Farmer, Stockman and Dairyman

Seeding Clover-

slover has been reported the past two ing the colder half of the year, and seasons from many sections and upon gives fuller opportunity for the setsareful examination nearly every tling of the furrow slice. seed bed at planting time.

face compactor or by going over the essary for this object in the spring. ground several times with a disc 3. The labor is more easily spared body. harrow set straight, or after the seed for plowing in the fall than in the is planted good results can be se- spring, and the work is likely, therecured by thorough rolling.

down to the moisture supply as the moting their destruction. out faster than the roots of the clo- pests. er plant penetrate the soil and consequently the young plants make a Changing Seed-

County Fairs-

ducted it is worthy of the support of til they become well acclimated." everyone in the community. When Observation and experiment fur less difficulty than the individual arrival of cold weather. This will not free from objectionable features, such ther show that the degeneration of plant or centralizer. young alike.

of the community, and the management should always be awake to such Supplying Humus to Soilsthe exhibits. When exhibits are prop- able. Raise more forage, keep more ing and sterilizing. study and compare the exhibits.

his reasons for making an award.

Early Fall Plowing-

grain has already been stacked.

time, and while some farmers will channels deep into the earth, thus aid. The cream for churning purposes time, they necessarily attach them- tilth. selves to the latter part of the season. Besides the possibility that this Buttermilk on the Farmthan when plowed in November. It will be grateful to you. gives greater opportunities for saving Answer-There are certain definite terfat is small, the consistency of the and storing moisture, and aerating the rules that are very useful in butter- cream is such that but a small quansoff. It hastens the decay of buried making. I will enumerate them as tity of starter can be added. This them. vegetable matter, and furnishes a follows: good compact seed-bed the following 1. Good butter can be made only control the flavor of the cream, which

and likely to cause trouble, late fall cent fat is the best for buttermaking. plowing is advisable, but under ordi- 3. Keep cream as cold as possible Arrange to Dip This Yearnary circumstances the best crops are until time to churn. Then warm it to In the face of the high cost of feeds grown on early plowed land. Early 65 to 75 degrees Fahrenheit and hold and the ever-increasing necessity of plowing also destroys the weeds. Re- for six or eight hours or until a mild plowing is advisable in late fall if it ac'd taste develops. is necessary to destroy insects.--O. M. | 4. Always use a thermometer to as-Mson. University Farm.

Gains From Fall Plowing-

experts of the Minnesota Experiment winter. as would seem to make it, if not an ing utensils before using. least extremely desirable.

[loses it more fully to the mellowing as the buttermilk after the latter has Failure to secure a good stand of action of air, sunlight and frost dur, been drained off.

case proved to be from two loose a 2. Deep plowing fits the land to re- quarter ounces to each pound of butceive and retain in larger measure ter seed bed should be well the moisture from rain and snow; firmed before planting the seed by putting the surface in readiness for tribute the salt evenly and to give it a the use of a corrugated roller, sur the final disking and harrowing nec-

fore, to be more carefully done,

The small clover plants must have 4. The turning over of the soil exthe soil firm so that they can estab- poses to the winter frost the roots of Esh a rooting system that will reach a large number of weeds, thus pro-

loose and mellow the surface dries destructive to a number of insect

This is frequently demonstrated in tions do not show a necessity for gained by setting the cream separator your fields by the appearance of a changing seed grains to produce good to skim cream of this consistency. better stand of clover at the ends of and satisfactory yields. On the con. The machine is properly operated will the field where the ground is tramped trary, these records show that as a skim a heavy cream just as efficiently by turning, or on wet spots in the new seed becomes adapted to \$ 10. as it will cream with a small percentfield where the ground was more cality and its environments, the yield age of fat. The advantage of heavy compact, or the seeder wheels firmed has increased, with a tendency to cream are mutual to the farmer and improvement in quality. sults have been attained by careful cleaning and grading each The annual county fair will soon More than a thousand varieties of course, is interested in the manufac-causes a loss of wool and damaged be here, and many of our farmers are grains have been tested at the Min- turing end of the dairy industry as fleeces, which are docked in price now in contemplation of attending, nesota Station and it has become a well as the production end, and, there- Dipring should be regularly practised and probably of contributing some ex- matter of common observation that fore, receives what appears to him to at least once a year, and better twice hibit. A good county fair is a desir- "new varieties from distant sources be a more direct result. This condida year. The sheep should be dipped able institution, and when rightly con- seldom gain satisfactory results un tion enables the co-operative cream- in the spring as soon after shearing as

occupy the land for two years or more. large skim-milk content. The plowing must be done some and when their roots decay they leave opment of objectionable odors.

last few days of the season, it should making butter. I have not had any higher testing cream. also be remembered that an acre farm experience until lately, so conplowed in August is usually in a far sequently I find buttermaking rather in the up-to-date creamery and is abbetter condition for crop production difficult. If you can enlighten me I solutely essential when the cream is

from good, clean flavored cream. Where insect pests are numerous! 2. Cream containing about 30 per

certain the right temperature.

quality of butter.

