PLAN TO PREVENT LOSS OF RANGE CATTLE



IMPROVED CATTLE ON SOUTHWEST RANCH.

ment of Agriculture.) A matter of pressing importance in view of the present need for increasing the nation's food supply is the solution of the problem of how to produce more and better cattle on Western range lands. It is generally conceded that the carrying capacity of the remaining areas of public land is at least 25 per cent less than it was originally, the result of grazing stock at improper seasons and overstocking. It is also a fact that the productiveness of many privately owned ranges, both fenced and unfenced, has been reduced through faulty management. To work out a system of range management and Improvement practicable for large grazing units, which will build up the depleted areas and insure the maintenance of the whole range in good condition, the United States forest service made a study of the Jornada Range Reserve, a unit comprising some 200,000 acres in southern New Mexico.

Average Loss of Stock.

Jornado Range Reserve, June 1 to De- starvation among both cows and calves cember 31, 1915, was at the rate of 1,9 and stimulating earlier breeding. Inper cent for a year; the average loss dications are that such feeding is a in 1916 was 1.5 per cent. The aver- good business venture from the standage losses for New Mexico are ap- point of increased value of the calves, and insufficient or unsuitable feed have proximately 10.6 per cent for calves aside from decreasing the was from to twelve months of age, 5.6 per cent starvation. for yearlings, and 5.8 per cent for other stock.

merve is attributed to careful, system- tion, especially where little or no supatic vaccination against blackleg, to plemental feeding is done. the reservation of grama-grass .nge for poor stock during the critical justify more attention on the part of spring months, to feeding the animals stockmen to careful, systematic vaca small quantity of cottonseed cake, cination as a preventive of blackleg and to prevention of straying.

In order to provide for extra range in need of special care,

Milk and Dairy Products of Im-

portance During War.

Armies and Navies Will Draw Heavily

on Stocks of Condensed Milk,

Cheese and Butter-Take

Care of Cattle.

(By A. C. BAER, Department of Dairying,

Oklahoma A. and M. College, Still-

Milk and dairy products must con-

tinue to be one of the main sources of

our food supply during the period of

the war. Our armies and navies will

draw heavily on our supply of dairy

handled so that our dairy products will

not become exorbitantly high in price.

against the high price of butter, cheese

and milk. Present prices of these prod-

ucts are high compared with what they

were several years ago, but compared

with the other food products, milk,

pensive as to be beyond the reach of

Milk at 12 cents per quart is still as

cheap food compared with meat, fruit

and vegetables. Butter at 50 cents is

still better and cheaper from the stand-

point of food value than most substi-

tutes for butter (other fats) at 35

to conduct their business at a profit,

and people should not be alarmed at a

small increase in the price of milk

when other food products are compara-

ORCHARD FOR FRUIT SUPPLY

One Acre of Carefully Selected Varie-

tles Will Be Found Sufficient-

Plan in Winter.

(Ciemson College Bulletin.)

fully selected fruits and varieties is

usually sufficient to furnish a gen-

erous supply of fruit throughout the

season, and a canning surplus for win-

By planting in fall and winter more

A home orchard of one acre of care-

The producers of mllk must be able

the ordinary consumer.

cents or 40 cents.

tively high in price.

Consumers are already in arms

cheese and butter.

best foods.

(Prepared by the United States Depart- | for the breeding stock in poor years. one-third of the stock on a range unit should be steers. It is then possible to reduce the number of stock, when necessary, by selling steer without great sacrifice and without interfering with the breeding stock. In good years the number of steers can be increased and in had years decreased.

Provide Against Loss.

To provide against loss in extremely bad years, some kind of roughage to supplement the range forage, for feeding with cottonseed cake or other concentrated feed, would be a decided advantage on southwestern ranges. Ensilage made from soap weed (Yucca elata) has been tried, and the results promising, but not extensive enough to warrant definite conclusions.

