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FARM STUDY AT NICKERSON

THE FARM problems of Reno county are being studied in a practicable, sensible way in the high school at Nickerson. There were 358 students in this school last year, of which 109 students were in agriculture, 92 in domestic science, and 31 in special work. Much attention is being given to livestock farming; the picture shows a class judging purebred Shropshire sheep on the farm of Dr. F. B. Cornell near Nickerson. A farm of 40 acres is used in growing crops, and tests are being run with alfalfa, sorghums, wheat, corn and other field crops. Soil fertility problems are being studied, and the results are indicating the importance of good crop rotations and legumes. This work is in charge of L. C. Christie, who is doing much to show the technique needed in teaching agriculture in the secondary high schools in Kansas.

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For Large Corn Yields

Better Methods of Conserving Moisture are Needed on the Fields in Kansas

19 JAN 17

By C. P. HARTLEY

RN YIELDS in Kansas can be increased greatly by better management. This was well shown by the variation in the returns from the n fields in the same neighborhood 6. A careful study is needed of the ials of corn production; these are , heat, soil fertility, and seed. No f these can be said to be more imnt than another. Where all are ant except one—as water, for ex— this one becomes the "limiting ," and methods of supplying it be the important means of increase yield.

emi-arid regions the soils for the part are fertile, and the limiting is either water or heat. Raising ay be likened to raising steam in ine. Too much water lowers the rature, whereas too little water is ous. Growth can take place only here is a proper balance between nd water. The two must be in il at the same time. Water falling w or rain before heat is present d be stored in the soil. The boiler d be filled before the fire is started.

rything corn gets from the soil is uid form. The crop cannot grow the soil contains moisture to . Plants, even weeds, cannot take every bit of the moisture from the o matter how much they may need has been estimated that if it were le to control the soil moisture so none might escape except thru the , a rainfall of 10 inches would be ient to produce a 50-bushel yield of The soil moisture supply cannot, urse, be so completely controlled field conditions. Where corn growis attempted under dry-land condithe annual rainfall is more than ches, and the point of most importis to get as much of it as possible the soil. Moisture losses from runvaporation and seepage are always iderable, and under some conditions ed the amount used by the crop. available soil moisture can be ined by assisting snow and rain to r the soil and by preventing the e of moisture except thru the growcrop.

s lack of moist re, more than anyg else, limits corn yields in dry ons, the first question regulating operation should be, "What will be effect on the soil moisture supply?"

ummer fallow, or the practice of clean ivation without cropping during an re summer, in order to make two rs' moisture supply available for one , frequently results in the producn of larger yields of corn, but the ctice has not usually proved practice. The cost of summer tillage usually greater than the gain derived from the reased yield. It is seldom possible by s method to store enough moisture in e soil to supply the crop adequately if ins do not occur while the corn is owing. The losses from seepage and aporation are considerable, and the ung corn plants cannot be prevented m exhausting the moisture supply bere the ear-forming period, when they ed the greatest quantity.

As soon as the preceding crop will perit, it is advisable to begin some prepation of the land that will prevent the s of moisture and put the surface in ndition to take in moisture. Cultivaon after the removal of the preceding crop is profitable if it stops or prevents a growth of weeds. But if the growing season is past, dead weeds may catch more snow than would be caught by a cultivated surface.

Fall disking, or listing, usually is beneficial in putting the land in better condition to prevent the soil from blowing, to hold the snow, and to prevent run-off. The penetration of moisture is slow, and when rains occur evaporation is rapid from hard soil surfaces, such as usually follow the growing of small grain. The chances of storing moisture are increased by loosening such compact surfaces as early as possible. Whether plowing is necessary, however, depends very much upon the type of soil. Most heavy clay soils are best put in proper condition by plowing. Sandy or light loam soils should not be plowed in the fall and left bare during the winter where soil blowing is likely to occur. If, however, it becomes advisable to plow such soils in the fall, blowing of the plowed area may be checked by top-

Careful Cultivation is Required in Growing Corn. It is Necessary that the Soil Conditions Should be Especially Favorable for This Crop.

dressing with barnyard manure. Deep plowing should always be done in the fall or early in the spring, to allow more moisture to penetrate and the soil to settle before planting time.

Corn will not grow during as cold weather as wheat or oats. Corn-planting time is therefore a little later than the best time for sowing oats. However, when seed of perfect vitality is used it is remarkable how early in the spring corn can be planted and result in good stands and yields. Seed of perfect vitality often will remain in cold or dry soils for several weeks and then germinate and yield well. Irregular stands are sometimes attributed to poor seed, when dry, poorly prepared spots are the cause. Fields are sometimes seen in which the seed germinated promptly in moist spots but did not germinate in dry spots until rains came.

Listing, or planting in furrows, is the most common and best method of planting corn in a large part of the semi-arid area. It is not only economical, as it permits large acreages to be handled at the least cost, but it also places the plants to the best advantage to withstand drouth. As the furrows are closed by cultivation, the plant roots are placed well below the surface. A deep soil mulch can be maintained without injury to the roots. The plants are more securely braced to withstand winds than when s rface planted.

Where the seasons are short, surface planting is better than listing, as the retarding of early growth leaves the plants insufficient time to reach maturity. Where surface planting is practiced on fairly level land it usually is advisable to plant in c ecks to permit cross cultivation. Cross cultivation makes weed and grass control easier. It also assists cultivation, drying and warming a larger part of the soil surface.

A thin stand is an essential feature of successful corn growing with a limited moisture supply. When planting is done with a lister in rows 3 to 3½ feet apart, the plants should be one in a place and from 18 to 36 inches apart, depending on the rainfall and the fertility and water-holding capacity of the soil. In surface-planted corn with the hills 3½ feet apart each way, the stand should not be thicker than two plants a hill.

In dry regions corn cultivation is more essential and requires more good judgment than in most other sections. The primary object of cultivation is to prevent loss of moisture. Moisture losses are caused by run-off, evaporation, and, most of all, weed growth. The one most important object of corn cultivation is the keeping out of weeds. In this it is true that prevention is better than cure. Cultivation should not be delayed until the weeds are large enough to cause the field to look weedy. It takes but little stirring of the soil to kill weeds immediately after they germinate and before they have used much soil moisture, but to destroy weeds that are well rooted the soil must be worked deeply and thoroly. This requires much labor and cannot be accomplished without breaking and destroying many corn roots. In many sections, or in seasons when the seed germinates slowly, it is advisable to harrow once or twice or to cultivate after planting before the corn comes up.

Limited moisture makes thin stands necessary, and it is poor management to allow grass and weeds to rob the corn of this moisture. If cornland has been prepared properly deep cultivation is not advisable and often injures the crop. Deep cultivation should never be close to the plants after they are a foot tall, as much harm would be done by breaking the corn roots.

Aside from destroying weeds, timely cultivation is beneficial in preventing the loss of moisture by evaporation and also in hastening the warming of the soil. The loss of soil moisture by evaporation continues much longer from a compact, damp surface than from a loose, dry surface, and the evaporation tends to keep the soil cold. The conservation of heat is frequently as important as the conservation of moisture. Luckily, both heat and moisture may be conserved by good, timely cultivation. Heat is wasted in evaporating. Making the surface loose and dry saves both soil heat and moisture.

Cultivating after heavy rain is a good practice. To be most effective the cultivating should be done as soon as the surface is dry enough to work well. If the soil is allowed to dry until it breaks up cloddy, much moisture will be lost, a good mulch cannot be obtained, and harm is more likely to be done to the corn roots. As long as rapid evaporation is taking place, the surface will remain cold and the growth of the corn will be slow. To cover large areas quickly, cultivators which work two or more rows are a great advantage.

Nothing else would so cheaply turn many corn failures into successes as good seed corn. While a knowledge of corn breeding would be helpful, any farmer can do much toward supplying himself and his neighborhood with better seed corn by starting with a well-tested variety and selecting the best ears from the best stalks every year. By so doing, natural selection assists in weeding out the unfit. Where corn is grown for grain, there is no better locality from which to obtain seed than that in which it is to be planted.

Farm Congress to Peoria

The International Farm congress and the International Soil-Products exposition will be held next fall at Peoria, Ill. The dates will be between September 15 and October 15; the congress sessions will occupy three days and the exposition two weeks. The show was held at El Paso in 1916 and at Denver in 1915. Kansas has taken first in the last two years for the best display of farm crops against heavy competition. The display was prepared in both cases by Bruce Wilson, of the agronomy department of the Kansas State Agricultural college.

It is believed that there are many advantages in taking the show to Peoria. This city is in a rich agricultural district, which will make a good showing. Excellent support has been promised by the business men of Peoria. It is also believed that all the eastern states will take more interest in the show this year than ever. There should be a big delegation of farmers there from Kansas, and as usual the state expects to take first on the crops exhibit.

DEPARTMENT EDITORS
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Farm Doings.....Harley Hatch
Poultry.....G. D. McClaskey

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Passing Comment--By T. A. McNeal

Practical Disarmament

"It is said that after this war is over we are to have universal peace," writes F. F. Root of Medicine Lodge, "but stil we are to keep our big, standing armies and navies." Well, if the nations of the earth continue building huge navies and maintaining great standing armies, there is no hope of permanent peace. The proposed League to Enforce Peace can be a success only if the leading nations of the world agree to disarm all except the small force necessary to be contributed by each as an international police force.

So far as the navy is concerned, the seas must be free to all the commerce of the world and there must be no armed ships except such as may be necessary for patrol duty to prevent smugglers, and suppress piracy.

An Interesting Test

A number of Fort Scott men have announced their intention of organizing a corporation to build a paved road for freight and passenger traffic. I am not certain just how far they expect to extend the road but I think the eventual terminus will be Kansas City, if the road seems likely to be a success. This road will be constructed as a private enterprise and operated for profit; that is tolls will be charged for vehicles.

I will watch the progress of this enterprise with interest because if the road is properly constructed and managed in an economical and efficient manner it will, perhaps, demonstrate something that I should very much like to see demonstrated, and that is whether it is possible to transport freight and passengers over a well-paved, well-graded road at less cost than freight and passengers can be transported by rail.

I am satisfied that if the road is properly constructed and the vehicles used to haul freight and passengers are also properly constructed, it will show that freight can be hauled over it at about one-half the present freight rate charged by the railroads and I think at a substantial reduction of passenger fares. The first essentials to this result will be the construction and grading of the road.

The grade must be made so that there will be no steep hills to climb anywhere. It will stand a heavier grade than the railroad, but at no place should the grade be more than 4 or 5 per cent. The road bed should be constructed so that it will bear traffic as heavy as is likely ever to be carried on it.

Next, high-powered trucks that will haul heavy loads must be constructed. While at present not many motor trucks are built to haul more than 10 tons, there is, of course, no reason why trucks should not be built that will haul 100 tons or more over the right kind of road.

As the bird flies it is not much more than 80 miles from Kansas City to Fort Scott, but as the road cannot be constructed on an air line and as, perhaps, it would be advisable to deviate more or less to accommodate the local traffic, let us assume that the total length of the road is 100 miles and that the cost of construction is 1½ million dollars. It will be necessary, then, to earn, we will say, sufficient to pay corporation taxes, upkeep and expenses of administration. I think that a quarter of a million would be ample to cover all these items. If $100,000 or 2-5 of the total was assessed against passenger traffic and 3-5 against freight traffic, it would require an average of 50,000 passengers over the line annually paying at the rate of $2 apiece for the entire trip. This would be at the rate of 138 passengers daily on the average. Now, I take it that frequently that many persons will travel on this road if constructed but of course comparatively few of them will travel the entire distance, and a large proportion of them will travel in their own machines or other conveyances. I have not a doubt, however, that a schedule of rates proportioned to the basic rate of $2 for transporting passengers in a hired vehicle from Fort Scott to Kansas City will yield a revenue of considerably more than $100,000 a year. This would leave $150,000 a year to be collected from freight traffic. The average cost of transporting freight on railroads is about ¾ of 1 cent for a ton mile. This, however, takes in the entire United States. I am satisfied that a toll charge based on tonnage equal to ¼ of this average freight charge will be more than ample to yield the required revenue.

As I have said, I am greatly interested in seeing this experiment tried. I believe the state or general government will not try the experiment of building roads with the idea of using them for freight for any considerable distance until after a demonstration of the practicability of the plan has been made by private capital. That finally the railroad systems of the country with their high-salaried officials, with their labor unions, with their watered stock and over indebtedness, with all of the political evils which necessarily attend them, will be supplanted by a system of paved roads over which the freight and passengers of the country will be transported at very much less cost than they are transported at present, I believe.

The Poor Booze-Vender

The most astonishing development of recent years is the opposition to the saloon, and booze in general. There was a time, not very long ago, when the saloon-keeper, the brewer, also the distiller and wholesale liquor dealer cut a wide swath. They controlled the politics of at least two-thirds of the states of the Union, and even in the states where they did not absolutely control they wielded a vast influence. It is known to every man who was familiar with the politics even of Kansas, that not very many years ago the brewers of Kansas City and St. Louis were regularly called upon for funds to help along in the campaigns, and as a result they expected and received protection from the officials. In a number of cities and towns in the state saloons ran as openly as they did in the states where saloons were permitted by law. The person who advocated prohibition was regarded as a pestiferous crank and an enemy of business prosperity.

That has all changed. Now the booze seller seems to have no friends anywhere. State after state swings into line for prohibition, and Congress, by a large majority, votes to make Washington dry. A few years ago there probably was as much liquor consumed per capita there as in any other city in the world, and for their especial convenience the Senators and Congressmen were permitted to maintain well-fitted-up saloons in the capitol building.

It looks now as if nearly everybody is looking for a chance to administer a kick to the saloon-keeper. At the present rate the United States will be dry from Maine to California and from the lakes to the gulf within five years.

Futile Investigations

Congress is chewing the rag over the question as to whether there should be an investigation of the leak that informed Wall street speculators that a peace note was to be sent out from the White House, by reason of which information some speculators reaped vast fortunes while multitudes of others were ruined. That there was a leak is clear enough. Somehow the prior information did get out. Just who supplied the information has not been disclosed and probably will not be disclosed. Congressional investigations seem to be about the most futile proceedings imaginable. Invariably one side or the other is accused of starting the investigation for political advantage, and as a result a fair, unbiased investigation becomes impossible.

In times past innumerable Congressional investigations have been held, vast volumes of testimony have been taken and printed which practically nobody has read but which cost a great deal of money. The present investigation will follow the same road. Even if the responsibility for giving out this advance information from the White House really should be fixed, there is so far as I know, no penalty for giving out such information.

No Peace in Sight

If the allies mean what they say in their reply to President Wilson's note asking them what their objects are in carrying on the war, then there is no hope of peace for many months to come. It is scarcely reasonable to suppose that Germany will consent to these terms, certainly not while she is occupying the territory of her enemies and they, aside from her captured colonies are occupying practically none of her's. Neither is it reasonable to suppose that permanent peace can be obtained by crushing Germany by military power, even assuming that the allies finally will be able to do that. Militarism, crushed by militarism, simply means the continuance of militarism. So far as the world in general is concerned the militarism of Russia and Great Britain would be as much of a menace to permanent peace as the militarism of Germany, for after all militarism, wherever it is found, is founded on the same principle, which is that might makes right.

This is a time when, if the leaders of the allies are in earnest about their professions of altruism and unselfishness, they should drop their pride and dismiss their plans for acquisition of territory. If they were only willing to say now to the world, "We want only one thing, a guaranty of future peace and justice," and to that end make only one definite demand, that Germany and all the other powers of Europe agree to disarmament on both sea and land, and then submit all other questions affecting the settlement of questions growing out of the war, questions of territorial boundaries, indemnities, to an arbitration court composed of representatives of all the neutral nations of any standing in the world, I should have much greater hope for permanent peace. I do not believe that a permanent peace can ever be achieved by military conquest.

Back to the Farm

The state board of agriculture held its meeting last week in Topeka. This board is made up for the most part of very intelligent men and women who without a doubt want to make the conditions of farm life more attractive and the business of farming a greater success than it now is. There were a number of very thoughtful addresses and thru them ran the back-to-the-farm idea. There is of course nothing new about this. The fact is that it is thousands of years old. It was heard in Rome when it was noted that the people from the country were flocking to the cities and the farms were being neglected. But the talk of the Roman statesmen; the poetic utterances of Virgil and Horace describing the delights of rural life; the legislation that was attempted to encourage agriculture, did not stop the steady drift from the country toward the cities. Far-seeing statesmen of that day saw the inevitable result. They warned the people that the decline of agriculture meant the decline of Rome, but that warning made little impression on the minds of the people.

It has been customary for orators to declare that corruption and the concentration of wealth caused the downfall of Rome; to an extent that was true, but primarily the decline of agriculture caused the concentration of wealth, the congestion of population in the cities, more especially Rome itself, and the final downfall of that mighty empire.

We might just as well look facts in the face. It avails little to make speeches or write essays showing the evils of the great cities and the comparative peace and purity of country life. You may tell the country boy of the chances of failure that await him in the city. You may describe eloquently the poverty and misery of the city slums, but the bright lights possess an attraction for him just the same and when he gets the opportunity he heads for the city.

This is not entirely the result of the natural attraction of the city. It is due partly to the lack of opportunity on the farm. As the price of desirable farm lands increases the difficulty of getting a farm of his own looms up greater and greater before the young man. If he considers the experiences of renters there is nothing attractive in the prospect of becoming a tenant farmer, and so the city offers the only alternative.

I am not prepared to say how many farm tenants ever rise above that condition and become farm owners, but I fear that the number is not very large. Neither is it true that in all cases tenantry results in a deterioration of the fertility of the land, but as a rule that is the result and naturally so.

Now, we will all agree, I think, on at least one fundamental proposition: that our national prosperity and eventually the very life and perpetuity of our republic rests on the prosperity of our agriculture. We will also agree that the fertility of our lands is decreasing and that tenantry which tends to a decrease of fertility and a decline of agricultural prosperity is constantly increasing.

What is the remedy? It avails nothing to rail at the people who are leaving the farms to go to the towns and cities. Incidentally it may be men-

tioned that a good deal of this back-to-the-farm talk comes from men and women who themselves live in cities or towns and the question is pertinent: if they think the country life is so fine, why the Sam Hill don't they go there, themselves?

The desire for the social contact found in the cities and towns is natural. We are gregarious animals. We like to be where there is life, animation, and the attractions that are found only where there is a large and compact population. On the other hand nearly every individual enjoys the country. We love to see green trees and growing crops. Most of us like to plant something and watch it germinate and grow. For the majority of people there is a wonderful attraction about the country; but we don't want to be there all the time. Furthermore, we don't like drudgery that brings little profit with it and that is the experience of the majority of those who try to make a living on the farm.

We do a good deal of boasting about the prosperous Kansas farmer, but when we consider that the Kansas farmers in the aggregate owe 180 million dollars in farm mortgages to say nothing of chattel mortgages, it does not seem that they have been so very prosperous after all. There are at least three objects to be attained, one is to stop the deterioration of farm lands that is constantly going on; another is to establish a system that will make farming more profitable and the third is to gratify the natural desire of human beings for society, the pleasure of association with their fellow-beings, and all that that implies.

My own opinion is that these objects can be obtained by a system of scientific municipal farming, a large area of land tilled by people living in well-kept, modern, up to date cities of moderate size. The land to be cultivated in the most economical and scientific manner, made accessible by a system of excellent roads and motor vehicles, where the manufacturing of such products as require manufacturing, and the marketing abroad of such products as must be marketed in their raw state; the purchasing of machinery and all other necessary supplies will be carried on in a co-operative way under skilled scientific management.

This I believe to be the eventual solution of the back-to-the-farm problem.

A New Constitution

The legislature is to consider the question of calling a constitutional convention. There are several things I should be glad to see changed in the present constitution, but I am not at all certain that the things I want in the constitution would go there if a constitutional convention were called.

I should like, for example, to see the constitution changed so that there would be a single legislative body of not more than 30 members, and that body limited in its power to approve of legislative measures to not more than 20 at one session, not counting necessary emergency measures, the general measures to be submitted to the people for ratification or rejection at a special election to be called for that purpose, and arrangements made for the consideration of each proposed measure in every schoolhouse in the state before the same was submitted to a vote.

I should like to see the terms of state officers changed from two to four years, and they made ineligible for re-election.

I should like to see the government simplified, bearing in mind, however, that power must not be taken from the people, but that their power should be enlarged rather than curtailed.

I should be glad to see our tax laws changed so that a more equitable system of taxation might take the place of what we have at present.

I should be glad to see power given the state to engage in works of internal improvement; in short I would permit the people thru the instrumentalities of government to do whatever the majority wishes to do. I should be glad to see our judicial system so changed that the number of judges might be reduced one-half.

Now, these are about all the constitutional changes it seems to me desirable to make. The question is, will these things be brought about by a new constitution? Possibly so, but if those who are asking for a constitutional convention go out whooping it up for a constitution that will grant the state an unlimited right to issue bonds bearing interest, I think I can guess what the people will do to that sort of a constitution if it is submitted to them. In slangful phrase they won't do a thing to it. Governor Capper, in what I consider in many respects the ablest message ever delivered to a legislature in this state, suggests a plan which I believe is better than trying to make an entirely new constitution. He suggests that an amendment be submitted permitting the submission of as many amendments as the legislature may wish instead of only three as the constitution at present provides. That would give the opportunity to make any changes that might be considered desirable.

I believe that such an amendment would carry. Then, of course, the desired amendments would be submitted at the next legislature or at least might be submitted. Here is another suggestion I wish to make. A good many proposed amendments to the constitution have been voted down because the people did not understand them, and some perhaps have been adopted for the same reason.

Usually, after an amendment is submitted by the legislature no further attention is paid to it until the next election. As a result when the voters come to the polls they find themselves called on to decide a matter which they are unfamiliar with, and either vote no or do not vote at all. This is not true of all of them, of course, but is true of a great many. When one or more amendments to the constitution are submitted arrangements should be made for the public discussion of those proposed amendments in all the schoolhouses of the state and that discussion and study should be carried on at a time when there is no political campaign on hand which engrosses the attention of the voters.

I have a great deal of faith in the justice and wisdom of the majority of the people of Kansas when once they understand the question they are called on to decide, but naturally no man's judgment on a question about which he has little or no information is of any particular value.

A Senator's Farewell

I have been somewhat interested in the swan song of Senator Works of California who, the other day, delivered a valedictory address of several hours' length preparatory to leaving the senate. Works's term will expire at midnight, March 3, and as he goes out he announces a lot of reforms he deems necessary. He complains, as a starter, that the President of the United States is coercing the members of the Senate, and the House of Representatives, and declares that unless this presidential bulldozing is stopped democracy will cease to exist, and we shall have become a political despotism.

And what is the club that the President wields which makes the members of the Senate and House his cringing slaves?

Patronage.

But is it possible that the majority of the Senate and House is made up of men who, for the sake of a few political appointments would sacrifice their manhood and independence? If so it is time the people understand the situation and retire them from public life. However, what the people are chiefly interested in is not whether the President wielded the big stick of patronage to compel members of the Senate and House to get in line for the support of measures he advocates, but whether the measures the President wants are right. If they are right and Congress refuses to support them then the people want their President to use any legitimate power he may have to bring the members of Congress to time. And Mr. Wilson is wise enough to understand that he cannot afford to force thru an unpopular measure.

It is true that a measure may be popular and yet not wise. That is because the people do not understand the effect of the measure. I have a great deal of confidence in the judgment and integrity of the people when they once understand a measure. When their judgment is wrong it is because of lack of accurate information.

But Senator Works goes further. He favors a lot of things that would be considered radical and even revolutionary. He believes that this thing of a part of the people living in idle luxury off the toil of other people who never are able to enjoy either leisure or luxury is wrong and ought to be stopped. He would force the idle rich to go to work. True, he does not, so far as I see, outline any plan by which they can be compelled to get down to honest toil, but he thinks they ought to be made to work. He also announces himself as favorable to the organization of a new political party, to be known as the Liberty party.

Here is a thought that occurs to me as I read this valedictory of Senator Works. He is just now closing up a six-year term in the United States Senate. So far as I know during these six years he has never proposed any of the radical measures he now declares to be necessary. Perhaps he never thought of them. Many a man has formed a number of good resolutions when he sees death heading his way.

Actions and Prayers

It was a cold, winter day. A fierce wind carried with it sharp sleet which stung as it struck the exposed body or face of man or beast. The chill of it went right to the marrow of the bones. Hitched to the rack outside the door of the church stood and shivered the horse of Deacon Williams. The Deacon was an exceedingly pious man. He attended church services regardless of the weather, and complacently figured that by so doing he was laying up abundant treasures where the moth would not corrupt nor thieves break in and steal.

The deacon's long suit was prayer. When he got going good you could almost hear the rafters crack. The swallows stopped twittering to listen. The deacon undoubtedly was gifted in prayer. His petitions took a wide range. They were not exactly petitions, either. There was nothing of the poor publican about Deacon Williams. He did not stand with sorrow-laden and repentant countenance, and, smiting his breast in despair, cry out in agony, "Have mercy on me, a poor sinner." On the contrary his prayers were made up largely of advice to the Almighty concerning the manner in which He ought to conduct the universe. He prayed that the Gospel might be carried to heathen lands, and that the benighted children of darkness be brought to see the light. He prayed that the unregenerate who were not present to hear the mellifluous notes of his petition might be snatched as brands from the burning before it was everlastingly too late, and brought under the influence of those whose salvation was assured, meaning evidently that chief among these fortunate persons, approved entirely by the Lord, was Deacon Williams.

And, as the deacon prayed and the rest of the congregation listened with closed eyes and bowed heads, the unblanketed horse shivered in the fierce winter blast and coughed dismally as the cold settled on its lungs. That night the eyes of the faithful horse were bright with fever and its body shook with the fateful chill. But Deacon Williams slept the peaceful slumber of the man who is certain of his superior righteousness.

And when he went to the stable in the morning the horse was dead. The deacon sighed, for that horse was worth at least $150. He thought it strange that the Lord should permit such a loss to occur to his faithful servant who was so punctual in attendance at the sanctuary. But Bill Simpson, the worldly-minded sinner who had seen the horse standing unblanketed in the storm, remarked when he heard the deacon's horse was dead, that in his opinion the man who was kind to his dumb brutes and to his family had a blamed sight better standing with the Lord, if he never made a prayer in his life, than had the man who would permit a horse to stand unblanketed in the winter storm, even if he prayed till he loosened the rafters and shook the windows in their frames.

Grain Buyers

"Do you know," asked a well known man who has traveled all over the state and is thoroly familiar with the situation in the farming districts, "that one of the worst evils the grain raisers are afflicted with is the irresponsible grain buyer?"

I asked what he had in mind. He said that it is a common thing for these irresponsible grain buyers to go thru the country and contract with farmers to buy their grain at a certain price, to be delivered at a certain time. By way of illustration, one of these buyers comes to Farmer Brown and contracts to buy his wheat at $1 a bushel to be delivered September 1. When the date of delivery arrives possibly wheat is off 10 cents. The buyer comes to Farmer Brown and tells him he cannot receive the wheat because the millers refuse to take it off his hands. Farmer Brown naturally insists that a bargain is a bargain and that it is not his fault that wheat is worth only 90 cents a bushel, and that the buyer should live up to his agreement. He then discovers that the buyer is financially irresponsible and that a judgment against him would be of no value. He therefore pockets his loss, so to speak, and sells his wheat 10 cents below the price originally agreed upon or holds it in hope of getting a better price.

But suppose the market goes the other way and when September 1 comes the market price of wheat is $1.95 instead of $1. Does the buyer permit the farmer to go back on his contract? Nay, nay, Pauline. He does not, for he knows that Farmer Brown is financially responsible and can be compelled to live up to his contract. So whether the price of wheat goes up or goes down the farmer gets it where Caleb hit the hen. An effort will be made to stop this graft. Grain buyers probably will be required by law to give bond or put up a margin large enough to insure the farmer that the contract will be redeemed.

Money or Credit?

Writing from Miller, Neb., F. J. Quail makes a few pertinent remarks about the question of money and credit. He says in part:

Now that the government Farm Loan Banks are located no doubt a great many loans will be made to farmers who will borrow the money without thinking just how it is to be repaid. Will these farm mortgages be made payable in money or can they be paid with credit, as practically all other business obligations are now paid?

I have a letter from William McAdoo, Secretary of the United States Treasury in which he informs me that this government has not coined any silver dollars in 12 years, nor issued any legal tender paper and that practically all the gold has been made into bullion during the last 12 years, but that this gold bullion has been counted as money. The government has coined some pennies and fractional coins, 50, 25, 10 and 5-cent pieces. It seems to be the policy of those having control to issue no more money, but simply to ask the people "What are you going to do about it?"

True the national banks can get all the currency they may want at about 3 per cent, altho they are not taking out much. Now this certainly is not money, but is simply a substitute for money, and as all debts are payable in money what will the people of this nation do when there is no money with which to pay their debts? There is now in different parts of the nation a scarcity of 25- and 50-cent pieces and people are holding the new 10-cent pieces as souvenirs. I see that the superintendent of the mint is asking authority to issue 2½ cent pieces. Can the farmers use these 2½ cent pieces to pay their mortgages? No doubt we shall soon hear of this great nation's issuing ½ pennies or "ha' penny." Then the farmers can go to the grocery and buy a "hapeth" worth of tea or 5-pence worth of sugar.

There is no doubt that we are getting more and more away from the idea of using actual money. The business of the country is done, 95 per cent of it, on credit and the tendency is continually to extend the use of credit. There will come a time when we shall abandon the idea of primary money entirely and establish a complete system of exchange of credits. When we do that we shall have eliminated the most fruitful cause of financial panics. At present we are operating on a false basis. We are pretending to do what every intelligent man knows it would be impossible to do, and that is to redeem our obligations according to the terms of the contract. To promise to do that which you know it is impossible to perform is not honest.

Power at a Lower Cost

Horse Breeding and Management Must be Based on Developing a Greater Utility Value

PROGRESS is being made in breeding horses in Kansas. There is a greater appreciation of the need for breeding animals with a good utility value than ever. Better stallions are available than was the rule a few years ago. The high costs of feed and grain have shown that it pays to keep animals that can do good work.

Farm work needs to be planned carefully in Kansas. If one wishes to make a good profit from farming, his business must provide a full year's work for his men and teams. With the high prices of feed and labor it costs almost as much to keep a team as it does to keep a man. An idle horse is a heavy drain on the yearly farm profit. One of the problems of the keen-sighted farmer, then, is to so plan and manage his work as to get the most value out of the horses he keeps and to make them as efficient and economical as possible.

The brood mare is a profitable farm worker for she is a successful dual-purpose animal. She can do a large share of a full season's work and still raise practically as good a colt as tho she had been running idle all year. One must remember not to haul excessive loads with brood mares before foaling, or do hard backing in soft ground, and that all rough treatment should be avoided. After a new life has become dependent on her milk, as a writer said recently in the Ohio Farmer, the mare needs regularity in her management and feeding. When the heat is excessive, she should be given only moderate work. With a good teamster and constant thoughtfulness brood mares can be brought successfully thru a season of hard work, and a double income thus obtained.

At no time have good horses been selling at such a premium or poor ones at such cheap prices as at present. Everything points toward a substantial reward for the man who keeps a few brood mares of high individual excellence, mates them to a choice stallion, and then properly grows and develops the resulting offspring.

Whether mare or gelding, it is the healthy, well-fed horse that has the most endurance and is able to withstand hard work. Consequently, efficient management necessitates wise and liberal feeding but not extravagance. A horse improperly nourished can exert only a fraction of its possible force thruout the season. It needs reserve energy to carry it thru the repeated emergencies of hard work at seeding time and harvest. This reserve strength cannot be maintained when muscles hardened by work are allowed to be partly used up to form energy upon which to perform their labor. A thin horse loses money thru its lack of power and its waning vitality. Merely because feed is costly is no excuse for light feeding; nor should a horse be stuffed spasmodically. Regular watchful feeding on good hay and an allowance of sound grain near to the limit of the appetite when at heavy work, but reduced to one-half on Sundays and at other idle times, supplies a horse with suitable material for doing a full day's work.

After hot weather comes horses working in the field with long coats of hair endure unnecessary distress, and hours spent in resting hot horses is that much money lost to the owner. A horse must have the dirt and sweat brushed from its hair and hide every day that it works, and if this is done twice daily so much the better. Something about grooming instills vigor into a horse. The removal of dirt and the stimulation of the skin go far toward preventing harness sores. Regular currying and a well-balanced ration of a laxative nature insure the proper shedding of the old coat and the early appearance of a smooth, short, glossy, new one.

With modern machinery the individual horse is usually but one of three or four in a team. It is just as true that a team is no stronger than its weakest mate as it is that it can haul no more of a load than it can handle on the steepest grade. If no power is to be lost every horse must match its mates in strength. By adjusting the hitch the stronger horse can be made to take a part of the load from the weaker one, and be given more than a numerical share of the work of the team. If the horses cannot be matched evenly in flesh, efficiency demands that the evener be adjusted according to the strength of the horses, and that they be thus matched in the machine. This should not be allowed to obscure the advantage of evenly matched horses in regard to the work performed as well as to appearance. Weak horses are an expensive source of power. The plug horse is of small account except as a source of expense.

Good Horses are Necessary on Kansas Farms if the Best Results are to be Obtained from the Power Department.

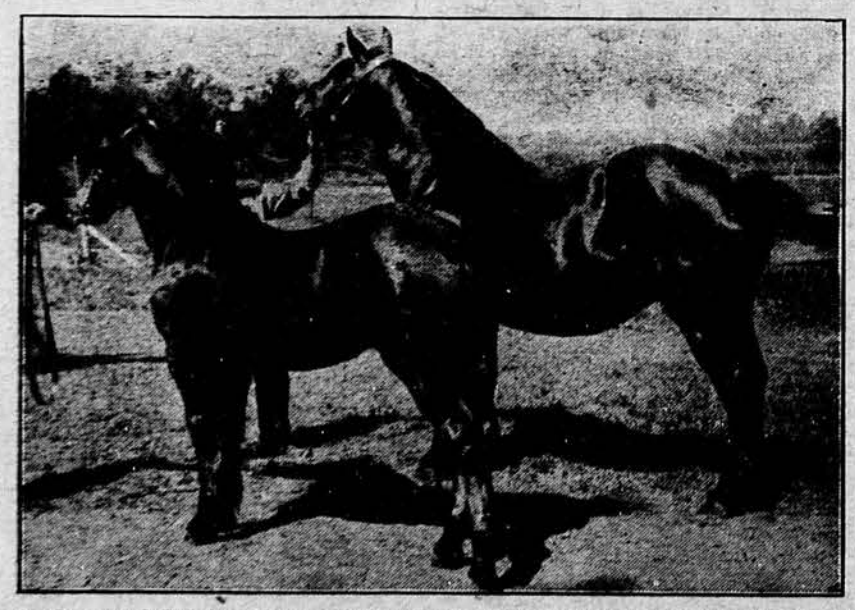
The cost of horse labor to produce a given amount of a crop is, on large farms, just a little more than half that for small farms, yet there is no decrease in crop yields. If a farmer has but two horses he cannot take advantage of the economy that comes from driving three and four-horse teams. It is important to be able to adjust the size of the team to the machinery and work. Diversified crops and stock farming require some unaided man labor. With several horses under one man the other man can work at these odd chores without the horses being idle.

Thoroness with the work and the amount of ground covered by a team in a day are largely in the hands of the driver. In actual work accomplished in a season and the profit arising from it, some employes are worth much more than the average wages paid while others are not worth their keep. The farmer who offers more than ordinary wages as one of the means of getting an efficient man and then treats his help in such a manner as to keep it, has good judgment. Today a man's worth as a farm hand depends more on his wits, his skill, and his speed than it does on strength. It takes some head work to handle even so simple an outfit as a team and cultivator so as to waste no time during the day, and a man without some mechanical ingenuity is largely at the mercy of luck in handling machinery. It is the man with the faculty of keeping both team and implement in working order who does the biggest season's work. Minutes and half hours saved from day to day and week to week tell mightily in the aggregate.

A farm must be planned on a far-seeing basis. A little attention to this will show that the area which a given force can farm when the work is thoroly systematized, is greater than is generally supposed. The United States Department of Agriculture estimates that the average farm work horse is used an average of only about 3½ hours of every available work day, even on fairly well managed farms. From April 1 to November 30, two days out of every three will be available for field work, and in March one day out of two. This makes allowance for Sundays, for rain, and for all other causes. Good management will attempt to make use of more of this time, thus reducing the number of horses necessary to farm a given area. Following rains there are many jobs apart from crop work that can be done. The year's work is done easier with less anxiety, less rush and less expense if odd jobs are done at odd times a few days, or even a month beforehand instead of a few days behind time as is commonly the case. The most natural thing for the healthy horse is work. Some work is required every day to keep its muscles hard and tense and its appetite keen.

It requires careful planning to supply teams with steady, profitable productive work, even thruout the busy season. With a policy of beginning work before it is urgent there is less temptation to push teams beyond their endurance. Every excessively hard week's work is dearly paid for in loss of flesh and fagging spirits of the teams. Early spring makes the largest demand of all for horse labor. By fall and winter plowing this can be distributed over a longer time. Manure, too, can often be hauled out during the slack season. Wheat harvest always calls for rush work. Here the burden of the horses can be lightened by the use of a gasoline engine on the binder.

The work of the teams is necessarily a prominent feature of present day farming and deserves such study as befits its importance. Their efficiency can be increased by using brood mares; by good feed and care; by the use of evenly matched teams; by a well distributed cropping system of proper area; by having efficient farm help; by able management, and by a carefully outlined plan of work. The expense of tillage and the net income from the farm are largely borne up by the efficient use of work horses. Productive power may be crippled by blundering management or augmented by wise control.



An Imported Belgian Mare and Her Foal. The Colt Weighed 750 Pounds at 4 Months Old and is a Good Example of Quality Breeding.

More Livestock for Kansas City

There was a considerable increase in the livestock received at Kansas City in 1916 as compared with 1915. This well reflects the growing interest in livestock in the Middle West, and especially in Kansas. In the year 131,812 cars were received, as compared with 114,617 in 1915. This included 2,177,468 cattle in 1916, and 1,860,235 in 1915. The number of hogs received in 1916 was 2,978,933, as compared with 2,530,730 in 1915. The average weight of these hogs in 1916 month by month was:

January	204 pounds
February	199 pounds
March	203 pounds
April	204 pounds
May	202 pounds
June	202 pounds
July	204 pounds
August	188 pounds
September	181 pounds
October	171 pounds
November	172 popnds
December	183 pounds

Average weight of hogs for 1916, 193 pounds.

Average weight of hogs for 1915, 200 pounds.

