

Scientific Farming

KILL OUT CANADIAN THISTLE

Weeds Are Difficult to Eradicate, as They Have Underground Stems—Mow and Plow.

Canadian thistle and sow thistle are hard to kill, as they have underground stems from which new plants are sent up. A piece of this stem if cut off and given the right conditions will form a new plant. The first step in the eradication is to mow the plants, then plow them under and disk the land as often as new shoots appear. Keeping the top from growing will in time kill the roots and underground stems. Growing a crop of corn in hills and cultivating thoroughly both ways and hand-hoeing the hills is another way of eradication. Getting rid of the patches of Canada thistle and sow thistle now will save a lot of work a little later.



Canada Thistle.

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MOST EFFECTIVE ROAD TOOL

Drag Can Be Used in Maintaining Public Highways—They Are Easily and Cheaply Made.

The most effective tool which can be used in the maintenance of earth roads is the road drag. The first drags were made more than 50 years ago, but it is only during the last few years that they have come into general use. They are easily and cheaply made, easily operated and accomplish wonders if properly used. Every mile of earth road in the state of Texas should be maintained with a drag, and if the time and money wasted under the present system of "working the roads" (this does not mean that all time and money so spent are wasted) were used in dragging the roads, our states would have some of the best earth roads in America.

GROW LARGE CROPS OF OATS

Farmer Should Provide Feed for Horses, Sheep, Cows and Other Stock—Plan is Outlined.

The farmer who raises horses and sheep, feeds dairy cows and fattens beef cattle, annually should grow large crops of oats. They should get ripe enough to be cut and bound by the binder, so when dried out in the shock the sheaves will not mold when stored in the barn. These things attended to, with some kind of power and a modern straw cutter in the barn, the entire crop, as needed, should be cut up quite fine and fed. Fed in this way, the stock eats up almost all the straw, and the grain entire.

DRESSED WEIGHT OF SWINE

Shown by Experiments That Animals Average 76.44 Per Cent Fasted Live Weight.

A number of experiments have shown that the dressed weight of hogs is on an average of 76.44 per cent fasted live weight.

When hogs are fed corn or other concentrated fat-producing feeds the dressed weight may be 80 per cent of the live weight. On this estimate the blood constitutes 2.5 to 3 per cent of the live weight; the liver, 1.8 to 1.5 per cent; heart, 2 per cent; stomach and contents, 4.5 to 5 per cent; intestines, 6.5 to 8 per cent; kidneys, 3 per cent; spleen, 1 per cent; intestinal fat, 1 to 2 per cent; kidney fat, 4 to 4.5 per cent.

PREPARING NOW FOR SPRING

Winter Is Good Time to Rig Up Several Three and Four-Horse Eveners on Implements.

In view of the probable shortage of farm labor next spring, now is a timely occasion to rig up several three and four-horse eveners to be used on the farm implements. One man with a four-horse team will do almost as much work in preparing the spring seedbed as two men, each using a two-horse team.

PROBLEM WITH BABY BEEVES

To Produce and Carry Calves to Weaning Time Is Governing Factor—Weight Don't Count.

The producing of baby beef has been studied with much care to determine, if possible, what are the factors



Excellent Beef Type.

that govern profit. It seems to be well established that the problem for the farmer is to produce and carry the calves to weaning time as cheaply as possible, as the calves produced cheaply make just as good feeders and bring just as good price per pound as the more expensive ones. The weight at the time of sale seems to have very little effect on the profit, except that they are usually heavier in the summer which is the time when heavier calves are put upon the market. An expense entailed in feeding the calves up for weight in anticipation of sale is a loss, as being sold for feeders, their flesh and fat weight does not count unless obtained without cost.

SWINE MANGE NOT UNCOMMON

Parasite Is Microscopic in Size and Looks Something Like Oat Grain—Hard to Cure.

We hear much about mange in horses and cattle, and scab in sheep, but mange in hogs is not at all uncommon. The parasite that causes mange in hogs is microscopic in size and looks something like an oat grain. It imbeds in the region of the hair follicles, especially around the snout, eyes and forelegs, causing the formation of small pustules. The skin becomes thickened and rough. Where a hog is much affected the carcass should be condemned for food.