Feeding cottonseed cake to calves weaned during the late fall, winter, and early spring is an important factor in cutting down loss and increasing the size of the stock, as well as in increasing the calf crop. Where this is done, young calves can be taken from The average loss of stock on the poor cows, thus reducing loss from

Range feed not more than two and one-half miles from water is a big fac-The small loss at the Jornada re- tor in cutting down loss from starva- pay a fair return for first-class feed

> The possibilities of decreasing loss URGE CLEAN DAIRY UTENSILS and to picking out and feeding stock

FOOD SUPPLY SOURCES FEEDING ANIMALS IN WINTER

During Cold Weather Heat-Producing be seen by the naked eye in order to Feed Is Required-Hay Silage and Fodder Are Good.

Feeders should not forget that animals during cold weather require considerable heat-producing feed, such as grain. Hay silage and fodder give bulk and are valuable in the ration. They cannot take the place of grain.

Corn is one of the best grains for heat and fat production. For horses, mules, hogs, cows and sheep corn is very important. However, cows giving milk should not be fed too much corn as they need feed high in proteln for milk production. But corn is good for dairy cows when fed in sufficient amounts to balance the ration with feeds rich in protein and with hay and sliage.

products, especially condensed milk, Hogs are especially fond of corn. The dairy cow must also continue to Fattening hogs will consume an enorfurnish the people at home with milk. mous amount and will make very rapid cream and butter, our cheapest and gains when also given other concentrates with more protein than corn Dairy cattle must be conserved, well cared for and economically fed and

The grain sorghums are not quite as high in protein and fat as corn, but they are good feeds nevertheless. Animals soon learn to like these sorghum grains and will do as well on them as corn, provided the ration is balanced.

FEEDING ANIMALS IN WINTER cheese and butter are not yet so ex-

Kind of Work Being Performed Has Much to Do With Ration-Feeder Should Watch Closely.

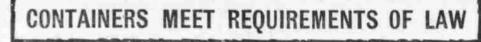
Just as people may require more heat-producing foods such as meat in winter than in summer so may animals need more grain than in summer. But the kind of work the animal does, or whether it is on heavy work or no work, has much to do with the feed of work stock. Cows giving milk require more protein and carbohydrates than cows that are dry.

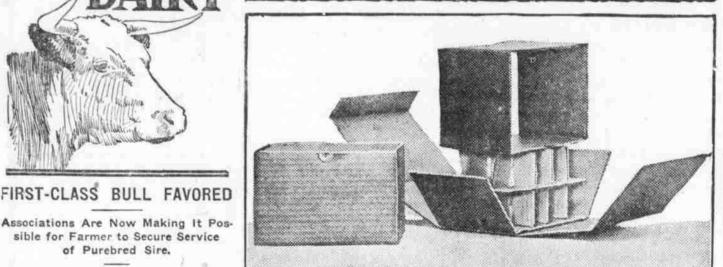
A good feeder should watch his animals very closely and feed what the animals, will clean up and no more, He should know the relative values of feeds and then learn the requirements of his animals. He can soon learn to raise feeds economically.

MULES ALWAYS FIND DEMAND

Ready Sale for Animals in All Cotton-Growing States-No Improvement in Production.

You need not be afraid to raise time is had for the thorough preparamules of most any size. There is a tion of the soil, time is saved, trees demand for them, There will alwill become well established before the ways be a demand for this kind of growing season and the conserved stock. Who can recollect the time moisture lessens the percentage of dead | when there was not a ready sale over the cotton-growing states for mules? e to be very There has not been much improve-





CORRUGATED BOXES FOR SHIPPING EGGS.

(Prepared by the United States Department of Agriculture.)

Experience has shown that frequently parcels are mailed in containers not prepared and protected. These are a cause of complaint. While the containers often can be secured more eas-

ing to offices in the first and second zones when packed in crates, boxes, sufficiently strong and inadequately buckets, or other containers having tight bottoms to prevent the escape of anything from the packages and so constructed as properly to protect the ily by the consumer, the producer contents. Such packages to be marked should make it a point to secure. ggs-This side up," and to be transted outside of mail bags.