Many records have been established on this market with big receipts. Here are a few of the important records:

Largest Receipts in One Day.

Cattle—October 25, 1915	43,320
Calves—September 15, 1908	5,560
Hogs—June 13, 1911	35,349
Sheep—September 21, 1914	33,344
Horses and mules—November 20, 1916	1,777
Cars—October 25, 1915	1,662

Largest Receipts in One Week.

Cattle—September 6, 1913	95,298
Calves—October 17, 1908	15,761
Hogs—January 11, 1908	132,030
Sheep—September 26, 1914	89,235
Horses and mules—November 27, 1916	4,817
Cars—October 10, 1908	4,701

Largest Receipts in One Month.

Cattle—October, 1916	362,537
Calves—October, 1906	56,165
Hogs—January, 1908	503,514
Sheep—October, 1911	325,986
Horses and mules—October, 1916	17,145
Cars—October, 1911	17,696

Largest Receipts in One Year.

Cattle—1907	2,384,294
Calves—1909	308,982
Hogs—1901	3,716,404
Sheep—1911	2,175,493
Horses and mules—1916	123,141
Cars—1907	145,406
Average number of head of stock received a day for 1916	19,649

Sheep Make Farms Tidy

For several years I have been watching the farms where small flocks of sheep are kept. These farms are more tidy in appearance than the average farms. The woven wire fences which must be used to keep sheep in the fields make it possible to use all the waste of the farm for the support of either hogs, sheep or cattle.

Sheep will eat nearly all kinds of weeds, and the weeds they will not eat are very easily seen after the sheep have grazed among them.

All the men who have kept sheep during the last three years report large profits for the capital invested and the cost of keeping the sheep. Wool and lambs are sold every year—two cash crops. We suggest that all farmers look up sheep raising and learn the value of a small flock. J. E. Payne.

"Sometimes," said Uncle Eben, "a man gits de notion dat he's upliftin' de human race when he's only tryin' to boss it around."—Washington Star.

Roads, the Big Question

Legislature is Buckling Down to Hard Work—What Your Member is Doing

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New Senate Officers.

Charles S. Huffman, Columbus, president pro tem.
Emmett George, Council Grove, secretary.
Col. E. B. Jones, Holton, sergeant-at-arms.
Miss Edith Enderton, Melvern, postmistress.
John R. Madison, Topeka, chaplain.

Officers for 1917 House.

A. M. Keene, Fort Scott, speaker.
Walter A. Layton, Osborne, speaker pro tem.
Clarence W. Miller, Pratt, chief clerk.
A. E. Hawkinson, Bigelow, sergeant-at-arms.
G. W. Shook, Decatur, doorkeeper.
Mrs. L. M. Couchman, Topeka, postmistress.
John A. Bright, Topeka, chaplain.

WITH the ending of the first week of the legislature, bills covering all provisions of the good roads program agreed upon by the joint committee of the Kansas Good Roads association and the 366-Day Road club have been introduced in the form of bills and proposed constitutional amendments.

The list of provisions includes: The proposal to amend the state constitution, permitting the state to co-operate with the Federal government and counties in highway improvement. Introduced in both house and senate.

A special $5,000 appropriation bill for a Shawnee county road, to test the clause in the state constitution forbidding "internal improvement" appropriations. (Already passed by the house.)

Establishing a state highway department to meet the demands of the Federal road aid law. Several bills along this line have been introduced.

Employing county prisoners on public highways.

To Strengthen Hodges Law.

A law to strengthen the Hodges law in encouraging the building of hard roads thru the medium of benefit districts, will add another important bill to the list now before the legislature.

The outlook that the present session will see much constructive good roads legislation, is promising. An active good roads lobby supported by popular subscriptions has been on the job in Topeka since before the opening of the legislature. The hundreds of checks which have been received in answer to letters sent out by the Kansas Good Roads association, are taken by the good roads enthusiasts to be an excellent indication of public sentiment.

Included in the membership of both senate and house are men who consider good road legislation of prime importance for the present session. In general the immediate legislation wanted from the present session includes two general bills. One, an "administration bill," creates a highway commission and provisions for a general system of highways. An important object is to do away with county roads with "dead ends" or roads which do not meet with county supported roads of adjoining counties. There are dozens of these. The codification of all previous road laws would be another important provision.

Differ Over Highway Commission.

There are different ideas over the make-up of the state highways commission which is required before the state can receive Federal aid money. Senator W. F. Schoch of Shawnee has introduced a bill providing for a state highway commissioner at a salary of $3,500. Senator Robert B. Barr of Fort Scott, does not think that any new offices need be created. The state engineer and other men already in the employ of the state can direct the road supervision work, he says.

Good roads boosters consider that a further need is a law to provide for the construction of better-than-dirt roads by petition in benefit districts. Another provision would allow the voters to decide on a general county system of hard surface roads and the cost by general taxation. The law hoped for is one that will make it mandatory with county commissioners to give a certain percentage of aid when petitions from benefit districts with a majority of the property owners, are presented. County commissioners are not forced to do this under the Hodges law. Then the cost of permanent roads can be borne jointly by the property owners, the county and the township. Then with a constitutional amendment or a supreme court decision opening the way for state aid, and Federal aid totaling more than 2 million dollars coming into the state within the next five years, Kansas road enthusiasts think their pioneering for permanent roads in Kansas will be past.

One hundred and sixty-two bills were introduced the first week in both houses compared to a record of 304 in the first week two years ago. This year's record is 65 in the senate and 97 in the house; two years ago an even 150 measures had been introduced in the house and 154 in the senate.

Nine Constitutional Amendments.

Nine proposed constitutional amendments have been introduced in the two branches of the legislature, six in the house and three in the senate. Four of these are to amend the constitution so the state can engage in highway construction, one even proposing to allow the state to engage in industrial enterprises. Two of the other proposed amendments would amend the method of calling a constitutional convention; two would remove the limitation of three constitutional amendments only at each general election, and another would provide for three-fourths jury verdicts in both civil and criminal cases.

Letters on Public Questions

It is the desire of the Farmers Mail and Breeze to print now and thruout the session of the legislature which began January 9, letters from our readers setting forth problems of public interest and their ideas concerning their solving. We wish you to discuss in this department any questions which you have heard brought up in your community meetings, in the farmers' institutes or in church.

No department in the paper can be more valuable to the farmers of Kansas. We want you to help in keeping it up. We do not believe it necessary to offer a premium for these letters. The public service done by the writer should be his own reward. To insure prompt handling every week such letters should be addressed "Legislative Editor, Farmers Mail and Breeze, Topeka, Kan."

Bills and Other Things

Bills began to appear last Thursday in house and senate. Those of special interest to farmers are given here:

THE HOUSE

John C. Carson of Clay introduced house bill 49, providing markers at bridges, culverts and dangerous places on the public highways at the expense of the township, and providing that these must maintain the markers.

A measure to allow property owners to send their children to schools in other districts, the home district to pay the tuition, when the adjoining district school is closer to the home, was introduced by A. E. Mayhew of Atchison. The bill is numbered 36.

Power is given the public utilities commission to order the construction and maintenance of overhead or undergrade crossings, warning signals, or other safety devices, at dangerous railroad crossings, in house bill 23, introduced by Samuel Classen of Wyandotte.

An act to prohibit the wasting of waters for irrigation purposes, by R. E. Bray of Hamilton, was among the first bills introduced in the house.

County commissioners in counties of less than 25,000 population are authorized to issue bonds to fund floating indebtedness in house bill 40, introduced by S. F. Paul of Marshall. A companion measure, house bill 41, extends the same privilege to townships and school districts.

Wilmoth of Cloud, and L. D. Moore of Cowley, have introduced similar measures to do away with the rebate allowed for payment of taxes in full on or before December 20 of each year. Both provide for the retention of the penalties for non-payment of taxes.

Frank O. Stone of Lyon has introduced bill No. 19 providing for a new distribution of the motor vehicle license fees, on the basis of 50 cents to the state and $4.50 to the county, instead of 75 cents to the state and $4.25 to the county.

Stone proposes also a measure providing for arbitration of civil disputes brought before the district courts before they finally are litigated, making it mandatory on the district judge to attempt to arbitrate lawsuits before they go to trial.

E. D. Samson of Gove, and C. S. Heath of Wichita, both introduced bills making it a misdemeanor to start prairie fires, wilfully or thru negligence, or malice. Samson's bill, No. 52, is the more lenient of the two, providing only a $300 fine and three months in jail. Heath, in house bill 58, would send the careless one to jail for six months and fine him $500.

H. A. Classen of Wyandotte introduced a bill, No. 25, giving the public utilities commission power to order in undergrade or overhead crossings where railroad grade crossings are considered dangerous, and power to order warning signals at other grade crossings.

Convicts in the state penitentiary will receive wages at the rate of 75 cents to $1 a day under bill No. 35, introduced yesterday by Nick Johnson of Franklin. The warden is to have power to fix the wages, depending on the work done by the convict. The money is to go to dependent members of the convict's family if there are any such.

The ante on gopher scalps is hiked from 5 cents to 10 cents a scalp in house bill 89, by W. J. Cummings, of Douglas. Cummings also would compel every county to pay the bounty. At present it is optional with the county commissioners whether the bounty is paid or not. The old rate of 5 cents a head for dead crows and 1 cent apiece for crow eggs is included in his measure.

The county unit for school taxation purposes is embodied in house bill 92, introduced by J. S. Keller, of Thomas, one of the two house Socialists. Keller's measure provides that the taxes collected from public service corporations shall be pro-rated among the school districts of the county, according to the value of the property, other than public service corporations, assessed for taxation.

IN THE SENATE

The present legislature has a definite problem to solve in providing a means for 40 counties to catch up in their finances. In the summer of 1915, dozens of streams overflowed and damage to bridges and roads aggregating hundreds of thousands of dollars was done. At the time there was talk of a special legislative session to provide relief. The necessary repair work was done on the regular county budgets with the result that there are many unpaid warrants. A legislative enactment is necessary to legalize the issuing of bonds to take up these warrants. Senator F. G. Bergen of Summerfield is preparing a bill which probably will provide for the issuing of five to 30 year bonds. Senator Bergen's home county, Marshall, was a heavy sufferer in the floods of 1915.

Senator C. S. Huffman introduced the first senate bill, an act regarding levies for county high schools.

Without previous conference, both Senators W. F. Schoch of Topeka, and Baxter McClain of Iola, introduced bills reducing the time limit for the contesting of wills from three years to one. The time limit for the closing of estates is two years, so that under the present statutes, it is possible to contest a will a year after the estate must be closed.

County commissioners will have no choice in granting aids to county and district fair associations, if senate bill No. 36, introduced by Ben F. Paulen of Fredonia becomes a law. The measure provides county commissioners shall appropriate money to pay half the premiums if the sum allowed does not exceed certain limits ranging from $300 to $1,000 depending on the size of the county.

Senator Montee has introduced bills No. 28 and 29 making the place of the sale of liquor the place of violation and declaring the transporting of intoxicating liquors into the state for delivery to others a violation of the prohibitory law.

The protection of the garage proprietor is the purpose of senate bills Nos. 45 and 47 introduced by Senator Kimball. One gives the proprietor the right of a lien on the machine for repair expenses and takes the place of an antiquated measure. The other protects the garage man from fraud, the same as a hotelkeeper.

There is a state law specifying that all fixtures seized on liquor raids should be destroyed. Recently motor cars and other carriers of liquor on the border counties have been seized. Senator J. W. Montee introduced senate bill No. 27 to enable such property to be sold to pay court costs.

A blow at the itinerant country peddler is the aim of a peddler's license bill No. 39, introduced in the senate by Senator A. A. Doerr of Larned. It provides a county license tax of $25 annually unless the peddler is a bona fide resident of the county. The amount is doubled for motor car tradesmen. Exceptions are made for agents selling articles of educational value, representing wholesale houses, to merchants and peddlers selling fresh meats, farm products and nursery stock.

Senator Doerr of Pawnee county has introduced a bill making any rate of interest over 8 per cent, usury. Under the present law the legal rate of interest is 6 per cent but under contract any rate up and including 10 per cent may be charged. The Doerr bill prohibits an interest charge of more than 8 per cent and provides that the violator of its provisions shall forfeit from the principal of his note whatever interest is charged in excess of 8 per cent.

"Say, paw, what's a 'captain of industry'?"

"It is a term that the head of a grinding monopoly applies to himself, my son."

"And what is a 'robber baron'?"

"It's a term the dear public applies to the same man."—Indianapolis Star.

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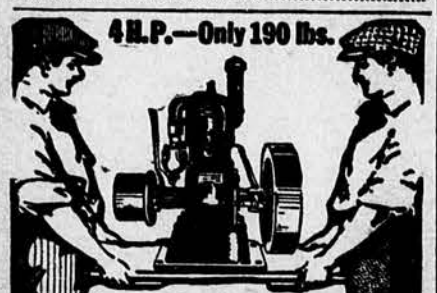

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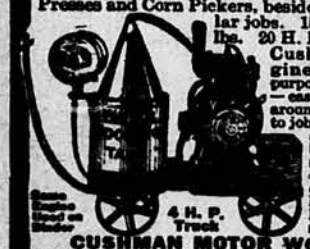

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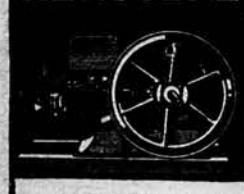

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This House Saves Ice

Make According to Drawings and Directions Given Here

By F. M. White and C. I. Griffith

A SUPPLY of ice will help lower the cost of living. It is of greater economic importance to the farm home than it is to the city home, and not as expensive as might be expected. On some farms the loss of fruits, vegetables and dairy products every year would almost build an ice house.

Once accustomed to the use of ice, it becomes a convenience that seldom is dispensed with. With an ice supply it is possible to keep butter, eggs, meats, vegetables and fruits in a first class condition for the table as well as for market. Considering these advantages, a supply of ice will soon pay for itself. In most northern localities ice is free for the harvesting. The harvest season comes at the time of the year when men and teams have very little to do; therefore, the expense of putting it up is practically nothing. The ice house costs from $75 to $250, depending upon the size and type of structure.

The ice should be taken only from pure water. Lakes and rivers usually supply it. They need practically no attention until the time of harvesting. Where there is no such supply, water from springs or streams may be stored by building a dam and flooding the area from which the ice is to be harvested.

Ice from a contaminated supply is very dangerous. If weeds and water plants grow in the pond they should be removed before the first freeze, since the plants, if allowed to freeze in the ice, will be deposited in the refrigerator the following summer, causing an odorous filth and making a good place for disease germs to develop.

Ice should not be harvested from a pond which contains a green spawn or algae. The water can be rid of it by placing crystals of copper sulfate in a cloth sack hung to a pole and trailed thru the water until the salts are dissolved. One or two treatments during the season at the rate of one pound of copper sulfate to 100,000 gallons of water will be sufficient to make the water safe to use.

The best wood to use in building cold storage rooms will depend on the most available wood. It should be odorless and free from all defects. Wood with a slight odor should be whitewashed to prevent the stored products becoming tainted. The lumber should be thoroly dried to prevent moisture being carried into the insulation and during construction in cold weather a fire should be built to keep the lumber dry.

Nails are good conductors of heat, so the manner of using them is of some importance. Cement coated wire box nails are considered best, as smaller diameters and shorter lengths can be used without sacrificing holding power. Six and eight penny cement coated nails may be substituted for 8 and 10 d. common nails and, due to the smaller size, the heat transmission will be reduced. The coating also prevents rust.

The accompanying design is planned for a farm ice house of the storage type. It has a capacity of approximately 40 tons, which is a sufficient supply for an average dairy farm having a herd of from 30 to 60 cows. The amount of ice used will depend upon the manner in which the milk in handled as well as the length of the storage season.

The foundation and floor are of concrete, placed upon a well compacted subgrade of cinders or gravel. The floor has a slope of ¼-inch to the foot toward the drain. If it is very important to keep down the cost of construction the concrete floor may be omitted and a foot of sawdust substituted. The sills are made of two 2 by 8-inch planks securely bolted to the foundation with ⅝-inch bolts placed every 3½ feet. It is a good plan to creosote the sills, so as to prevent decay. Two layers of ceiling or flooring are placed on both sides of 2 by 8-inch studding forming the walls. The ceiling is made of two layers of matched lumber nailed to both sides of 2 by 6-inch joist. Waterproof paper is placed between the matched lumber in both the walls and ceiling and the space between the studding and joist is filled with mill shavings, not sawdust.

The roof is quarter pitch made of 2 by 6-inch rafters and shingles. The 2 by 8-inch ridge piece is extended at one end to provide a place for fastening a block and tackle when ice is being stored in or removed from the house. A ventilator 2 feet square is placed at both gable ends of the building to permit the free circulation of air in the attic and thus prevent the penetration of heat from the roof.

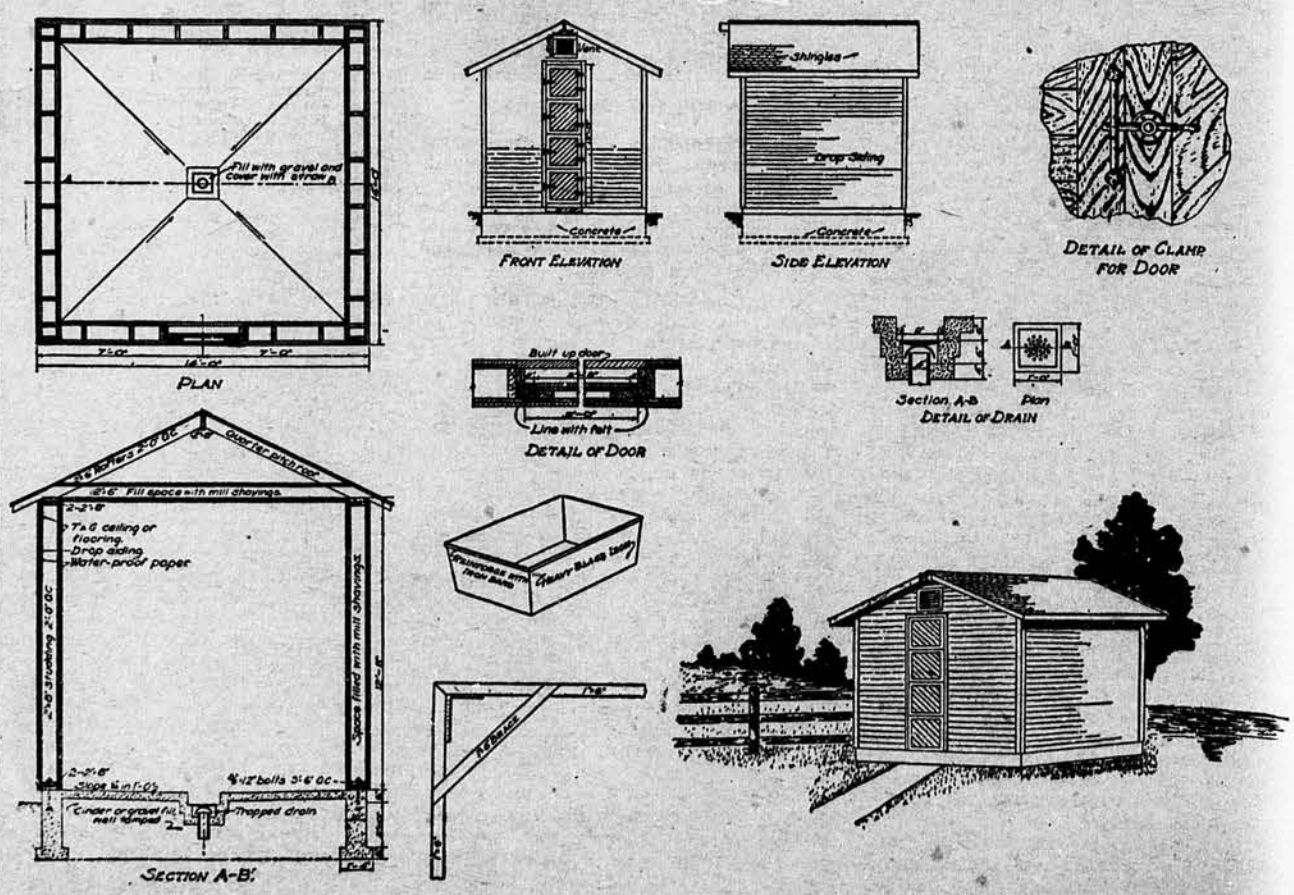
A trapped drain is provided to carry away the water from the melting ice and at the same time prevent the circulation of air. This drain may be made as shown in the illustration, or some commercial form of trap may be installed. The space above the trap should be filled with gravel and this in turn covered with straw to prevent any possibility of trash being washed into and clogging up the drain.

The doors should be well built and tightly fitted. The edge of the doors or casings against which they close should be covered with felt. A good clamp should be provided for each door so that an air-tight joint will be formed when it is closed. A built up door of 2-inch material is placed next to the ice and the space between it and the outside door packed with shavings.

Sawdust is the most common insulating material, because it is cheap, and, in many localities, easily obtained. Sawdust from woodworking factories usually is dry, but from other sources it is likely to come from green lumber and be wet. Wet sawdust moulds quickly, as it has the elements of decay in it before it is ever placed in the building. Dampness not only causes the sawdust to rot and settle, leaving uninsulated spaces in the wall, but also reduces the value of the insulating material about one-half. Beams and joists around which it is packed decay, producing an objectionable odor, resulting in the final ruin of the structure. Sawdust never should be used, except in very cheap buildings, unless thoroly dry and so protected that it always will remain so.

Other materials of about the same class as sawdust are cotton seed hulls, chaff, leaves and cut straw. Mill shavings are more expensive than sawdust, but are quite commonly used. They usually are dry, since they come from the outside of the lumber, which is its driest portion. Shavings are baled and stored under cover. In such form they are convenient to handle, and usually sell for from 15 cents to 25 cents for 100 pounds. Shavings are elastic, do not settle readily, do not absorb moisture as easily as sawdust and are free from dirt, bark and chips. Shavings from softwoods which are odorless and not as brittle as those of hardwoods, are preferable. Shavings which are damp but which have not started to mould may be dried out and used.

Mineral wool, known also as granite rock wool, slag wool, rock cotton or rock cork, is a good insulator despite the fact that it is made from a material which has a relatively high conductivity.



How to Grow a Winner

Gilbert Arthur Tells Club Members About Profitable Pork Production

By JOHN F. CASE, Contest Manager

DID Gilbert Arthur of Hartford, Coffey County, Kansas, actually produce 1829 pounds of pork at a feeding cost of $1.90 a hundred pounds? It isn't difficult to understand why swine feeding experts are asking me for additional proof concerning this record making contest. Not that any person doubts Gilbert's sworn statement but some of them insist that the feed must have been estimated instead of weighed. But, as it happens, I can provide some additional proof which should satisfy every doubting Thomas.

Just about the time our contest closed Gilbert Arthur's father came to Topeka and paid me a visit. I had been impressed with the phenomenally low cost of pork production reported and I questioned Mr. Arthur about Gilbert's work. "I'm sure that the records are absolutely correct," asserted Mr. Arthur, "for Gilbert was very careful about his record keeping and weighing. The alfalfa was weighed, most of it being in bales. Gilbert was very particular about feeding regularly and about cleanliness. It took a lot of work but whether he wins a prize or not he has been well paid. It's a fine business training and Gilbert now has a bank account of his own." Pretty convincing testimony isn't it? But Mr. Arthur said more. "Gilbert's pigs did remarkably well from the beginning," he continued. "I have a number of Berkshire sows and many pigs were farrowed about the same time his came. These pigs had the usual farm care and feed and grew well but none of them compared with Gilbert's when the contest closed. I'm willing to admit that the boy can beat me when it comes to cheap pork production."

There you have it! And the father of every other boy who made a success in the contest would tell you the same story. Gilbert's feeding cost was $16.20 for corn figured at 90 cents a hundred pounds, $4.44 for shorts at $1.20, $1.85 for bran at $1, tankage cost $2.38 at $2.50, alfalfa hay $3 at 30 cents a hundred, and pasture $8 charged at 15 cents a month for the sow and for each pig after 2 months old. The sow made a gain of 65 pounds during the contest. Gilbert's profit record of $154.62 did not include his fall litter easily worth $80. Here's the story of how this first prize winner in the Capper Pig Club contest for 1916 did the work:

"I got my Berkshire sow, Kings Lady Lee 76th, of E. D. King, of Burlington, Kan., Dec. 20, 1915," writes Gilbert. "She weighed 275 pounds when I bought her. I fed her until January 1, feeding during the 11 days ⅓ of a bushel of soaked corn, 11 pounds of shorts, and 5 pounds of bran made into slop. She also had all the alfalfa hay she could eat. In January I fed her 1 bushel of soaked shelled corn, 30 pounds of shorts and 15 pounds of bran. I mixed this, 2 parts shorts to 1 part bran. And she had all the green alfalfa hay she could eat, a good clean warm place to sleep and a new bed three or four times a week.

"In February I fed her the same amount of shorts and bran but I increased her corn to four ears a day. I shelled and soaked it as before and fed half of it mornings and the other half evenings. I also fed green alfalfa.

"I weighed her March 1, and she weighed 380 pounds, a gain of 105 pounds, so I thought I had her fat enough. That month I fed her bran and shorts and added one small handful of tankage to her slop night and morning. On March 14 she found me 11 pigs. She laid on three and killed them, so I just saved eight. When the pigs were first born I would let them nurse, then I would place them in a box and cover this box with an old piece of carpet so they would be warm, and leave them there until they would get hungry. Then they would squeal and I would let them nurse again. I kept this up for three or four days until they got strong enough to take care of themselves.

"In April I fed my sow the same amount of soaked corn that I did in March, and fed her 30 pounds of shorts and 15 pounds of bran and tankage as before. She also ran to green alfalfa hay.

"In May I fed the same amount of soaked corn, shorts, bran and tankage as I did in April and she ran on bluegrass and White clover pasture.

"I weaned the pigs in June, put the sow on bluegrass and White clover pasture and fed her two ears of corn twice a day. I fed the pigs soaked corn, 4 pounds each day, 2 pounds morning and 2 evening. Made slop of 2 pounds of shorts and 1 pound of bran and gave it to them night and morning. Also fed a small amount of tankage. They ran on alfalfa pasture.

"During July I gave the sow the same care as in June. Did the same for the pigs, but increased their corn to 8 pounds a day. I fed the sow the same amount of corn in August as I did in July, and kept the pigs on the same feed In September I fed the sow and pigs the same as I did in August.

"October 2 my sow found me eight more pigs. Then I began to give her shorts and bran, 1 pound of shorts and ½ pound of bran each day made into slop, also soaked 2 pounds of corn for her each day, and she ran on pasture. I gave her first litter the same amount of shorts and bran and tankage. I now give them 10 pounds of soaked corn each

Pep Will Win This Trophy.

day. On October 30 I sold three to the shipper for $63. They weighed 630 pounds and I got 10 cents a pound for them.

"In November I fed the sow the same as in October. The remaining five shotes I fed 8 pounds soaked shelled corn, and bran, shorts and tankage.

"From December 1 to December 15 I fed my sow and fall pigs 70 pounds of soaked shelled corn. My big shotes I fed the same as in November. My hogs always had plenty of clean, fresh water to run to. Once every two or three weeks I disinfected their quarters and also went over my hogs with coal oil and buttermilk for lice.

"On December 9 I sold Roy A. Nance a gilt for $30, to be entered in the Capper Pig Club contest. She weighed 224 pounds. The other four I have left weigh 910 pounds. My sow now weighs 340 pounds, and her 8 young pigs weigh 482 pounds."

Hats off to Gilbert Arthur, champion pork producer for Kansas! There will be more Berkshires in the 1917 contest and Gilbert as secretary of the breed club can be depended upon to keep on boosting.

And now let's talk about the future for the Capper Club is out to accomplish even bigger things in 1917. Ever hear of a trophy being awarded for showing pep, fellows? I never did but you will agree that only boys who put pep into their work succeed. About March 1 I'm going to appoint one boy in every Kansas county where we have two or more members and his job will be county leader. It will be up to the county leader to keep in touch with other members in his county, encourage the laggards, get the boys together for an occasional meeting and work with the contest manager to make the club a success. I'm going to help county leaders plan some good time meetings, too. Boys living in counties where membership is complete will have added incentive in working for the $50 county prize. The county leader who proves to be the best booster during 1917 will receive a beautiful trophy cup and it will be up to me to make the award. Want to be a county leader? In appointing county leaders I'm going to consider boys who are showing pep in the contest now. Every leader will be provided with a list of club member names for his county and will receive a letter every month telling him what's expected. If you desire to be leader in your county show some pep. Really I think winning this trophy will be the greatest honor possible in 1917.

Date of entries for membership closes February 15. The contest sow must be purchased and entered in the contest before March 1. Mr. Capper will lend you the money to pay for a contest sow. More than $300 in prizes offered. The latest prize offer is a Spotted Poland gilt offered as a special prize for the best record made by a Spotted Poland breeder. She will be worth $25, the value increased to $35 if first place is won. A. S. Alexander of Burlington, Kan., is our boosting friend. We hope to announce the offer of a Berkshire gilt next week.

Here are the counties with membership completed since last report:

Name and Address	Age
ALLEN COUNTY:	
Sylvan Smith, Moran	14
Lyle Lewis, Humboldt	14
Spencer Gard, Iola	18
George Pester, Moran	11
Harry Dunlap, Carlyle	15
CHEROKEE COUNTY:	
Reno Atkinson, Scammon	14
Edwin Bowman, Weir	15
Louis Zitnik, Scammon	12
Glenn Woodward, Columbus	13
Elijah Hayden, McCune	14
FRANKLIN COUNTY:	
Wayne Vickers, Pomona	12
Charles Petty, Wellsville	17
Robert Ramey, Rantoul	14
Lawrence Steele, Pomona	10
Claude Smith, Princeton	14
GOVE COUNTY:	
Scott Milroy, Quinter	12
Lloyd Mitchell, Gove	16
Harold Stewart, Grinnell	18
Claude Burkhead, Oakley	14
Virgil Flanders, Hackberry	10
MITCHELL COUNTY:	
Marcus Butterfield, Hunter	14
Eugene Creitz, Beloit	13
Orvan Monroe, Cawker City	15
Donald Cloepfil, Hunter	13
G. W. Carleton, Cawker City	15
NEOSHO COUNTY:	
Philip Osburn, Thayer	11
Doyle Mustard, Thayer	15
Milo Gibson, Chanute	13
B. B. King, Erie	13
Neil Tripp, Shaw	10
NORTON COUNTY:	
Hubert Snyder, Lenora	17
Ellis Carter, Norton	15
Marion Miller, Norton	16
Simeon Linnell, Almena	16
William Lemonds, Lenora	13
PAWNEE COUNTY:	
Ralph Kline, Larned	14
Bruce Mather, Burdett	10
Paul Buck, Larned	11
Edward Mather, Burdett	10
Carl Bauer, Burdett	13
STAFFORD COUNTY:	
Verne Landreth, St. John	16
John Rickert, Seward	16
John Cadman, St. John	14
Edward Slade, Stafford	14
Harry Newell, Stafford	15

The five boy membership is complete in 67 counties. There's still a chance for boys 10 to 18 years old living in Barber, Barton, Brown, Comanche, Edwards, Ellis, Finney, Ford, Geary, Graham, Grant, Greeley, Hamilton, Haskell, Hodgeman, Kearny, Lane, Lincoln, Logan, Marion, Meade, Morton, Ness, Rawlins, Riley, Rush, Scott, Seward, Sheridan, Sherman, Stanton, Stevens, Thomas, Trego, Wallace, Wichita and Wyandotte counties. Write to John F. Case, Capper Building, Topeka, Kan., giving your name, age, postoffice and the county you desire to represent. And do it now.

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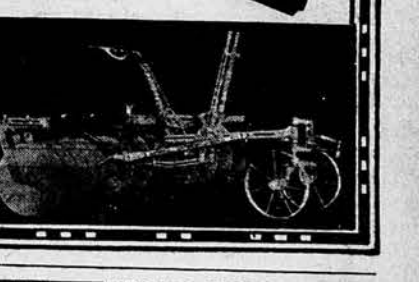

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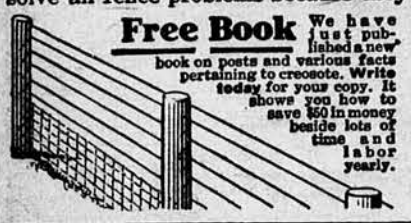

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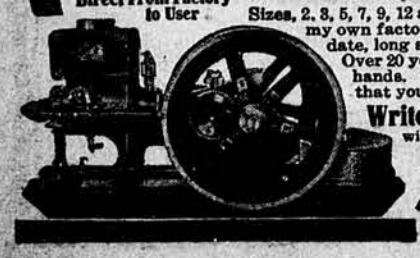

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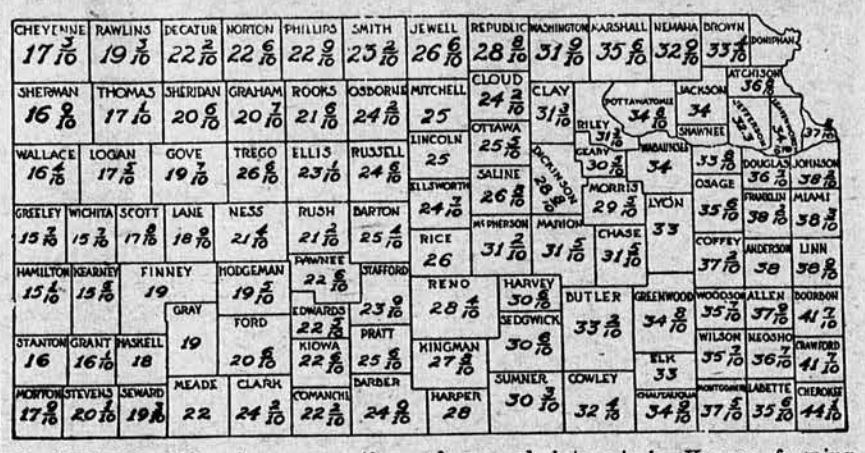

LETTERS of inquiry on questions of general interest in Kansas farming are printed; others are answered by mail. Names and addresses of the writers cannot be supplied. Study the map when reading the answers and consider the rainfall, which is given in inches for the counties.

A Larger Acreage of Alfalfa.

I have been growing wheat almost exclusively, and it has produced good yields most years. This crop is well adapted to the conditions here. Do you believe a larger profit can be obtained from a diversified system? High profits are made from wheat some years; this was true on most farms last year.

Stafford Co. A. H. R.

Farming would be much more profitable in Stafford county if more attention were paid to good crop rotations and to livestock. This county is well adapted to wheat, and many farmers have gone in for too large an acreage of the crop. According to the returns made to J. C. Mohler, secretary of agriculture, Stafford county now is growing 229,585 acres of this crop. Most of this land will grow alfalfa. If the acreage of wheat were reduced slowly and the land used for alfalfa and the sorghums, which should be fed on the place, a system of farming would be developed that would be more profitable than the present methods. More than this, it would be substantial and permanent.

F. B. N.

Shrinkage With the Oats.

Can you tell me how much oats shrinks when held in storage?

Harvey Co. F. P. L.

There is little data available on the shrinkage of oats. As far as I know, no data of this kind has been obtained in this state or in surrounding states. At the Michigan station, 4,243 pounds of oats stored in September, 1892, had lost in weight a little less than 1 per cent when weighed again the following March. In 1896, 100 bushels of oats stored in August at the Michigan station showed a loss of only 7 pounds in weight the following March. In the third experiment at this station, which was conducted in 1900, 1,038 pounds of oats was stored in a tight bin in October, 1899. These oats showed a shrinkage in weight of 3.4 per cent when the grain was removed in May of the following year.

It is possible that a larger shrinkage would have taken place if the oats in these tests had been weighed and placed under observation immediately after threshing. However, I believe it is safe to conclude that oats which are threshed and put in the bin dry and in good condition shrink but little in weight other than the waste which may be occasioned by mice, rats or insects.

L. E. CALL.

K. S. A. C.

Better Farming at Buffalo.

How will I apply wood ashes to farm land for best results? Does land here in Northern Wilson county need salt or lime? Buffalo creek runs thru my farm and the east side is limestone and the west side sandstone. Would it do to sow alfalfa seed in February or March and let it germinate when the soil gets warm enough for germination? Does the station have seed for sale of alfalfa, kafir, feterita, milo or oats?

W. E. O.

Wilson Co.

Undoubtedly the most practical way to apply wood ashes would be to spread them with the manure spreader on fall plowed ground providing you wish to spread the ashes this winter. A small amount of straw of manure could be placed in the bottom of the spreader to hold the ashes, and the quantity of ashes you apply could be governed by the rate at which the spreader runs and also by the quantity loaded. I would suggest spreading the ashes at the rate of 1,000 to 2,000 pounds an acre.

If you do not have a manure spreader that could be adjusted to spread manure slowly, it may not be practicable to use it for this purpose. In that case the only thing to do would be to spread the ashes by hand unless you have a lime spreader or a fertilizer distributor.

There is considerable land in Northern Wilson county that needs lime. A great deal of the sandstone soil in that territory is deficient in lime. As a rule, the bottom soils along creek bottoms are well supplied with lime because they usually contain more or less wash from limestone soils. I would not advise the application of salt as a fertilizer.

I would not advise sowing alfalfa seed in February or March, as Red clover seed is often sown. The young alfalfa plants are easily killed by heavy freezes, and your chance of securing a stand would not be the best when the seed is sown in this way. Under ordinary conditions I would prefer to sow alfalfa in the fall, some time between the middle of August and the first of September. If you wish to sow alfalfa in the spring it would be best under your conditions to sow the seed with a nurse crop of oats, using about 1 bushel of oats to the acre. There is some possibility of losing a stand of alfalfa by freezing when seeded in the spring with oats, but it is better to take the chance of losing in this way rather than to delay seeding when all danger of freezing weather is past, because delayed seeding usually gives weeds a better start than the alfalfa.

We do not have for sale at this station alfalfa, feterita, milo or oats. We have a small quantity of Blackhulled kafir that we are selling at $3 a hundred f. o. b. Manhattan. I am sending a sample of the seed under separate cover. We will have a list of farmers who have alfalfa, feterita, milo, and oats, which will be issued soon. I am placing your name on file for a copy.

K. S. A. C. L. E. CALL.

Away With Spring Wheat.

I am interested in a farm in Miami county and think you might be able to give me some data along lines of general farming and stock raising. I am considering wheat sown in the spring as I did not succeed in getting it sown last fall. Have you reports of a good yielding beardless barley grown in this section?

I. N. F.

Miami Co.