Fall plowing of land which has been | 6. The churning temperature should wears in succession is urged by the the summer and from 58 to 60 in the

10. What buttermilk is left must be

washed out not worked out. 11. Add salt at the rate of three-

12. Work butter just enough to dis-

solid, smooth body. 13. Overworked butter has a sticky

Advantages of Thick Cream-

By V. D. Chappell, Assistant Professor of Dairy Husbandry, O. A. C. Among the many problems which the creameries are now compelled to solve is the difficulty which they exseason advances. If the ground is 5. Finally, there is nothing quite so perience in securing thick cream. After visiting a large number of creameries the writer has found that the average test for cream received is below 25 per cent butterfat.

start for a few weeks and perish. The records of Experiment Sta- There is no possible advantage to be These re- the manufacturer of butter.

year, alive creamery, the rroducer, of rubbing against fences, racks, etc.

as gambling devices and immoral side- varieties-or the so-called "running Thick cream does not sour as quick- lice, but also tends to keep them free shows, it can be made a commendable out"-results from "careless selectly as thin cream, A larger amount of from any skin disease. Even though educational factor in every locality, tion of seed and poor tillage rather skim milk can be retained on the farm and a source of recreation to old and than from natural causes." The Min. for feeding purposes. The bulk is re- sheep should be dipped as a means nesota Station would reserve the duced to a large extent and, therefore, of prevention and it stimulates the It is probably impossible to conduct best field of grain on the farm, or the makes transportation easier. Heavy growth of the wood to some degree. a county fair to the entire satisfac- best piece of that field, for a seed, cream can be cooled easier than thin Small flocks can be disped in vats or tion of everyone, but the aim should plot, and seek by the use of the fan, cream, because of the smaller quan other suitable utensils on the farm, be to make it square in its manage- ning mill and grader, to increase the tity obtained from a given amount of but in the case of large flocks a regument and clean in its attractions, yield and make the variety already milk. Advantages to the creamery are lation galvanized iron or cement tank The fair should foster the resources grown more valuable to the locality, important. Heavy cream reduces the will be found much more satisfactory. inducements as will stimulate a great-, there are three general methods of ized with a smaller loss of butterfat back to the small owner who realizes er interest in these resources and supplying humus to the soil. The first in churning. Heavy cream allows the the necessity of dipping at least once prove attractive to exhibitors. An and best is the addition of stable man- addition of a large quantity of starter, a year, but does not see his way clear able and pleasant secretary, with a are. When properly managed it adds therefore, enabling the buttermaker to to go to that expense for a flock of good corps of assistants, can do a large quantities of both plant food and control flavor to better advantage. from ten to twenty-five. great deal toward the success of the humus. But manure is not always The containers in which the cream is fair, but polite attention to the exhib- available. When such is the case, the delivered are reduced in size and numftors and care in the arrangement of best thing to do is to make it avail- ber, which reduces the labor in wash-

erly classified, and well arranged, it tock, and make more manure. But These advantages are all of great facilitates the work of judging, avoids his takes time and capital, so that importance in making the dairy de into battle south of the Scarpe, as most of the causes of complaint on other means are sometimes necessary, partment of the farm profitable. They well as to the north. Many formathe part of exhibitors, and helps to When stable manure is not to be had, are also of great value in every kind tions have been finished off almost as please those who attend the fair to plant crops for the purpose of turning of creamery, the large and small alike, soon as they appeared. The ground hem under, thus adding large quanti- in the new dairy sections where there is covered with large numbers of Ger-All exhibitors should bear in mind ties of humus at comparatively little is not a sufficient amount of the raw man dead. Just south of the Scarpe that it is their duty to display the cost. Plowing under green crops is products to warrant the establish one place was carpeted with bodies best they have, and to take a pride called green manuring. Under certain ment of a creamery or cheese factory, in field gray. in showing the exhibit in the best conditions this is an excellent practite cream must necessarily be sent to There also was very heavy fighting the larger plants. If this is done, the in the Croisilles region before and al lifestor takes defeat with good grace, A third method of adding humus is long distance which the cream must ter that town was stormed and capand never question the decision of o grow crops like clover and timothy, be carried allows it to deteriorate tured. Fierce fighting has been rethe awarding judge, except to learn These crops are usually allowed to very rapidly, especially if it has a ported from Croisilles ridge and the