This kind of mange is readily transmitted to other hogs and treatment is difficult. Since there are some who believe hog cholera may be transmitted by these and other external parasites, such as lice, it is well to keep a lookout for hog mange.

MANAGEMENT OF BROOD SOWS

Strong Litters Secured if Preparation Is Made Before Breeding—Ration Favored.

To get strong litters of pigs begin before the sow is bred. If aged sows let them be a little thin in flesh; then from two or three weeks before you want to breed them put them on a ration of middlings and tankage, consisting of nine parts middlings to one of tankage, made into a slop. Add ear corn and get them up to all they will eat up clean each feed so they will get to gaining fast.

ALFALFA VALUABLE FOR HOGS

Especially True This Year More Than Ever on Account of the High Price of Alfalfa.

Alfalfa hay is especially valuable for hogs, and that is true more than ever this year, with the price of tankage so high.

Every farmer should be sure that all of the waste leaves around the feeding places of the cattle and horses are saved carefully for the hogs or the chickens. Then it will pay to feed hay to the hogs directly.

BLANKET COLTS IN STABLES

Young Animal Will Not Do Well in Filthy Stall Where He Is Compelled to Stand.

A colt cannot do well in a wet, filthy stall, where he will be inclined to stand up most of the time rather than to lie down in the filth.

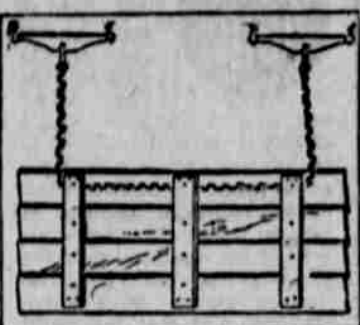
During extreme cold weather it pays to blanket the colt while standing in the stable, unless it is warmer than are the majority of stables.

Neatly printed stationery at the Courier office.

PLANK DRAG COMES IN HANDY

Useful in Leveling Plowed Ground and Breaking Clods—Boards Held Together by Bolts.

This plank drag comes in handy for leveling plowed ground and breaking clods. It is 8 feet long and made of five 1 1/2-inch boards, 8 inches wide, writes Charles Schroeder in Oklahoma Farmer. The boards overlap one another a little just as shown, and they



Handy Plank Drag.

are held together by being bolted, and by nailing on the scantlings as shown in the drawing. A chain is passed around under the front end of the scantlings with the single trees at the other end to hitch on the team.

USE SWEET CLOVER FOR PIGS

Ordinarily an Acre of Crop Will Support Twenty to Thirty Shoats—Other Uses for Weed.

An acre of sweet clover ordinarily will support 20 to 30 shoats. Many other uses for this erstwhile weed are told in Farmers' Bulletin No. 820, published by the United States department of agriculture, Washington.

Stock may refuse to eat sweet clover at first, but if they are kept on the field for a few days they will soon develop a liking for it. It will furnish as much pasture during the season as any other legume, with the possible exception of alfalfa.

Sweet clover also makes a first-class hay if it is cut before it gets too coarse, and it is a remarkable soil-builder. It is one of the best honey plants because of the large amount of nectar it produces. Beekeepers would do well to plant at least a small patch of it solely for honey purposes.

HIGHWAY ON PACIFIC COAST

Dream Is for Paved, Asphalt-Surfaced Road From Alaska South to Panama.

Good road advocates should turn their eyes upon the Pacific coast states, where their hobby is reaching a development nowhere else approximated in the United States. The dream of the Pacific coast is for a macadamized, asphalt-surfaced highway from Alaska south to the Panama canal. The realization of the project so far is the actual voting by the state of California of a bond issue of \$18,000,000,000 and by the public interest aroused in Oregon, Washington and British Columbia, which promises early legislation for the continuation of the California highway.

JOB FOR FIRST STORMY DAY

Reduce Loss of Young Animals by Infectious Diseases by Cleaning Stables Thoroughly.