I would not advise sowing spring wheat in Miami county. Spring wheat matures so late in the summer that it frequently is severely injured by insects such as Chinch bugs or by plant diseases, and ripens in such a hot season that the kernels of the wheat are often shrunken and of poor quality. It is only in the high altitudes in the western and particularly in the northwestern corner of this state that a good quality of spring wheat can be produced. I would therefore not advise you to sow this crop next spring because, in my judgment, corn or oats would prove much more profitable.

Barley, as a rule, is not so satisfactory a spring grain as oats under your conditions. I am sending you under separate cover a copy of Bulletin No. 166 on Spring Grains, which will give you some information regarding barley. You will note from this bulletin that the beardless varieties of barley are, as a rule, much inferior to the bearded varieties. As an average of five years at this station, Success beardless barley produced 28.3 bushels to the acre, as compared with 36.6 bushels for Selected Mansury, a bearded variety. I believe, however, as stated before, that you will find oats, especially the Red Texas variety, to be a more profitable spring grain crop than barley.

L. E. CALL.

K. S. A. C.

Rock Phosphate for Kansas.

I should like to use some ground phosphate—raw Tennessee rock. Where can I procure some from a local dealer? What is the advice of the station as to its worth and need?

A. L. D.

Douglas Co.

Replying to your inquiry regarding where ground raw rock phosphate can be obtained, I may say that the following firms in Tennessee can supply this material:

Mount Pleasant Fertilizer Co., Mt. Pleasant.
Robin Jones, Mt. Pleasant.
Farmers Ground Rock Phosphate Co., Mt. Pleasant.
John Ruhm, Jr., Mt. Pleasant.
H. D. Ruhm & Co., Mt. Pleasant.
W. B. Alexander & Co., Mt. Pleasant.

It would be necessary for you to purchase this material in carload quantities. I would therefore not advise you to buy a carload of raw rock phosphate unless you are sure your soil is deficient in phosphorus. If you do not know that your soil is deficient in this element, the best plan would be to try a small quantity of acid phosphate or bone meal. These materials both carry phosphorus in a more available form than the Tennessee raw rock. If they prove profitable, it might then be advisable to purchase Tennessee raw rock phosphate to be applied with barnyard manure, or to be plowed under with a green manuring crop.

K. S. A. C. L. E. CALL.

More Cars for Long Hauls

The Allies Shipped 1,000 Tons of Hay from Gridley

BY HARLEY HATCH

IT IS STILL almost impossible for a common shipper to get cars here; those who ordered cars for hay last November have just received them. Our local paper says empty cars are being received at the rate of about three a week; it may be well that we don't get more. Perhaps if all our wants were supplied hay would reach the market in such quantities as to break the price by $1 a ton or more. At any rate we can't get the cars, so we might as well make the best of it. But if we can't get cars for the short haul to Kansas City they are to be had for a longer haul. A local hay shipper sold 1,500 tons of our noted broadleaf Bluestem hay to the English government and it seems to have no trouble in getting cars, for 1,000 tons of this hay has been shipped this week. This lot of hay going out will take a big hole out of the stored supply here and will relieve the pressure to a great extent. It has made the hay business lively in Gridley this week, and the town has been full of loads of baled hay waiting for their chance at the car door.

Since the threshed alfalfa was fed out our cattle have been getting their rack filled with oats straw as a side dish. They relish it greatly but it seems to be rather laxative, and so we filled the rack yesterday with prairie hay, which should correct matters. The kafir fodder is gone and we have been feeding corn fodder for the last week. It is bright and has a few ears on it which makes it nice feed but I cannot see that the stock are doing any better on it than they did on kafir which contained no grain. The kafir fodder this year was much better than usual and seemed to be especially good feed for milk cows.

A publication purporting to represent the school teachers of Kansas is before me as I write and I note especially an article "What's wrong with Kansas school books." This article begins: "A layman whose reading evidently is limited to the Farmers Mail and Breeze has written to know why the school people of Kansas are dissatisfied with the text books provided by the state book commission." It goes on to say that the law providing for state printing was only approved by the Republicans and Democrats of Kansas leaving us to infer that most of the real brains in the state is outside of these two bodies. In other words, only the people approved state printing. One-hundred years ago what the people wanted usually was turned down as quickly as the ruling powers could attend to the business, but the world has moved on rapidly in the last century altho many men cannot comprehend this.

This article also says that "only Kansas and California have state publication." Ask the first man or woman you meet almost anywhere in the Union, "Which is the most progressive state?" and if they don't answer "Kansas" they will say "California." It has been the rule in all matters pertaining to reform that Kansas or California start things and the rest of the states fall in anywhere from a year to 15 years later. The article does not specify that any certain text book issued by the state is a failure but sweepingly condemns them all. This condemnation might carry more weight if the publication in question was not carrying pages full of advertisements for the book publishing houses that hope to get the business the state printing plant now handles. If this organ wishes its statements to carry conviction to the rural school patrons of Kansas let it specify wherein the state books fail and in particular which ones they most condemn. The school book publishers will, without doubt, have a lobby at Topeka this winter and if you, after careful investigation of the state printed books, are satisfied with their quality and price as compared with the privately printed books let your representatives know it. If not, let them know it also.

The ground froze during that cold week before Christmas but the frost evidently did not penetrate deeply for yesterday I saw two plows at work and they seemed to be going right along. The cold was not continued long enough to allow the frost a chance to work. It will no doubt be better for the soil if we get harder freezes before the winter is over, but the long dry spell evidently put the soil in almost as good condition as a heavy freeze. In all fields where plowing or listing has been done the soil works up splendidly, and should we be spared flooding rains next spring our soil will be in fine condition without further freezing.

A Cottonwood Falls friend has sent us some more Scotch papers in which we note a few prices prevailing in Great Britain for farm produce. In Berwickshire, Scotland, potatoes now cost 10 pounds a ton while last year the cost was but 3 pounds, 10 shillings a ton. As an English pound equals about $5 in our money it will be seen that potatoes cost money there as well as here, and that the rise in price has been greater in the last year than it has in the United States. The price over most of Scotland for the standard 4-pound loaf of bread appears to be about 10½ pence or 21 cents in our money. I note also that Lincolnshire, England, farmers are contracting to grow mustard for 18 shillings a bushel. This would be about $4.50. If mustard would grow as well here for a regular crop as it does in the oats and flax I believe we could make money growing it for $4.50 a bushel; there is no doubt that it would largely outyield alfalfa as a seed crop.

A good many years ago Lawrence Sterne wrote a book in which is to be found the phrase, "The Lord tempers the wind to the shorn lamb." Now we are not lambs in this corner of Kansas but we were shorn of a corn crop last year, and because of this we appreciate the tempering the wind has had of late. No better winter weather was ever experienced here; it is just right this week; not too cool and not warm enough to start the peach buds.

Many farmers thought following the corn failure last year that this winter would witness more public sales of farm property than had been held in any previous year, and that at these sales farm machinery would go at low prices. I was one who held these opinions and find that in both I was mistaken. The number of public sales of farm property held in this county thus far has been less than in any year in the last six, and farm machinery, so far from selling cheaply, has brought in most cases all it was worth. The advance in farm machinery prices during the last year and the threatened still higher prices have caused farmers to figure on how to avoid that higher price. In most cases the only way is to buy second hand machinery and this usually can be done at sales. One thing seems sure; we must in the future take better care of our farm machinery and by so doing get from it 50 per cent more service. This will not be hard to do.

Sunnyside Grange had its annual installation of officers recently, which ended with an oyster supper in which more than 100 persons were fed. All seemed to have a good time, and there was oyster soup left when the festivities wound up at 11 p. m. A motion carried relieving all women members from the payment of dues after this date, which seems to me right and proper. The women have the work to do at every entertainment—or most of it, at any rate—and it does not seem like a fair deal to call upon them for dues in addition. This new rule should result in a large addition to the membership and better and livelier meetings.

Owing to the dry summer few strawberry runners set in our bed, and because of this we could not root out the old plants and have new ones to bear in 1917. I don't expect these old plants will bear very well but we have a bed large enough to provide all the berries we can use if the spring proves favorable for berries. Our bed is mulched with a coating heavy enough for our Kansas winters. We did this as soon as the ground froze. We shall not remove this mulch next spring but leave it on to hold the plants back from too early blooming.

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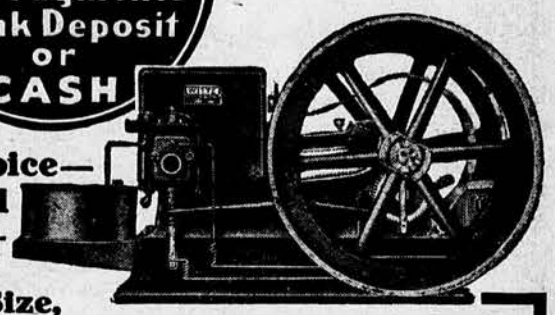

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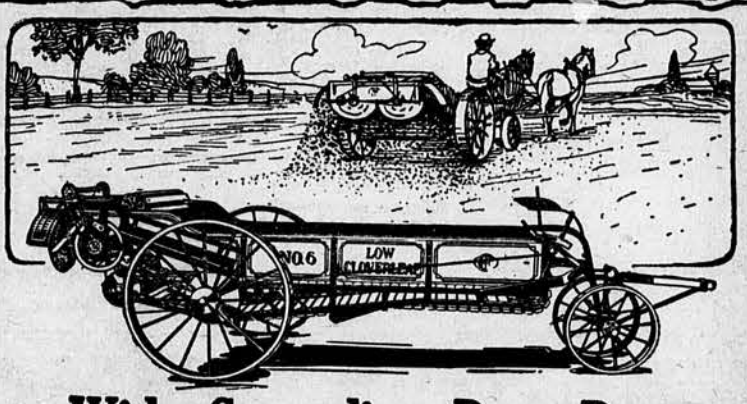

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Winter Butter, and How to Get It

Failure to get butter "to come" by churning is not an uncommon experience during the winter season. The trouble most often occurs on farms where only a few cows are milked. If the milk of one or two animals is responsible for the difficult churning, other milk when mixed with it will overcome the trouble. Usually the trouble is due to one of two causes: an incorrect churning temperature, or because of the peculiar composition of some milk and cream.

During the cold months of the year cream should be churned at a higher temperature than during the summer months. For this reason a careful regulation of the temperature is necessary to give the proper ease in churning. If the temperature at which one churns is not high during the winter months, the cream must be churned a longer time to form butter. One may churn at so low a temperature that butter will not form with a reasonable amount of churning. It is a very common practice during the winter months to allow the cream to become so cold that it will not churn.

Sometimes when cold cream is agitated in the churn it will whip and expand until the churn is nearly full. In this condition butter will not form because the cream cannot be sufficiently agitated. When a low temperature of the cream is the cause of difficult churning, the trouble may be corrected easily by raising the temperature. As the winter season approaches there usually is a larger number of stripper cows. When a cow becomes nearly dry the butterfat globules in the milk become very small and collect with great difficulty on being agitated in the churn. During the winter the feed is such that the fat globules become very much harder and this likewise interferes with ease in churning. The cream also becomes more viscous as the animals advance in their lactation period and this again makes churning more difficult.

Whenever butter granules fail to appear in about 30 to 40 minutes churning, the cream should be raised in temperature. It is well to raise the temperature only a few degrees at a time for if too warm the cream will give butter with a very soft salvy texture. If on raising the temperature a few degrees the butter refuses to gather, a further raise of temperature is necessary. Whenever a raise of temperature does not give satisfactory results, add cold, pure water until the cream is diluted to the thickness of milk, reseparate the mixture and discard the skimmilk. The cream then should churn easily but upon failure to produce butter, the cream should again be diluted and reseparated.

L. G. Rinkle.

Sell Cream or Butter?

We find it pays two fold to turn our milk into butter and cheese and then build up a trade among people who will pay a good price. If one lives near a big city it is more profitable to sell milk to customers, if he can deliver it himself; but if he has to ship it a great distance he will not receive adequate return. It is fresh milk the city wants. The farmer never makes expenses if he sells the cream, unless farmers own the creamery; creameries pay too little for butterfat. There is no need of dividing profits with the creamery man when the farmer can divide with his wife.

January Institutes

The extension division of the Kansas State Agricultural college has announced the dates for the sixth circuit of farm and home institutes. The towns and speakers are:

January 22 and 23, St. John; January 24 and 25, Stafford; January 26, Hudson; January 27, Radium; January 29, Little River; January 30, Raymond; January 31 and February 1, Nickerson; February 2, Canton; and February 3, Lorraine. Speakers: Ross M. Sherwood, poultry specialist, will speak at all of these institutes; R. P. Schnacke, county agricultural agent of Pawnee county, will speak at St. John, Stafford, Hudson, and Radium; and Lee H. Gould, district agricultural agent of Southwestern Kansas, will speak at Little River, Raymond, Nickerson, Canton, and Lorraine.

January 22, Lovewell; January 23, Webber; January 24, Harrison township, (Jewell county); January 25, Prairie township, (Jewell county); January 26, Vicksburg township, (Jewell county); January 27, Mankato; January 29 and 30, Smith Center; January 31, Smith County Farmers' Union Co-operative association at Lebanon; February 1, Agra; and February 2 and 3, Phillipsburg. Speakers: George S. Hine, state dairy commissioner, will speak at the institutes at Lovewell, Webber, Harrison township, Prairie township, Vicksburg township, and Mankato; George O. Greene, horticulture, will speak at the institutes at Smith Center, Lebanon, Agra and Phillipsburg. Miss Estella Mather, home economics, will speak at all of these institutes.

January 22, Burdick; January 23, Walton; January 24, Burrton; January 25, Sedgwick; January 26 and 27, Halstead; January 29 and 30, Newton; January 31, Rose Hill; February 1, Anson; and February 2 and 3, Norwich. Speakers: Carl P. Thompson, animal husbandry, and Miss Marie Coons, home economics.

January 22, Udall; January 23 and 24, Winfield; January 25, Dexter; January 26, Burden; January 27, Fairview Grange at Grenola; January 29 and 30, Wild Cat Grange at Moline; January 31, Ohio Grange at Longton; February 1 and 2, Howard; and February 3, Severy. Speakers: T. H. Parks, entomology, will speak at all of these institutes, and Miss Frances L. Brown, home economics, will speak at Udall, Winfield, Dexter, Burden, and Grenola.

January 22 and 23, Garrison; January 24 and 25, Olsburg; January 26, Overbrook; January 27, Barclay; January 29, Melvern; January 30, Arvonia Grange at Lebo; January 31 and February 1, Edgerton; February 2, Black Jack; and February 3, Vinland. Speakers; G. E. Thompson, crops, and Miss Louise Caldwell, home economics.

Filling Silos With Small Crews

BY HELEN E. LILL
Sedgwick County

On many Kansas farms the task of filling the silo is taking its place with threshing and corn shelling, and the prospect of boarding another annual crew of men brings no joy to the farm cook. Most farmers are convinced of the real benefits of silage, especially for cattle, but there has been more or less talk of the expense of filling. Some farmers believe the advantage of silage over shock fodder does not justify the extra cost.

Filling a silo in one day requires a considerable force; wages and board become an item. Rapid filling makes it difficult to pack the silage tight enough, and so much settling occurs after the silo is filled that space is wasted.

A way of handling this work that has proved very satisfactory on one Kansas farm has been followed for three years. The silo in question is a pit silo dug in the north side of the barn, but I see no reason why the method wouldn't work on a standing silo equally well.

A feed cutter that had been on the place for years—bought orginally to cut bundle oats—was set up and a neighbor's tractor was hired for $10 for the job. Two men were hired to haul bundles from the field and they fed the cutter, with one man in the silo to tramp and level the silage.

When the two loads were run thru the engine was stopped. the wagons went back to the field and the man who did the tramping carried water from a nearby tank to drench the silage. More water than usual was needed in 1916 as the fodder was very dry. I have the word of the man who carried the water for this statement. I suppose if things were fixed for it a hose could be attached to a windmill and do away with the carrying.

By the time the silage was sufficiently wet the wagons usually were back with their new loads, and so on until the silo was full. Sometimes the man who stayed at the silo had time enough to sharpen the cutter knives before the wagons returned, and this gave a nicely cut lot of silage, much better than that generally obtained where the work is hurried thru.

There doesn't seem to be much danger of getting in too much water as the excess steams out as the silage cures.

Two extra men and not quite three days were required to fill the 21-foot silo, and the days were not very long ones as farm days go. The expense was small, and the silage packed so there was only a 3-foot shrinkage. When a farmer can get away from the large crew he can get better work done at less expense, and the labor question is done away with.

Another Duroc Jersey Futurity

The National Duroc Jersey Record association will have another futurity show at the state fair next fall at Topeka. There will be $400 in prizes for pigs farrowed after March 1. This money will be divided into 24 prizes, eight each for boars, sows and a litter of four, of from $5 to $35. Full information in regard to this show can be obtained from Phil Eastman, secretary, the Kansas State Fair association, Topeka.

Kafir can be improved in Kansas by good head selection in the field.

How About Butter as a Food?

It Contains Something More Vital than Other Fats

BY J. H. FRANDSEN

THERE has been an idea prevalent among dietists and chemists, as well as persons in general, that all fats yield only energy and heat. Until recently no experiments had shown any important difference between butterfat and other fats. It had, of course, been proved that fats of low melting point were more digestible than those of a high melting point. Aside from this, there was thought to be but little difference in their food value. In the estimation of many "fat was fat" and yielded only energy and heat.

The oleomargarine people often took advantage of this fact to exploit a cheap product as a substitute for butter. Whether or not this "just as good or better product" is at all worthy of the place they claim for it has always been questioned by dairy and creamery men. Experiments carried on by F. B. Osborne, of the Connecticut Experiment station, Dr. Mendel, of Yale, and E. V. McCollum, of the Wisconsin Experiment station, are interesting, and prove the real value of butter, that butterfat not only yields energy and heat as do other fats, but that it contains something more vital than other fats, a principle which like proteids, supplies the elements necessary for growth and life itself.

In experiments carried on with white rats, young rats were fed mixtures composed of chemically pure protein, starch, fat, sugar and various salts, and got along splendidly for the first three months. Then they lost appetite, fell off in growth and finally starved. After numerous experiences of this nature the investigators found that if milk were added to the ration the little animals began to regain normal condition, to thrive and grow to maturity. Many changes were made in their diet to make it more palatable, changes in salts used, the kinds and amounts of sugar, but always the same result—growth ceased at the age of about 4 months. It was in an attempt to increase the palatability of the diet by substituting pure butterfat for the lard, which had been used as the fat in the ration, that the experimentors found these new facts. The little animals immediately began to grow just as when milk was fed. It was evident that butterfat supplied something necessary for growth which lard could not supply. Other experiments were carried on to determine whether other fats would produce the same effect as butterfat. Experiments with tallow, olive oil, corn oil, cottonseed oil and peanut oil proved futile, while the fat of eggs and fat extracted from the cells of pig kidney produced the same result as butterfat. It seems evident that the fats obtained from the living protoplasm of animals have this property of inducing growth after growth has ceased. Thus far no plant fat has been found to possess this power.

Experiments with pigs and calves gave results similar to those with the rats. If records of experiments on man were available, it is reasonable to suppose that results fully as striking would be obtained. In this connection the editor of Hoard's Dairyman recalls two instances in which two public institutions had, in the interest of so-called economy, substituted oleomargarine for butter in the diet of the inmates. It was noted that when oleo was used the inmates were not in as good physical condition and that physicians were in greater demand than before. When oleo was replaced by butter it was reported that the health of the inmates was improved.

In the light of these experiments and observations it is reasonable to suppose that even more marked discrepancies would be apparent in the growth and general health of young children.

Just how much or how little butterfat can be used and still maintain growth has not yet been determined—but enough has been proved to give the dairyman reason for his assertion that butterfat is a better food than butter substitutes composed of vegetable fats and oils.

You Can't Wash Dirty Milk

Milk and its products not only must be clean, but must look clean if the customer is to have satisfaction and if the trade is to be kept and developed. Any family can almost wholly dispense with dairy products if those on the market are unsatisfactory, by which we infer that there is a demand capable of indefinite expansion or of great contraction. While nothing equals real quality in stimulating trade, yet attractiveness in package and display serves this business as letters of introduction serve individuals.

The consumer can wash some of his foods, peel some, and cook others, but he must take his milk, cream, or butter as he finds it. He cannot clean it nor cook it, and there is no satisfaction in inquiring into its pedigree unless he can do it with confidence. Here is the key to enlarged consumption, for if it is clear from the package that the producer has taken pride in his product, the presumption is that it is both clean and safe. It is, therefore, appetizing.

Eugene Davenport.

19 JAN 17

Cows Require a Palatable Diet

The first condition given as typical of the summer feeding is an abundance of palatable food, and on this point is made one of the most common mistakes in feeding cows. In producing milk, the cow may be looked upon in a way as a milk producing machine which we supply with a certain amount of raw material in the form of feed, and this raw material is manufactured into milk. The same rule holds in running the milk manufacturing plant as would hold in the running of any other manufacturing plant; it is run most economically near its full capacity. Every one who feeds animals should thoroly comprehend that, first of all, the animal must use a certain proportion of its food to maintain the body. This is the first requirement of the animal and it is the first use to which it puts its food.

In the case of an ordinary dairy cow the amount required to maintain the body is about 60 per cent of the ration. In the case of a heavier producing animal the proportion of the ration used for this purpose is less. It should be clear that, after going to the expense of giving the animal the necessary amount to keep her alive, it is the poorest economy to refuse to supply the other 40 or 50 per cent which she would utilize exclusively for milk production.

The only way to feed a cow economically is to feed her liberally so she has the raw material to make into milk. Then if she does not deliver the goods she should be sent to the butcher. The farmer sometimes reasons that with high priced feeds it does not pay to feed well. It certainly does not pay under such conditions to feed inferior cows liberally but such conditions make it all the more necessary to feed the good cow enough to use all her milk producing ability.

C. H. Eckles.

About the Dutch Belted Cows

The Dutch Belted Cattle closely resemble the Holstein in form and production. These cattle are black with a white belt around the body. There are probably about 2,000 in America. Many people have an idea that their chief asset is their distinctive color marking. This, however, is not the case. Considering the small number of the breed, it has produced as many excellent individuals as any breed. At the Chicago World's Fair, 1893, Dutch Belted Cow, Lady Baird No. 82, produced 32 quarts of milk a day, not being equalled by any other cow on exhibition. In 1909 a Dutch Belted cow won a prize of $10, offered by The De Laval Separator Company for producing the largest quantity of milk at one milking on a fair ground.

Milk is a Cheap Food

Everybody uses milk and its products, not occasionally but every day of the year. This means that it is by nature a standard and staple food as well as an indispensable article of diet for invalids and small children. Moreover, if economically made and handled it is relatively cheap, for quite contrary to popular opinion milk at 10 cents a quart is cheaper food than lean meat at 25 or even at 20 cents a pound. Furthermore, butter is the only animal fat that everybody likes and that is entirely consumed.

Eugene Davenport.

COST What you put into a Cream Separator VALUE What you get out of your Cream Separator

It isn't the "out go" but the "income" that determines the real value of a Cream Separator

It's Cheaper to Buy a

DE LAVAL

CREAM SEPARATOR

VALUE depends upon the amount and the quality of service the article gives you—what you get out of it.

You get by far the greatest actual VALUE for your money when you buy a De Laval—BECAUSE it will give you much better and longer SERVICE than any other separator.

From the standpoint of its greater durability alone, the De Laval is the most economical cream separator to buy, and when you also take into consideration its cleaner skimming, easier running, greater capacity and less cost for repairs, the price of the "cheapest" machine on the market is most exorbitant compared with that of the De Laval.

And there is no reason why you should let its FIRST COST stand in the way either, because the De Laval may be purchased on such liberal terms that it will actually pay for itself out of its own savings.

You can't afford to wait until next spring. Let the De Laval start saving cream for you right now and it will earn its cost by spring. See the nearest De Laval agent at once, or, if you do not know him, write us direct for any desired information.

The De Laval Separator Co. 165 Broadway, New York 29 E. Madison St., Chicago

50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

Are Your Cows a BURDEN?

Many cows are a constant drag on their owners when they could just as well be good producers—if properly handled.

Don't forget that your cows can get physically "off color" just as you sometimes do. Watch the milk yield; if it is going down without apparent reason, somehing is wrong with the cow. Overfeeding is likely to make the condition worse; she needs a medicine that will clear up and strengthen her organs of production.

Kow-Kure is making thousands of new friends among the best dairymen every year, because it supplies this great need. It is a cow *medicine*, pure and simple—not a food. It has great curative and tonic powers that immediately act upon the digestive and genital organs and enable the cow to thrive on her natural food. Kow-Kure has back of it twenty years of success in making backward cows profitable and in the prevention and cure of Abortion, Barrenness, Retained Afterbirth, Milk Fever, Scouring, Lost Appetite, Bunches and other common ills.

You can buy Kow-Kure from the best feed dealers and druggists. Sold in 50c. and $1.00 packages.

DAIRY ASSOCIATION CO.
Lyndonville, Vermont

KOW-KURE

FREE BOOK
"The Home Cow Doctor"
This useful book that should be in every farmer's library is yours for the asking. It may be worth hundreds of dollars in a critical moment.

5 New 1917 Record-Hatch-Making Improvements No Other Incubator Can Offer

20 Exclusive Improvements as compared with 15 last year! And at no raise in price! X-Ray Gas-Arrestor—ingenious device that prevents lamp fumes entering egg chamber; X-Ray Nursery Tray, new feature that assures sanitation—protects little chicks; X-Ray Egg Tester, most perfect, handy tester ever conceived; New Handy Height; New 1917 Quick Cooling Egg Tray.

X-Ray Incubator

The Famous One Gallon Oil One Filling Hatcher

Fill the tank, light the lamp, and you are through. Duplex Central Heating Plant — directly underneath furnishes natural, moist Mother Hen heat. X-Ray Automatic Trip regulates the flame — no cold corners — no overheated sides. Express Prepaid to Practically All Points.

Express Prepaid to Practically All Points

Write For FREE 1917 Book

X-RAY INCUBATOR CO. Box 47 Des Moines, Iowa

Learn About the 1917 X-Ray Brooders, Too!

Brooder House a Necessity

We have two brooders, one the hot air, and the other the hot water type. The hot water type is many times over the best of the two. It is safer, healthier, and the air is mild and moist. Many brooder manufacturers say they have a successful outdoor brooder. From my experience a brooder outside in all kinds of weather is not a success for newly hatched chicks.

When starting a brooder the first thing to do is to find a suitable place or building in order to get the brooder out of the wind and weather so you can keep an even heat and keep the brooder lamp from flickering in the wind and possibly going out. For my brooder I built a small house 6 by 6 feet square with the sides 5 feet high. The roof is covered with the cheapest of shingles. I got the cheapest kind of a glass window and made the whole thing airtight. I place the brooder in the shelter across one corner and have the lamp in the corner where it is impossible for the chicks to get to it. On the floor beneath the lamp I lay a piece of zinc to make things fireproof. I heat the water and fill the tank before the chicks are ready, start the lamp and warm up the brooder. My building faces the south and with the glass door it gets plenty of light and a great deal of warm sunshine. I always put the chicks in the brooder early in the morning and shut the door. By night they have become acquainted with the brooder. I leave the door of the brooder open after the first day, permitting the chicks to go in and out of the brooder as they wish. They never get too warm and acquire bowel trouble this way. There is no chance to smother chicks, for as they get warm they will work away from the tank, or come closer if cold. I sprinkle my building floor with chaff and fine sand, making it very easy to keep dry and sanitary. Next I make an outside pen the width of my building. When the weather is nice I let the chicks out thru a small door on the south side so they can sun on the ground. If I have a new hatch in three weeks I move the older ones to a comfortable place and start right over again with the brooder. Mrs. Rosie Burgman.

Oak Hill, Kan.

The Show at Wichita

The poultry show held in Wichita the second week of January was one of the best ever held in the Forum. The books showed that 1,018 birds were exhibited. An unusually large number of farmers visited the show.

The business meeting of the Kansas State Poultry Breeder's association was held Thursday night. More than fifty breeders were present. Three new members of the board of directors were elected: W. H. Ward, Nickerson; C. K. Whitney, Wichita; and G. D. McClaskey, Topeka. The six members of the board who hold over are C. C. Whiteley, Wichita; C. C. Lindamood, Walton; F. W. Ford, Caldwell; Thomas Owen, Topeka; A. J. Waddell, Wichita; and Mrs. Terry Junkins, Osawatomie.

Following the annual meeting the board met and elected A. J. Waddell president, W. H. Ward vice president, and Thomas Owen secretary-treasurer. It was decided to hold the next show in Wichita the second week of January, 1918.

A Law to Help the Kansas Hen

The value of the poultry and eggs marketed in Kansas in the next two years can be increased 10 million dollars if the legislature will allow the Kansas State Poultry Federation to use $10,000 for the advancement of the poultry industry. The Missouri legislature six years ago provided $30,000 for giving the Missouri hen a boost. Four years ago they made the amount $60,000, and two years ago they came up to $100,000.

What has been the result of the poultry campaign in Missouri? Missouri produces more poultry and eggs now than any other state in the United States. The value of Missouri poultry products has doubled in the last six years, and now amounts to almost 100 million dollars a year.

Will Kansas take up this work? If every Kansas poultry raiser who reads the Farmers Mail and Breeze will do his duty in bringing this matter before the members of the legislature there can be but one result.

A larger number of Kansas citizens are engaged in poultry raising, than in any other industry in the state. There are few families in country, town or city, in which there is not someone who is interested in poultry. Poultry is one crop which never fails. Let's give it the consideration which its importance in our economic system deserves.

Ralph Searle.

Try a Little Sprouted Oats

Many persons believe that if they supply a reasonably comfortable house, and a little corn, or whatever grain happens to be available, that there is no excuse for their hens not filling the winter egg basket.

Spring and summer seasons are the natural times for hens to lay and if they are made to lay thru the winter, conditions must be made as near like their natural laying season as possible.

Sprouted grains are the best solution. As a protein or egg-producing feed, oats rank much higher than corn and contain more fat than wheat. Its high proportion of hull to kernel makes it bulky and unpalatable. Sprouting overcomes this difficulty, and also gives the green feed so essential. Oats can be sprouted and fed at 4 to 6 inches high more economically than roots or vegetables can be produced. The time required for the growth is short, the amount of succulent material is large and increased egg production is the result. One hundred pounds of oats can be increased to 350 to 400 pounds of succulent feed.

It is an easy matter to construct a home made sprouter, but unless a warm room is available, and if many birds are to be fed, it is advisable to purchase one of the several reliable sprouters now on the market. C. S. Anderson.

Colorado Agricultural College.

Raise Chicks Without Hens

I am for outdoor brooders. The one that I think the best has the lamp so constructed as to warm the floor of the brooder. That is one of the first steps to keep the chicks free from bowel trouble. This outdoor brooder is large enough to give the chicks plenty of room to be well contented on cold, stormy days. There is plenty of glass in front, and with the lamp the brooder is kept very warm and nice. I remove the chicks from the incubator to the brooder as soon as they all are hatched and strong enough to help themselves about. They can be kept in a brooder in a temperature better suited to their needs than the incubator. The chicks gather around the hover and if they get too warm they can move farther away. As the floor is warm they are contented any place in the brooder. Put a layer of fine chaff over the brooder floor. The chicks will work and be happy and busy as bees. With this brooder you can care for 100 to 150 chicks as easily as one hen and 25 chicks.

Mrs. Martha A. Beckner.

R. 3, Westphalia, Kan.

Hover is Better than Hens

I have used the 160 size hover for 10 years. They were out door brooders but I had coops made 5 by 10 feet and put my hovers in them. Then few storms could change the temperature easily and on bad days the chicks could stay in the coops and go into the hovers to get warm. They soon learn where to get warm. Many persons shut their chicks up on foul days when there is not enough space for them and they give off so much heat and foul air that most of them die. I often get my chicks on the market when 7 weeks old. I now use a stove in the brooder house as I try to hatch 800 at a time. I think brooders are as important as incubators I have 500 purebred hens, but don't let them sit, having no use for a hen to care for chicks. I know from experience that brooders are a success.

Mrs. C. B. Faturn.

Devol, Okla.

Fall Strawberries Did Well

I planted 400 everbearing strawberry plants last spring, and had a few berries in May and June. There was a good crop from the first part of July until freezing weather, despite the fact that we had eight weeks of dry weather during this time. I believe these plants should be grown much more extensively in Kansas. J. N. Wright.

Lyon Co.

Tile drainage is winning on merit.

RESULTS

A CHICK FROM EVERY HATCHABLE EGG. STRONG, HEALTHY, ROBUST CHICKS THAT LIVE! MAKES POULTRY BUSINESS PAY — MATCHES NEAREST OF ALL THE NATURAL PROCESS OF THE SETTING HEN.

THE SECRET OF PROGRESSIVE BIG HATCHING RECORDS

BUILT OF GENUINE CALIFORNIA REDWOOD. Egg chambers surrounded with special insulator having hundreds of air cells, guard against temperature change. Corrugated copper hot-water heater, automatic ventilation and regulation. No dry, hot blasts to kill chicks in shell. Machines complete. Money back guarantee if not satisfied. Big Free Book explains all Special deals.

155 EGG Ready to Use

Progressive Incubator Co. Box 238 Racine, Wis.

$9.85 FOR BOTH

Stop Hatching Weak Chicks WITH CHEAP INCUBATORS

Remember, it is not how many you hatch that counts, but how many you raise. A Queen costs but little more, and the extra chicks that live and grow soon pay the difference.

Queen Chicks Live and Grow

Most of the chicks you lose in the first two weeks die because they did not have proper vitality or strength to start with. Queen Incubators are famous for big hatches of strong healthy chicks that live and grow. The American Poultry Journal wrote us: "During the many years you have been advertising Queen Incubators in our paper we have not, to the best of our recollection, received a single complaint from one of your customers." Catalog free

Prices $8 Up Queen Incubator Co. 1065 S. 14th St. Lincoln, Nebr.

Mail Postal— Learn how easily you can get big money-making hatches even in coldest weather with the

Get More Chicken Money

MANKATO Incubator

$7.25 A bigger bargain than ever—still sells at old price—same high quality redwood case — pure copper tank — double hot water and hot air heat—strong tray. Write today.

Mankato Incubator Co. Box 712 Mankato, Minn.

Poultry Book Latest and best yet; 144 pages, 215 beautiful pictures, hatching, rearing, feeding and disease information. Describes busy Poultry Farm handling 53 pure-bred varieties. Tells how to choose fowls, eggs, incubators, sprouters. This book worth dollars mailed for 10 cents. Berry's Poultry Farm, Box 37, Clarinda, Iowa

When writing to advertisers be sure to mention Farmers Mail and Breeze

Biggest Hatches Strongest Chicks

That's what you will get with my Hatching Outfit—and I can prove it. The whole story is in my big Book "Hatching Facts" in colors—sent Free, write for it. It gives short cuts to Poultry Success—what to do and how to do it. Start one of these wonderful Prize Winning Incubators making money for you.

Over 524,000 Satisfied Users

$8.55 Buys 140 Egg Size World's Champion Belle City Incubator

Hot-water—Double-walled—Copper Tank—Self-Regulating. The Prize Winning World's Champion Model—same as used by Uncle Sam—leading Agr'l Colleges—America's most Successful Poultry Raisers. When ordered with my $4.85 World Famous Hot-water Double-walled 140-chick Brooder, both cost only $12.50.

Freight Prepaid East of Rockies Allowed that far to points beyond

Satisfaction Guaranteed

You can also share in my— $1000 Cash Prizes to customers—conditions easy to get Biggest Prize; order now—the earlier you start, the better your chance to share in the Gold—anyway write today for my big Free Book. Jim Rohan, Pres.

90 Days' Trial I ship quick from Buffalo, Kansas City, Minneapolis or Racine

Belle City Incubator Co., Box 21 Racine, Wis.

Cut Incubator Cost In Half!

Here's your chance! The one that you have been waiting for for years. The incubator that thousands of our customers declare "The equal of $20.00 incubators." Fitted with every modern feature—and built to last a lifetime.

O. K. Hatchers

with centralized heating plant beneath incubator—automatic heat-regulating device—high grade thermostat—big oil tank that requires refilling only once per week.

Do not buy any incubator until you write for the 1917 O. K. Hatcher circular. $10

O. K. Hatcher Co. Dept. Y Des Moines, Iowa

Freight Prepaid

New Kind of Incubator

Wonderful new hatching machine discovered. Poultry profits doubled and trebled. Three-fourths the work, time and money saved. All the worry cut out.

Radio-Round Incubator

Built ROUND—nature's way—like the hen's nest—NO COLD CORNERS. Triple heating system, wonderful new regulator, COMPLETE CIRCUIT radiators, patented heat diffuser MEAN EVEN HEAT all through egg chamber, and only one gallon of oil to a hatch. Radio Vaporizing Moisture Attachment BUILT IN, automatically supplies JUST ENOUGH moisture always. Big oil tank filled ONLY ONCE for entire hatch. Time saving egg tray; hinged cover with glass panels. Send postal today for fine new FREE book which describes in detail the 16 wonderful features of the Radio-Round.

WRITE POSTAL TODAY BOOK FREE

Radio-Round Incubator Co., 164 Main Street, Wayne, Neb.

130 Egg Incubator and Brooder Both For $10

Both Machines Made of California Redwood

If Ordered Together. Freight paid east of Rockies. Hot water copper tanks, double walls, dead air space, double glass doors, all set up complete, or 180 Egg Incubator and Brooder $12.75. FREE Catalogue describing them. Send for it TODAY or order direct. (2)

Wisconsin Incubator Co., Box 143 Racine, Wis.

Feed Pearl Grit

It Makes Hens Cackle

Every cackle means an egg—big, foody, perfectly formed and strong shelled. Grinds the food in the gizzard and mixes it with calcium, for shells and feathers, and with carbohydrates for eggs. The only Double-Purpose grit. Write for free Booklet.

THE OHIO MARBLE CO. 66 Cleveland Street, Piqua, Ohio

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Students earn board while learning. A practical school with railroad wires. Owned and operated by A. T. & S. F. Ry. EARN FROM $55 to $165 PER MONTH. Write for catalogue.

Santa Fe Telegraph School, Desk G, 505 Kansas Ave., Topeka, Kan.