Ideal Container Is Simple.

Eggs in parcels weighing more than

20 pounds shall be accepted for mail-

he ideal container must be simple onstruction, efficient in service, and ap. Simplicity of construction is ential, so that it may be assembled packed or filled readily and rap-. Any part which is to be opened uld be so marked or notched as to icate the part to pull up or out. It st be efficient in service to insure isfaction to the shipper and to the elver, and also to prevent damage other mail matter by possible breakand leakage. It must be in expenor it will defeat the object to be ained, which is a reduction of the t of handling between producer and sumer. rials of many different styles and

kes of containers or cartons for pping eggs by parcel post were de. Quite a number proved satistory in extended trials. A few of m are illustrated in these pages for purpose of showing in a general their appearance and construc-Any container which meets the Eggs shall be accepted for mailing postal requirements and which serves

The experiment stations in the variious states have information as to conable material and packed in a strong tainers for parcel post shipments of eggs in consumer-size lots, and persons gated pasteboard, metal, wood, or oth- desiring information of this kind er suitable material and wrapped so should not address the United States that nothing can escape from the pack- department of agriculture, but should between August, 1914, and June, 1917,

ber his to aga oth made many a well-bred and carefully live should be well bred and well fed. It the

regardless of distance when each egg | the purpose properly can be used. is wrapped separately and surrounded with excelsior, cotton, or other suitcontainer made of double-faced corruare produced because of dirty utensils. It is not necessary that the dirt age. All such parcels shall be labeled address the director of the experiment while in Hungary, the only other bel-

At this season of the year attention

should be given to cleanliness. All

rubbish such as old nest materials

should be burned or carefully fumi-

gated and thrown in the manure heap.

clean, sanitary materials. Those who

to hens are badly mistaken. Hens

At this season of the year the great-

est care should be taken to clean up

off where it is hard to find.

to have a chance.

The nest should be renewed with

Hay, Straw, Excelsior, Leaves, Etc., Should Be Changed Often to Prevent Disease.

to time.

be changed occasionally as foul ma-Standard Grade Can Be Obtained at Drug Stores for 75 Cents per Galgerms of diseases. Insects are also Ion-Dilute With Water likely to harbor in the old nests if the materials are not changed from time

In the spring, when they are plentiful, eggs may be preserved for home use in a solution of water glass, so that those laid during the fall and winter season may be available for marketing. A standard grade of water glass can be obtained at drug stores do not think it makes much difference for 75 cents per gallon, if bought in moderately large quantities. Each are not likely to stay in foul unsaniquart of water glass should be diluted tary nests and often "steal their nest" with ten quarts of water which has been boiled and cooled. Only strictly fresh, newly laid, clean eggs should be piaced in the solution. The eggs may be packed in stone jars or crocks eases. If care is taken now little danwhich have been washed thoroughly ger will be met. But precautions not. If you want to test the matter, in scalding water and the water-glass solution poured over them, or the eggs may be placed daily in the solution by putting them down in it carefully by hand so as to avoid breaking or crackthan about 60 degrees Fahrenheit, and ing them. The solution at all times see how your cows will go after it. should cover the eggs to a depth of at least two inches. The solution will not injure the hands. The jars should be put in a cool and preferably dark place before the eggs are deposited in them, and should not be moved, because breakage and loss may result. The water-glass solution may become cloudy, but this is a natural condition

Maine Station Recommends Mixture of Cornmeal, Middlings, Gluten Meal and Beef Scrap.

For Coughs PERUNA An Efficient Remedy

Compounded of vegetable drugs in a perfectly appointed laboratory by skilled chemists, after the prescription of a successful physician of wide experience, and approved by the experience of tens of thousands in the last forty-five years.