A good job for the first rainy day. From 6 to 10 per cent of the young animals are lost each year from such infectious diseases as calf scours, hog cholera, blackleg, contagious abortion, navel ill of sucklings, distemper and other infectious diseases.

Reduce this loss of young animals from infectious diseases by cleaning the stable thoroughly and disinfecting with whitewash to which has been added 2 per cent crude carbolic acid or 5 per cent coal-tar dip. This is easily applied to the walls, ceiling and floors with a spray pump.

LAYING CONCRETE IN WINTER

Such Indoor Work as Cellar Floors and Barn Floors May Be Successfully Performed.

Indoor concrete work such as cellar floors and barn floors under cover, may be done successfully in winter, if proper precaution is taken to keep the concrete from freezing. Fence posts and concrete blocks may be made successfully indoors during the winter, but outdoor work in concrete is not advisable after the temperature is below 45 degrees. If you have some outside concrete work to do in cold weather, you must keep the concrete from freezing by heating the ingredients, using warm water and covering so they will not freeze.

PROTEIN SUPPLY FOR FOWLS

When Closely Confined Chickens Will Need Some Kind of Meat—Grain Is Not Enough.

Fowls confined in close pens, yards or runs where they have little chance to get insects will need some kind of meat. Grain will not supply enough protein and mineral matter for best results.

To supply this demand for protein and mineral matter meat meal, meat

scrap or tankage is generally fed. Laying hens especially need some of these forms of feed. Young chickens will thrive better if fed meat in some form occasionally.

MADE-IN-GERMANY LIES CIRCULATED IN CANADA

Canada is also having trouble with Made-in-Germany lies circulated to hinder Canadian food conservation according to an official statement received from the Canadian food controller by the United States food administration.

The stories bothering Canada are of the same general character as those the United States food administrator recently denounced in this country, such as the ridiculous salt and blueing famine fakes and the report that the government would seize housewives' stocks of home canned goods.

The Canadian food controller estimates that when the people listen to and pass on such stories, each one has the power of destruction that lies in a battalion of soldiers.

"Stories without even a vestige of foundation have been scattered broadcast," said the Canadian statement. "Nor have they come to life casually. They have started simultaneously in different parts of the country and in each instance have been calculated to arouse public indignation."

"They are insidious, subtle, persistent. Hit by hit they dissipate public trust, the great essential in the work of food control."

"It lies with every individual to forbear from criticism; to refrain from passing on the vagrant and harmful story, and thus the more effectively to co-operate in work which is going to mean more than the majority of people yet realize."

THE UNITED STATES FOOD ADMINISTRATION SAYS:

There is no royal road to food conservation. We can only accomplish this by the voluntary action of our whole people, each element in proportion to its means. It is a matter of equality of burden; a matter of minute saving and substitution at every point in the 20,000,000 kitchens, on the 20,000,000 dinner tables, and in the 2,000,000 manufacturing, wholesale and retail establishments of the country.

The Word "Cannibalism."

The word "cannibalism" is really the name of a people. It is identical with Carib, many of the Caribs, who formerly flourished in the West Indies, having been consumers of human flesh. The letters "L," "n" and "r" are interchangeable in certain aboriginal American languages, so that Columbus found one West Indian island saying "Caniba" where another said "Carib." While Shakespeare's Caliban is another variety of the name. Columbus' own conjecture was that the name was connected with the great khan, and later philologists of the old slapsdash type associated it with "canis," a dog. Apparently, however, the meaning of "carib" was brave and daring.

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DURHAM & RICHARD, Attorneys-at-law. Office Masonic Temple, Grants Pass, Oregon.

W. T. MILLER, Attorney-at-law County attorney for Josephine County. Office: Schallhorn Bldg.

O. S. BLANCHARD, Attorney-at-law Golden Rule Building. Phone 270. Grants Pass, Oregon.

BLANCHARD & BLANCHARD, Attorneys, Albert block. Phone 236-J. Practice in all courts; land board attorneys.

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