Let a Lot of Sunshine In

Poultry House also Should Have Good Drainage and Ventilation

BY K. J. T. EKBLAW

SANITATION, the keynote of modern building construction, applies with remarkable pertinence to poultry houses. One of the greatest germicides known is sunlight, and, since fowls are crowded into the house in the winter time, it is absolutely necessary that the maximum amount of sunlight be supplied to them. Not only is the sunlight an efficient aid in the destruction of disease germs, but the heat that is carried in with the sun's rays in winter will produce conditions conducive to the maximum egg production. In consequence of this it will be found advisable, in all poultry houses, to so build them that the full amount of sunlight available is utilized. A certain amount of the light will, of course, come in thru the muslin curtained openings, but some glazed openings should be provided thru which the sunlight may come directly.

In addition to the sanitation which can be accomplished by the use of sunlight, there also should be provided a dry dust bath, which will aid in eliminating lice. Other means for maintaining the welfare of the fowls may be employed, such as making provision for easy disinfection in case the fowls become infected with a contagious disease. The floor, if of earth, should be spaded up occasionally and mixed with lime, which in itself is a germicide. The interior of the house should be sprayed with a disinfectant or whitewash, in order to discourage the multiplication of germs and vermin.

From 2 to 5 square feet of floor space should be allowed for every bird. Fresh air should be provided by ventilation rather than by increasing the size of the house. Ventilation can be obtained by means of a few openings under the roof, at the back of the house, which should be filled with straw, so as to prevent drafts. The floor space is dependent upon the breed of birds housed, and the system. Less space is required for birds under the colony system, where they have free range, than with the intensive system, where they have small fenced-in-area. The small breeds, such as Leghorns, require less space than the larger breeds, such as Brahmas.

The large colony house should be set on concrete or wooden posts or concrete walls. If wooden posts are used they should be painted with a good preservative.

Where good drainage is available, dirt or gravel floors are satisfactory. In general, however, a tight board floor, well oiled with an ordinary floor oil to keep down the dust, and well littered with straw, is the most satisfactory. The floor should be raised off the ground a sufficient height to enable dogs or cats to get underneath, so as to prevent the harboring of rats, and also to allow free circulation of air, to prevent the rotting of the floor.

The back and two ends should be tight so as to insure against drafts. The front depends on the type of house. Too much glass should not be used, as it radiates heat very rapidly, and while warm in day time, is cold at night. Light weight muslin or duck, tacked on frames, makes a very satisfactory covering for the openings in the front of the house, as it will permit of free circulation of air without drafts. The front should be sufficiently high to allow sunlight to reach well back into the house during winter.

The roof is a most important part of the house. It must be watertight. Shingle roofs are the most satisfactory. There are several types of roofs. For small houses the shed type is the best. It is the easiest to construct, and it allows a high front to the house. The combination type is adapted for houses over 16 feet and up to 24 feet wide.

In one good type of house, the roosts, dropping boards and nests are placed in the back of one end of the house, separated from the other end by a tight partition. Roosts should be hinged, and placed level. Nests can be placed under dropping boards. In another type of house roosts, dropping boards and nests are placed in the back of house, and protected during severe winter by a muslin or duck curtain, which drops from the roof to within about 1 foot of the floor.

Any durable lumber available can be used for the construction of the house. The outside should be well seasoned to prevent excessive shrinking. Shiplap is very satisfactory for floors and sides of houses, as it can be laid up quickly and makes a tight floor or side. For floor joists and studding 2 by 4's can be used. For roof rafters, 2 by 4's or 2 by 6's can be used, depending on the type of house.

Painting adds both to appearance and service. Ready mixed paints can be purchased. On new lumber a priming coat, made of equal parts of paint and linseed oil, should be used, and then covered by one or two coats of paint. Whitewashing the interior of the house adds to its appearance, and is a great assistance in keeping the house clean and fresh. An excellent whitewash disinfectant can be made as follows:

1 peck unslacked lime.
2 pounds common coarse salt.
1 gallon crude carbolic acid—dilute to 40 gallons with water.

Comforts of Home for the Hens

The ideal winter poultry house is dry, free from drafts, and well ventilated. Proper ventilation does not mean sacrificing warmth or comfort in a properly designed house. The importance of good ventilation cannot be overestimated. Poor ventilation soon results in a decrease in the egg supply, and in diseases in the flock.

A good earth floor raised 6 inches above the surrounding ground makes a dry surface for the hens. A dropping board should be placed under the roosts. The house should face the south if possible, and should be well supplied with windows. Wire netting may be tacked over them for protection.

Do not crowd the chickens in the house. Four square feet should be allowed for every hen. Crowding, dampness and drafts kill more grown fowls than all other causes combined.

If you have a well built house, a flock of good hens, and use proper feeding methods and common sense there is no reason why your flock should not pay you a handsome profit for the time and money invested.

Albert L. Hunsake.

Crop rotation pays in Kansas.

Some of the Windows Should Be of Glass and the Remainder Should Be Open With the Exception of Wire Netting and Burlap Drop Curtain for Bad Weather.

Ironclad TRADE MARK Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only $11 we guarantee to deliver safely, all freight charges paid (East of Rockies), BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an IRONCLAD — the incubator that has for two years in succession won the greatest hatching contest ever held? In the last contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2,000 Machines were entered including practically every make, style and price. With the Ironclad — the same machine we offer with Brooder freight, paid for only $11, Mrs. C. F. Merrick, Lockney, Texas, hatched 148 chicks from 148 eggs in the last contest.

150 EGG ironclads are not covered with cheap, thin metal and painted like some do, to cover up poor quality of material. Ironclads are shipped in the natural color—you can see exactly what you are getting. Don't class this galvanized iron covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering, galvanized iron legs, large egg tray, extra deep chick nursery — hot water top heat, copper tanks and boilers, self regulator, Tycos Thermometer, glass in door, set up complete ready for use and many other special advantages fully explained in Free Catalog. Write TODAY or order direct from this advertisement.

Galvanized Iron · Asbestos · Redwood · Insulated Board · 10-Year Guarantee

Both for $11 Freight Paid East of Rockies

30 Days Free Trial
Money Back if not Satisfied

IRONCLAD INCUBATOR COMPANY, Box 107, Racine, Wis.

Get My Big 1917 Special Offer

It will help you get a Rayo Incubator this season at little or no cost. Most liberal offer ever made to poultry raisers. No soliciting. No canvassing. Just a plain business offer. There's money in chickens these days. Keep your hens laying and let a Rayo do the hatching. That's the money-making way. You'll get enough more eggs doing it to pay for the machine. Our Free Service Department will help you. Write for catalog, sure.

RAYO Center Heated INCUBATORS Give Bigger Hatches at Less Cost

An incubator is just as essential to successful poultry raising as a plow is to successful farming. Your success is made more certain still when you buy the Rayo. Its nine-year wonderful hatching record and low operation cost make it the ideal machine. It has many new, special, exclusive features that make it just the machine you want.

Six Big Features
Center Heating System, Double Pane Glass Top, Special Ventilation and Moisture Arrangement. Best of all, takes only 1 gallon of oil and 1 filling of tank to a hatch. Saves time, labor and money.

Get FREE Catalog
Explains our many special features. Tells a lot of valuable incubator and poultry-raising facts. A postal brings it to you postpaid, and with it our unusual special offer. Address

D. M. DAVIS, Pres., RAYO INCUBATOR COMPANY, U. D. Sta. 4723 Omaha, Neb.

1 Gallon of Oil-1 Filling of Tank to a Hatch

Have You Poultry or Eggs for Sale?

If so, then you will be interested in the announcement that the February 3 issue of Farmers Mail and Breeze will be the 11th Annual Poultry Number. It will be as good—and perhaps better—than any of its predecessors—and that's saying a good deal.

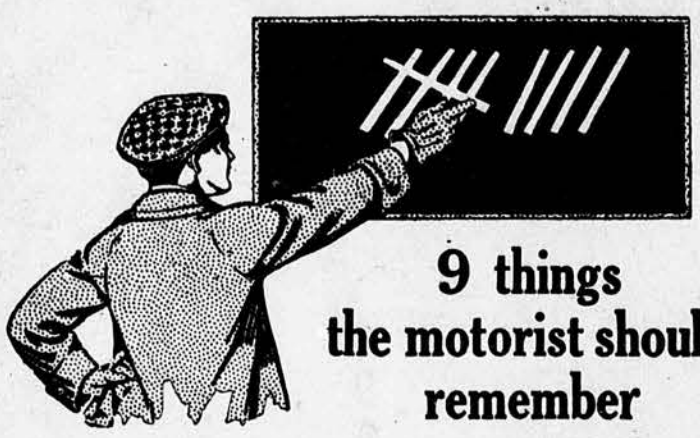
New Poultry Rates
Single insertion .....6 cents per word
Four insertions or more.....5 cents per word each time

You can't afford to pass up this issue. Send in your advertisement today, before you overlook it.
Forms close January 29—the 30th will be too late.

Address Farmers Mail and Breeze, Topeka, Kansas.

WHEN you gentlemen get together at your lodge meetings, somebody is pretty sure to start the little pouch of W-B CUT up the line for his brothers. It's conducive to brotherly feeling. There is gratitude for the *rich* tobacco that makes a *little* nibble go so *far* and for the touch of salt that brings out the *tobacco satisfaction* without so much jaw work.

Made by WEYMAN-BRUTON COMPANY, 50 Union Square, New York City



9 things the motorist should remember

1. One of your smallest expenses — lubrication — is your chief safeguard against your heaviest expense — depreciation.

2. Friction is relentless.

The effects of the incorrect oil will not be apparent during the first piston stroke or the second. But when piston strokes run up into the millions—and that does not take long—friction begins to get its due. You need not *look* for the effect of wear then. You can *hear* it.

3. Worn motors never "come back."

4. If given intelligent care and scientific lubrication, your car should run better the 2000th mile than the first.

5. No matter how freely a low quality or wrong-bodied oil is used it can never do the work of the correct lubricant.

6. No one oil will suit all cars. This is absolute.

7. You selected a car that suits you. Now select an oil that suits your car.

8. Though you may *want* correct lubrication, you will seldom stumble on it by chance.

9. The Lubrication Chart, printed in part below, was prepared only after an engineering analysis of every American car and the leading foreign makes. It is revised yearly to include each season's new models. It represents our professional advice and specifies the correct oil for your car.

GARGOYLE

Mobiloils

A grade for each type of motor

In buying Gargoyle Mobiloils from your dealer, it is safest to purchase in original packages. Look for the red Gargoyle on the container. For information, kindly address any inquiry to our nearest office.

CORRECT AUTOMOBILE LUBRICATION

Explanation:—The four grades of Gargoyle Mobiloils, for gasoline motor lubrication, purified to remove free carbon, are:

Gargoyle Mobiloil "A" **Gargoyle Mobiloil "E"**
Gargoyle Mobiloil "B" **Gargoyle Mobiloil "Arctic"**

In the Chart below, the letter opposite the car indicates the grade of Gargoyle Mobiloils that should be used. For example, "A" means Gargoyle Mobiloil "A," "Arc" means Gargoyle Mobiloil "Arctic," etc. The recommendations cover all models of both pleasure and commercial vehicles unless otherwise noted.

Model of	1917		1916		1915		1914		1913	
CARS	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
Abbott-Detroit	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	A	Arc
" " (8 cyl)			A	A	A	A				
Allen	A	Arc	A	Arc	A	Arc	A	A	A	A
" (Mod. 33-34-35)					A	Arc				
Apperson	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
" (8 cyl)	A	A	A	A						
Auburn (4 cyl)			A	Arc	A	Arc	A	A	A	A
" (6 cyl)	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc		
Avery			A	A	A	A	A	A	A	A
" (Mod. 5 & C 1 ton)			Arc	Arc	Arc	Arc	Arc	Arc		
Briscoe	A	Arc	A	Arc	A	Arc	A	Arc		
" (8 cyl)			A	A						
Buick	Arc	Arc	Arc	Arc	Arc	Arc	A	Arc	A	Arc
Cadillac							Arc	Arc	Arc	Arc
" (8 cyl)	A	A	A	A	Arc	Arc				
Case	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Chalmers			Arc	Arc	Arc	Arc	A	A	Arc	Arc
" (Mod. 6-40)			A	Arc						
" (Mod. 6-30)	A	A	A	A						
Chandler Six	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc		
Chevrolet	Arc	Arc	Arc	Arc	Arc	Arc	A	Arc	A	A
Cole			Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
" (8 cyl)	A	A	A	A	A	A				
Dart	A	Arc	A	Arc	Arc	Arc	A	A	A	Arc
" (Mod. C)	A	Arc	A	Arc	A	Arc	A	A		
Detroiter	Arc	Arc	Arc	Arc	A	Arc	A	A	A	Arc
" (8 cyl)					Arc	Arc				
Dodge	A	Arc	A	Arc	E	E				
Dort	A	Arc	A	Arc	A	Arc				
Empire (4 cyl)	A	Arc	A	Arc	Arc	Arc	Arc	Arc	Arc	Arc
" (6 cyl)	Arc	Arc	Arc	Arc						
Federal	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Ford	E	E	E	E	E	E	E	E	E	E
Franklin	A	A	A	A	A	A	A	A	A	Arc
Grant	A	Arc	A	Arc	Arc	Arc	Arc	Arc		
Haynes	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
" (12 cyl)	A	A	A	A						
Hudson			Arc	Arc	Arc	Arc	Arc	Arc	A	Arc
" (Super Six)	A	Arc	A	A						
Hupmobile	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
I.H.C. (air)					B	A	B	A	B	A
I.H.C. (water) (2 cycle)			A	A	A	A	A	A	A	A
I.H.C. (water) (4 cycle)			A	Arc						
Interstate	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Jeffery	A	Arc	A	Arc	A	Arc	A	A		
" (6 cyl)	A	A	A	Arc	A	Arc				
" Com'l.	A	Arc	A	Arc	A	Arc	Arc	Arc	Arc	Arc
King					A	Arc	A	A	A	E
" (8 cyl)	A	A	A	A	Arc	Arc				
" Com'l	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc		

Model of	1917		1916		1915		1914		1913	
CARS	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
Kissel Kar	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
" " Com'l	A	Arc	A	Arc	A	Arc	A	Arc	Arc	Arc
" " (Mod. 48)			A	A	A	A	A	A		
Lexington	Arc	Arc	Arc	Arc	Arc	Arc				
Locomobile	E	E	E	E	E	E	E	E	Arc	Arc
Marmon	A	A	A	A	A	Arc	A	Arc	A	Arc
Maxwell	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Mitchell	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Mitchell (6-cyl)			A	A						
Moline Knight									A	Arc
"	A	A	A	A	A	A	A	A		
Monroe	A	A	E	E	A	Arc				
Moon (4 cyl)					Arc	Arc	A	Arc	Arc	Arc
" (6 cyl)	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc		
National	Arc	Arc	A	Arc	A	Arc	A	A	A	A
" (12 cyl)	A	A	A	A						
Oakland	Arc	Arc	Arc	Arc	Arc	Arc	Arc	A	Arc	
" (8 cyl)			A	A						
Oldsmobile			Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
" (8 cyl)	A	A	A	A						
Overland	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Packard					A	Arc	A	Arc	Arc	Arc
" (12 cyl)	A	A	A	A						
" Com'l	A	A	A	A	A	A	Arc	Arc	Arc	Arc
Paige					A	Arc	A	A	A	E
" (6-46)	Arc	Arc	Arc	Arc	Arc	Arc				
" (6-36 & 38)	A	Arc	A	Arc	A	Arc				
Pathfinder	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	A	Arc
" (12 cyl)	A	A	A	A						
Peerless	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
" (8 cyl)	A	A	A	A						
Pierce Arrow	A	A	A	A	Arc	Arc	Arc	Arc	Arc	Arc
" " Com'l	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Premier	A	A	A	Arc	A	Arc	A	Arc	A	Arc
Royal	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
" (8 cyl)	A	A	A	A	Arc	Arc				
Reo	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Saxon	E	E	E	E	E	E	E	E		
Stearns-Knight	A	A	B	A	B	A	B	A	A	A
" " (8 cyl)	A	A	B	A						
Stephens	Arc	Arc	Arc	Arc						
Studebaker	A	Arc	A	Arc	Arc	Arc	A	Arc	A	Arc
Stutz	A	A	A	A	A	A	A	A	Arc	Arc
Velie (4 cyl)					A	Arc	A	Arc	A	Arc
" (6 cyl)	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc		
Westcott	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	A	Arc
White	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Willys-Knight	A	A	B	A	B	A	A	A		
Willys-Six	Arc	Arc								
Winton	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc

YOUR TRACTOR

also may be lubricated efficiently with Gargoyle Mobiloils. On request we will mail you a separate Chart specifying the correct grade for each make and model of tractor.

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Women Can Co-operate

BY MRS. DORA L. THOMPSON
Jefferson County

Readers of Today's Magazine may remember the series of Peggy stories that were given about a year ago. Peggy was a nurse who married a doctor. She vowed she would keep up her work as nurse, assisting her husband in his surgical work. Under the care of one maid after another, her housework suffered, her little boy ran away and couldn't be found for hours, and, as one might expect the scheme didn't work. Quite by accident, she discovered a neighbor with a talent for housekeeping who could be hired for two hours a day; another neighbor developed into a professional gardener. When Peggy's sister who had a "knack with children" offered to take charge of Peggy's, the gardener's and the housekeeper's babies in return for money, vegetables and help there was started a scheme of co-operation that proved very successful. Peggy's share, of course, was money in exchange for the work of the others.

In our neighborhood where good help is almost unattainable we have been forced into a sort of community co-operation. Nellie Kedzie Jones says: "What is co-operation but old-fashioned neighborliness? Co-operation is simply neighborliness in the large." And we like to think of our work-exchanges in that light. As our plan has been tried since early summer, we may say it has proved to be very satisfactory. Butter is not easily made in summer. But one neighbor with good skill and equal facilities agreed to supply another with butter in exchange for music lessons for her two daughters.

Laundry work is not an easy task in the country or anywhere, for that matter. It is not so difficult to hire it done in town, however. In the country, few capable women will leave their homes and do the laundry work in another home. One would often spend as much time on the road as would be required to do the work if he took the laundry and went for it when the work was done. In our work-exchange, a negro laundress at some distance, agreed to do the laundry work if her adopted daughter could be entered on the list of music pupils. Further still, a capable girl of 16 years often has given a day's work for a lesson in music. The butter has been the means of paying for laundry work and so the "division of labor" has gradually been extended. Probably many farm communities could use such a scheme in other lines of work.

Many school girls have the ability to tat or crochet. It is quite a fad in our country schools. Especially on stormy days when outdoor play is unpleasant, it is no uncommon sight to see 10 or 12 school girls seated around the school stove, swinging the tatting shuttle. Some of the girls' parents feel that they cannot afford to pay for music lessons for them. There are doubtless, many women with knowledge of music who would gladly train the girls in exchange for some of their handiwork. We don't think of this as a return to the old barter system that preceded the use of money, but merely as a scheme to make the most of neighborhood opportunities.

Three Granges in this locality are going to hold a joint installation in Midland. They will have an all day session and a basket dinner. The advantages of such a union meeting extend beyond the regular Grange work. Men are likely to meet at public sales and talk over the subjects of interest they have in common. Women have not so many opportunities. For them these Grange meetings are a real pleasure. Motor cars have much to do with increasing the number of such meetings. The members often drive more than 20 miles. Even bad roads and bad weather have not prevented a full attendance.

Another word about the hot luncheon in the country school may not be out of place. The county superintendent of Douglas county was quoted in a Lawrence paper as saying that many schools in the county are trying the hot luncheon plan with a good deal of satisfaction. The mother of children attending a school where the hot luncheon plan has been in use for two winters wrote that it has several advantages. The general health of the children seems better and they do not catch cold so readily. Another marked improvement is noticed when the children return from school. Instead of rushing to the pantry or clamoring for a "hand out," they are quite content to wait for an early supper. "And," she added, "It's supper now, not 6 o'clock dinner." We often used to think we must serve the heaviest meal of the day in the evening and when this was not well planned, the children were restless all night. It makes a little more work in the morning to send the things needed for the dinner but this is more than offset by the lesser work in the evening. "For our part," the writer concluded, "we think it's 'just the thing.'"

Recipes without Eggs

Doughnuts—Into 2 cups of warm mashed potatoes stir 2 cups of sugar, 1 cup of sweet milk, 2 tablespoons of melted lard, ½ teaspoon of nutmeg, a pinch of salt and 3 level teaspoons of baking powder sifted in flour enough to make a soft dough. Roll the dough ½ inch thick, cut out and fry in hot lard. Drain on crumpled tissue paper and roll the doughnuts in powdered sugar.

Ginger Cake—Mix together 1 cup of molasses, 1 cup of boiling water, 2 tablespoons of melted butter, 1 teaspoon each of cinnamon and soda, ½ teaspoon each of cloves and ginger and 2½ cups of flour. Beat until light and foamy and bake in two thick layers. Put together with fudge icing and serve warm. Shredded cocoanut or chopped nuts and raisins are good additions to this cake.

Nut Brown Bread—Sift together 2 cups of Graham and 1 cup of white flour, ½ teaspoon of salt and 2 rounding teaspoons of baking powder. Add 2 tablespoons of molasses, 1 tablespoon of brown sugar, ½ cup of nut meats, ½ cup of chopped raisins or dates, and enough sweet milk to make a stiff batter. Beat thoroly, pour into well greased pans and bake slowly for about an hour.

A Name in the Sand

Alone I walked the ocean strand;
A pearly shell was in my hand:
I stooped and wrote upon the sand
My name—the year—the day.
As onward from the spot I passed,
One lingering look behind I cast;
A wave came rolling high and fast
And washed my lines away.

And so, methought, 'twill shortly be
With every mark on earth from me:
A wave of dark oblivion's sea
Will sweep across the place
Where I have trod the sandy shore
Of time, and been, to be no more,
Of me—my day—the name I bore,
To leave no track nor trace.

And yet, with Him, who counts the sands
And holds the waters in His hands,
I know a lasting record stands
Inscribed against my name,
Of all this mortal part has wrought,
Of all this thinking soul has thought,
And from these fleeting moments caught
For glory or for shame.

—Hannah Flagg Gould.

Gasoline Kills Germs

Gasoline is a good disinfectant for the treatment of wounds in emergency cases, says Dr. Dorothy Childs of the University of Kansas. This is useful to know in cases of motor car or motorcycle accidents when first aid treatment must be given in a hurry and no medical supplies are at hand. The value of gasoline in cleansing wounds has been demonstrated on the European battlefields, and it is especially good if the wound is lacerated or the skin was dirty when the wound was made. After washing the wound with gasoline, paint with a tincture of iodine if any is at hand.

The Scorch Comes Out

Scorched clothes, if not burned too much, may be made all right by the use of onion juice. Bake the onion and squeeze out the juice. Mix it with an ounce of Fuller's earth, a small quantity of shredded soap and a small glass of vinegar. Heat the mixture until the soap is dissolved and cool before using. Rub it over the scorched place. Leave it to dry and then put the garment in the regular wash.

A Way to Save Washing

For my little girls I make black sateen bloomers to be worn over their winter union suits. They look neat and help to keep the underwear clean and are easy to launder. I make the bloomers without a waistband, putting a narrow hem at the top thru which is run a flat elastic cord. This does away with an extra underwaist.

Mother of Three.
Republic Co., Kansas.

When the Stormy Days Come

Work off Children's Surplus Energy with Well Chosen Games

BY ANNA MAE BRADY

OUTDOOR play is best for children when the weather permits, but there are so many cold, stormy days when children must amuse themselves in the house that it is well for mothers and teachers to have a list of games ready to suggest at any time. We must not make the mistake of giving too many games for that leads the children to expect always to be entertained and it is better for them to learn more and more to depend on their own resources for amusement. Plays and games usually are given to provide an outlet for the stored up energy of the child, but they have other uses as well. One is to develop skill, another is to teach some truth, and still another legitimate one is to give pleasure.

Start the stormy afternoon with games full of action to work off surplus energy, and see that the room is cool and well ventilated while these games are in progress. Then try games of skill to see who is the "best man." Games that make children think are real fun after the other kind. End with the quiet game to put the children into a good frame of mind to help with supper or do the chores. The games given here have proved popular with most children who tried them.

Potato Shoot—Let the children make bows and arrows. They should not be very large and the arrows should be sharp. Set up a row of potatoes on a table against a wall where there is nothing breakable, measure off 8 feet from the row, mark a base and let each contestant stand on this base and try to shoot the potatoes. He has two trials and then lets the next player take a turn. Every potato hit counts 5 points. The game is 50 points.

Spool Race—Gather up all the empty spools you can find and divide them in two groups, then place a mark 12 feet from them. Two children compete at a time. At the given signal each places a spool on the palm of his left hand, walks quickly to the mark, touches it, comes back, adds another spool to the one on his palm and goes back to touch the mark again. If one drops a spool he is out of the race and the other wins but if neither drops any, the winner is the one who is carrying most spools on his hand at the end of a given time, say 3 minutes.

Marble Game—Make a frame of stiff cardboard or of wood with props at the back so that it will stand erect. In the bottom of the frame cut several holes large enough for marbles to slip thru and place a number over each hole, as 5, 10, 15 and so on. The children choose sides and the frame is placed on a smooth floor or at the far end of a table. A place is marked as the base from which to shoot and every contestant has one trial in turn. If his marble goes thru one of the holes, the scorekeeper gives him credit for that number. The game is 100 points and the side winning that number first wins.

Bean Bag Game—Fasten a hoop to the end of a 6-foot stick and fasten this stick to the wall. Make a mark directly under the hoop and another 4 feet in front. The player stands on the outer mark, tosses a bean bag thru the hoop and runs to the other mark to catch it as it comes down. Every time he catches it counts 100. The game is 1,000 points.

Guessing Game—Let the children sit in a circle on the floor. The leader chooses some bird or animal to represent and gives the characteristics of it, then the others guess what it is. For instance, one child says, "I come in the spring, I eat worms, bugs and berries. I have a red breast. Who am I? The one guessing correctly is the leader for the next time.

Quiet Game—The children sit in a circle on the floor and one is chosen as a leader. At a given signal, all close their eyes and listen to see how many different sounds they can hear. The leader goes on tiptoe from one to the other and each whispers the different sounds he heard, as the ticking of the clock, the whirr of the windmill, and so on. The one hearing the most wins.

A Dress That's New

A pretty model for the small girl's early spring dresses is shown here. The dress is of plain color pink or blue linen or gingham with collar, cuffs and belt of white. A touch of embroidery the color of the dress gives style to the belt and the tabs buttoning over the belt

above the box plaits of the skirt are most effective. The pattern, No. 8112, is cut in sizes 4, 6, 8 and 10 years. It may be ordered from the Pattern Department of the Farmers Mail and Breeze, Topeka, Kan. Price 10 cents.

Ferns Like Winter Sun

Ferns should be set in a sunny window in the winter, says Albert Dickens, professor of horticulture in the Kansas State Agricultural college, altho they do best in partly shaded places in the summer. There should be moisture in the air of the room in which ferns are kept and consequently it is well to keep a pan of water on the radiator or stove. Winter is the resting time for ferns and they should not be expected to make great growth. An occasional bath to wash the dust from the leaves and help control insect pests is excellent for ferns.

Scale insects are found on the backs of the fronds and must not be mistaken for spores which are soft and powdery. The scale insects may be washed off with soap and water or a kerosene emulsion.

The fronds grow by unrolling. The tip is tender and if brushed against and broken off the frond dies. All brown leaves should be removed from the plant. When the fern becomes root bound, it should be transferred to a larger pot.

The best soil for ferns is made up of 2 parts of rich garden loam, 1 part of sand, and one part of peat or leaf mould.

Set hot cake pans on a damp cloth as soon as they are taken from the oven and after standing for a few minutes, the cake will come out of the pan without sticking to the bottom or sides.

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Save miles of steps—cut kitchen work in half.

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That hard, exhausting kitchen work robs women of health and looks. STOP IT!

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The oval picture above shows the features that are most important. The storage space is above and below, *with places for 400 articles at your fingers' ends.*

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GENTLEMEN:—I have today received your check for $406.29 and paid up policy for $1,000.00 in settlement of my policy No. 4156. I am very well pleased with the settlement, as I have only paid in this policy in twenty years $542.00, and have nearly all of this returned and am still protected for $1000.00, without further payments. Agents of other companies in the past suggested that I was foolish for carrying the policy, as I could not expect to get a good settlement out of a small company. I don't think any of the larger companies can show any better settlement.
Yours very truly,
JOHN O'MALLEY.

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Old Line Bankers Life Insurance Company
of Lincoln, Nebraska

Name of Insured.....John O'Malley
Residence..... ....Phoenix, Arizona
Amount of Policy.....$1,000 00
Total Premiums Paid Company 542 00

SETTLEMENT
Total cash paid Mr. O'Malley....$406 29
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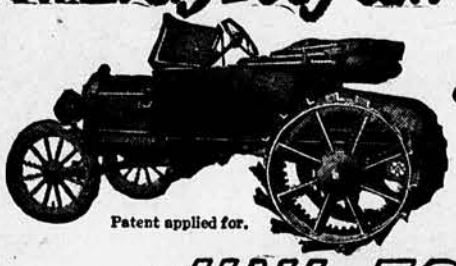

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You know just what your Ford will do—how good it is for work and how cheap it is to run. You know how it stands up. Well, then you know just what you can get out of the power plant of your UNI-FORD because that power plant is your own Ford.

You can be just as confident of the durability and ruggedness of the UNI-FORD attachment because it has no delicate parts to get out of order—just heavy gears and steel frame and braces, built for rough work.

Your Ford is practically on a treadmill. *It* doesn't do the work. It simply *runs the machinery* that does the work. Take off the Ford rear wheels, put on two small hardened steel pinions in their place. These pinions drive an internal gear attached to the rim of the tractor wheels. Run your Ford *on high gear*, the pinions run the Tractor wheels around and give you the big power at plowing speed. All the work comes on the UNI-FORD and *none* on the Ford.

The gears change the ratio of your Ford motor to the tractor wheels so that *when your Ford engine is turning over at the rate of 18 miles an hour road driving on high gear, your tractor is only running at the rate of 2¼ miles an hour.* This means that you can *start* and run all the time *in high gear* and have your motor turning over at a speed that is easy for it. Finally, anyone who can handle a wrench can put the UNI-FORD attachment on a Ford in 2 hours without removing the Ford body and you can take it off and turn your car back into a pleasure car in less time than that.

Act Quick or Big Demand Will Freeze You Out

Don't be caught napping. Thousands of farmers are reading this ad right now—knowing that it is just what they have been waiting for—tearing off the coupon and sending in their money. *We confidently expect to sell every UNI-FORD Unit we can build at a price of $98.50 in the next 60 days*—so clip off this coupon and get it back *quick.*

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UNI-FORD TRACTOR CO. Joliet, Illinois

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(Put X in front of information you wish.)

☐ Reserve without obligation to me a UNI-FORD attachment until I can get more information from you about it. Send me full information.

☐ Send me full literature telling all about the UNI-FORD Tractor. [M. & B.-1]

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The Farmers Mail and Breeze's Gift to You

The shrubs we send you are about a foot high, the best size to plant. They grow rapidly, increasing in beauty from year to year, attaining in a short time the following size:

Golden Bell. Very tall and beautiful. 12 to 16 ft.
Barberry. Neat, dense and spherical. 4 to 5 ft.
Deutzia. Profuse, showy double bloomers. 6 to 8 ft.
Sweet Shrub. Quick growers, spicily fragrant. 4 to 5 ft.
Snowball. Stately and imposing. 6 to 8 ft.
Rose of Sharon. Heavy variegated bloom. 10 to 12 ft.

Nine Months of Fragrant Flowers in Every Year

Your home will be surrounded by a bower of fragrant flowers all the year, except for a few months in the winter. Very early in the year, even before the snow is gone, the **Golden Bells** are covered with rich golden flowers. Shortly afterward the **Barberry** blazes out in a mass of canary, quickly followed by the delicate yet massive rose blooms of the **Deutzias.** Midsummer brings the rich chocolate red flowers of the **Sweet Shrubs,** which bloom at intervals until snow. Then the **Snowballs,** with their stately white flowers and finally the luxuriant bloom of the **Rose of Sharon** is added to the scene. Even when winter's icy touch banishes the flowers, the brilliant red and yellow, brown and gold of the foliage, and the red berries of the **Barberry** (which remain through the winter) remind us that in but a few short months the flowers will return in greater beauty.

Our "12 Shrub" Offer

We will send this collection of Twelve Hardy Shrubs, Postpaid, as a Premium with a One-Year Subscription to FARMERS MAIL AND BREEZE at $1.00 and 30 cents additional, or $1.30 in all. This covers all charges, for both the magazine and the Shrubs.

CUT THIS AD OUT, write your name and address below, and send with $1.30 to

Our 12 Shrub Collection

This big collection consists of these hardy one-year shrubs.

2 Golden Bell (Forsythia)
2 Thunberg's Barberry
2 Deutzias
2 Sweet Shrub (Cal'thus)
2 Snowball Hydrangeas
2 Rose of Sharon

They are securely packed, and sent to you Postpaid, with full instructions for planting.

Farmers Mail and Breeze, Shrub Dept. Topeka, Kan.

Gentlemen:—I enclose $1.30 for FARMERS MAIL AND BREEZE One Year and the 12 SHRUBS as listed in this ad, all charges paid.

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Dolls Like Pretty Things

You Can Make a Bedroom with Paper and Paste

BY ANNA MAE BRADY

YOUR DOLL needs a bedroom the same as you do and you can make her one easily. Get a wooden box the size you wish for the room and take off one side. Be sure the nails are pulled out and scrub the box clean so your house will be neat. Paper the sides with light blue wall-paper or with any color of paper your mother happens to have. If you can find nothing but plain white paper, color it with water colors, putting in a design of deeper blue for the border. Cut some suitable pictures from magazines and paste on the walls and draw a window on one side with crayons. make the furniture of a rather stiff white paper. For it you will need paper, scissors, pencil, ruler and paste. First you must learn to make the 16 squares for most paper furniture is made in that way. Fold the two edges of a square of paper together and crease. Fold the lower edge to the center and crease, then the upper edge to the center and crease. Do the same with the other side and you will have the 16 squares.

Make Furniture, too.

Now for the bed. Cut an 8-inch square of paper and fold it into 16 squares. In the lower left-hand corner cut the first square down to the first crease. Do the same in the lower right-hand corner, the upper right-hand corner and the upper left-hand corner. Fold the two middle squares up both top and bottom to make the head and foot of the bed and cut fancy posts. Fold another 8-inch square of paper. Cut off two squares and paste over the loose squares at the head and foot. Cut the legs and make a spread of some white cloth fringed at the sides.

You Should See My Doll's Bedroom.

For the back of the dressing table cut a piece of paper 4 inches by 5 inches. Cut fancy posts at the top. Then fold another piece of paper 4 inches square into 16 squares. Fold over the edge of one side and paste to the back for the shelf and drawers. Cut the legs, having the front and back ones alike. Paste small strips of paper from the front leg to the back leg to help strengthen the table. Fringe a strip of blue cloth for the dresser scarf and the table is ready for use.

Of course, your doll will want a chair and for it cut a 5-inch square of paper and fold into 16 folds. Cut off the upper two squares on each side and cut each of the lower end squares on the crease up to the first crease. Fold under and paste. Cut the legs and make the back fancy, if you wish.

Cut a 5-inch square of paper for the table and fold it into 16 squares. Cut the lower and top corner squares up to the crease, fold under and paste. Cut the legs and make a table scarf to match that of the dresser.

Now for the Rug.

You can make a rug for the floor, too. Cut a heavy pasteboard 6 inches by 9 inches. Make a dot every ¼ inch across the top and bottom, then with sharp scissors cut out these dots. This leaves little points along the top. Tie a white cord to the end point, around the end point at the bottom, then the next top one, and so on. When you reach the other side tie the string as you did at first. Tear strips of white cloth about ½ inch wide and weave them over and under, over and under, down 1½ inches. Then weave 1 inch of plain blue strips. Do the same at the other end and weave in the center of plain white.

Would You Like a Prize?

You've all heard the story of how when Abraham Lincoln was a clerk in a store he made a mistake and gave one of his customers a few cents less change than he should have and then walked several miles to the woman's home after the store had closed to give her what was due her. That was one of the reasons he was called "Honest Abe." It isn't long now until we shall celebrate Lincoln's birthday again and the Farmers Mail and Breeze wishes the boys and girls to tell the stories they know about this great man. Perhaps some of you have grandfathers or great-grandfathers who knew "Honest Abe" and have told you many interesting stories about him. There will be a camera or a large flashlight for the best letter and a gold signet bracelet or a small flashlight for the second best letter received by January 31. Address your letters to the Children's Editor, the Farmers Mail and Breeze, Topeka, Kan.

Trapping for Skunk

I have had much success in trapping this season. My nephew and I were out early one morning when it was still dark. Suddenly we heard a noise in the grass and there was a great big short striped skunk. We followed him for about 2 miles and killed him with a stone. I sold the fur for $5.50.

I had a muskrat in my trap the next morning and then took my dog and hunted for a hole which I could dig out. Finally the dog began sniffing and barking and I saw a hole. I dug down 12 feet and then lost the hole but the dog dug it open again and I found five skunks in it. I received $4.50 each for them. Lawrence N. Youngers.

Willowdale, Kan.

One on Mr 'Possum

My brother and I have caught 65 muskrats, six civet cats, one skunk, and one large 'possum and four smaller ones. We were keeping the 'possums until colder weather when their fur would be better. My brother went to look at the traps one morning and brought back an extra large 'possum. We took him to where the other 'possums were and were greatly surprised to find they had escaped during the night. We examined the 'possum and found him to be the large one which we had supposed was shut in the box. As soon as he had made his escape he started for the creek and was unlucky enough to be caught once more in the same trap. We searched for the other four 'possums that night but found only one of them. Ira Madison.

Kingman, Kan.

A Geography Puzzle

Perhaps you will have to get out your geographies to find the answers to this puzzle. A package of postcards for the persons sending in the first five correct replies. Address your answers to the Puzzle Editor of the Farmers Mail and Breeze, Topeka, Kan., by February 6.

1—What river in Minnesota is the name of an animal?
2—What lake in Utah is a mineral?
3—What city in Idaho is a fish?
4—What town in Mississippi is an imaginary line around the earth?
5—What high ground in Oregon is very expensive?
6—What city in Florida is a body of water?

The four montain ranges in the puzzle in the December 23 issue are Adirondacks, Appenines, Himalayas, and Ozarks. Prize winners are Eva Campbell, Martha Smith, Howard Bowen, Homer Bolinder, and Rosa A. DeWald.

Burns may be relieved instantly by the application of olive oil or sweet oil mixed with lime water. Pour a few drops of the oil into a saucer and add the lime water slowly, beating constantly. Thicken to a paste adding more of each ingredient until the desired amount is reached.