ly penetrate the soil. Old roots decay of milk, work upon the milk sugar country. As soon as the binders have ceased and new ones grow. When the sod is changing it to lactic acid. The greater The capture of Croisilles eliminates to hum, the plow should be brought blowed up, more or less vegetable amount of skim-milk there is with the a spot which had been holding up the out and put into shape for work. Be matter is turned under. This, with cream the more liability for its sour- British advance on this part of the fore the stacking of the grain is over, the mass of roots in the soil, adds no ing. While there is no particular battle front. Stiff resistance had been there will probably be several occa- small amount to the supply of humus. damage done from the souring of offered during the counter attacks and sions when a half-day or more can be Another advantage from the cultiva- cream in the proper manner, there is used in plowing land from which the tion of clovers and alfalfa is found in a much greater chance for the overfact that they are deep-rooted plants, ripening and consequently the devel-

plead that there is plenty of time in ing in the absorption of rains and let- should not contain less than 35 per which to do it, they do not fully ting in air to sweeten the soil, cent butterfat. After the cream is rerealize that if those days that might Perennial grasses like timothy are par- ceived at the creamery, it should be in be worked in during the grain stack-ticularly valuable as the numerous such condition that it can be handled ing, etc., are not attended to at that fine roots leave the soil in very fine to best advantage and churned exhaustively. A cream that is thin is more difficult to pasteurize, and after being subjected to the heating proneglect may crowd the work in the To the Editor: My trouble is about cess does not churn out as well as

Starter plays a most important part R. R. pasteur'zed. If the percentage of butcondition makes it very difficult to plays such an important part in the manufacture of high-grade butter.

greater production, it becomes more blowing great craters in the roads tory of our sheep industry that all check the advance. One 30-foot cra-5. Overripe cream makes a poor ternal parasites be eliminated as far Arras and Cambrai, just outside of why dipping is neglected when one of prisoners captured said the had occupied by wheat or other small be such that the churning will require stops to think that it is next to im- it all arranged among themselves to grains, and of all land which has been about 30 minutes and at the same time possible for sheep to make progress well "Kamerad" as soon as the Canaused for pasture more than three have firm granules-from 52 to 66 in when covered with ticks and lice, dians launched their attack. which annoy them continually. It is Near Vis-En-Artois this morning impossible to estimate the loss of feed when an attack was launched, a host Station on such a variety of grounds 7. Clean, scald and cool all churn and the depreciation in flesh when a of Germans suddenly got up out of the flock is infested. One may be cer- ground and run like so many rabbits. absolute necessity to success in the 8. Stop churning when the granu- tain, however, that a great portion of leaving only a few machine gunners with. operations of the following year, at les are about the size of small peas. , the feed consumed by the sheep is behind them. It is impossible as yet 9. Wash these granules with pure taken up by these parasites.

1. The breaking up of the soil ex water of about the same temperature A flock free from ticks and lice is ing prisoners.

Lane County Fair

Eugene, Ore., Sept. 18-19-20-21.

Help make this Fair a big success. Good premiums will be given on all kinds of Livestock, Farm products, Fruits, Vegetables, Grains, Grasses, etc.

SPECIAL PREMIUMS

on individual and collective Grange display, and Boys and Girls Industrial work. Call on R. H. Wood, Sec., at U. S. National Bank for premium list. Bring your exhibits and win a premium.