Peruna's Success

rests strictly on its merit as a truly scientific treatment for all diseases of catarrhal symptoms. It has come to be the recognized standby of the American home because it has deserved to be, and it stands today as firm as the eternal hills in the confidence of an enormous number.

What Helped Them May Help You Get our free booklet, "Health and How to Have It," of your druggist, or write direct to us.

The Peruna Company Columbus, Ohio

Distemper Can Be Controlled by using DR. DAVID ROBERTS' FEVER PASTE Price and WHITE LINIMENT Price Read the Practical Home Veterin-rian Send for free booklet on ABORTION IN COWS. If no dealer in your town, Br. David Roberts' Yet. Co., 100 Grand Avenue, Waukesha, Wis.



DROPSY TREATMENT. Gives quick relief.
Boon removes swelling and short
breath. Never heard of its equal for dropsy.
Try it. Trial treatment sent FREE. by mail. Write to DR. THOMAS E. GREEN Bank Bidg., Box 20, CHATSWORTH, GA.

200,000 War Marriages.

Sir Bernard Mallet, registrar general, addressing the Royal Statistical society recently, said that in England and Wales 200,000 people had married ligerent country for which complete figures were available, the figure was 600,000. By the end of June, 1918, the United Kingdom would have lost by the fall in births over 500,000 potential lives, 10,000 per million of the population. For some unexplained reason England was remarkable for the low excess of male over female births, not The nest materials, such as hay, only as compared with continental straw, excelsior, leaves, etc., should countries but also with the other parts of the United Kingdom. A decline in terial is a good breeding place for the number of suicides was an interesting minor feature of the war period.

PROVEN SWAMP-ROOT AIDS WEAK KIDNEYS

The symptoms of kidney and bladder troubles are often very distressing and leave the system in a run-down condition. The kidneys seem to suffer most, as almost every victim complains of lame back and urinary troubles which should not be neglected, as these danger signals often lead to more dangerous kidney troubles.

Dr. Kilmer's Swamp-Root which, so many people say, soon heals and strengthens the kidneys, is a splendid kidney, liver and bladder medicine, and, being an herbal compound, has a gentle healing effect on the kidneys, which is almost immediately noticed in most cases by those who use it.

should be taken now if the fowls are A trial will convince anyone who may be in need of it. Better get a bottle from your nearest drug store, and start treat-

ment at once. However, if you wish first to test this great preparation send ten cents to Dr. Kilmer & Co., Binghamton, N. Y., for a sample bottle. When writing be sure and

mention this paper .- Adv. Easy Money.

Secretary Lansing at a luncheon talked about the German corruption

funds "Germany gave over 10,000,000 marks to Bolo," he said. "She gave over 5,000,000 to Lenoir. She handed to Count Bernstorff for his various prop-

aganda at least 100,000,000. "This proves to us that there are lots of easy marks in Germany."-Detroit Free Press.

Soothe Itching Scalps. On retiring gently rub spots of dandruff and itching with Cuticura Ointment. Next morning shampoo with Cuticura Soap and hot water. For free samples address, "Cuticura, Dept. X. Boston." At druggists and by mail. Soap 25, Ointment 25 and 50 .- Adv.

Fools are not the only ones who get a quick divorce from their money during the holidays.

A torpid liver prevents proper food assim-flation. Tone up your liver with Wright's Indian Vegetable Pills. They act gently, Adv.

Many a man's thirst has separated him from his last quarter.

When Your Eyes Need Care

and spray against insects and dis-

Clean Straw Should Be Provided for Winter Use-Renew at Least Twice Monthly.

ABUNDANT SUPPLY OF LITTER

An abundant supply of deep litter, preferably clean straw, should be provided for winter use, renewing the covering of all floors at least twice a month. This is the hen's punching bag or gymnastic equipment to insure winter health and vigor. Fortunately straw is cheap this year, and it should be used freely, as it is a great comfort to the hens in more ways than one. Be sure there is something in it worth digging for at least half or twothirds of each day. The active hen easily turns her feed into eggs, while the overfed, inactive hen is unprofitable as well as her scantily fed sister.