My Best Chum

I'm chums with all th' fellers around this end o' town;
There's only one among 'em that ever put me down.

I'm fond o' Bill an' Lefty, an' Toots, an' all the rest,

But that don't make no diff'rence; I like my dog th' best.

He never steals my marbles like other fellers do,
An' when I get a lickin' he allus feels bad, too.

An' when we go a-swimmin' he don't throw mud at me,
'An never hides my jacket inside er hollow tree.

I'm friends with all th' fellers; they're fine fer playin' ball—
But when it comes to chummin', my dog's th' best of all.

—Stuart Taber in Our Dumb Animals.

STATE AGRICULTURAL LIBRARY 19 JAN 17

For Your Next Party

A magazine contest is a good game for a church social or a home party. Number the sentences given below and pin them in different parts of the room. Give each guest a pencil and a sheet of paper on which are the numbers from 1 to 22. The answer to each sentence is a common mazazine. The person getting a correct list of magazines first wins a prize.

1—One hundred years old.
2—Santa Claus.
3—An eminent minstrel.
4—What a rich man is.
5—Veracity.
6—One who sketches.
7—A noted fairy.
8—Sailor's hoodoo.
9—Dispenser of justice.
10—A prospect.
11—What we cling to.
12—A citizen of the world.
13—A boy's jack knife.
14—Hash.
15—A needle book.
16—Prosperity.
17—Money the trusts want.
18—Resident of New York.
19—What we are proud to be.
20—What we should take every year.
21—Our coming men.
22—What dudes try to set.

The answers are: 1, Century; 2, St. Nicholas; 3, Harper; 4, Independent; 5, Truth; 6, Delineator; 7, Puck; 8, Black Cat; 9, Judge; 10, Outlook; 11, Life; 12, Cosmopolitan; 13, Youth's Companion; 14, Review of Reviews; 15, Woman's Home Companion; 16, Success; 17, Everybody's; 18, Metropolitan; 19, American; 20, Outing; 21, American Boy; 22, Style.

Why Men Lift Their Hats

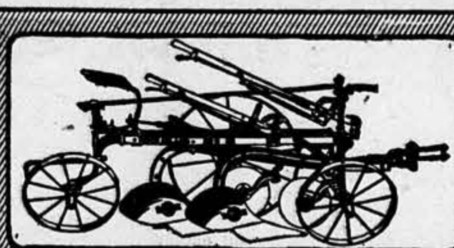
Among the many acts of courtesy that can be traced back to their influence, none is more direct in its origin than that of lifting the hat to acknowledge the presence of a friend, says The Scout. This custom was established in the age of chivalry when it was the rule for knights never to appear in public except in full armor. It became customary, however, for a knight, on entering an assembly of friends, to remove his helmet, signifying "I am in the presence of friends."

The ages of chivalry passed away with the Fifteenth century but the lifting of the hat as a courteous form of greeting remains as one of its pleasant traditions.

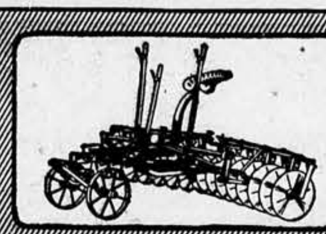
A Boy Who Can Swim

Twelve miles in 6 hours and 49 minutes is not a bad swimming record for a boy of 18 years. This record was made near Boston by a lad of Abingdon, Mass. He swam against cross currents and a strong east wind, too.

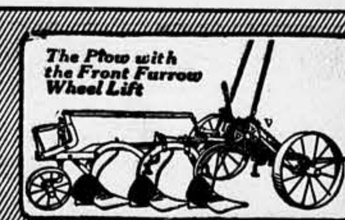
The boy has been swimming for records for a good many years. He made an unusual record swim 3 years ago but when he reached his destination he had to be taken out of the water. He is very heavily built and has remarkable strength.



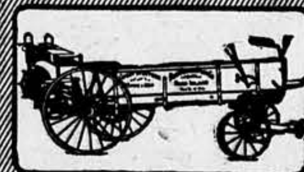
Rock Island "CTX" Plow



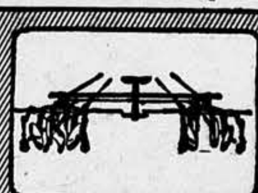
Rock Island Bonanza Disc Harrow



Rock Island Tractor Plow



Great Western Manure Spreader



Listed Corn Cultivator

Rock Island No. 9 Tricycle Lister

Great Western Separator

Rock Island Hinged Elevator Loader

The Farm Tools That Increase Farm Profits—Decrease Farm Toil

ROCK ISLAND farm tools are first in the esteem of farmers everywhere. They give you all the value—all the ease of operation—all the satisfaction—all the durability—resulting from 62 years of constant betterment by men of the widest experience—with all the facilities of our factories.

Rock Island Tractor Plows Give Better Results No Matter What Tractor You Use

You will have the advantage of the Rock Island's famous Front Furrow Wheel Lift with power obtained from the wheel running in the bottom of the furrow—*always on solid ground*. No chance of slipping. You will have the Rock Island's exceptionally High and Level Lift. Self leveling bottoms go in and out of ground point first. Greatest clearance. High Arched Beams clear themselves of trash. No clogging. Furnished with two, three or four bottoms.

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Then ask yourself these questions: Why *do* so many thousands of farmers declare the famous *Rock Island "CTX" Bottom* to be the greatest single feature ever placed on a plow? Why *do* so many thousands of farmers prefer the *Bonanza Disc Harrow*, which always discs the field at one uniform depth and angles from the *outer* instead of the *inner* ends? Why have over 125,000 farmers *insisted* on getting the *Great Western Manure Spreader*, the spreader with all four wheels *under* the load—the *No. 9 Tricycle Lister*, original 3-wheel, frameless lister, with Disc Coverers and Convertible Drop—the *Rock Island Hinged Elevator Hay Loader*, that enables you to run the elevator a long way behind the wagon and so assists you to load wagon easier, quicker—the *Listed Corn Cultivator*, that makes work in listed corn easier for you and your horses—the *Great Western Cream Separator*, the closest skimmer and easiest to clean of all separators—and all

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It will post you on farm implement *values*. It will help you to select the farm tools you *need*—to cut down work on the farm, to assist in making perfect seed beds, to help in plowing, planting, cultivating, haying. The book is free. Write for it. Send us your name and address on the coupon—or a post card.

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Feed Your Cattle 60 Days—At My Risk

AND GET ONE OF THESE $5.00 WOOL HORSE BLANKETS

FREE

To introduce my Stock Tonic to just a thousand more readers of this paper **I am going to give away** one thousand **beautiful Wool Horse Blankets—Absolutely Free.** I'll send them at once **to the first thousand readers of this paper** who send in the coupon below. With this blanket I will also agree to send a big trial feeding of

WILBUR'S STOCK TONIC the Greatest of All Live Stock Conditioners

What is more, I will send you this Stock Tonic with the **distinct understanding** that it is to be used for **two whole months at my risk**—that if at the end of two months feeding the Stock Tonic has not been entirely satisfactory **no charge is to be made.** I simply want you to make a two months' trial of my Stock Tonic with the understanding that **if it does not fatten up your live stock—kill the worms—that if it has not paid you to feed it**—no charge is to be made. Then as a special inducement and to pay you for the trouble in making the test I will give **you—Absolutely Free—one of the $5.00 Horse Blankets shown above.**

I Will Prove to You

that my Stock Tonic will positively **rid your live stock of worms, fatten them up and keep them in the pink of condition.** I will prove to you that you will actually get **more milk from your cows,** that you will **fatten your hogs, steers, sheep and poultry** for market in less time, that you will **save grain, prevent disease** and **make more money from each animal you own.** I have such absolute faith in Wilbur's Stock Tonic that **I take all the risk** in this trial feeding.

APPLICATION FOR FREE BLANKET

E. B. MARSHALL, President
Wilbur Stock Food Co., 185 Huron St., Milwaukee, Wis.

Please send me at once one of your **beautiful $5.00 Wool Horse Blankets.** Also send me 100 pounds of Wilbur's Stock Tonic. I agree to feed the Tonic for two months, and if it does what you claim, I will send you only $2.00 at the end of the two months' test and then $4.00 a month for three months. If it fails and I so report in sixty days, **you are to cancel the charge and I will owe you nothing.** You are also to ship me—Free—enough **Wilbur's Poultry Tonic**—your guaranteed egg producer—to offset all freight charges on the shipment. **It is understood that the $5.00 Horse Blanket and this pail of Poultry Tonic are to be mine—Absolutely Free—whether I pay for the Stock Tonic or not.**

Name .....

P. O. ..... State .....

F. O. ..... County ..... State .....

I own ..... cattle ..... horses ..... hogs ..... sheep ..... poultry.

I own ..... acres of land. I rent ..... acres of land. I am ..... years of age.

NOTE—This liberal offer only open to responsible farmers and stock raisers over 21 years of age.

There is No Secret About this Tonic

It is composed of **Twelve separate ingredients**—plainly printed on every package—each one carefully selected and absolutely pure. These ingredients are acknowledged by veterinarians everywhere to be the **finest tonics, appetizers, digestive aids** and **worm dispellers known to medical science.** Each one has a special purpose. A compound of these herbs, roots, etc., is absolutely sure to **condition any animal—keep the blood clear—the system free from worms and disease and for the animal to put on fat rapidly.** I have proved it so often **there is no doubt about it.** I have made and sold this Tonic for over thirty years and over a million of the best stock raisers in America are feeding it every day—I have thousands upon thousands of the finest kind of letters from all parts of the country telling me of the wonderful results from feeding this Stock Tonic. Now all I want to do is to **show you that what it will do for others it will do for you.** And as a special inducement just to get you to make this trial—at my risk—**I am going to send you one of these magnificent Horse Blankets.**

The Blanket is Yours---Free

It never costs you a cent. It is yours—forever—to keep and use every day—**whether you ever pay for the trial feeding of Tonic or not.** It is a big, warm, soft, wool blanket—84 x 90 inches—never sold for less than $5.00 to $6.00 anywhere. **It's a blanket you** will be proud to own, and **remember, it's free.**

Simply Fill Out the Coupon

SEND NO MONEY. Just find out by actual test on your own stock that **my Tonic will make money for you.** I have a blanket all ready for you if you send that coupon right away. **You can't possibly lose anything**—you have everything to gain. **Isn't it worth a postage stamp? Do it now—at my risk—fill out the coupon and mail it to me at once.**

E B Marshall President

WILBUR STOCK FOOD CO., 185 Huron St., Milwaukee, Wis.

What Shall I Do, Doctor?

BY DR. CHARLES LERRIGO.

Vaccination.

Do you believe in smallpox vaccination? Some doctors don't. Is it true that a good clean vaccination never causes any inconvenience? When should a schoolchild be vaccinated? J. L. N.

Yes, I believe in vaccination against smallpox. I see no reason why I should go to the stake for it, however, so I serve notice that this column is too crowded to give any space to a discussion as to its rights and wrongs. It is a mistake to suppose that vaccination is nothing more than a simple matter of scratching the arm and getting a scar. It is the deliberate introduction of a disease, self-limited and harmless, yet quite distressing while it lasts. In the best of cases there is a period of two weeks in which the child is unfit for school or other duties. He should not have continued fever but his condition is such that any exertion or strain will cause an increase of temperature. He may have a general aching for a day or two, and, possibly, small relish for his meals. In the second week the vaccinated arm will swell somewhat and may be so tender as to need the support of a sling. Frequently there is a watery discharge from the scab, which makes necessary a daily dressing. The time to vaccinate a school child, therefore, is at some period of two or three weeks' duration when he can be relieved of all other responsibilities.

Alcohol No Remedy.

Is there any substitute for alcohol? I live in a prohibition state where anyone cannot get it in "hair dopes," cough sirup or any other way. I know of a cough remedy that has alcohol in it but can't get it here. Will you kindly write on this subject for the Farmers Mail and Breeze? MRS. F. W.

There is nothing in alcohol itself that will cure a cough so the "remedy" must lie in some other drug in the compound. Have your druggist compound your formula, omitting the alcohol and substituting a small amount of glycerin.

Constipation.

We have been watching your column with much interest and now we have a case of our own. Our baby girl is 11 months old, and is troubled with constipation. The bowels move regularly but the stool is so hard she fairly screams at times with pain. I have tried to get her to eat solid foods in the hope of overcoming it. Feed her all the apple and orange she will eat and try to get her to eat other cooked food. She is much worse for a few days while cutting teeth. Am just feeding cow's milk, lime water and sugar now. Have used Mellin's and Eskay's foods and have given her of the different cow's milk, but nothing seems to do any good. Have used Castoria but dislike giving it so often for it does not seem to do any good except for the day taken. She seems perfectly healthy, has good appetite for her food and is making steady gain. I will be grateful for any help you may give me. A. S.

Your idea of giving a mixed diet is good. At her age she should eat oatmeal for breakfast and may have plain bread with butter and also take part of her milk in the form of bread and milk. Few young children can digest raw apples but they may be given baked or stewed. Prunes may be given to a year old child, and the juice may be given at 6 months. With such a condition as you name she should not be allowed to strain at stool. If the bowels do not move without straining give her an enema of a pint of warm water.

May Be Synovitis.

D. W. F.

If your trouble is not rheumatic it may be synovitis, an inflammation of the synovial membranes lining the knee, which acts rather according to your description. It may be cured by giving the knee an extended rest, say three weeks. If there is much pain it is relieved by attaching a weight to the foot thus removing the pressure from the membranes of the knee.

"Gimme a Piece, Ma."

Please say what is right about children "piecing." My little boy never gets home from school but he wants "a piece." I'm afraid it's a bad habit. COUNTRY MOTHER.

There are two sides to the question. It may be just a bad habit, and children who get the habit are never satisfied unless mouthing something. This is ruinous to digestion. The other side is that the child may really need the food. Three meals a day is not always sufficient for a growing child. Watch the boy. See that he eats a good breakfast. Oatmeal with plenty of cream, bread and butter, an egg or some bacon and a dish of fruit. If he takes his luncheon to school give him sandwiches with a filling of meat, or cheese or eggs. When he comes home from school and clamors for a "piece" give him something appetizing but substantial. If he eats it and enjoys it make a point of giving him the extra meal every day at the same hour. But if the meal is not eaten unless it is sugar or cake tell him kindly but firmly that supper will be at 6 o'clock.

Ointment for Baby.

Please tell me a good ointment to use on a baby who has a bad tetter all over its face. MRS. B. B.

Usually an ointment composed of one dram of boric acid in an ounce of white vaselin will be very helpful. You should take your baby to the doctor for constitutional treatment if it persists.

Wens on His Head.

I am afflicted with three large wens on my head, and as I am troubled with my heart the doctors will not give me an anesthetic so I could have them removed by an operation. If you could recommend anything that I could rub on to absorb them I should be very thankful. I am 49 years old, and am much embarrassed in society on account of my trouble, as my hair is very thin. Do you know the cause of them? Are they inherited? I was told I had an uncle afflicted the same way. J. W. D.

I know of no way to absorb wens by external applications. A wen is a sebaceous tumor. The only positive cure is by making a small incision thru the skin and removing the tumor, being particular to include the capsule. When this is properly done there will be no recurrence. Sometimes a wen becomes soft by suppuration so that a mere prick of the skin will drain away the contents, but the capsule will fill up again. A wen should never be left to suppurate as it then becomes really dangerous. So far as taking an anesthetic is concerned it is quite unnecessary. Your doctor can inject a local preparation that will anesthetize the tissues without putting you to sleep, and remove the tumors safely and painlessly. Wens are not inherited.

Calomel Dose.

What is the dosage of calomel for adults, and is its use good only as a physic, or is it a tonic too? M. E. K.

Calomel should never be taken excepting on a physician's prescription. The dosage varies widely for different ages and conditions. Its chief use is as an eliminant tho I believe that some claim is made for tonic properties. It is a good drug, very badly abused by persons who take it indiscriminately.

He's Better Now.

Worried: I hope a good many boys and young men will read this answer and be able to read between the lines. It was a very bad habit and I rejoice that you have conquered it. You are now at perfect liberty to cease being worried. It is a very destructive habit morally and is very harmful physically to those who haven't the stamina to break away from it. But you may feel pretty sure that a year's abstinence will set you in good physical condition. So far as the symptoms which you say occur on an average of once a week, they are not anything out of the way for a young man. It is only occasionally that I can answer a letter of this nature in the magazine but I am always happy to write a personal letter to worried boys if they enclose an addressed envelope for reply.

G. S. K.

I cannot give out the names and addresses of those who write to this department. Your intentions undoubtedly are of the best, yet I am obliged to adhere strictly to the rule. If you have a communication you very much wish to make to a writer I shall be glad to forward any letter you send to me. Then if such a person wishes to correspond, he may do so.

L. V. H.

I do not know of any positive cure for gallstones except an operation. Occasionally a case seems to get well of itself. That may be because the stones were few in number and emptied out into the intestine, or perhaps they became encysted in the gallbladder and stayed quietly without further trouble, or perhaps the diagnosis was an error.

The average yield of lint cotton for the United States is 186 pounds to the acre.

The Automobile Lubricant That Resists Heat

60c to make test will save you over $50 a year

If you look at the metal surfaces of your automobile engine with the naked eye, you will say they are perfectly smooth. Examine them under a microscope and you will find they are actually covered with thousands of sharp points and depressions. It is these points and depressions that demand efficient lubrication.

To illustrate how a lubricant works, imagine the metal surfaces to be two sheets of sand paper. If you rub two sheets of sand paper against each other they grab and hold fast. But if you give each sheet a good, smooth coat of paint, they will slide over each other easily. That is how a good lubricant prevents friction between metal surfaces.

Metal to metal surfaces slide easily only when covered with a substantial film of *liquid lubricant*. Oil that contains sediment causes friction, because sediment crowds out a large part of the liquid oil. Thus the metal surfaces are pressed together and the microscopic points and depressions grab. That means friction and wear.

Sediment in ordinary oil causes friction

Notice the sediment formed by ordinary oil. The bottles shown at the top of the page contain samples taken after 500 miles of running. The sediment in ordinary oil is seven times as deep as in the Veedol bottle. In other words, Veedol reduces sediment about 86%. This is the Sediment Test.

All ordinary oil breaks down under the terrific heat of an automobile engine—200° to 1000°. Within a few hours black sediment is formed. So a large part of the oil loses *all* lubricating value.

The sediment crowds out the remaining liquid oil and allows the metal surfaces to rub together. This means friction, wear, loss of power and expense.

The Faulkner Process

Veedol is unlike ordinary oil. It is made by the Faulkner Process, a new discovery used exclusively by this company, which gives Veedol its remarkable heat-resisting and wear-resisting properties. New equipment for this process cost us $300,000, and it will add $50,000 to our 1917 manufacturing cost. Ordinary automobile oil *cannot* be made like Veedol and *cannot* have the same lubricating properties.

Veedol resists heat, does not evaporate rapidly, does not carbonize if your motor is in good condition—and what is most important, reduces sedimentation about 86%.

60c to test Veedol will save you $50

Five gallons of Veedol will cost you about 60c more than five gallons of ordinary oil.

With five gallons of Veedol you can drive 2,000 to 5,000 miles—possibly two or three times the mileage you get from ordinary oil. So you will have ample opportunity to compare operating costs.

The average automobile runs 6,000 miles a year and the average yearly expense is $416. Of this, gasoline, repairs and depreciation come to $268.

Now then—since friction and wear vary in direct proportion to the amount of sediment formed by the oil, the elimination of 86% of the sediment will save gasoline, repairs and depreciation.

Your gasoline bills, repair bills and the depreciation of your car will all be cut down by the use of Veedol. Veedol will save you $50 to $115 a year.

Make this road test

Clean out your automobile crank case. Fill with kerosene. Run your motor about *thirty seconds* under its own power. Draw out all kerosene and refill with Veedol.

Then make a test run over a familiar road, including steep hills and straight level stretches.

You will find your motor has acquired new pick-up and hill-climbing ability. It will have less vibration and will give greater gasoline mileage.

Buy Veedol today

Over 12,000 dealers sell Veedol. Each dealer has a Veedol Lubrication Chart which specifies the correct grade of Veedol for your car for both Winter and Summer use. If you cannot get Veedol write for name of dealer who can supply you. Buy a can of Veedol today.

A convenient pouring device is supplied with each metal container.

Supplied in—
Sealed Cans
½-gal., 1-gal., 5-gal.
Steel Drums
15-gal., 28-gal., 53-gal.
Oak Barrels
28-gal., 50-gal.
Guaranteed when sold in the original package.

Send 10c for 88-page Book

Send 10c for our new 88-page book on automobile construction and lubrication. No other book at any price contains as much information on this subject.

PLATT & WASHBURN REFINING COMPANY
1876 Bowling Green Building New York

Use Grease of Known Value

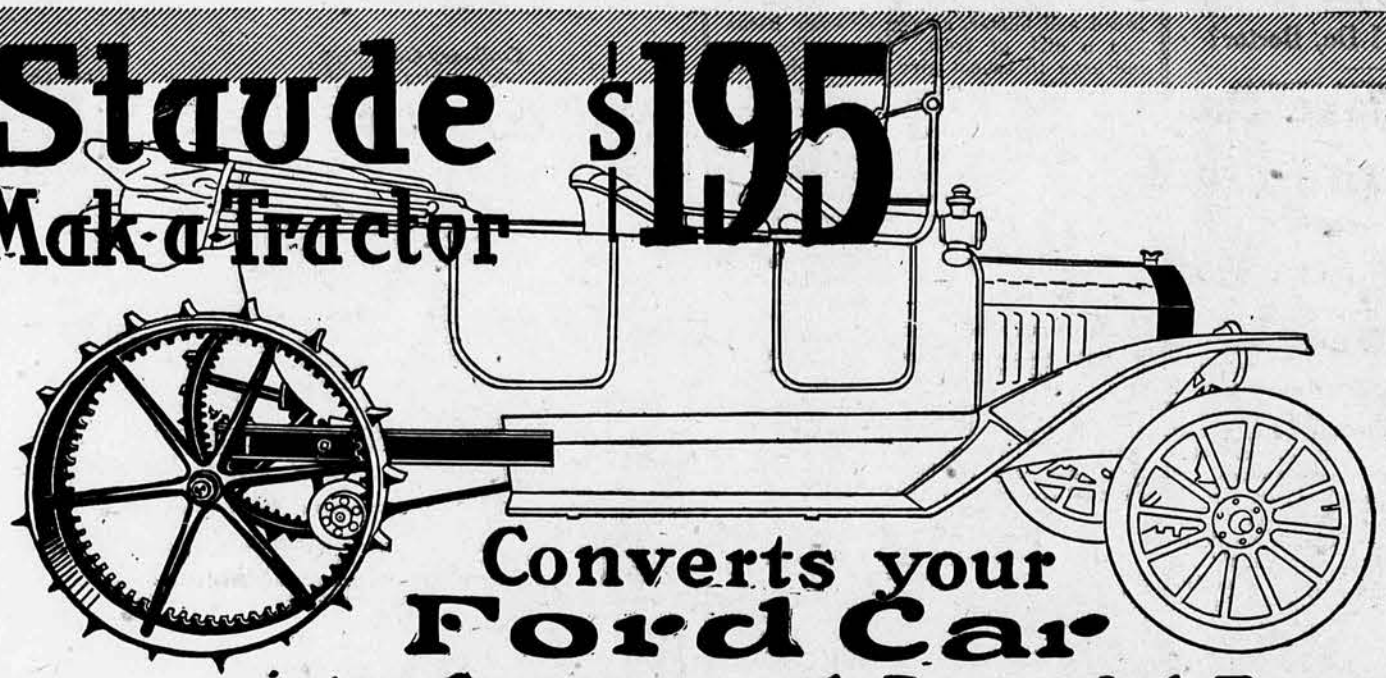
The Sediment Test shows you how far Veedol excels ordinary oil; Veedol Grease is equally superior to ordinary grease.

There is a Veedol grease for every purpose:—

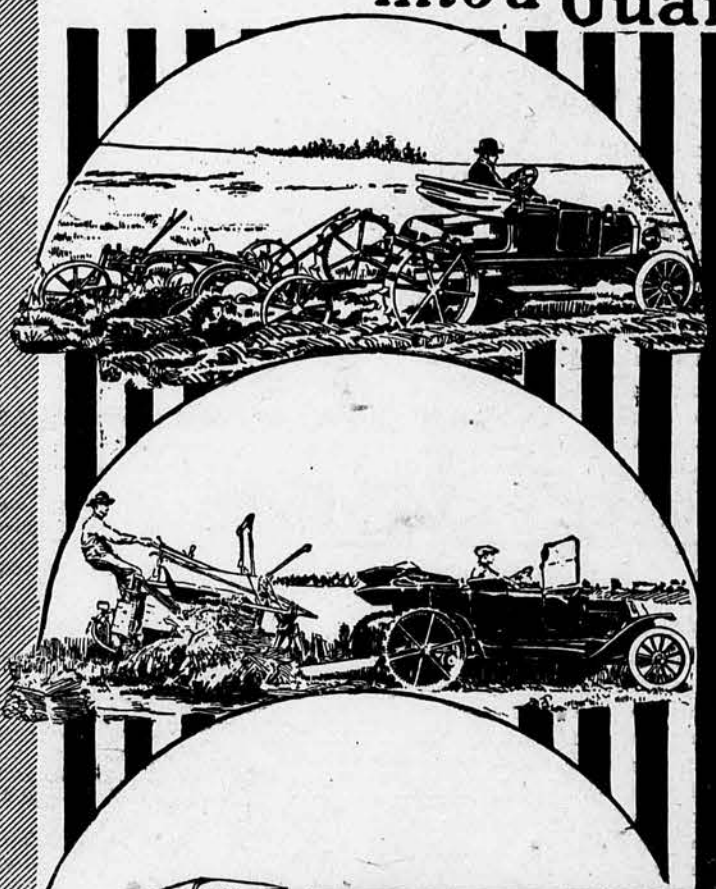
1. VEEDOL CUP GREASE.
2. VEEDOL GRAPHITE GREASE—For general lubrication, springs and water pump.
3. VEEDOL-TRANS-GEAR-COMPOUND—For gears where the housings are *not* tight.
4. VEEDOL-TRANS-GEAR-OIL—For gears enclosed in *tight* housings.

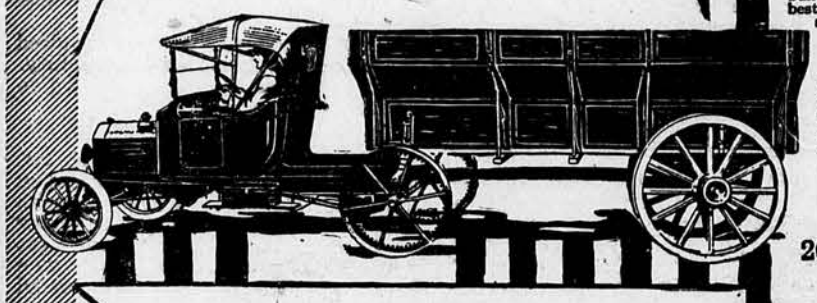
For washing your car try Keal, the new soap.

Staude Mak-a-Tractor $195



Converts your Ford Car into a Guaranteed Powerful Tractor





Make One Dollar Do The Work of Four in All Your Heavy Farm Work

Adapt the wonderful power and service value of your Ford to real labor saving, money earning work on your farm and still have your car ready for the use of your family when you are not working in the fields. You can do it with the Staude Mak-a-Tractor and improve the running of your Ford at the same time, by the permanent features of the Staude Mak-a-Tractor. New radiator, six times more efficient than the present Ford radiator—new force feed oiler—direct feed to motor bearings—sight gauge on dash. The tractor feature itself is installed or removed in twenty minutes.

Four Horse Work—One Horse Cost

In all your farm work, Plowing, Listing, Cultivating, Discing, Crushing Clods, Pulling Stumps, Spreading manure, and any other farm work you are now doing with horses, Staude Mak-a-Tractor will give you four horse efficiency and yet it costs no more than one horse to buy and nothing to keep when it is not working.

Plowing, it has been used with wonderful results by farmers all over the country pulling 28-inch bottom gang plows at a rate of 2½ miles an hour—hauling binders 3 miles an hour—and it will haul your heaviest farm wagons—fully loaded—anywhere horses can go—at 5 miles an hour.

Yet it gives you the use of your car for your family at any time, with only twenty minutes required to change it back for road use.

Staude's Masterpiece

This masterpiece of the inventive genius of E.G.Staude is time-tried, owner-tested, by hundreds of users all over the country in every kind of farm work during the past season. Install it on your car without boring any holes—without making any complicated connections. Take off the rear wheels and rear fenders—clamp the attachment to the car with four bolts—replace the Ford wheels with the Staude Roller Driving Pinion integral with the brake drum and the work is done. The radiator and oiling system are permanent and valuable additions to your car.

Remove the Staude axle, tractor wheels and drive pinions when you want your car for the road. The channel frame may stay on the car without injuring the appearance or riding qualities, or you can easily take it off in five minutes.

Only the Best Materials

Staude Mak-a-Tractor is Quality designed, Quality built. The cellular radiator—Staude designed—is the best radiator ever built for Fords and the special oiling system is the most efficient.

The channel section-rolled steel attachment frame is 4 inches deep. The Staude Tractor type wheels are 38 inches in diameter with 8½ inch face, 18 special Staude concave creepers for use in soft soil and sand, cut into the soil and give a pulling effect that cannot be attained through creepers of any other design.

The Staude Roller driving pinions mesh into a driving gear with self cleaning teeth, and this gear bolted to the inside of the tractor wheel carries the driving power, eliminating torsional strain on hub and spokes.

Staude rear axle is back of the car axle, an exclusive feature. The drive pinions *push down* on the tractor wheels instead of pulling up on them. The Ford is pushed by the tractor wheels. There is no waiste effort. Axle is cold rolled steel with 38 inch hitch. All the load is carried on the Staude Mak-a-Tractor axle: none on the rear axle of the car.

Wonderful Motor Efficiency

We furnish a Special Staude Ford Radiator—cellular type—six times as efficient as the standard Ford Radiator. The motor on a tractor heats up much quicker than if it were used in a faster moving vehicle. This is because the volume of air which passes through the radiator is much less when the car is moving slowly. We overcome this by increasing radiator capacity to offset this lower volume of air. Leave this on the car permanently—it's the best Ford Radiator ever built. 1917 Fords require individual radiator equipment—(specify model).

Staude Mak-a-Tractor final drive gear reduction gives 2½ miles an hour for plowing with regular pinion equipment. An extra pinion gives a speed of five miles an hour for hauling vehicles. The motor speed never goes above 1000 R. P. M., a safe, economical, efficient rate of speed.

And so great is the mechanical efficiency that the Ford you use not only runs in high gear, but starts in high.

Lessen Your Work—Increase Your Earnings Today

Figure it out yourself—rental of two teams is easily $10.00 a day—Staude Mak-a-Tractor doing the work of four horses at the cost of one, easily pays for itself in the first few weeks. After that it keeps on earning its cost price, month in and month out for years of service. Compare it with any other tractor—first cost is less than one-third that of any other doing anywhere near the same work and operating cost is only one-third as much.

References: Any Bank in St. Paul or Minneapolis

E. G. STAUDE MANUFACTURING CO.
2674 West University Avenue St. Paul, Minn.

See your automobile or farm implement dealer today and mail the coupon NOW—TODAY for the big illustrated book—FREE.

You can more than pay for a Staude Mak-a-Tractor in the saving it will make for you the first month.

E. G. STAUDE
MFG. CO.
2674 W. Univ. Av.
St. Paul, Minnesota

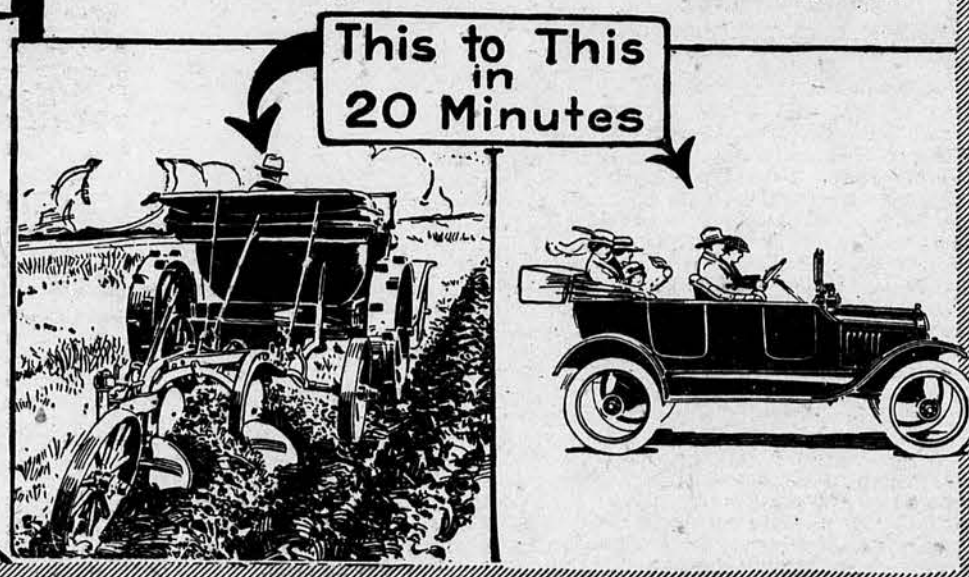
I would like to know how the Staude Mak-a-Tractor will cut down my cost of farming and increase my crops. Please send me your Big Illustrated FREE Book "Reaping a Golden Harvest." without any obligation to me whatever.

Name.....

Dealer's Name.....

Town.....

State..... *R.F.D.*.....



Spread Straw and Make This Extra Profit

$7.00 Per Acre More!

No Need to Wait Longer for a Straw Spreader—Read This Liberal Offer

Readers of the Farmers Mail and Breeze who have not taken advantage of the very liberal offer made by Mr. C. E. Warner of the Union Foundry & Machine Co., of Ottawa, Kansas, should do so at once.

Mr. Warner recently published an advertisement in this paper offering to send a bran-new Perfection Straw Spreader on 60 days' trial to any responsible farmer—in order to prove to farmers in every community that the Perfection is the one implement every farmer who has spare straw stacks should own.

Your straw stacks are worth $3.00 a ton as fertilizer if properly spread. You can make an additional profit of at least $2.00 per ton for the spreading. Farmers who spread straw have found it increases their crop returns from $5.00 to $7.00 per acre.

Spreading straw is an easy proposition with a "Perfection" Straw Spreader. You can easily cover 20 acres a day. Do you know any easier way to make money—say you have enough straw to cover 80 acres—it is sure to make you at least $5.00 an acre—more likely it will be $7.00 or more an acre.

Farmers who have used the Perfection Spreader know beyond any doubt that it is a money-maker—Ed Morton, Ralph Rudd, Lee Miller are all Kansas farmers who say they have profited at least $500 a year from the Perfection.

Ben McKay and Bob Bruner of Nebraska increased their wheat crops nearly five bushel an acre this year—a profit of nearly $7.00 for they got $1.50 for their wheat.

Lafe Baum of Idaho, C. O. McCain of Oregon, Art Newcastle of Oklahoma, Sid Leaman of Montana, Floyd Newcomb of Missouri all report big gains.

Why do without a straw spreader any longer? Mr. Warner has offered to send you one to use for 60 days to prove it is right.

If you want easy terms he will be glad to see that you get them. Any responsible farmer can get a Perfection Straw Spreader and make it earn him several times its cost before he pays one single cent.

The Perfection Spreader is easily attached to any header barge or hay frame. You don't have to tear up your rack or change your wagon. It can be removed in a few minutes. No farmer can afford to be without a Perfection Spreader—it is a real money-maker.

We most earnestly advise you to write the Union Foundry & Machine Co., 846 King St., Ottawa, Kansas, today regarding their very liberal offer—ask them to send you Mr. C. E. Warner's new 32-page book, "Straw Spreading Pays." This book will tell you how scores of farmers have made a lot of money spreading straw. It will show you how to increase your profits. Write today, use the above address—they will send the book with other information absolutely free.—Advertisement.

A Small Wheat Crop?

BY D. M. HESSENFLOW
Republic County

The light snows we are having are a great help to the wheat, since there was no moisture in the ground at the freezing period. This crop does not look very favorable, but it will certainly be a surprise to the farmers in this county if we have a failure, as it is our main crop here. We intend to cover as much of ours with straw as possible. This prevents the soil from blowing or heaving.

The conserving of moisture is a big advantage in spreading straw, altho it also has a great value as a fertilizer. An estimate has been made concerning the value of straw as a fertilizer. A ton of wheat straw contains 10 pounds of nitrogen, 4½ pounds of phosphorus, 12 to 18 pounds of potash, 1,500 pounds of dry matter, and 500 pounds of water. By converting the straw into fertilizer by means of bedding for stock, it can be handled with less labor and expense, as one man and team can do the work with a manure spreader in the same time as two men and two teams can handle the same amount of dry straw, ton for ton, with a straw spreader, as most of the straw has to be forked on the carrier of the spreader. But no matter how it is replaced, it should be given back to the soil.

We are feeding our horses a ration of equal parts of corn, oats, and wheat bran, and they seem to relish it. At night we fill the mangers about half full of oats straw, and then put a small forkful of alfalfa hay on top of this.

"This country is capable of enormously increased production of food supplies," says Congressman Borland, who demands that the packers and the price-fixers be investigated searchingly. * * * Half the land in this country is loafing—and that which is producing could and would produce twice as much more, if sufficient inducements were held out to the producer. The price-fixers and the market crooks and manipulators are robbing the farmers as much as they are squeezing the consumer. We could all live on Easy street in comfort and plenty, and with old age provided for, if we would live and let live instead of playing the hog and extorting every cent that the traffic can be made to bear. Unsparing, conscienceless, grasping, disgusting, insatiate animal greed is back of most of the hardships and the privations from which the people suffer.

As they eat the alfalfa, the leaves become mixed with the straw, which give it a good flavor, and the horses consume most of it.

We got about 300 old ties from the railroad last fall and hired a buzz saw to saw them, but it could do nothing with them, as they contained so much sand and gravel that they would dull the saw as fast as the men could sharpen it. We were forced to go after them with the buck saw. We tried the cross cut saw, but it was not much better than the buzz saw. The buck saw goes right thru them without much trouble. These old oak ties make a good fire.

