.

FOR BABY RASHES

Cuticura Soap Is Best Because So Soothing and Cooling. Trial Free.

If baby is troubled with rashes, eczomas, itchings, chafings or hot, irritated skin follow Cuticura Soap bath with light application of Cuticura Ointment to the affected part. Nothing so soothing, cooling and refreshing when

Free sample each by mail with Book. Address postcard, Cuticura, Dept. L,

Activities of Women.

Over 6,000 women marched in the Boston preparedness parade. Queen Wilhelmina of Holland is the only woman who is a reigning sov-

There are beaween 3,000,000 and 4,-000,000 woman voters in the United States.

To wed a man she never saw, Viola Kleckner recently left Sanbury, Pa., on where she will become the wife of

extending out at opposite sides toward | cut up and fed to chicks. Cabbage, | It cost the suffragists of the country over \$60,000 to get a suffrage plank in the Republican and Progressive party platforms.

Empress Augusta Victoria of Germany visits the hospitals every week to Bermuda grass by plowing the to console the wounded soldlers of her country.

Token of Esteem.

Moriarty-Th' boys want to buy a lovin' cup for Assemblyman Flannigan. Jeweler-Here is something very choice for \$10.

Moriarty-I don't think Flannigan would go as high as that-but we'll ask him !- Harrisburg Patriot.

Human Nature.

"Why that hospital is so popular beats me. It hasn't the best system, and it certainly hasn't the most successful doctors."

"But it has the prettiest nurses."

Adds a Healthful Zest to any Meal

Most everyone likes a hot table drink, but it must have a snappy taste and at the same time be healthful. Probably no beverage answers every requirement so completely as does

POSTUM

This famous pure fooddrink, made of roasted wheat and a bit of wholesome molasses, affords a rich Javalike flavor, yet contains no harmful element.

The original Postum Cereal must be boiled; Instant Postum is made in the cup "quick as a wink," by adding hot water, and stirring.

Both forms of Postum have a delightful aroma and flavor. are healthful, and good for children and grown-ups.

"There's a Reason"

Sold by Grocers everywhere.