In the case of the farmers' co-oper- production of wool. The continual ery to secure a heavier cream with weather permits; in the fall before the only free the flock from ticks and

quantity of raw product to be weighed | The initial cost of a convenient dipand handled, and it can be pasteur- ping outfit would be the greatest draw-

BRITISH SMASH GERMAN LINES (Continued from page one)

All sorts of troops have been hurled

beaten Germans are said to be fleeing During this time their roots thorough. The germs which cause the souring from Bellecourt and the surrounding

the British swung around on the the north and following the general farthest star from us. This is a big direction of the old Hinderburg line, question. For one thing, it implies and the town became too hot for the

Sanguinary losses have been inflictplaced back of Croisilles have hit the end if we proceed far enough; but this miles away. particularly in the neighborhood of universes, and as a matter of fact we the damage each did. The enemy ardecourt, offered a fine target and shells were sent raining into the fleeing columns, cutting great gaps in

Dead Huns Cover Ground. Vis-En-Artols, which was captured

yesterday by the Canadians, was the scene of more hard fighting. The town is completely levelled and many dead Germans are mixed up in the pfles of debris.

The enemy has even resorted to

to obtain any accurate figures regard-



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takes all the drudgery out of cooking. Lights at the touch of a match and heats in a jiffy. Bakes, broils, roasts, toasts,-all the year round.

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Distance of Farthest Star Is Impos sible of Calculation.

(Samuel Barton, University of Pennsylvania.)

We are often asked which is the that there is a farther star. Is there of astronomers is that the aggregate retreating Germans at many places, does not mean that there are not other where every shot fired fell and noting determined the distance of each of the stars, of which there are found to be distances of but a few stars, say 200. have been determined, and many of these values are unreliable. The distances are too great for measurement.

The great star cluster in the constellation of Hercules, is a mass of stars, perhaps 100,000 of them, compactly concentrated in a small area of the sky, although no doubt the stars themselves are far apart. We have been able to determine an approxiimperative than ever before in the his south of the Somme in his effort to mate distance of the stars of this cluster from us. We cannot say that handicaps such as the feeding of ex- ter was blown in the road between it is the farthest object which we can We do not think it is. We do as possible. It is hard to understand Vis-En-Artois. North of here a group think that it is much farther than nearly all of the stars not found in such clurters. But this is the greatest distance that I know which has

been determined on a scientific basis recognized as valid. The distance is found to be of the order of 100,000 light years. Its distance is thus at most too small a unit to measure it A light year is the distance light

travels in a year, traveling 186 000 m'les each second for the 31,558,149

MYSTERIES OF UNIVERSE seconds of the year. Is is about 5,800,000,000,000 mfles. It is 63,000 times the distance of the sun. If the distance of the sun is represented by an inch, the light year should be represented by a mile. A watch which ticks five times each second would require 36,000 years to tick as many times as there are miles in a light year. If the scale of the universe were so reduced that the sun, 93,000,-000 miles away, was only a foot away, a farthest star? The current opinion an object a light year away would be ed on the Germans in all the fighting of stars which we call our universe is ter, if its distance is correctly deter-12 miles away, and the Hercules Clusin this general region. British guns not limitless, and that it comes to an mined, would be more than 1.000,009

It is found that some spider threads are so light that enough of such Hendecourt. The gunners have had believe there are. To say which star thread to pass around the earth (25,the unusual experience of seeing is farthest would mean that we had one miles) would weigh but seven pounds. Enough to reach a light year would weigh 790,000 tons. This would tillery, retiring from the rear of Hen. 55 million as bright as the 17th mag. be a burden for 552 trains of 50 cars nitude, with the certainty that there each, carrying 25 tons. If the earth are a much larger number of still were a great windlass winding up fainter ones. As a matter of fact, the the thread, 25,000 miles per day, it would require 10 years to wind up the sun's distance and 630,000 years to wind up a light year.

NOTICE FOR PUBLICATION. Department of the Interior.

U. S. LAND OFFICE Roseburg, Oregon, July 22, 1918. Notice is hereby given that Arthur F. DeSautel, of Oakridge, Oregon, who, on July 15, 1915, made Homestead Entry, Serial No. 010042, for SE¼ Lot 2, S¼ NE¼ Lot 2, E¼ SW¼ Lot 2, SE¼ NW¼ Lot 2, Section 4. Township 21 S, Range 3 E, Willamette Meridian, has filed notice of intention to make Final Three-year Proof, to establish claim to the land above described, before E. O. Immel, U. S. Commissioner, at his office, at Eugene, Oregon, on the 3rd day of September, 1918. Claimant names as witnesses: C. E. McClane, of Oakridge, Oregon; Walter Hammor, of Oakridge, Oregon; Charles

Durning, of Oakridge, Oregon; John McClane, of Gakridge, Oregon. W H GANON, Register WANTED

Your Sweet Cream EUGENE FARMERS CREAMERY.