There are many dead trees and limbs along the creek and in the wood lot that we intend to work up into fuel for the cook stove. This consists mostly of box-elders, ash and maple. Many trees die every year, and they are seldom replaced by young trees. A big effort should be made to maintain a wood lot on every farm for fuel. I took the kerosene barrel to Belleville last week for the winter's supply of oil. We do not use a great deal during the winter, but as we can get it for 6⅓ cents a gallon by the barrel, it beats paying 10 cents a gallon by the can and saves hauling the can to town every week or two. We use kerosene for all purposes during the summer and find it the most economical fuel. It does not heat the house like wood or cobs. I find that a steel barrel is best suited to contain kerosene or gasoline as there is but little loss by evaporation.

Zero Outside Summer Within

IN thousands of happy homes, people are living in solid comfort because they own a Caloric Pipeless Furnace. This is the furnace that warms a house through *one register.* Entrance hall, living room, dining room, bathroom and all upstairs is just like toast, regardless of how the winds may howl outside.

There is but one register hole to be cut in the whole house, and of course no pipes to clutter the cellar and carry dust upstairs. The

PIPELESS CALORIC FURNACE

The Original Patented Pipeless Furnace

can be installed at any time without inconvenience. It saves 35% of fuel (abundantly proved by testimony) because its heat is direct and because a patented triple casing, without which no pipeless furnace can be a success, prevents radiation in any direction except up through the register.

Mr. John E. Drach, New Windsor, Md., writes this: "Our house has ten large rooms and is on a high hill. Two rooms are exposed to the north winds but the furnace heats them just the same as the other rooms." Hundreds of people write such letters--we've a book of them. Suppose you write Mr. Drach yourself, sending him a self-addressed, stamped envelope, and get his testimony direct.

There's a Caloric dealer in your town—see him soon. If you don't know who he is, write us and we'll tell you.

Let us send you our free booklet containing our remarkable guarantee.

The Monitor Stove & Range Co.
3523 Geest St. Cincinnati, Ohio

Get My New Concrete Mixer Offer

I want ten men in every county right now to accept my special co-operative offer. It will help you obtain a Sheldon Batch Mixer at little or no cost. Let me tell you about it.

You probably need a mixer for concreting on your place—most farmers do. The Sheldon is the ideal mixer for the farm. Light and easily portable, durable, low-priced. You'll find it will prove a mighty good investment. Write for special offer.

Sheldon Batch Mixers $115.00 Up

MAKE BIG MONEY Concreting In Your Section.

You can easily earn $6 to $20 a day with a Sheldon Batch Mixer. Our customers are doing it right now. The jobs go to the man with a Sheldon Mixer every time. Saves labor of 1 to 4 men, according to size of job. Or, if you buy a machine for your own use, you can make many times its cost in a season by renting it to neighbors.

Improve Your Farm
Build your own silo, tanks, troughs, floors, foundations, buildings, etc., out of concrete with a Sheldon Batch Mixer. Will pay for itself on first small job. Beats hand mixing a mile. And it's a lot cheaper too. Takes the backache out of concrete. Makes possible those many small improvements on the farm that you wouldn't do without. Improvements which will add many dollars to the value of your land.

Get My FREE Catalog
Tells how to build your own mixer by using the *Free Plans* which we send with our iron parts. Also shows full line of built-up machines. Two styles, hand and power. Will mix 21-2 cu-ft. a minute. Keeps 1 to 6 men busy. Chain drive, self-tilting dump, all parts guaranteed. Write today for catalog and special offer. Geo. C. Sheldon, Pres.

SHELDON MANUFACTURING CO., Box 2630, Nehawka, Neb.

Build Your Own Concrete Mixer → FREE PLANS

Capper's Weekly Special Club Offer No.100

Subscribe for These Three Big Publications NOW and Save Money

Farmers Mail and Breeze	$1.00
Capper's Weekly	.50
Household Magazine	.25
Total value	$1.75
Our special price	$1.25
You save	$ .50

Capper's Weekly, Club Dept. 100, Topeka, Kan.

When writing to advertisers be sure to mention the Farmers Mail and Breeze

"The Nestorian Girl"

A story of real life in Persia. It is a story of a love romance between a high Nestorian (a Christian) maiden and a Mohammedan prince. The extreme religious prejudices of Persia forbid them to marry. Trouble for the young people begins. The story is interspersed with bandit raids. Ashley, the Nestorian maiden, is taken away into captivity by the bandits. There remains to this day the old fountain known as Ashley's Fountain and the trees under which Ashley is said to have sat. It is the most interesting novel of the day and you should surely read it.

SPECIAL OFFER: This dramatic story book sent free and postage paid for one new or renewal subscription to the Missouri Valley Farmer at 30c. **MISSOURI VALLEY FARMER, Book Dept. N.G. 4, Topeka, Kan.**

WIN VALENTINE SURPRISE PACKAGE

4		7
	7	3
6	4	

SOLVE THIS PUZZLE

Here is the "Missing Number Puzzle" which will make you think. What numbers placed in the vacant squares will make a total of fifteen for each column when added either up and down or across?

Is It Easy? If you fill in the missing figures and send us your name and address, we will send you as a prize, **a Valentine surprise package, containing 36 beautiful assorted Valentine cards, stamps and novelties. This is one of the most artistic Valentine packages put out.** All you have to do is to enclose 2 two cent stamps in your letter to pay postage and cost of mailing. We will also send a certificate of entry in our grand contest for a $395 Saxon Automobile.

Saxon Car Given Away

Remember the Saxon car will absolutely be given away at the close of the grand contest. In case of a tie, a Saxon car will be given to each person so tied. Send at once so you can be entered in this great contest. Full particulars free.

SAXON EDITOR, 380 Popular Bldg., Des Moines, Iowa

"I'm Here to Stay!"
says the Grouchy Bull:

"I've been up against this Peerless Fence, but it's the toughest proposition I've ever rammed my bony skull into. Fence bends a little, yes, but it comes right back like a steel trap. I give it up—guess my pasture isn't such a bad place, after all."

The grouchy Bull or the inquisitive Porker are equally safe behind
PEERLESS FENCING

That stiff one-piece cross bar, fastened with the famous Peerless Tie, puts an end to roaming. The Bull can't get over and the Pig can't get under.

Peerless Fencing Lasts

Those big open hearth steel, extra heavily galvanized wires will give you the best kind of service. It will give you more dollar for dollar, year after year, and all around satisfaction than any fence you ever put up.

And a good fence deserves a good gate. Peerless Gates are designed to match the Fencing. Big, heavy, high-carbon steel frames, filling of all No. 9 Wire Peerless close-woven fabric, put long life and all kinds of resistance in these gates.

Send for your copy of our big, free Fence Book showing a hundred styles of fencing and several types of gates. We can fit both your ideas and pocketbook.

The Peerless Self-Raising Gate

IS one of the best selling styles in our entire line. It is no longer necessary to lug around the old-fashioned sagging, dragging, heavy gates. The Peerless lifts automatically and swings over all obstructions, snow, ice, grass, and rubbish.

In addition to being self-raising, it is extra heavy in both frame and filling. Big, massive frames of 1⅝-inch tubing and close woven all No. 9 wire, close mesh filling, insures long life.

Every part heavily electro-galvanized—no paint to wash or wear off in a year or two.

PEERLESS WIRE FENCE CO., 208 Michigan St., ADRIAN, MICH.

American Fence

Woven with a mechanically hinged joint. Big, full gauge wires—full weight—full length rolls. Superior quality galvanizing—proof against hardest weather conditions.

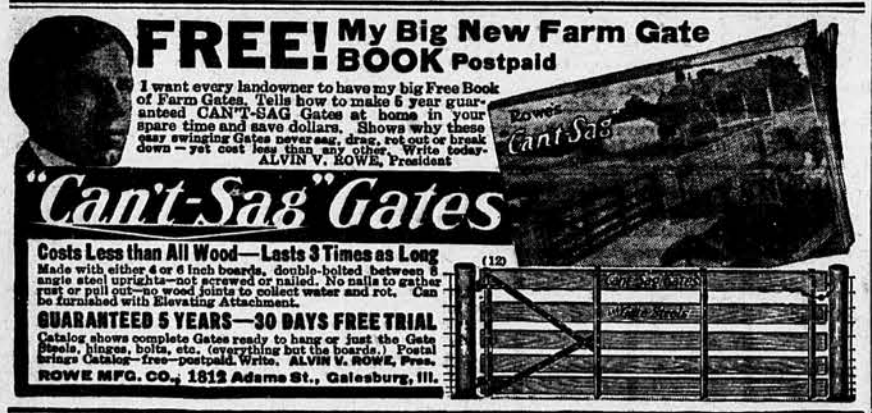
American Steel Fence Posts last a lifetime. Hold fence secure against all conditions.

Dealers Everywhere

AMERICAN STEEL & WIRE COMPANY
Chicago New York Pittsburgh Cleveland Denver
Awarded Grand Prize at Panama Pacific International Exposition
The Supreme Award of Merit

FREE! My Big New Farm Gate BOOK Postpaid

I want every landowner to have my big Free Book of Farm Gates. Tells how to make 5 year guaranteed CAN'T-SAG Gates at home in your spare time and save dollars. Shows why these easy swinging Gates never sag, drag, rot out or break down—yet cost less than any other. Write today.
ALVIN V. ROWE, President



"Can't-Sag" Gates

Costs Less than All Wood—Lasts 3 Times as Long
Made with either 4 or 6 inch boards, double-bolted between 8 angle steel uprights—not screwed or nailed. No nails to gather rust or pull out—no wood joints to collect water and rot. Can be furnished with Elevating Attachment.

GUARANTEED 5 YEARS—30 DAYS FREE TRIAL
Catalog shows complete Gates ready to hang or just the Gate Steels, hinges, bolts, etc. (everything but the boards.) Postal brings Catalog—free—postpaid. Write. ALVIN V. ROWE, Pres.
ROWE MFG. CO., 1812 Adams St., Galesburg, Ill.

GET DUVE'S FREE HARNESS BOOK

Big Catalog of HARNESS and SADDLE BARGAINS, Bridles, Horse Collars, Straw Work, Whips, Etc.
FROM DUVE (The Maker) TO YOU at WHOLESALE PRICES!
I sell all over the U. S. DUVE'S goods are dependable. Guaranteed against any defect. Write today NOW for my free book. A postal will do. Address
DUVE, The Harness Man, 311 South 7th Street, St. Joseph, Mo.

Farmers Met at Topeka

The annual meeting of the Kansas state board of agriculture was held last week at Topeka. There was a good attendance. The progress of agriculture in Kansas was discussed from various viewpoints. A deep personal interest was taken in the addresses; much time was given to the discussions.

W. R. Mellor, secretary of the Nebraska State Fair, spoke on "The Agricultural Fair." He told of the high educational value of modern fairs, and of the things they are doing to aid in rural progress. Mr. Mellor showed that a good fair is an investment that will pay high dividends in producing a more profitable agriculture.

Charles E. Lobdell, a member of the Federal Farm Loan Board, formerly of Great Bend, told of the Farm Loan Act. Mr. Lobdell believes this act will do much to encourage the agricultural development of the country. It will have a considerable tendency to reduce interest rates in Kansas, and in many other states the effect will be even more obvious. The bank for this district will be at Wichita.

The importance of dairying in developing a more profitable farming system for Kansas was the theme of the address by George W. Marble of Ft. Scott. Mr. Marble has done much to encourage the considerable interest in dairying near that town. He showed that Kansas is well adapted to a profitable type of dairy farming. This progress must come as a logical growth, directed by farmers who have a deep personal interest in dairying.

T. A. Borman, editor of the Kansas Farmer, delivered an address on "How to Farm in Kansas, and Why." He showed in this talk the importance of giving careful consideration to the local factors in planning the farming system; the rainfall, soils and altitude are of the greatest importance. The sorghums ought to be grown more extensively in Kansas, Mr. Borman said, on the soils to which they are adapted. He urged the importance of livestock farming and of better crop rotations.

"The Farm Flock for Kansas" was the subject of the address by A. L. Stockwell of Larned. He believes that a small farm flock can be kept on an average farm in Kansas mostly on the feeds that otherwise would go to waste, and he told of his experience in doing this. He believes the number of sheep in Kansas should be increased many times.

Mrs. Cora Wellhouse Bullard of Tonganoxie spoke on "Rural Permanency." She urged the importance of developing a better community spirit in Kansas; there must be more of a pride in rural things. An effort must be made to hold the young people on the farms by offering a more satisfactory life.

Charles Dillon of Topeka, managing editor of the Capper Farm Papers, talked on "The Farmer and His Paper." He told of the increasing cost of production of farm papers and especially of the higher cost of white paper. More than 2,800 publications in the United States have been suspended in the last six weeks because of these high costs. Most of these are country papers, but all classes are included. Mr. Dillon showed that many of the papers that are still alive are being produced at a loss, and he asked that the public be patient with smaller papers until the publications can adjust themselves to the new conditions.

An address on the work of the Hays Experiment station was delivered by Charles R. Weeks, the superintendent. This is one of the largest experiment stations, with 1,000 plats for tests on crops and more than 1,500 head of livestock. He told especially of the effort that is being made to work out field tests on better methods of crop growing.

J. A. Shoemaker of Topeka, the state rural school supervisor, talked on "The Standardization of Rural Schools." He urged that farmers study the school question more, and that they try to get their home school into the standard class. He showed that Kansas country life can never make the proper progress unless it is based on good schools.

Other talks were made by A. Ross Hill, president of Missouri State University; Charles M. Sawyer, chairman of the board of directors of the Federal Reserve Bank of Kansas City; Z. G. Hopkins, of the Missouri, Kansas and Texas railroad; T. A. MacDonald, chief engineer of the Iowa state highway commission; J. H. Mercer of Topeka, state livestock commissioner; and L. T. Hus-

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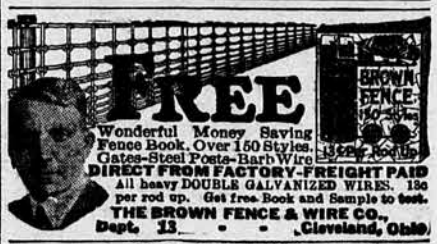

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sey of Topeka, the state fire marshal.

The exponents of a change in the personnel of the state text book commission received a rebuke from the members of the board and the delegates when, by a unanimous vote, they adopted a resolution urging that the president of the board of agriculture be retained as a member. The resolution favored the present policy of the state administration in the publication of text books.

An increase in the appropriation for carrying on the work of the secretary of the board in order that more advanced methods might be installed in the office and also to further the agricultural interests of the state was asked. The bee industry was mentioned in resolutions; the board is asking for legislation that will effectually eradicate infectious diseases. Approval of an act to amend chapter 177 of the laws of 1915 to require the county commissioners to assist in the payment of premiums for agricultural state fair associations was incorporated in the resolutions.

The secretary of the board was authorized to compile a complete classified Kansas breeders' directory, and to ask the legislature to appropriate sufficient funds to cover the expense of the work.

Officers and directors were reelected with one exception, E. R. Burton of Coffeyville, who was elected to succeed Charles E. Sutton of Lawrence. The officers are: J. T. Treadway, president, La Harpe; R. B. Ward, vice president, Belleville; A. W. Smith, treasurer, McPherson; J. C. Mohler, secretary, Topeka. The members of the board are: Arthur Capper, governor ex-officio, Topeka; J. T. Botkin, secretary of state, ex-officio, Topeka; H. S. Thompson, Sylvia; E. R. Burton, Coffeyville; I. L. Diesem, Garden City; O. O. Wolf, Ottawa; H. W. Avery, Wakefield; Thomas M. Potter, Peabody; T. A. Hubbard, Wellington; E. L. Barrier, Eureka; H. M. Laing, Russell; and E. E. Frizell, Larned.

The College Pig Club Winners

Walter Earl Delfelder, Atchison county pork producer, won first prize in the 1916 pig club work conducted by the Kansas Agricultural college and the United States Department of Agriculture. Walter's Poland pig weighed 80 pounds when the feeding test began. Fed for 132 days at a cost of $15.61 the pig weighed 355 pounds and was sold at a profit of $11.89. The cost of pork production was $5.60 a hundred pounds. Walter's grade was 92. In making awards 40 points was allowed for the story and records and the price of feed was computed at standard prices. The selling price was 10 cents a pound.

Second prize in the contest and the highest profit record went to Melvin Jung of Rice county. Melvin's Duroc pig weighed 29 pounds at beginning of the contest, was fed 168 days at a cost of $15.33, weighed 330 pounds when sold and paid a profit of $14.77.

George Delfelder of Atchison county came third with a Poland pig that weighed 321 pounds. The feeding cost was $6.20 a hundred and the profit $8.49.

John Reed of Rice county had a Duroc pig that brought $10.44 profit. It weighed 275 pounds, a gain of 230 pounds in 163 days. The feed cost $12.56 and the profit record was $10.44.

Orville Caldwell of Lyon county won fifth prize. His contest grade was 84. Orville's Duroc was fed at a cost of $12.81 and weighed 295 pounds at close of the 153 day feeding period. His profit was $12.09.

These are excellent records. It is interesting to note that all the prizes were won by boys who entered pure-bred pigs altho a number of grade pigs were entered in the contest.

Where is Clarence Dehart?

Clarence Dehart rode out of Omaha one day, 18 months ago, in a motor car which is never advertised except by persons with a very poor idea of humor. Clarence never returned and he never wrote a line to the folks at home, and the whole family, so William Blaney of Griswold, Iowa, says, is worried. Particularly grandpa. Clarence is 40 years old, heavy-set and light complexioned. Not a very lucid description, true, but if you see a man like this wandering around in a dinky little, unadvertised car, tell him, for goodness' sake write a line to grandpa, or to Bill Blaney of Griswold.

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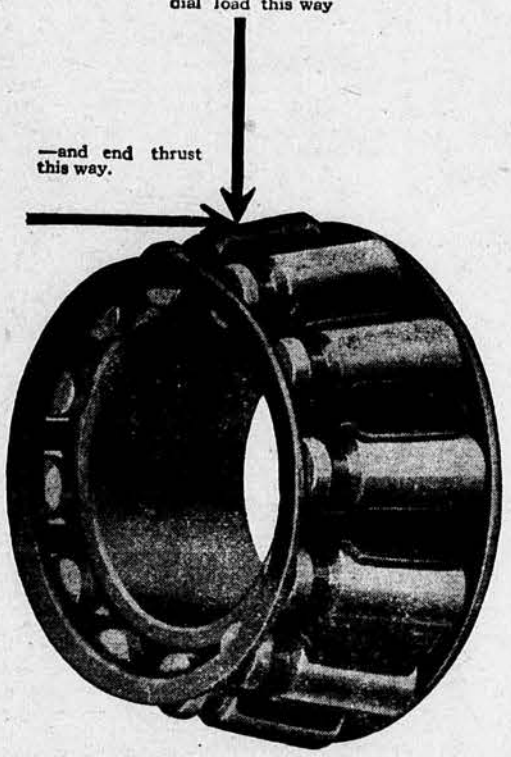

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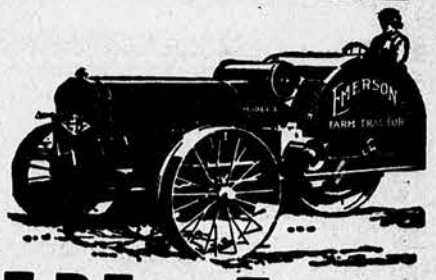

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A New Work Shop

BY HARRY A. HUFF
Dickinson County

Among the improvements we have added to our place recently is a shop we can work in during any kind of weather. This shop is about 20 by 16 feet, and is on the south end of our machine shed. In one corner we have a small forge and next to the forge is a good blacksmith's vise and bench. Then in the other corner we have a tool chest where we can keep the tools we do not use often. Along one side of the building next to the south side is a 14-foot work bench. There are three windows in the south side of the shop and one in the west end. The door is in the east end, and it is wide enough to admit a wagon or any other common farm implement. On the north side is a good sized stove, and it is possible to keep the shop warm even in a cold day. We also have a good anvil and a fairly good assortment of tools. It is a nice place to work in on a chilly day, and there will be many jobs done here that otherwise would be sent to a shop or left undone. One of the boys has been using it to build a boat in, and I have been doing some repairing on the inner tubes of the car. It is something that will pay on any farm, and if the boys have a chance to take manual training in school or in the state agricultural college they will be able to make all the more use of it.

One of the things we got shortly after we bought the car was a small vulcanizer. We use it to mend holes in the inner tubes and also have used it to mend the outside casing. When one of the casings gets a small hole in it we immediately clean it out and mend it, and we find that it will last much longer than where the dirt and water are allowed to get into it. One can patch almost any kind of a hole in an inner tube with it, and it seems to do a good job. We even cut a casing in two and then vulcanized the ends together again, and it is giving us good service.

The tops of the trees we cut recently for lumber were used for wood. We also got some drift wood from the creek. Then we grubbed out several apple trees and some other trees that were in the fields, and in this manner we are getting enough wood for another year. There is a large amount of wood being cut and sold here. Men are going to town with loads of wood every day, and they have no trouble in selling all they can get ready. Wood brings about $5 a cord when cut into 4-foot lengths. It is customary here for a man who does the grubbing to get all the wood. A man will come pretty near earning his wood when working that way. One man here is working at grubbing steadily, and he is making from $1.25 to $1.50 a day. That is not much but it beats doing nothing.

Organizing for Loans

One of the first farm loan associations to make application to the Federal Farm Loan Board for articles of association has been organized in Larned. Forty-five farmers met in the office of the Pawnee county farm bureau, and 13 of them decided to apply for loans aggregating $68,000. They provided as security land valued at $203,500. The funds obtained will be used largely in paying off old mortgages. A number of other farmers were present who expect to apply for loans later.

Farm Meetings at Manhattan

Much interest is being taken in Farm and Home week at the Kansas State Agricultural college, February 5 to 10. It seems probable that the attendance will be far larger than ever. Most of the farmers' associations of the state will meet during that time. A program for the week may be obtained from E. C. Johnson, dean of extension.

Sells 240 Acres for $30,000

The August Baden farm of 240 acres near Gaylord sold a few days ago for $30,000 to William Zabel. It was the highest price ever paid for farm land in Smith county. Mr. Baden paid $13,500 for the farm seven years ago.

Horse breeding is making good progress in Kansas. The ideal of breeding horses which have a definite utility value is becoming more general every year.

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Winter is the critical period for horses, cattle, sheep, hogs, chickens, in fact all the living assets of the farm.

The vitality required to resist cold and exposure draws on their reserve strength and long inactivity increases the danger from disease.

Because thousands of farmers have found many uses for Sloan's Liniment when emergency treatment was imperative, it has been aptly called the farmer's "veterinary" and has served him in this capacity for more than 30 years.

Your dealer has it in 25c. 50c. and $1.00 bottles. There is six times the quantity of the 25c. size in the dollar bottle. Full directions for its use with every package.

Sloan's Liniment KILLS PAIN
PENETRATES WITHOUT RUBBING

Sunday School Lesson Helps

BY SIDNEY W. HOLT.

Lesson for Jan. 28. Reverence of Jesus for His Father's house. John 2:13-22.

Golden Text. My house shall be called a house of prayer. Matt. 21:13.

After a very short stay at Nazareth, Jesus and His disciples with His mother and her family moved down to Capernaum. The exact site of this city is now a matter of dispute, but to us the beauty of the whole surrounding neighborhood is sacred to the memory of Jesus and His work. In His time the city was an important commercial and traveling center on the shore of the Galilean Lake, somewhere between the districts of Antipas and Philip. Early in April, Jesus went up to Jerusalem with His disciples to attend the feast of the Passover. While these great feasts were often misused, they were divinely appointed services and Jesus was always particular to observe them. In reality He was their fulfillment, and on these occasions He could scatter the seeds of His teaching among the Jews who came to the feasts from all parts of the world.

As they entered the great court of the gentiles, the sounds and movements of a market place, the disputing of the money changers, the wrangling of buyers and the tramping of the oxen and sheep greeted their ears. This custom of a market place inside the court had grown out of the necessity of each family having a passover lamb for sacrifice, and the yearly temple tax of half a shekel due from every Jew, no matter how poor. This money could not be received except in a native coin called the temple shekel. As it was not generally current, strangers had to change their Greek, Roman or Eastern money to get the coin required. People living near the temple could bring their own sacrifices, but those coming from a great distance were glad to purchase the animals and the salt, meal, oil and frankincense for the various offerings. At first this business was conducted outside the temple gates but gradually all of it came to be done within the temple courts. The temple authorities instead of being angered at such business received a large revenue from the rents and taxes.

Is it any wonder that when Jesus entered the court of the gentiles and saw the things that were taking place, indignation burned in His heart? Worship was out of the question with all that noise. The very object of the temple, a sacrifice, was sacrificed to the selfish greed of gain.

The gentiles or strangers were allowed only in this court. It was a place where outsiders could be reached by the religious influences of the temple worship. From here they could see the incense rising to heaven, the daily sacrifices for sin, and hear the prayers. Instead of peace and quiet the prayers were interrupted by all the confusion of a wicked market place.

For a moment Jesus stood alone. What He saw before Him must be stopped. It was contrary to all law, whether Jewish, Roman or Divine. Stooping He picked up a few ropes of braided rushes, a scourge good for driving cattle but really harmless to beast or man, then going on into the court He drove out the dishonest merchants who were defiling His Fathers' house.

The astonished crowd might have remembered the warning of Malachi, who said, "The Lord whom ye seek shall suddenly come to his temple; but who may abide the day of his coming for he shall sit as a refiner and purifier of silver." But they did not remember the warning; they merely fled before their guilty consciences. They knew in their hearts Jesus was right in quieting the turmoil allowed in the temple court.

Too often the gentleness and loving kindness of Jesus are considered as the only virtues needed by Christians, but if there is a lack of indignation and hatred toward the evil of the world in which we live, our love of the good does not go very far. The zeal of His indignation gave a power to His character, and in His disciples was bred a respect for God's Temple which before had been unknown, a reverence, not of mere Jewish laws but an understanding of sacred worship.

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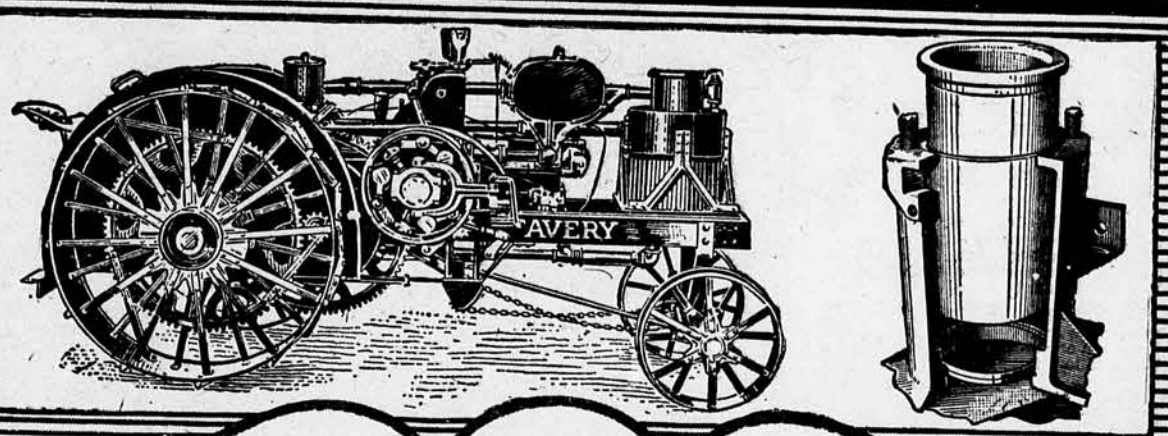

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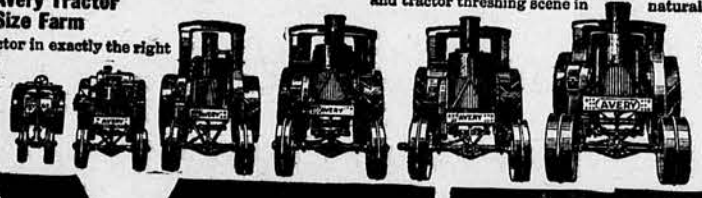

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Snow fell over most of Kansas since the crop reports given here were mailed to the Farmers Mail and Breeze. Last Sunday the snow measured an inch in Dodge City, more than an inch in Wichita and more than an inch in Topeka. The temperature all over the state averaged about 20 degrees at that time. Not since 1900 has there been a year with so little snow up to this time of year.

Wichita County—Some high winds and not much moisture. Not very good prospect for wheat, except in ground with plenty of trash and stubble. Corn $1; potatoes $2.10; flour very high.—Edwin W. White, Jan. 13.

Morton County—Stock is doing well. Plenty of grass in some localities, but scarce in others. Plenty of roughness, altho it is not all stacked. Too dry for wheat. Broomcorn is all on the market.—E. E. Nowlin, Jan. 12.

Crawford County—Having nice winter weather. Getting along nicely with plowing. Rough feed plentiful and stock doing well. Public sales are numerous and everything brings a good price. Some horses and cattle dying of stalk disease.—H. F. Painter, Jan. 13.

Sumner County—Having some pleasant and some bad weather. Stock doing well so far. Wheat needs some moisture. Very little snow has fallen this winter. Wheat $1.75; corn $1; oats 63c; eggs 36c; butter 39c; potatoes $2.50; flour $5 a hundred.—E. L. Stocking, Jan. 13.

Clark County—Dry, freezing weather has damaged the wheat to some extent. Have had one light snow. Feed is getting scarce. Very small number of cattle on full feed. Few fat hogs. Wheat about all shipped out. It is $1.81 a bushel now; corn, kafir, milo, $1 a bushel and none to sell.—H. C. Jacobs, Jan. 11.

Scott County—Cold, dry weather. No improvement in the condition of the wheat. Stock in good condition. Feed plentiful. Corn $1 a bushel. Farmers planning to put in large acreage of all kinds of crops in spring. Much interest in the farmers' institute at Scott City, January 2 and 3.—J. M. Helfrick, Jan. 13.

Sheridan County—Windy weather. Wheat in fair condition, possibly 80 per cent perfect. Feed is none too plentiful, but the county will have enough to get thru on. Corn mostly gathered and yield poor. Good many sales, with stuff selling well. Wheat $1.81; barley 83c; potatoes $1.90; cream 34c; eggs 30c.—R. E. Patterson, Jan. 10.

Saline County—We are having exceptionally fine winter weather. Plowing is in progress, and all kinds of work can be done. Not much feeding, quite a few cattle are being wintered. Hogs are scarce, $10 a hundredweight local market. Wheat looks all right. Shipped in oats 60c; corn 94c; potatoes $2; wheat $1.80.—John Holt, Jan. 12.

Leavenworth County—Clear, sunny weather. Roads fine. Cold, dry weather has injured wheat and it needs snow. Large acreage of oats will be sown. Some sales, and everything sells well except horses. Coal is $6.25 a ton, so more wood is being cut than usual. Wheat $1.80; corn 90c to $1.05; oats 60c; butter 30c; eggs 36c.—George S. Marshall, Jan. 13.

Norton County—Weather cold and dry. Farmers who have silos are happy these days, using the 40 per cent of feed that was wasted when fed as dry fodder. Stock of all kinds doing well. Fewer hogs in the county than in many years. Plenty of time after doing the chores to read and keep watch of the men who represent us in the legislature. Wheat $1.78; corn 86c.—Sam Teaford, Jan. 13.

Pawnee County—Have been having nice winter weather since the first of the year. Still dry, and moisture is needed badly for wheat. Stock doing very well. No fat hogs for sale in our locality. Hens have begun laying. Expect a large acreage of alfalfa in the spring. Wheat being marketed at $1.82; corn $1; oats 60c; hogs $9.10; hens 13c; cattle 5c to 8c; butter 30c; eggs 30c.—C. E. Chesterman, Jan. 13.

Elk County—Still having ideal winter weather. Farmers busy plowing and getting up wood. Stock looks well. Not many hogs, but price is high. Some horses being sold at fair prices to home buyers. We have had little snow or rain so far this winter. Prairie hay selling high and is being shipped out as fast as cars can be obtained. Eggs 34c; potatoes $2; corn 90c; cream 34c; butter 35c.—Mrs. S. L. Huston, Jan. 13.

Rawlins County—Weather very windy and dry. Very hard on wheat in plowed ground and in cornstalks which have been pastured, as the ground is blowing. Much fear that wheat will be damaged by high winds and dry weather. Still suffering from car shortage; some elevators only got two cars in the last month. Wheat is selling for $1.75; corn 80c to $1; barley 70c; oats shipped in for farmers 60c.—J. S. Skolout, Jan. 13.

Gray County—We are having a remarkably fine winter for stock, but more moisture is badly needed for wheat. Farmers are quite anxious about it. We have had a few light snows, but they contained very little moisture. Wheat has taken another jump in price, selling at $1.80 here, and considerable is being marketed. Corn is $1, and all feed is high. Butter at 30c and eggs at 30c will not pay cost of feed.—A. E. Alexander, Jan. 12.

Douglas County—Cold today, and windy for the last three days. Wheat needs moisture. Late wheat looks poor. In many fields the wheat is not visible from the road. A big snow is needed. Stock doing well. Feed is scarce and high-priced. A few sales are being held in the county. Farmers are getting 95c to $1 a bushel for corn; wheat $1.75 to $1.85; alfalfa scarce, baled $19, loose $17; hogs 10c a pound, and not as many in the county as usual; hens 14c; eggs 37c. A few mules being shipped for the Southern trade.—O. L. Cox, Jan. 13.

Hamilton County—Fine weather has changed to cold, with some snow. Livestock wintering well with but little feed. Have had 11 light snows, but the soil is very dry and we need moisture. Not many cattle being shipped out, but several thousand cattle and sheep will be brought in to graze. Many horses and mules in good condition for sale. Roads in fine condition. Not much broomcorn in hands of farmers. The last sold brought $200 a ton. Eggs 35c; butter 30c; chickens 14c; dressed hogs 12c; bran $1.50; flour $4 to $5.25 a hundred.—W. H. Brown, Jan. 12.

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In thousands of orchards the JAPAN DREAM has produced fruit in 15 months after planting. It bears younger, yields more fruit than any peach ever discovered. And such fruit!—big and round. Beautiful blush red! Fine flavor! Delightful aroma! A true freestone. Loaded with fruit every favorable year. Has no equal among early peaches.

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TOM McNEAL'S ANSWERS

Insanity and Divorce.

Is there a law that would free a man and woman if one of them was in the asylum and had been there for five years?

K. S.

No. Insanity is not a ground for divorce in this state.

Insurance Rights.

I own a farm and also a house in town. I wish to move to the farm before the first of March, 1917. I have to leave my furniture in the town house in order to hold insurance on it. I also intend to furnish the farm house and leave the furniture in it to hold insurance. Then I may come back to town to spend the winter. Can I hold insurance on both that way? At which place would I have to pay my personal property tax, on the farm or in town?

Parker, Kan. F. B.

It depends on the terms of your insurance policies. If they permit your insurance to run without actual occupancy of the premises you can hold your insurance on both as well as either one. Your personal tax is charged against you at your place of residence March 1. As you expect to establish your residence on the farm prior to March 1 that is where your personal tax will be charged.

His Scholarship.

A purchased a life scholarship from a business college. Gave a note signed by father and mother for $150. He attended school one week and quit. Paid $50 on entrance and was to pay note after graduation and while earning salary. Father had to pay whole note. Can we compel the college to return whole or part of the money?

G. A. P.

I do not see from your statement wherein the business college has failed to fulfill its part of the contract, and if it has not failed I do not see how it could be compelled to refund a part of the money. If you can show that it failed to perform its agreements, for example, if the instruction and course of study were not what was promised, or if in any other way it failed materially to fulfill its part of the contract then you have ground for recovery of whole or part of the money. But if A quit the school voluntarily without any particular ground for complaint you cannot recover.

Hospital for Tuberculars.

I wish information regarding the tubercular hospital at Norton. Is it a state institution? Does a patient pay extra for room and board, and how much? Also how much for treatment? How long is a patient required to stay?

A READER.

The Norton institution is a state institution. In case a person afflicted with tuberculosis has been a resident of the state for one year and is unable to pay for board and room and medical attendance such person may be admitted free. Such person must make application thru the local authorities of the county in which he resides having charge of the relief of the poor. Persons able to pay for board and room and treatment may be admitted on application to the superintendent of the sanitarium. The price charged such person is fixed by the board of control. If you will address a letter to the chairman or secretary of the board of control at Topeka you can obtain the information desired in regard to cost.

The Fence Eternal.

What end of a division fence belongs to a farm by law? Is it the right hand half? Can you compel a neighbor farmer to keep his hedge fence cut to a certain height in this state? If a hedge is allowed to grow up to posts in a division fence can one farmer claim all the posts if he planted the whole hedge row?

SUBSCRIBER.

There is no law designating which half of the fence shall be kept up by each adjoining landowner. When the matter is referred to the fence viewers they may designate which half of the partition fence is to be built by each landowner. Each township has the right to determine whether hedges shall be trimmed. Unless you have the hedge law you cannot compel your neighbor to trim his hedge. If one landowner has planted and maintained the entire hedge fence separating his land and that of his neighbor, he has the right to all of the posts. The mere fact that he planted all the hedge would not entitle him to all the posts, provided his neighbor subsequently paid for and maintained his half of the fence.

Add a little sugar to the pancake batter and the cakes will be much improved.

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50 Apple Trees $1.00 Choicest Varieties 1 POST PAID

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All ready for planting and in three years they will produce delicious apples for the home and a generous surplus for market that will net a handsome profit on the orchard. **Get this home orchard Today.**

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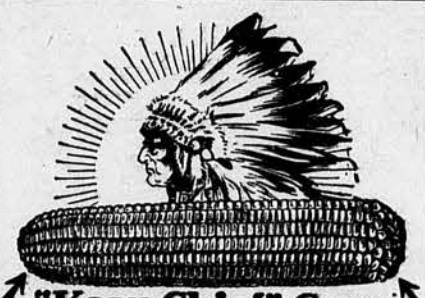

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GOOD BREEDING S. C. RED COCKERELS, sired by my first prize World's Fair cockerel. $2.50 and $5.00 each. Guaranteed to please. H. A. Meier, Abilene, Kan.

BRED TO LAY. S. C. REDS. CHOICE breeding cockerels; early, large, hen hatched, hardy, free range birds from heaviest winter layers, $1.50 to $3.50; satisfaction guaranteed. Belmont Farm, Topeka, Kan.

ROSE COMB RED COCKERELS OR PULlets $2.50. Bred from prize winners big shows in Kan., Missouri and Okla. Blood red with beautiful lustre. Red eyes and red pigment on legs. Three firsts at State Fair this fall. R. W. Baldwin, Conway, Kan.

100 ROSE COMB RHODE ISLAND RED cocks and cockerels sired by roosters costing $15 to $35; $2, $3.50, $5 and $7.50 each. A few higher. Order at once, they will go fast. Our pens mated for 1917 are the best we ever had. W. R. Huston, Red Specialist, Americus, Kan.