FOWLS FOR BREEDING FLOCK

Hen That Molts Late Is the One That Has Been Busy in Filling Egg Basket-Keep Her.

The hen that molts late in the season is the one that has been busy filling the egg basket. She is the one that ought to be kept in the breeding flock and from which eggs for hatching should be selected next spring. The hen that molts early in the fall or the late summer is the slacker and the one that should go to market. This reverses the policy that many have been

separator should be taken apart and carefully washed and scalded after each separation. After the separator mended as Best Plan. parts and utensils have been cleaned and dried, they should have a clean, dry appearance and should not be greasy to the touch.

A greasy coating on the interior of a milk can will spoil milk or cream in a very few hours. It doesn't cost any more to keep the utensils clean and the results obtained are more satisfactory

sible for Farmer to Secure Service

of Purebred Sire.

The owner of a large herd of grade

cows can well afford to own a first-

class bull, and bull associations are

now making it possible for the owner

of a small herd to own a share in a

good, well-bred bull. A co-operative

bull association is a farmers' organi-

zation the chief purpose of which is

the joint ownership, use, and exchange

of high-class, purebred bulls. If skill-

fully managed, these associations

should be eventually the greatest sin-

gle factor in the upbuilding of our

To build up a valuable and profitable

management must be combined with

selection and breeding. Ill treatment

Animal of High Class.

selected herd unprofitable. All cows

never pays to keep a cow that does not

Dirt Is Cause of Production of Much

Poor Milk, Cream and Butter-

Wash Separator.

be present in sufficient quantities to

The unclean separator is another

common source of contamination. The

render the can unfit for use.

Much poor milk, cream and butter

dairy herd, careful and intelligent itie

dairy herds.

and care.

WATER GIVEN MILKING COWS

Test Proves That Animals Drink at Pond or Creek Only Enough to Satisfy Cravings.

It stands to reason that in winter the water given milking cows should not be icy. Many farmers boast of the fact that they own creeks or ponds to which their cows have access in cold weather. And while this saves work and expense, it is hard on the cows, though the farmers claim it is let your cows go to the pond or creek and drink through the ice. Then, when you have returned to the stable, carry in water that is not lower This proves that they drink at the pond or creek only enough to satisfy their immediate cravings and not enough to fill their bags with milk.

MAKE DAIRY BUSINESS PAY

Raise All Heifer Calves From Good Cows and Keep Purebred Sires-Have Good Silos.

and given plenty of water to get best producer and customer. results.

LIGHT FOR WINTER MONTHS

Darkness Has Deteriorating Effect on General Health of Herd and Affects Eyesight.

The dark dairy stall is more likely to be in evidence during the winter months than in the summer, as some farmers seem to mink the barn must

EGGS FOR HOME USE GIVE CLEAN NEST MATERIAL

Water-Glass Solution Is Recom-

Bolled and Cooled.

(Prepared Specially by the United States Agriculture.)

and should cause no alarm. Eggs thus kept are good for all purposes, but the shells brenk rather eas-To make the dairy business pay the fly in boiling. This trouble can be best, raise all the helfer calves from prevented by puncturing the end of the good cows and keep purebred sires, is shell with a pin or needle just before the advice of Wear Brothers of Illi- boiling. Perhaps an occasional cusnois who speak from experience. Have tomer will be willing to buy eggs pregood silos and put all corn raised in served in water glass, but they should the silo. Have plenty of alfalfa and be sold for just what they are and at clover hay. Cows must be well housed a price mutually agreed upon by the

The Maine station fed the following mash to laying hens with good results:

shorts, cottonseed meal and beef scrap.

FEED MASH TO LAYING HENS

Wheat bran two parts by weight, cornment one, middlings one, gluten meal or dried brewers' grain one, linbe closed as tightly as possible. Still, seed meal one, beef scrap one. The ight is not only an essential to com- ration might be reduced to wheat bran,