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PURE BRED M. B. TURKEYS, LARGE, prize winners. Sam Caughey, Asherville, Kan.

FOUR NARRAGANSETT TURKEY TOMS $5.00 each. Mrs. Perry Myers, Fredonia, Kan.

PUREBLOOD BOURBON RED TURKEYS. Toms $4. Hens $3. M. E. Noonan, Greenleaf, Kan.

MAMMOTH WHITE HOLLAND TURKEYS for sale. Mrs. Ada Poindexter, Medicine Lodge, Kan.

WHITE HOLLAND TURKEYS. TOMS $4. Hens $3. Mrs. Jane Thompson, Cambridge, Kan.

MAMMOTH BRONZE TURKEYS. TOMS $5.00. Hens $3.00. Mrs. Ruth Snowbarger, Le Roy, Kan.

MAMMOTH BRONZE TURKEYS, TOMS, pure bred, $5.00. Mrs. E. D. Ludwig, Wichita, Kan.

LARGE WHITE HOLLAND TURKEYS. Toms $5.00. Hens $3.00. Mrs. Ellis Paramore, Delphos, Kan.

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WHITE WYANDOTTE PULLETS CHEAP. G. D. Willems, Inman, Kan.

WHITE WYANDOTTE COCKERELS $1.50 each. H. Dierking, Bremen, Kan.

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PURE BRED WHITE WYANDOTTE COCKerels $1.50 each. M. C. Moye, Natoma, Kan.

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A FEW VIGOROUS WHITE WYANDOTTE hens $10 per dozen. B. R. Thompson, Garrison, Kan.

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PURE BRED SILVER LACED WYANDOTTE cockerels $1.50 apiece. John W. Riedl, Spearville, Kan.

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BIG BARGAINS IN REAL ESTATE

Dealers whose advertisements appear in this paper are thoroughly reliable and the many bargains are worthy of your consideration

Special Notice *All advertising copy discontinuance orders and change of copy intended for the Real Estate Department must reach this office by 10 o'clock Saturday morning, one week in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any changes in the pages after they are electrotyped.*

$15 TO $30 BUYS BEST wheat land in Gove Co. **P. J. Highley, Grainfield, Kan.**

3 SNAPS. Imp. 120 a. at $40; 160 at $55; 57 at $90. **Decker & Booth, Valley Falls, Kan.**

160 A. IMPROVED, half cultivated, mile to town, $5,000. **Fred A. Reed, Salina, Kan.**

PROSPEROUS Meade County, Land, $12 and up. No trades. **J. A. Denslow, Meade, Kan.**

160 A. imp., 40 a. wheat, 15 a. alf., bal. meadow and pasture. **Renstrom, Osage City, Kan.**

NORTHEAST KANSAS bargains in bluegrass, timothy, clover and alfalfa farms. Exchanges. **Compton & Keen, Valley Falls, Kan.**

WANTED: Parties owning Western Kansas land to write me your price and state if you will trade. **R. A. Ward, Alden, Kan.**

100 A., 1½ mi. Lebo, Kan., 80 cult., 20 bluegrass pasture. $75 a. Mtg. $2500, 6½%. Trade for mdse. **Hedrick & Beschka, Hartford, Kan.**

WHEAT selling $1.50 a bu. Have 480 acres, all best of land, mile and half out, 300 in wheat, ¼ with sale, small imp., good water, only $25.00 an acre. $5,000.00 cash handles it. Other bargains in wheat land. Highly improved 80 acres, Riley Co., Kansas, snap price. **R. C. Buxton, Utica, Kansas.**

FOR SALE. 183 acres located 1¾ miles from Oskaloosa, Kan. Well improved and all tillable. Price $105 per acre. For better description and terms, write
L. C. Arnold & Company, St. Joseph, Mo.

40 SECTIONS of ranch land in S. E. Okla. Good grass and worlds of water, sell all or part. Price $3.50 per acre.
Guss Schimpff, Burns, Kansas.

180 ACRES, highly improved wheat farm, well located; ½ mile to good school, 4 miles to R. R. town. Price, $12,500.
G. W. Meyer, Hoxie, Kan.

3 QUARTER SECTIONS, 3 MI. BROWNELL. 100 a. in cult., 10 a. growing alfalfa; all fenced, no improvements. Price $30 a. 10 years' time. Can be sold separately.
Western Real Estate Co., Ellis, Kansas.

CHOICE Scott County wheat land, 3 quarter sections joining the International Demonstration farm being about 5 mi. from Scott City, ½ mi. from another side track. Price for short time $20 an a., ½ cash.
The King Realty Co., Scott City, Kan.

WE OWN 100 FARMS in fertile Pawnee Valley; all smooth alfalfa and wheat land; some good improvements; shallow water. Will sell 80 acres or more.
E. E. Frizell & Sons, Larned, Kansas.

A FARM SNAP.
160 acres in Nemaha County, three miles from Goff, Kansas. Fair improvements. Corn, wheat and alfalfa land. Close to school and market. $5,000.00 cash. Balance on long time. No trade. Address
E. H. Johnson, Atchison, Kansas.

FERTILE KANSAS LAND CHEAP

Those who located in Central Kansas 20 years ago are the big farmers today. Their land has made them independent.

Your chance now is in the five Southwestern Kansas counties adjacent to the Santa Fe's new line, where good land is still cheap.

With railroad facilities this country is developing fast. Farmers are making good profits on small investments. It is the place today for the man of moderate means.

Wheat, oats, barley, speltz, kafir and broom corn, milo and feterita grow abundantly in the Southwest counties referred to. Chickens, hogs, dairy cows and beef cattle increase your profits.

You can get 160 acres for $200 to $300 down, and no further payment on principal for two years, then balance one-eighth of purchase price annually, interest only 6 per cent—price $10 to $15 an acre.

Write for our book of letters from farmers who are making good there now, also illustrated folder with particulars of our easy-purchase contract. Address

E. T. Cartlidge,
Santa Fe Land Improvement Co.,
1891 Santa Fe Bldg., Topeka, Kan.

160 ACRES located 2 miles of good railroad town, Franklin County, Kansas. All nice smooth tillable land; 120 acres in blue grass pasture, and timothy and clover meadows; good 7 room house; good barn; close to school and church. Price $75 per acre. Extra good terms.
Casida & Clark, Ottawa, Kan.

160 ACRES rich dark loam soil, 5 room house, large barn, crib and other improvements, well and cistern. For immediate sale $65 per acre. Possession at once. 80 acres close to town, good 6 room house, number one barn, 1½ acres fine orchard, 25 acres tame grass, well watered, price $5200. Possession at once, if wanted.
Mansfield Land Company, Ottawa, Kansas.

FOR SALE: 160 acres, Sheridan Co., 3½ mi. town; 125 under cult. $22 per acre.
640 acres Trego County, 13 miles from Wakeeney; 200 in wheat, ½ goes with the place. Price $20 per acre.
7400 a. Wallace Co.; well improved, 90% tillable; 800 cult. On main line of U. P. $74,000, ¼ cash, bal. good terms.
601 Rorabaugh Bldg., Hutchinson, Kan.

1500 ACRE RANCH, 1 MILE OUT.
Bottom land, 500 acres hay, $17, terms.
Cliff Tomson, Syracuse, Kan.

WELL IMPROVED QUARTER.
5 miles southeast of Topeka, Kan., on good road. 40 a. blue grass pasture, bal. cultivated. Price $16,000; half cash. Address
Owner, Box 433, Des Moines, Iowa.

ONE OF THE BEST STOCK FARMS
in Anderson Co., Kansas. Section of land near Colony; 100 acres cult.; bal. blue grass and native grass; good improvements. Extra well watered, valley land. Can be bought cheap. Address **J. F. Ressel, Colony, Kan.**

FOR SALE FOR CASH.
A good clean stock of general merchandise consisting of groceries, hats, caps, dry goods, notions, boots, shoes, in fact, one of the cleanest stocks you ever had the pleasure of looking at, any part of the stock not in good shape will be cut out. Stock will invoice about $4,500 and fixtures will run around $500. I cannot spare the time from my other business. If you want a good clean stock in a good location, wire, phone, write or come and see. Priced to sell.
J. H. Lee, Agent, Harveyville, Kansas.

SOME BARGAIN—KANSAS FARM.
320 acres Anderson Co., Kan., near Ottawa—Joins shipping station—80 blue stem pasture, 180 timothy and clover, 40 corn, running water, fence good—cozy 6 r. house, cement sidewalks, hay barn for 50 ton—horse barn, new cow barn 28x56 cement floors—on Santa Fe Trail Auto road—underlaid with vein commercial coal—well watered; Possession—Inspected and guaranteed. Price with coal right $65 per acre—without $55—only $5,000 cash, bal. to suit. See it now. A sure bargain—Township map Kansas 15c postpaid—Let's get acquainted. **"Lott, "The Land Man," 1015 Baltimore, Kansas City, Mo.**

WANT GOOD LAND CHEAP?

We have it in Seward County. Ask for list or come and see
Griffith & Baughman, Liberal, Kan.

WICHITA FARM BARGAIN

160 acres 8 mi. from Wichita, Kan., rich loam. 6 room house, barn, 30 a. alfalfa. All fenced. Price $60. Same land selling $75 to $90. $3,000 will handle this, bal terms 6%. **H. E. Osburn, Wichita, Kan.**

NESS COUNTY

Good wheat and alfalfa lands at from $15 to $30 per acre. Also some fine stock ranches. Write for price list, county map and literature.
Floyd & Floyd, Ness City, Kan.

GOVE COUNTY

this year has produced two million bushels of wheat from one hundred thousand acres. If you want good, rich wheat land at fair prices—$15 to $30 per acre—address
J. E. Smith, Grainfield, Kan.

80 ACRES ONLY $500

Near Wellington; good loam soil; 60 a. cult.; 20 past.; 4-room house, barn, etc., Poss.; only $500 cash, bal. $260 yearly.
R. M. Mills, Schweiter Bldg., Wichita, Kan.

TO CLOSE ESTATE

100 ACRES rich Kaw Valley farm, no waste; one-half mile to station, 2 miles to good town and high school, fine improvements. Write or telephone.
B. L. Fowler, Executor, Perry, Kan.

A BIG BARGAIN

640 acres, 3 miles from Spearville, highly improved, 8-room house, two very large barns, with big mow capacity, cow barns for 400 head cattle, other outbuildings; land in high state of cultivation. 540 a. in wheat, all goes to purchaser. $50 per acre; good terms.
C. W. West, Spearville, Kansas.

760 Acres Kansas Ranch

3 miles county seat town in rain belt. 200 acres fertile valley land. Shallow water, balance hay and pasture. Living water, modern 9 room house, 2 barns, silo. A combination farm and ranch certain to increase in value. Price very low for quick sale, terms 5½%. Possession March. Also other bargains. **Parish Investment Company, Kansas City, Mo.**

ROOKS CO. FARM

200 acres, 4½ miles from Stockton, with a good 5 roomed house, good barn, room for 10 head of horses and 800 bushel bin, with hay mow, granary room for 1800 bushels, cow stable and sheds. 100 acres in cult. 100 rough pasture, 2 wells and 2 wind mills, three-fourths of a mile to school. Price $40 per acre.
A. L. Graham, Real Estate, Stockton, Kansas.

For Sale — 160 Acres

improved farm, 1½ miles west of White Cloud on main road. 50 acres in alfalfa and clover. Good water; good title. $115 an acre. This is the best farm bargain between White Cloud and Hiawatha.
Jas. P. Kelley, White Cloud, Kansas.

Lane County

Write me for prices on farms and ranches, wheat, alfalfa and grazing lands.
W. V. Young, Dighton, Kan.

CHASE CO. STOCK RANCHES

640 a. improved, 2½ miles railroad, 100 a. cult. 50 a. alfalfa. $40 per a. Send for list. Stock ranches in best county in Kansas. Also alfalfa farms.
J. E. Bocook, Cottonwood Falls, Kansas.

BARGAIN LAWRENCE, KAN.

385 acres, stock farm, 2 mi. from University of Kansas, and city limits of Lawrence, 100 acres bottom land. 30 a. alfalfa, 60 a. wild hay meadow, 55 a. clover, balance blue grass pasture, 7 room house, good barn, well watered, until March 1st, 1917, $70.00 per acre.
Hosford Inv.&Mtg. Co.
824 Mass. St. Lawrence, Kan.

Cash for Farm Lands

Where you find one purchaser for a large tract of land we can furnish twenty wanting small tracts. 40s and 80s. Let us subdivide and sell your place. Write for particulars and references. Closing up estates a specialty.
MIDDLE WEST LAND AUCTION COMPANY
C. F. Sutter, Pres. I. H. Johnson, Gen'l Mgr.
P.O. Box 374. Office, Hub Bldg., Salina, Kan.

400 Acre Ranch, Phillips Co., Kan.

Situated in the Prairie Dog Creek Valley, 1 mile south of the Kansas-Nebraska line. 350 a. now in cultivation, 200 a. now in wheat, 150 acres corn ground. 240 acres fenced and cross fenced. 15 acres of timber. 35 a. of pasture. 8 room frame house. Frame barn, will stable 12 horses. Stud and jack barn. Cow barn, with stanchions. Will stable eight cows. 2 good steel mills. 30 feet to water. 1 set of scales, 2 granaries, hen house and cellar. Cash price $50 per acre. Will carry $12,000 on first mortgage at 5%. Address
Woodruff State Bank, Woodruff, Kan.

Executors Sale

FINE STOCK RANCH

The A. F. Shute Stock Ranch, containing 970 acres will be sold to settle the estate February 10, 1917, at two o'clock P.M. at the Court House in Salina, Saline County Kansas. This ranch is situated 2½ miles from Brookville, and same distance from Bavaria, two good trading points on the Union Pacific Railway. Is well improved, about 450 acres in cultivation, balance in good grass and pasture, and all fenced. Will be sold to the highest bidder for cash. Abstract will be furnished.
Thos. L. Bond, Executor, Salina, Kan.

FINE 400 ACRE FARM —STEVENS COUNTY

AT A BARGAIN PRICE.
I have one of the best 400 acre farms in S. W. Kansas, improved, for sale at a sacrifice price. Situated 11 miles north of Tyrone, Okla., and 13½ miles from Liberal. Write for full description and price if you want a snap.
E. J. Thayer, Liberal, Kan.

OKLAHOMA

EASTERN OKLAHOMA farms, ranches, oil lands. $5 up. **Blanck Bros., Stillwell, Okla.**

158 A., 95 cult. 2 sets improvements. Fine water; open stock range. $35 per acre.
W. J. Foreman, Westville, Okla.

40 A. 5 MI. McALESTER, city 15,000. 23 a fine bottom cult. Fair imp. $26 per a. Terms. **Southern Realty Co., McAlester, Okla.**

FOR SALE. Good farm and grazing lands in Northeastern Oklahoma. Write for price list and literature.
W. C. Wood, Nowata, Oklahoma.

BOTTOM FARM. 160 a. 2 mi. station. (80 plowed, some nice mow land). Corn, wheat and alfalfa land. Nice grove; poor improvements. Pure water. 1 mi. school. Price $3,000. Time on $1200 at 5%.
Perry DeFord, Oakwood, Oklahoma.

MISSOURI

120 ACRES, 60 cult. Improved. Good water. $2400. **W. W. Tracy, Anderson, Mo.**

IMP. farms worth the money, stock, fruit and grain. **McNabney & Sayre, Southwest City, Mo.**

145 ACRES, $45 per a. $1500 cash; fine creek bottom and prairie. I advertise bargains only. **H. G. Mosher, Schell City, Mo.**

STOP! LISTEN! 160 a. valley farm, $3,000. 5 room plastered house; near town. Good terms. Free list. **McGrath, Mtn. View, Mo.**

320 ACRES, the best farm in Ozark Country and best improved. Valley land. Improved for dairying; 250 a. tame grass. $65 acre. Terms. **J. A. Wheeler, Mountain Grove, Mo.**

120 A. EXTRA WELL IMP. Water, grass and fruit. 100 a. cult. Bal. timber. $45 a. Lays fine. 35 acres meadow.
Baker, Mountain Grove, Missouri.

I OWN 4 STOCK FARMS
from 40 to 640 a. Well watered. No trade. Descriptions furnished. Liberal terms.
N. L. Townsend, Mountain Grove, Mo.

80 ACRES, 60 CULTIVATED.
Good improvements. Timber and pasture; abundance water. $40 a. Terms. Two miles railroad. **R. R. Moore, Collins, Mo.**

GREAT BARGAINS.
$5.00 down, $5.00 monthly, buys 40 acres good fruit and poultry land; near town, some timber, price $200. $10 monthly buys 80 acres. **Box 808, Excelsior Springs, Mo.**

TEXAS

RICH ARTESIAN LAND. Onions and strawberries net $500 acre. Mild winter work. $50 to $100 acre. Buy some future comfort.
J. F. Nooe, Boerne, Texas.

ALFALFA, hogs, corn, dairying, on irrigated farms. Northwest Texas. No floods, no droughts. Good climate, good schools, good roads, good water, good soil, good markets, good neighbors. Easy terms. Write to me about this land. **Stevens A. Coldren, 601-4 Gloyd Bldg., Kansas City, Missouri.**

NEBRASKA

FARMS AND RANCHES: 160 to 4,000 a.; pay like rent. Write for photos and description. **R. D. Drullner, Benkelman, Neb.**

1120 ACRES IMPROVED land Blaine Co., Neb. 500 acres hay and farm land. 100 acres in cult. Price $12.50. Mtg. $4000. Will take exchange for part.
B. C. Empfield, Broken Bow, Neb.

FARM LOANS

FARM AND CITY MORTGAGES a specialty. Write us if you wish to borrow.
Perkins & Co., Lawrence, Kan.

MONEY TO LOAN on improved farms or ranches. Stocks, and bonds bought and sold. **Wiltse Agency, Lincoln, Neb.**

FOR SALE OR EXCHANGE

TRADES EVERYWHERE. Exchange book free. **Bersie Agency, El Dorado, Kan.**

240 A. KAW VALLEY LAND. IMPROVED.
J. M. Conlan, St. Marys, Kansas.

TRADES EVERYWHERE. Large list free. **Reeve & Staats, Emporia, Kansas.**

WHATEVER you may have for exchange write me. **Eugene Oaks, West Plains, Mo.**

OZARKS OF MO., farms and timber land, sale or ex. **Avery & Stephens, Mansfield, Mo.**

1000 ACRES exchange for anything. 10 a. up. Timber, water and grass.
S. A. Robinson, Southwest City, Mo.

LET me know what you have for exchange or sale. **Co-operative Realty Co., Humansville, Mo.**

TRADES Farms, property, stocks. Write **Ochiltree, St. Joseph, Mo.**

THREE RANCHES in Elk Co. to exchange for wheat land, city property or small farm.
F. J. Brown, Howard, Kansas.

300 ACRE ranch, blue grass, $50 per a. Equity $9,000. Want garage, good town; some cash. **John W. Goff, Willow Springs, Mo.**

160 A. FOR SALE OR EXCHANGE.
Rent for $300.00. Well improved stock and grain farm.
Owner, John Deer, Neodesha, Kansas.

Farm for Exchange

160 a. Anderson Co., 1½ mi. Welda, Kan. Well improved, plenty good water, good black soil. 105 cult., bal. meadow and pasture. All tillable. will exchange for well improved 80 near Topeka, on a fair valuation basis. Give complete description of what you offer in first letter. Address owner,
L. L. Vrooman, Route 7, Topeka, Kan.

ARKANSAS

40 ACRES, improved. 38 cult. $2000. ½ cash. Terms. **Fair, Centerton, Ark.**

FOR ARKANSAS farms and ranches, write for lists. **R. D. McMullen, Ola, Ark.**

40 ACRES, IMP., 25 A. CULT. $1,400.00. Moss & Hurlock, Siloam Springs, Ark.

100 A. 2 mi. county seat, 65 in cult. Improved. **B. H. Atkinson, Berryville, Ark.**

IF YOU want a wheat or stock farm, write for price list. **C. L. Wilson, Tribune, Kan.**

100 ACRES 6 mi. from R.R. 60 a. in cultivation; fine improvements; good team; $1750. Terms. **Wallace Realty Co., Leslie, Ark.**

500 ACRE plantation. 350 cultivated; make five good homes. Fine soil, water, timber, location. $30 acre. **Guthrie, Ozark, Ark.**

226 ACRES, upland stock ranch. Imp. 90 in culti., balance timber. 9 miles Charleston, $3000; terms half. **Goodbar, Charleston, Ark.**

FINE FARM LANDS. River bottom, cut over and grazing lands. At lower prices than you can buy in any other state. **T. I. Greenstreet, Ft. Smith, Ark.**

ALFALFA LAND, 360 acres; 3 miles Conway. 330 bottom; level, smooth, fertile, productive; no rock; rich as Valley of Nile. 100 a. cult. 2 sets imps. Can you match it? $12.50 a. **Bahner & Co., Conway, Ark.**

FOR SALE, 15,000 ACRES good unimproved agricultural lands. No hills, swamps nor overflows, close to good market town of 25,000; healthy, good schools; land can be put in cultivation cheap. The rent you are paying will pay for a farm. $15 per acre, $3 per acre down, bal. 10 years 6%. **Frank Kendall Lumber Co., Pine Bluff, Ark.**

200 ACRES, 100 cultivated, one mile town. Three houses, well watered. $4500. Terms. **W. W. Adams, Ozark, Ark.**

COME TO CLEBURNE county, Arkansas. Land $5 up; easy terms. Send for list. **Claude Jones, Heber Springs, Ark.**

160 ACRES, good improvements. 135 cult., bal. timber. $40 an a. Well watered. **J. F. Stevenson, Dardanelle, Ark.**

IF YOU WANT good farm, stock and fruit lands, write us for list. **Robertson & Son, Magazine, Arkansas.**

80 ACRES, 30 in cult.; small house. Bal. timber. 5 mi. Marshall on turnpike road. Terms. $10 a. **Lock Box 21, Marshall, Ark.**

132 ACRES, improved. 100 cult., bal. timber and pasture. $3,000. Good terms. **Yell Co. Land Co., Danville, Ark.**

40 A., 4 room house, good outbuildings 1000 fine bearing fruit trees; good water. 2 mi. R. R. Price $1000. Easy terms. **J. M. Doyel, Mountainburg, Ark.**

42 ACRES, 4 mi. from County Seat; 20 acres in cultivation; 2 wells; 4 room house; nice orchard; a dandy little home for $1000. Good terms on half. **R. G. Oliver, Waldron, Arkansas.**

110 ACRE FARM, 65 acres bottom land in cultivation, 35 acres more tillable land produced this year $75 per acre. Two 3 room houses, good water. Price $2,000. **J. C. Hart, Owner, Waldron, Ark.**

530 ACRES rich bayou land, 8 miles of Little Rock, 1 mile of pike. 200 acres high state of cultivation, balance cut over; can be put in cultivation for $6 per acre. $40 an acre. Half cash, balance terms. **Southern Trust Co., Little Rock, Ark.**

FOR SALE.
Improved and unimproved tracts of land in Jefferson County, Arkansas, and vicinity; 40 acres and upward, $17.50 per acre. Terms. No trades. Other lands same character in vicinity selling at $25 per acre and upward. **Mills & Sons, Box 387, Pine Bluff, Ark.**

THE LAND OF OPPORTUNITY.
Perry County, Arkansas. **Improved farms;** rich level land, soil that will produce wonderful crops of corn, wheat, oats, clover and alfalfa at prices ranging from $15 to $35 an acre. Good terms. Come, join a community with a future. Free literature. Write today. **Chafin-Colvin Land Co., Perry, Ark.**

100,000 ACRES FOR SALE.
Farms and ranches, any size, cash or terms, low prices, profit doubling values, no rock or swamp, fastest selling land in south; sure crops; pastures 3 head to acre; bears inspection. Free map and price list. **Tom Blodgett, Little Rock, Ark.**

MONTANA

640 ACRE Montana Homesteads—new law. Circular free. **Bureau 112, Boulder, Mont.**

MONTANA The Judith Basin offers exceptional opportunities to the farmer, stockman and investor. Surecrops by ordinary farming methods. Harvest every year—not once in awhile. No irrigation, splendid climate, excellent water, good markets. You can do better in the Judith Basin. Buy direct from the owners. Prices lowest; terms easiest. Free information and prices sent on request.
Address THE COOK-REYNOLDS CO., Box R1405, Lewiston, Montana

WYOMING

Free—640 Acre Homesteads
IN WYOMING.
We will locate you and stock you with sheep or cattle. For particulars write
Western Ranch Exchange, Eastern Office,
P. O. Box 1106. Lincoln, Neb.

ALABAMA

THE GREATEST stock farm and hog raising proposition in the United States, 2500 acre farm at Montgomery, Alabama, alfalfa and corn land, well improved, railroad station, fronting 6 miles on hard road. $25 an acre. Half cash, balance ten years, 5%. **F. M. Kohn & Son, Montgomery, Ala.**

Market Doubts Europe's Sincerity

(Owing to the fact that this paper is necessarily printed several days prior to the date of publication, this market report is arranged only as a record of prices prevailing at the time the paper goes to press, the Monday preceding the Saturday of publication.)

New high record prices since the period of inflated money following the Civil War were paid for carlots of wheat and for Chicago May corn last week. The May wheat price fell short 4⅝ cents in Kansas City and 5¾ cents in Chicago, of attaining the high prices reached last November. Carlots of choice wheat sold up to $2 a bushel in Chicago and as high as $1.98 in Kansas City. May corn rose to $1.00¾ in Chicago. The week's top for Kansas City May corn did not quite reach last November's maximum price.

Trade futures were exceedingly nervous all week. The dominating strengthening influence was the belligerent attitude assumed by all parties in the great war in their replies to President Wilson's note requesting a statement of terms on which peace might be established. Neither party evinced any disposition to compromise and both apparently are disposed to fight on until one side or the other is in a position to dictate its own terms. This attitude seems to preclude any new peace developments in the near future.

Nevertheless the fact that the rise in prices was not maintained indicates that the grain trade is very nervous over the situation and is not at all certain that there may be a new outbreak of peace talk at any time.

Exports from the United States and Canada increased substantially last week, amounting, according to Bradstreet's, to 8 million bushels, a large proportion of which went from United States ports. New York messages reported increased numbers of ships arriving to take out the grain now waiting at ports.

Wheat is moving out of Kansas City elevators faster now than at any previous time this season. The decrease in Kansas City last week was about a million bushels and in the preceding week 585,000 bushels.

Corn futures moved narrowly during most of the week. The Chicago May price attained a new high record, $1.00¾, and then fell back. Last week's corn receipts at primary markets were a little larger than a year ago and about half those of two years ago. The movement from the country continues relatively small.

Trade in livestock last week not only developed new high record prices for January, but demand was such that salesmen believe still higher prices are to follow.

Lambs sold u. to $13.65, the highest on record; top for hogs was $10.80, a new January record, and some good steers, tho not finished, brought $11.25. The plainer quality cattle, which predominated, were relatively as high as the best grades offered, and killers say that cost of meat is beyond all former high levels. The liberal movement and short weights indicate that countrymen are taking advantage of the high prices and selling as early as possible.

At the five Western markets the week's cattle receipts were about 41,000 larger than the previous week.

In line with the active demand at central markets numerous deals were reported in the Southwest range district in the older classes of steers at $65 to $80 a head. This is in anticipation of the spring pasture operations.

The greatest activity in cattle was in the better classes, and from the buyers' side it was a hard proposition to get a "buy" of good killing steers. Plain kinds, tho fairly plentiful, sold readily and prices advanced 10 to 15 cents. Native steers sold up to $11.25, and Oklahoma steers up to $11. Most of the Kansas and Missouri steers brought $9.25 to $10.50.

Prices for butcher cattle were 10 to 15 cents higher. Cows sold up to $9 and steers and heifers mixed up to $10.50. The top for veal calves was $11.50 and for bulls $7.50.

About 16,000 stockers and feeders, the largest supply for some weeks past, were sent back to the country. Prices were up 10 to 20 cents for the better classes, tho no more than steady for other grades. The best demand was for heavy feeders and choice 950 to 1,100-pound grades sold at $8.50 to $9. In some cases countrymen outbid killers. Two carloads weighing 1,140 pounds sold to an Ohio feeder at $10.25. Killers' bid was $10.20.

Tho the top price for hogs was only $10.70, choice hogs would have sold for $10.80 or as high as Tuesday, the highest point this month and 10 to 15 cents above the preceding week. Both shippers and packers were active buyers. Receipts in Kansas City were smaller than at any of the other Western markets. Chicago received 269,000, Omaha 112,000, and St. Louis 82,000, St. Joseph 59,400. Kansas City got 57,900. St. Paul, Sioux City and Northwest points reported liberal supplies.

Receipts of livestock last week, with comparisons, are here shown:

	Last week.	Previous week.	Year ago.
Cattle—			
Kansas City	43,250	31,550	35,050
Chicago	67,500	51,500	52,200
Five markets	183,550	142,875	142,650
Hogs—			
Kansas City	57,100	45,600	70,700
Chicago	269,000	200,000	254,000
Five markets	579,800	422,300	534,950
Sheep—			
Kansas City	42,525	35,750	41,950
Chicago	76,000	56,500	88,000
Five markets	206,075	155,650	203,550

University Needs Rooms

With an enrollment double that of 10 years ago the University of Kansas lacks one room of having as many rooms today as it had for its students 10 years ago. In the last 10 years the state has authorized 30 new rooms for the university and in the meantime has taken from the university 31 rooms for state service work such as the pure food and drugs laboratory, water analysis, sanitation and other important state service work.

The University of Kansas had an enrollment 10 years ago of 1,690. The total enrollment to date this year is 3,298, practically double that of 10 years ago. In this same decade the towns and cities of Kansas increased the value of their educational institutions more than 14 million dollars, a recent report of the board of administration to the governor shows. This increase was mostly in high school buildings and equipment and every bit of it demanded more and more of the state university with its almost stationary growth in equipment.

The first university building, old North College, has been condemned as unsafe by the state architect, the professor of architecture in the university and the university superintendent of buildings and grounds. It will not be used after this year. With its passing the university will lose twelve rooms. Unless other provision is made the university of Kansas next year will have 13 fewer rooms than 10 years ago.

To accommodate the increased demands on the university the board of administration has decided, after a conference with Governor Capper and State Auditor W. E. Davis, to recommend two new buildings. One of these would be the central section of the administration building, the foundation and basement of which were finished several years ago. Practically all this section would be used for class rooms. The second building would contain an auditorium and class rooms for the music and arts department. The university now ranks below many ordinary high schools in facilities for bringing its students together in chapel or other exercises. Its chapel, built in 1872 largely by gift of the city of Lawrence, seats only 830 persons. When there is special convocation, an important meeting, concert or other gathering, it is necessary to go to the extra expense of putting temporary seats in the gymnasium, which then seats only 1,800 students. At a recent assemblage of students there was not room for all the students and the seats too, so the students sat on the floor.

Mabel—"Was your bazaar a success?"
Gladys—"Yes, indeed; the minister will have cause to be grateful."
Mabel—"How much were the profits?"
Gladys—"Nothing. The expenses were more than the receipts. But ten of us got engaged, and the minister is in for a good thing in wedding fees."—Stray Stories.

WISCONSIN

80,000 ACRES our own cut-over lands; good soil, plenty rain, prices right and easy terms to settlers. Write us. **Brown Bros. Lbr. Co., Rhinelander, Wis.**

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FOR BARGAINS IN ILLINOIS FARMS, Address **S. H. Morton & Co., St. Louis, Mo.**

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Virginia Farms and Homes
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SOUTH DAKOTA production from natural resources is the largest in the world for population employed. Do you want to share in this? Get bulletins from the **Department of Immigration, State Capitol E 3, Pierre, South Dakota.**

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318 ACRES, house 10 rooms; 2 large barns. Buildings insured for $4100. To settle partnership must go at once $20 per acre. $1500 cash, balance time. **Hall's Farm Agency, New Paltz, N. Y.**

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To introduce McCall Patterns, The McCall Company allows each subscriber for McCALL'S MAGAZINE to choose from her first copy of McCALL'S any one 15 cent McCall Dress Pattern FREE. Send free pattern request to McCall's Magazine, New York City, giving Number and Size, with 2-cent stamp for mailing. McCall's Pattern given only with clubs containing McCall's Magazine.

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Jas. T. McCulloch, Clay Center, Kan. References The breeder: I am selling for every year. Write for open dates.

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Make from $10 to $50 a day. We teach you by correspondence or here in school. Write for big free catalog. We are also starting a new breed of horses known as "Wagon Horses." We register 25 of the best mares in each county. Foundation stock mares to weigh about 1,250 pounds. Stallions must be registered Percherons.

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Bargain for 10 Days Only: 5 Fine Jacks from 1½ to 4 years old; 6 extra large jennets. HERMAN WETZ, KIOWA, KAN.

FOR SALE 6 Jacks, 6 Jennets, 3 Percherons and 1 Standard bred stallion. For information call on or address F. W. POOS, POTTER, KAN. (Barn 3 blocks north of depot)

ONE JACK 5 years old, black with white points, height 14-3; extra good bone. Quick performer. Will sell or trade for young mules or cattle. W. C. ISERN, ALDEN, KANSAS.

7 JACKS, 10 JENNETS

Two to 7 years old, 14 to 15½ hands high, heavy bone. Priced to sell. For further information write

A. ALTMAN, ALMENA, KAN.

Kentucky Jacks and Saddlers

Registered BIG BONE Kentucky MAMMOTH JACKS and JENNETS. 85 SADDLE and CUBAN GAITED STALLIONS, geldings and mares. YOU CANNOT AFFORD TO BUY UNTIL YOU get our description and prices. WRITE US describing your wants. Mention Mail and Breeze

THE COOK FARMS, Box 436K, Lexington, Ky.

15 JACKS 20 JENNETS

3 to 6 years old. 15 to 15½ hands high.

Excellent in bone, size and conformation. Write today.

Philip Walker

Moline, Elk County, Kansas

JACKS FOR SALE

Seven head, blacks with white points, except one which is dark gray. Ages as follows: Two that are two years old, two, three years old. Two coming eight and one coming ten. All broke to mares and prompt performers. Colts to show from matured jacks. Mares in foal from past season. Also Standard bred stallion. Would consider ton draft stallion on some of this stock. All jacks eligible to reg.

Thompson Bros., Marysville, Kan.

HORSES.

PERCHERON AND BELGIAN

Over 60 Head of Registered Stallions, Mares and Colts

To close up a partnership the mares and colts must be sold by March 1st. I mean business. Come and see them.

J. M. NOLAN, PAOLA, KANSAS

Woods Bros. Co., Lincoln, Neb.

Imported and Home-Bred Stallions Percherons, Belgians and Shires

Come to Lincoln and visit our barns. We will show you 75 stallions, yearlings, 2-year-olds, 3-year-olds and aged horses that you will say are the draftiest, best boned, cleanest lot of stallions you ever saw together. We are especially strong in yearlings and 2-year-olds that will mature into 2,000 to 2,200-pound horses.

Our imported stallions are direct from the Aveline stud, the only shipment leaving France since the outbreak of the war.

Our 1916 show record at the Nebraska and Kansas State Fairs includes 37 first prizes, 14 senior and junior championships, 10 grand championships, 17 second prizes, 12 third prizes.

Our prices, terms and guarantee will suit you. We expect to show at Denver, Colo., Jan. 20-27.

A. P. COON, Manager

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and Okla., 128 Grace St., Wichita, Kan.
John W. Johnson, N. Kansas, S. Neb. and Ia. 820 Lincoln St., Topeka, Kan.
Jesse R. Johnson, Nebraska and Iowa. 1937 South 16th St., Lincoln, Neb.
C. H. Hay, S. E. Kan. and Missouri. 4204 Windsor Ave., Kansas City, Mo.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Combination Sales.

Feb. 26 to Mar. 3—F. S. Kirk, Mgr., Wichita, Kan.

Percheron Horses.

Jan. 30 to Feb. 2—Illinois Breeders, Bloomington, Ill. C. W. Hurt, Mgr., Arrowsmith, Ill.
Feb. 1—J. W. Smith, Courtland, Kan.
Feb. 9—Breeders' combination sale, Manhattan, Kan.
Feb. 15—C. S. Butler, Cherryvale, Kan.
Feb. 17—C. H. Payton, Norton, Kan.
Feb. 22—G. W. Overly, McCune, Kan.
Feb. 22-23—Nebraska Pure Bred Horse Breeders' Association, sale at Lincoln, Neb. C. F. Way, Sec.-Treas., Lincoln, Neb.

Draft Horses.

March 9—W. T. Judy & Sons, Kearney, Neb.

Jacks and Jennets.

Feb. 1—J. W. Smith, Courtland, Kan.
Feb. 15—C. S. Butler, Cherryvale, Kan.
Feb. 22—M. H. Roller & Son and Bruce Saunders, Holton, Kan.
Feb. 22—G. W. Overly, McCune, Kan.
Mar. 13—Hineman & Sons, Dighton, Kan.
Mar. 15—L. M. Monsees & Sons, Smithton, Mo. Sale at Missouri State Fair grounds, Sedalia.

Hereford Cattle.

Feb. 24—C. F. Behrent, Norton, Kan.
Feb. 27—Combination sale, Manhattan, Kan. Prof. W. A. Cochel, Manhattan, Kan., Mgr.

Holstein Cattle.

Jan. 30—H. L. Cornell, Route 6, Lincoln, Neb.
Feb. 21—A. L. Fellows and H. L. Kinman, Clay Center, Kan.
Feb. 21—Nebraska Holstein Breeders' Consignment sale, South Omaha. Dwight Williams, Sales Manager, 4110 Davenport St., Omaha, Neb.
Feb. 6—H. C. Glissman, South Omaha, Neb.

Jersey Cattle.

Mar. 8—F. J. Scherman, Route 8, Topeka, Kan.

Shorthorn Cattle.

March 13—Blank Brothers & Kleen, Franklin, Neb. Sale at Hastings, Neb.
March 14-15—Highline Shorthorn Breeders' Ass'n, Farnam, Neb. E. W. Crossgrove, Mgr., Farnam, Neb.
March 15-16—Breeders' Consignment sale, South Omaha, Neb. J. C. Price, Lincoln, Neb., Mgr.
March 28—F. A. Egger, Roca, Neb.
Mar. 30—H. C. McKelvie, Lincoln, Neb., Mgr Combination sale at South Omaha.

Polled Durham Cattle.

March 9—W. T. Judy & Sons, Kearney, Neb.
Mar. 29—H. C. McKelvie, Lincoln, Neb., Mgr. Combination sale at South Omaha.

Poland China Hogs.

Feb. 6—Smith Brothers, Superior, Neb.
Feb. 7—T. F. Walker & Son, Alexandria, Neb.
Fab. 8—Wm. McCurdy & Son., Tobias, Neb.
Feb. 9—Frank J. Rist, Humboldt, Neb.
Feb. 12—W. E. Willey, Steele City, Neb.
Feb. 15—T. W. Cavett, Phillips, Neb. Sale at Aurora, Neb.
Feb. 17—S. A. Nelson & Sons, Malcolm, Neb.
Feb. 19—C. Lionberger, Humboldt, Neb.
Feb. 21—O. B. Clemetson, Holton, Kan.
Feb. 22—A. J. Erhart & Sons, Ness City, Kan. Sale at Hutchinson, Kan.
Feb. 23—Olivier & Sons, Danville, Kan.
Feb. 24—C. F. Behrent, Norton, Kan.
Feb. 27—Von Forell Brothers, Chester, Neb.
Feb. 28—Clarence Dean, Weston, Mo.; sale at Dearborn, Mo.
Feb. 28—John Naiman, Alexandria, Neb.; sale at Fairbury, Neb.
Feb. 28—Agricultural College, Manhattan, Kan.

Duroc-Jersey Hogs.

Jan. 22—Geo. Briggs & Sons, Clay Center, Neb.
Jan. 23—H. A. Deets, Kearney, Neb.
Jan. 31—J. H. Proett & Son and H. J. Nachtingall & Son, Alexandria, Neb.
Feb. 1—Theo. Foss, Sterling, Neb.
Feb. 1—Philip Albrecht & Sons, Smith Center, Kan.
Feb. 7—F. J. Moser, Goffs, Kan.
Feb. 3—Dave Boseiger, Cortland, Neb.
Feb. 14—Howell Brothers, Herkimer, Kan.
Feb. 16—J. C. Boyd & Son and Ira Boyd, Virginia, Neb.
Feb. 16—Earl Babcock, Fairbury, Neb.
Feb. 28—Agricultural College, Manhattan, Kan.
March 9—W. T. Judy & Sons, Kearney, Neb.
March 15—W. T. McBride, Parker, Kan.

Hampshire Hogs.

Feb. 26—A. H. Lindgren, Jansen, Neb.; sale at Fairbury, Neb.
Feb. 27—Carl Schroeder, Avoca, Neb.
March 2—Ezra Williams, Oak Grove, Mo.

Chester White Hogs.

Feb. 23—Henry Fehner, Higginsville, Mo.
Mar. 8—F. J. Scherman, Route 8, Topeka, Kan.

S. W. Kansas and Oklahoma

BY A. B. HUNTER.

J. P. & M. H. Malone of Chase, Kan., are among the largest farmers and stock raisers in that section of the state. They specialize in Percheron horses and jacks. They start a card ad in this issue of Farmers Mail and Breeze in which they are offering 40 Percheron stallions, jacks and jennets ranging from 2 to 6 years old. They especially invite our readers to come to see this stock. If interested in either Percheron or jack stock visit the Malones or write. They are absolutely square in their

HORSES.

For Sale: Home-Bred Stallions $250 to $400, except two. Also Draft Mares for sale. A. LATIMER WILSON, CRESTON, IOWA

ONE REGISTERED PERCHERON STALLION and one extra good jack for sale. J. E. DIFFENBAUGH, ABILENE, KANSAS

STALLIONS, MARES AND JACKS

Registered Percheron stallions, yearling, two, three and four year olds. Blacks, and a few grays. Brilliant bred. The big, wide-out, heavy boned, ton kind. Two year olds weighing 1900 lbs. Also a bunch of big, registered mares showing colts.

30 big, Mammoth black jacks, the kind that breed the big mules. Jacks, 15 to 17 hands standard measure. Jennets in foal. All stock guaranteed. References, the Banks of Lawrence. 40 mi. west of Kansas City. AL E. SMITH, LAWRENCE, KANSAS.

Stock For Sale!

3 head of Standard bred colts; one brown filley 4 years old, stands 16 hands, weighs 1,200 pounds, has been tracked a little and shows lots of speed. Sire Pactolus Ellwood 50245, he by old Pactolus 9102; dam, Bessie Miller, by Tom Miller Jr., 2:10. One black stud, 3 years old, has been tracked a little and is clever and very speedy. Stands 15.3 and weighs now 1,135. Drives single and double. He is a full brother to the above mare. One black filley, 3 years old, name Lula Miller, stands 15.1, broken to drive, has same sire. Dam, Estan Selotta, by Symboleer 2:09. All these colts are sound and highly bred. We have 6 high grade white face bulls for sale, 2 years old, past. They are in fine condition.

I have 5 head of high grade Holstein heifers for sale. They are from 14 months to 3 years old; 3 giving milk and one springer. All are bred to my Holstein male. One Holstein male, coming 2 years old in April. This is an extra big male, greater part white in color. I want to sell all 6 head together. A few registered Jersey cows for sale.

O. L. Thisler, Chapman, Kansas

40 PERCHERON STALLIONS, JACKS AND JENNETS

2 to 6 years old; heavy bone, right every way. Imported Spanish jack, weight 1200 pounds at head of jennet herd. Come and see us. We mean business. Prices reasonable.

J. P. & M. H. MALONE, Chase, Rice Co. Kansas

Pioneer Stud Farm

Established 1870

50 Registered Stallions and Mares

Just arrived. A new shipment of Stallions and Mares. If you are in the market for a good Percheron stallion or mare now is the time. We can show you more bone, size, action and conformation than you will see elsewhere. Write or come today.

C. W. Lamer & Son, Salina, Kansas

Graner Stock Farm Percherons

Special prices for 60 days on Stallions and a few spans of matched mares.

W. H. GRANER, LANCASTER, KANSAS (12 Mi. from Atchison) (Good R. R. Connections)

POLAND CHINA HOGS.

Albright's Private Sale

of more quality, big type Poland China spring boars and gilts is now on. You can't beat my spring boars at the price. Also open gilts. A. L. Albright, Waterville, Kan.

Fairview Poland Chinas

Choice sows and gilts, bred for March farrow. Also 50 fall pigs. All priced to sell. Write us today.

P. L. WARE & SON, PAOLA, KANSAS

POLAND CHINAS

Big Type—Big Bone—Big Litters.

Spring and summer pigs, either sex. Satisfaction guaranteed.

Engleman Stock Farm, Fredonia, Kansas

Original Big Spotted Polands 75 fall pigs, pairs and trios not related. Pedigrees with each pig. Big litters.

Address ALFRED CARLSON, Cleburne, Kan.

Private Sale

March boars by the half ton Hercules 2nd. Choice gilts same age. Summer and fall pigs at bargain prices. Summer pigs ready to ship. Pedigree with each pig.

ANDREW KOSAR, DELPHOS, KAN.

ERHART'S BIG POLANDS

Home of more prize winners than any herd in the West, headed by the grand champion Big Hadley Jr.; large, roomy, prolific sows. Am pricing the grand champion boar Robidoux; also special prices on fall and spring boars. A number of herd headers among them priced for quick sale.

A. J. ERHART & SONS, Ness City, Kan.

As Good As Grows

Comparison with other herds most earnestly invited. Smooth, Extra Smooth Price and Extra Smooth Price 2nd, herd boars at the top. History makers.

L. C. Walbridge, Russell, Kansas

Giant Uhlan Pigs Take 1st Place

Fall pigs, males and gilts, immuned, by Giant Uhlan, whose pigs won 1st and 5th at Topeka and Hutchinson State Fairs; also junior champion sow at National Swine Show at Omaha. Write at once. Get 1st choice.

H. T. HAYMAN, FORMOSO, KANSAS

Reserved Poland March Gilts

Because of recent purchases to get new blood I offer Six gilts weighing 250 and up, sired by Gritter's Surprise, out of 650 and 700 lb. dams. Bred for March farrow.

A. J. SWINGLE, LEONARDVILLE, (Riley Co.) KANSAS

HORSES.

DISPERSION SALE OF CLYDESDALES

One span of brood mares, regular breeders, in foal, by imported stallion. One coming 3 year old filly. One coming 2 year old stud and one weanling stud colt. All show stuff. The thick, blocky kind, sound and best of breeding. C. H. Wempe, Seneca, Kansas.

Percherons — Belgians — Shires

Imported and home-grown mature stallions, ton and heavier, 3 year olds, 2 year olds, yearlings. Produce of 62 imported mares and noted prize winning imported sires weighing 2235 lbs. and 2430 lbs. Farmer's prices. Near Kansas City. Fred Chandler, Route 7, Chariton, Iowa.

Redline Stock Farm Percherons

ILLICO 81462, Imported by Watson, Woods Bros. and Kelly is a beautiful black stallion with all the proof you will want that he is a great foal getter.

BONAPARTE 101896 was foaled in 1913 and was the second prize winner in class that fall at the Iowa state fair. He is now a beautiful black weighing about 2000.

KANGOROU STAR 122197 was foaled in April 1914. He is a beautiful black stallion and was sired by C. W. Lamer's great prize winning Kangorou.

The above Stallions are for sale and any man wanting Percheron stallions that are right in every particular should visit Glasco and investigate these stallions and what they have done for this vicinity. Write for further information. I also offer a big boned Mammoth jack. Address, GEO. W. NOWELS, Glasco, Kan.

Bishop Bros. Percherons

Our stallions are all young, a life of usefulness before them. They are the big, strong boned, massive kind, with quality and finish to suit the most critical buyer. If you want a stallion it will pay you to come see ours. You can find what you want and at the right price. We invite your inspection and solicit your inquiry.

Bishop Bros., Towanda, Kan.

German Coach Stallions and Mares

The Farmers General Purpose Horse

23 stallions from weanlings to 5-year-olds. Handsome, stylish, gentle, but powerful young stallions, 1300 to 1600 pound fellows, the right kind to produce durable, active farm horses and command attention in any stud. Priced where you will buy. Satisfaction guaranteed. Come or write at once.

BERGNER BROS., Route 4, PRATT, KANSAS WALDOCK LAKE RANCH

POLAND CHINA HOGS.

SPOTTED POLAND CHINAS
Ten good bred gilts and a few tried sows. Close prices for quick sale. R. H. McCUNE, LONGFORD, KAN.

QUALITY AND SIZE
Big type Poland Chinas, either sex, $12 to $35. Satisfaction guaranteed and a pedigree with each pig.
E. CASS, COLLYER, Trego Co., KANSAS

JOHN BLOUGH, Bushong, Kansas
Write at once for prices on Poland China bred sows and gilts and also a few boars. The big litter kind. Address as above.

Stretchy Boars: Gilts All Bred
Boys entering Capper Pig Club write me today for my special offer on bred gilts. Fall and summer boars and gilts. Write today. All immune.
W. A. McINTOSH, COURTLAND, KANSAS

I Ship on Approval
The best of big type Poland China breeding. Special prices on bred sows and 50 head of fall pigs. ED SHEEHY, HUME, MO.

Fashionable Stock Place
Big Type Poland Chinas
April boars and gilts. Can sell stock not related. All immune. Satisfaction guaranteed. V. O. Johnson, Aulne, Kansas.

Big Type Poland Chinas
One strictly high class show boar and herd header prospect, perfectly marked and will develop into a 1,000 pound hog; also a few other good ones of same breeding at very reasonable prices.
A. M. MARKLEY, MOUND CITY, KANSAS

BERKSHIRE HOGS.

BERKSHIRE PIGS Best of Breeding. Big type English. Either sex, $15 each. Crated and papers furnished. R. J. LINSCOTT, HOLTON, KANSAS

SHEEP.

REGISTERED SHROPSHIRE RAMS Yearlings and twos, square built, hardy bucks with weight, bone and heavy fleece. Quick shipping facilities and priced cheap. 412 head. Near Kansas City Howard Chandler, Chariton, Iowa.

CHESTER WHITE AND O. I. C. HOGS.

O. I. C. HOGS For sale—Yearling boar, Spring and Summer pigs, bred gilts and tried sows. Priced to sell. A. G. COOK, LURAY, KANSAS

CHESTER WHITE HOGS Fashionable breeding. Excellent quality. Prices reasonable. E. E. SMILEY, PERTH, KAN.

EXTRA GOOD O. I. C. BOARS 100 to 150 lbs. each—best of breeding. Harry W. Haynes, Grantville, Kansas

Edgewood Farm Herd Chester Whites
Spring boars with length, size, bone and quality sired by Don Ben 2nd and Sweepstakes.
HENRY MURR, Tonganoxie, Kan.

FEHNER'S O. I. C. Herd headed by the $500 Eagle Archie first prize aged boar at Sedalia, 1916. We offer 100 selected spring pigs, a number by a son of Eagle Archie, every one immune and shipped on 10 days' approval. Henry Fehner, Higginsville, Mo.

"PREPAREDNESS"
Get ready for your 1917 pig crop. Large, heavy-boned, early-maturing type of O.I.C. Rich in champion and grand champion blood lines. All ages (either sex) for sale at all times. Satisfaction guaranteed. Breed O. I. C. F. J. Greiner, Box B, Billings, Mo.

Summer Boars
and fall pigs, at very reasonable prices, to make room for my spring pigs.
F. C. GOOKIN, Russell, Kansas

SILVER LEAF O.I.C's.
Am sold out of everything but August boars. They are fine, of the best of breeding and priced cheap for quick sale. Will ship them on approval. Write for description. C. A. Cary, Route 1, Mound Valley, Kan.

Kansas Herd Chester Whites
Gilts bred to Don Izzy, Don Wonder, Don Wildwood; sired by champions. Fall pigs by Don Milligan. Reasonable prices. Nine railroads. Arthur Mosse, R. 5, Leavenworth, Kan.

BREED THE BEST

There can be but **One Best**
Why lose profits breeding and feeding scrub hogs?
Two of our Famous
O. I. C. HOGS
weighed 2806 lbs.
Will ship you sample pair of these famous hogs on time and give agency to first applicant. We are originators, most extensive breeders and shippers of pure bred hogs in the world. All foreign shipments
U. S. Gov't Inspected
We have bred O. I. C. Hogs for 53 years and have never lost a hog with cholera or any other contagious disease.
Write today for Free Book, "The Hog from Birth to Sale" also True History of the Origin of the O. I. C.
THE L. B. SILVER CO.
848 Heights Temple Bldg. Cleveland, Ohio

dealings and they know livestock. When writing please mention Farmers Mail and Breeze.—Advertisement.

Lookabaugh's Shorthorn Propositions.

H. C. Lookabaugh, Watonga, Okla., will give six to nine months' time to those wishing to purchase Shorthorns and an unusual proposition is also made as you will note in his advertising of this issue is to pay to the purchaser of any female one-half of what she cost for her calf at a year old. Mr. Lookabaugh gives special attention to those who are wishing to start in the Shorthorn business and is making special prices on foundation stock females and young bulls both Scotch and Scotch topped. Read his display ad in this issue and write him about what you want. Please mention Farmers Mail and Breeze.—Advertisement.

German Coach Stallions.

Bergner Brothers, Pratt, Kan., have the most and perhaps the best German Coach stallions to be found anywhere in the entire Southwest. They have used for years stallions of national reputation at the head of their herd. People who are not aware of the many sterling qualities of the German Coach horse would be much surprised as was the writer to visit and look over this great herd. These stallions are the ones that produce horses that have practically every quality most in demand on the farm; size, style, action and endurance. They are gentle, as well. They weigh from 1300 to 1600 pounds and are the kind that will command respect in any community. They offer 23 stallions from which to select. Call and see them or write, mentioning Farmers Mail and Breeze.—Advertisement.

N. Kansas, S. Nebr. and Ia.

BY JOHN W. JOHNSON.

John Blough, Bushong, Kan., offers Poland China bred sows and gilts for sale. They are the big kind with smoothness that makes them desirable everywhere. Few breeders have a better herd of sows than has John Blough and this offer to sell a few of them and some gilts of the same breeding should mean something to the Poland China breeder that needs more sows. Write him and mention the Farmers Mai land Breeze.—Advertisement.

H. T. Hayman, Formoso, Kan., a well known breeder of Poland Chinas, starts an advertisement in this week's Farmers Mail and Breeze, in which he offers Giant Uhlan pigs of this fall's farrow, that have been immunized and carefully grown, at attractive prices considering the quality and breeding. Here is an opportunity to buy the kind that win and at prices that are reasonable. Look up his advertisement in this issue and write him at once for descriptions and prices.—Advertisement.

H. B. Cowles of Topeka cuts out the service bull from his Braeburn Holstein herd ad. He got three orders in a bunch for this one and had to apply his rule of sending to the man whose draft gets here first. This time it was Oliver G. Evans, Dawn, Mo. Generally buyers who want Braeburn bulls have to pick them before they reach breeding age.—Advertisement.

Lee Brothers & Cook of Harveyville, Kan., are offering our readers a choice lot of Holstein cows, heifers and bulls. The offering at this time includes 40 fresh cows, 75 heavy springing cows, 90 springing heifers, 40 open heifers and 20 registered bulls. They have in their herd just now 265 head. Recently they bought a new stock bull, King Deter 18th. This is a 29.48 pound bull. His dam sold for $1,000 and his full sister for $1,300 in the Fred Carlan sale. Many of the cows offered at this time are in calf to this bull. Every animal offered is tuberculin tested and guaranteed. Read the ad in this issue and arrange to call on them if interested in Holsteins.—Advertisement.

Extra Choice Poland Gilts.

A. J. Swingle, Leonardville, Kan., breeds Poland Chinas and has gained the reputation of being one of the most exacting Poland China breeders in the business, when it comes to selecting sows for his herd. If she wasn't good she couldn't stay. Now here is the interesting part of this fieldnote: Mr. Swingle has recently bought from herds in Iowa a few gilts to add new blood and as he is limited because of room to a certain number of sows he has decided to sell six March yearling gilts, due to farrow in March, and they are certainly as good as will be seen in any sale this winter. Not loaded with fat but in good condition and big, nicely arched back gilts with the best of feet and legs under them. Write at once if you want to get something extra choice at reasonable prices.—Advertisement.

Smith's Dispersion Sale.

J. W. Smith, Courtland, Kan., has been breeding jacks for a number of years and while he has not been much of an advertiser he has built up an enviable reputation for producing good jacks. Salitario, the head of the herd is included in the dispersion sale, which Mr. Smith will hold at his farm, Thursday, February 1. This jack stands 15 hands high, is black with white points and few better jacks will be sold this winter. There are four broke jacks in the offering and all are proven producers of value. Included in the offering of younger jacks is a grandson of Limestone Mammoth, standing 16½ hands high. He is a great prospect and in an eastern sale would sell for three times what he will bring in this sale. Teddy 112503 is 4 years old, dark brown Percheron, recorded in the Percheron Society of America herd book, that is certainly a valuable stallion. He will weigh

DUROC-JERSEY HOGS.

Private Sale, Boars and Gilts
20 Duroc Jersey boars, March farrow and 15 gilts same age. Priced to sell. Also a choice lot of fall pigs, either sex. Address A.E.Sisco, Topeka, Kan., Phone (3026 Wakarusa)

Duroc-Jersey Bred Sow Sale Feb. 7
50 Duroc Jersey bred sows and gilts go in this sale combining size, quality and breeding that will challenge any like number to be sold this winter. I will book you for a catalog any time.
F. J. MOSER, GOFF, KANSAS

DUROC JERSEY HOGS.

Immune Duroc Boars
Herd header to farmer's kind, bred close to grand champions on both sire and dam side. Prices reasonable and satisfaction guaranteed. Write today. G. B. Wooddell, Winfield, Ks.

Duroc-Jersey gilts, bred for Mar. and Apr. farrow, to a good son of Critic B, and a grandson of Perfect Col.; May boars Fall pigs either sex. R. T. and W. J. Garrett, Steele City, Nebraska

Country Gentleman 132541
Last chance to get boars sired by this great boar. Also some good ones by Gold Medal 176231. We are keeping his gilts and offer him for sale. Everything immune and farmer's prices.
W. R. HUSTON, AMERICUS, KANSAS

JONES SELLS ON APPROVAL
This means just what it says. 50 Sept. and Oct. Duroc Jersey pigs. Write for breeding and I will convince you. Pedigree with every pig.
W. W. JONES, CLAY CENTER, KAN.

Guaranteed Duroc Bred Gilts
Immune Duroc Jersey gilts with size, bone and stretch. Guaranteed in farrow. Shipped to you before you pay.
F. C. Crocker, Box B, Filley, Neb.

Big Type Herd Boars
25 husky spring boars. Crimson Wonder, Illustrator, Good Enuff, Golden Model breeding. All immune. Prices right. Descriptions guaranteed. G. M. Shepherd, Lyons, Kan.

BONNIE VIEW STOCK FARM
Duroc-Jerseys Spring boars and one fall yearling boar for sale.
SEARLE & COTTLE, BERRYTON, KANSAS

DUROC-JERSEY BOARS ON APPROVAL
15 spring and fall yearlings ready for hard service. $30 to $40. Shipped to you before you pay. Fully guaranteed. I've got one for you.
GEO. F. SCHWAB, CLAY CENTER, NEBRASKA

FROM WORKMAN RUSSELL KANS
Duroc-Jerseys
Johnson Workman, Russell, Kansas

TRUMBO'S DUROCS
August boars $15. Summer gilts $12.50, also the herd boar Crimson McWonder for $125, a great herd boar that should head some good herd. All immune. Satisfaction guaranteed. Wesley W. Trumbo, Peabody, Kan.

DUROCS of SIZE and QUALITY
Herd headed by Reed's Gano, first prize boar at three State fairs. Spring boars and gilts, from the champions Defender, Superba, Crimson Wonder and Golden Model breeding. JOHN A. REED & SONS, Lyons, Kansas

BANCROFT'S DUROCS
Guaranteed immune. Bred gilts, guaranteed safe in pig. September pigs, either sex.
D. O. Bancroft, Osborne, Kan.

CRIMSON ORION KING 195345
A very classy lot of Duroc Jersey March gilts. Big type, well grown out. Carry the most noted blood lines. Bred to Crimson Orion King, Premier Illustrator and Valley King the Col.
Lant Bros., Dennis, Kansas
INTERURBAN STOP 64

ABERDEEN ANGUS CATTLE.

ANGUS CATTLE 150 young bulls and heifers ready to ship.
Berkshire Hogs
SUTTON & PORTEOUS, Lawrence, Kan.

FROM WORKMAN RUSSELL KANS
Aberdeen Angus Cattle
Herd headed by Louis of Viewpoint 4th. 150624, half brother to the Champion cow of America.
Johnson Workman, Russell, Kan.

17 Angus Bulls
In ages from six to 12 months old. Can ship over Santa Fe, Union Pacific and Rock Island. Will sell some cows and heifers. Address,
H. L. Knisley & Son
Talmage, Kan. (Dickinson Co.)

HEREFORD CATTLE.

Registered Hereford Bulls
One 2-year-old, weight 1600 pounds; one extra good May calf, weight 600 pounds, and several other bull calves; also some good Percheron stud yearlings. Mora E. Gideon, Emmett, Kan.

Spring Creek Herefords
Three yearling bulls for sale. Address
S. D. Seever, Smith Center, Kansas

HEREFORD FARM
Our Herefords prove profitable in the hands of their purchasers. Best of breeding and individual merit.
T. A. Wallace Barnes, Kan.

GALLOWAY CATTLE.

Wakarusa Valley Galloways
I have five good Galloway bulls for sale. Pure bred and registered. Not pampered. One year old and ready for service. F. M. Stahl, Topeka, or Leon Stahl, Auburn, Kan.

Smoky Hill Galloways
The world's largest herd. Yearling and two-year-old bulls for sale in numbers to suit, from one to a car load, at reasonable prices. If in the market for Galloway bulls come and look them over.
Smoky Hill Ranch
E. J. Guilbert, Owner, Wallace, Kansas.

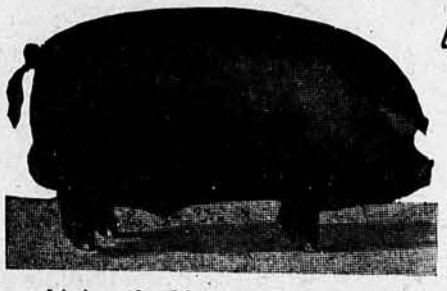
DUROC-JERSEY HOGS.

HIRSCHLER'S DUROCS Best of breeding. Spring boars ready for service. Gilts bred or open. Priced for quick sale. Write today.
E. L. HIRSCHLER, HALSTEAD, KANSAS

DUROCS ON THE BARGAIN COUNTER
Tried sows, fall yearlings, gilts bred for early litters, April boars, July and September boars and gilts are ready for immediate shipment and every one priced worth the money. Write me what you want to buy.
J. E. WELLER, FAUCETT, MISSOURI

BALDWIN DUROCS
Open gilts $20, or for $30 will keep and breedto "Graduate Prince", our new herd boar, that has won as many State Fair prizes and sired as many prize winners as any boar in the state. Weight 960. Call and see him. Service boars $25. Some extra choice baby boars at $12.50, sired by "Model Top Again," a prize winner at both the Kan. State fairs last year. Order now. $100 takes the pick of our baby Shorthorn bulls. R. W. BALDWIN, Conway, Kan.

Combination Sale
Big Duroc-Jersey Bred Sows
Under cover at
Alexandria, Nebr., Wednesday, Jan. 31



45 Head All Immune
15 tried sows and fall yearlings, 30 spring gilts
The offering is largely sired by, or bred to, the great boars, BIG LINCOLN VALLEY CHIEF and TOP COL. CHARMER. Few bred to KING'S COL. LONGFELLOW, a great young sire combining the blood of King the Col. and Watts Model. There will be some real attractions. The catalog tells all. Write for it and mention Farmers Mail and Breeze. If you can't be with us send bids to Jesse Johnson in care of either party making sale.
J. H. Proett & Son, Alexandria, Nebraska
H. J. Nachtigall & Son, Alexandria, Nebraska
W. M. Putman, Auctioneer. Jesse Johnson, Fieldman.

POLLED DURHAM CATTLE.

Double Standard Polled Durhams Young bulls and females for sale. C. M. HOWARD, Hammond, Kansas

Polled Durham & Shorthorns for sale
100 Registered
Roan Orange, Weight 2100, and Sultan's Pride 1st at Kansas, Nebr., Iowa and Oklahoma state fairs.
Heads herd. Will meet trains. Phone 1602.
J. C. Banbury & Sons, Pratt, Kan.

Willson's Polled Durhams
For Sale: One 2-year-old herd bull, and three bulls, 8 and 11 months old Also a few cows and heifers. Strong in Polled Durham breeding.
Also a few choice Poland sows and gilts, bred to farrow in March and April.
T. M. Willson, Lebanon, Kansas

SHORTHORN CATTLE.

ELMENDALE SHORTHORNS
100 big, rugged bulls, suitable for herd headers, or farm and range use. 50 females of different ages. These cattle are especially good and the prices attractive. Address Elmendale Farms, Fairbury, Neb.

Salter's Shorthorns
12 young bulls 6 to 12 months old; Scotch and Scotch topped. These young bulls are by such sires as Rosewood Dale, by Avondale, Silver Hampton and Master of the Dales; also cows and heifers, Scotch, Scotch topped and plain bred in calf to our great herd bulls, but priced so both farmer and breeder can afford to buy. Visitors always welcome. Phone Market 3705. Address,
Park E. Salter, Wichita, Kansas

Cedarlawn Shorthorn Bulls
For Sale: The two year old herd bull, Mystic Victor, by Vain Victor, by Barmpton Knight. A valuable tried bull sold guaranteed in every way. Young bulls from six to ten months old. Address
S. B. AMCOATS, CLAY CENTER, KAN.

SHORTHORNS Private Sale
Seven bulls from eight to fourteen months old. Also cows and heifers. Shipping point Wamego. Oldest herd in Pottawatomie county. Address
W. T. Ferguson, Westmoreland, Kan.

Symphony's Last 395198

is now for sale, 4 yrs. old. Keeping all of his heifers. Write for price at once. H. C. Graner, Lancaster, Kansas

Shorthorn Bulls
12 that will be ready for service in the spring. Four of them polled and eligible for registry in the Polled Durham book. Priced to sell and they are good ones. Address,
V. A. Plymat, Barnard, Kan.

Scotch and Scotch Tops
A choice lot of young bulls from 8 to 10 months old for sale. Sired by **Valiant 346162** and **Maringo Pearl 391962.**
A number of pure Scotch bulls in this offering. For further information address,
C. W. Taylor, Abilene, Kan.

GREATEST BULL OFFER
10 extra choice bulls 15 to 18 months old.
10 from 6 to 12 months old. Reds and Roans.
All have from four to six top crosses. If you come you're sure to buy. Address,
W. F. BLEAM & SONS
BLOOMINGTON, KAN. (OSBORNE COUNTY)

easily a ton and is popular locally because of what he is producing. A standard bred stallion will be included in the sale. All of the jennets are bred and safe in foal. They are not a common lot of jennets but like the jacks will prove an unusual offering. Write for further information at once.—Advertisement.

New Blood for Smith's Sale.

The Smith Brothers, Poland China breeders, of Superior, Neb., are cataloging 65 head of bred sows and gilts for their regular annual bred sow sale to be held February 6. The writer thinks this will be the best offering the Smiths have ever had for one of their sales. It will contain much of the good breeding that has made the herd popular in past years, and the brothers have gone out and bought a pair of about the best young boars that have ever been brought to the farm. One of these, Big King's Pride, was sired by Big King, a son of Big Price and out of a dam by Jumbo The Great. The other one, Orphan's Price, was sired by Orphan's Chief Price, a son of Oakland's Equal and his dam was by Big Chief. Quite a per cent of the offering will be bred to them. Others will be bred to Amazon Ben, an extra big, smooth young boar, sired by Big Ben Amazon. Others to old Jumbo Jr. and Giant Wonder. The offering for the most part was sired by Big Ben Amazon, Jumbo Jr., Ben Amazon and Giant Wonder. Write at once for catalog and mention this paper. Bids may be sent to Jesse Johnson in care of Smith Brothers, Superior, Neb.—Advertisement.

McCurdy's Big Poland China Sale.

William McCurdy, Tobias, Neb., will sell a great bunch of bred sows and gilts at his annual sow sale to be held at farm near Tobias, February 8. Mr. McCurdy is right at the top with big blood lines. Maple Grove Orange, by Blue Valley Orange, was one of the best sow sires going. On his daughters were crossed Mc's Big Joe, a son of the noted Big Joe, and now Mr. McCurdy, in line with his policy of keeping right up with the procession has bought and placed at the head of the herd Maple Grove Big Bob, a good son of Sievers's noted boar, Big Bob. Of the 50 head selling 25 are tried sows and fall yearlings. Nearly all of the fall yearlings were sired by Mc's Big Joe. The tried sows and spring gilts are largely by Maple Grove Orange. The spring gilts have lots of size. Some of them will weigh close to 400 pounds sale day. Over half of the offering will be bred to Maple Grove Big Bob the others to Mc's Big Joe and Maple Grove Black Orange, the best son of Maple Grove Orange. Parties attending sale stop at the hotels in Alexandria and Tobias. Free transportation from both places to and from farm. Bids may be sent to J. W. Johnson in my care at Tobias.—Advertisement.

Smoky Hill Galloways.

E. J. Guilbert of Wallace, Kan., is one of the extensive farmers and ranchers of Western Kansas. For a number of years he has been engaged in the breeding of Galloway cattle. Several years ago he bought the George M. Kellam herd which was the oldest herd of Galloways in Kansas. Later he bought 261 head of registered cattle at one time from George E. Clark of Topeka. At the present time he has 700 head of registered Galloways. This is the largest herd of this breed of cattle in the world. Mr. Guilbert has a nice lot of bulls for sale. The offering includes yearlings and 2 year olds, in numbers to suit the purchaser. He can supply the man who wants one or he can supply the man who wants a carload. His prices are reasonable. If you are in the market for a Galloway bull it will pay you to see this offering. The produce of the Galloway bull crossed on grade cows is eagerly sought by breeders who are anxious to secure the best for their feed lots. This breed is strong in its polled characteristic. It is not uncommon for 100 per cent of the calves from horned cows bred to purebred Galloway calves to be without horns. Mr. Guilbert not only owns the largest herd of Galloways in the world but at a recent meeting of the Galloway breeders at Chicago Mr. Guilbert was elected president of the American Galloway Breeders' association. If you want a high class Galloway bull, write Mr. Guilbert and mention Farmers Mail and Breeze.—Advertisement.

Nebraska and Iowa

BY JESSE R. JOHNSON.

David Boesiger of Cortland, Neb., will make a draft sale of Duroc Jerseys, February 3, to which he invites the very best breeders with a confidence that his offering will please. Mr. Boesiger is featuring in this sale his great boar, Kern's Sensation. This boar is strong in the blood of prize winners. His sire, Sensation Wonder, is noted as a sire of prize winners and his dam is a litter sister to the sow that topped Briggs & Son's sale last winter at $325. He was shown with three of his litter brothers at the Nebraska State Fair in 1916, the litter being placed 1st, 2d and 4th. He is being mated with a choice lot of gilts that carry considerable Crimson Wonder blood. Mr. Boesiger bought sows last winter bred to Premier Gano, Educator and King the Col. The gilts from these litters will be attractions in this sale. Parties who are interested and unable to attend this sale may send bids to Jesse Johnson in Mr. Boesiger's care.—Advertisement.

Kansas Furnished Buyer.

The W. P. Kuehn land and livestock sale advertised in this paper for January 10 was a great success in every way. Prospective land buyers were present from Iowa, Kansas and Nebraska. The farm sold for $60.10 an acre and went to Fred Corbett of Kansas. M. L. Gould of Jamestown Kan., was a good buyer of Shorthorns. Col. Herman Ernst surely demonstrated his ability as a real estate salesman.—Advertisement.

Von Forell Bros. Sale.

Von Forell Bros., the successful Poland China breeders at Chester, Neb., start card in this issue directing attention to their annual sale of big immune Poland China bred sows to be held February 27. A big line of tried sows go in this sale. The

SHORTHORN CATTLE.

OUR HERD BULL
Abbotsford Lad 2, 395841, a pure Scotch bull, three years old, deep red, good disposition and a good breeder. We are keeping every heifer he has sired. Priced to sell quick. Also bull calves six to 10 months.
Chester A. Chapman, Ellsworth, Kansas

GOODLIGHT 367939 by Searchlight 292031, my 4-year old Shorthorn herd bull, is for sale. I am keeping all his 2-yr.-old and yrlg. heifers. A magnificent breeder. Address A. H. Cooper, Natoma, Kan.

Scotch Topped Shorthorn Bulls For sale
9 to 14 months old; from milking dams. Young Mary's and Orange cows of good size and conformation.
E. C. SMITH & SON, PLEASANTON, KAN.
Frisco and Mo. P. Railroads.

Scotch Bulls for Sale
Three pure Scotch bulls from 12 to 15 months old. Also two bulls that will be a year old in the spring. Write for descriptions and prices.
P. M. Borland, Clay Center, Kansas

SHORTHORNS
Scotch and Scotch Topped
Six bulls from six to 13 months old. Reds and Roans. Sired by Scotch Pride, wt. 2200. Prices reasonable considering breeding and individual merit.
E. P. FLANAGAN, CHAPMAN, KANSAS
(Dickinson County)

SHORTHORN CATTLE.

PURE BRED DAIRY SHORTHORNS
Double Marys (pure Bates) and Rose of Sharon families. Offer; 2 year old herd bull. A snap. R. M. ANDERSON, BELOIT, KAN.

Cedar Wild Knight
a 2-year old grandson of Gallant Knight, is offered for sale. Also two, 7-months-old, grandsons of the champion True Sultan. Address JOS. BAXTER, CLAY CENTER, KAN.

Salt Creek Valley Private Sale
25 Shorthorn bulls from six to 12 months old. Also a good three year old bull. All sired by Barmpton Model 338998, by Barmpton Knight. Good breeding and plenty of quality. Inspection invited. Write for further information. Address,
E. A. Cory & Sons, Talmo, Kan.
(Pioneer Republic County Herd)

Gigstad's Shorthorns
I offer my three year old herd bull, Golden Lad 410260 (wt. about 2200) for sale. He is dark red, gentle and a good sire.
15 young bulls, eight to 11 months old, reds and roans. My bulls and my prices will suit the breeder looking for the kind that build up a herd. Address
K. G. GIGSTAD, Lancaster, Kan.
(12 miles from Atchison.) Good R. R. facilities.

LOOKABAUGH'S SHORTHORNS
6 to 9 Months Time, If Desired
Satisfaction Guaranteed or Money Refunded
Special attention given the beginner.
Three Great Herd Bulls in Service. Fair Acres Sultan, Avondale's Choice and Watonga Searchlight.
SPECIAL BARGAINS
2 heifers and a bull not related.....$400
8 heifers and Scotch bull.....$1250
Bred heifers .....$175 to $200
Young Scotch Bulls.....$200 to $400
Half the purchase price of any female given for her calf at a year old if such contract is preferred.
H. C. LOOKABAUGH
Box A, Watonga, Okla.

THE FARMERS' COW

Norton County Breeders Association
SAMUEL TEAFORD, President CARL BEHRENT, Secretary
Norton County Fair, August 29, 30, 31, Sept. 1, 1917 H. A. JOHNSON, President FRED STRONWIG, Secretary

For Quick Sale 12 extra choice spring Poland China Boars. Big type and good allover. Farmers prices. C. F. Behrent, Oronoque, Kan.

25 BRED SOWS and gilts bred for spring farrow. 5 spring boars and fall boar pigs. Everything on approval. J. F. Foley, Oronoque, Kan.

Poland China Pigs. 25 fall pigs at low prices. Either sex. Can ship over Rock Island or Mo. Pacific. Geo. W. Goodman, Lenora, Kan.

Poland China Bred Gilts
Some very choice spring gilts sold either bred or open. Write for prices. PETER LUFT, Almena, Kan.

Shorthorns Six dark red bulls nine to eleven months old. Pioneer, a grandson of Avondale and Whitehall Sultan heads our herd. N. S. LEUSZLER & SON, Almena, Kansas.

Percherons--Shorthorns--Polands
October gilts, bred or open, for sale. Barmpton Bruce, by Lord Bruce heads my Shorthorn herd. C. E. Foland, Almena, Ks.

We Have 3 Shorthorn Bull Calves for sale. Got by a great grandson of Imp. White Hall Sultan and out of cows of the Lord Strathallen and Golden Fame Strains. J. W. Liggett & Sons, Almena, Kan.

Percherons---Shorthorns---Polands
A few nice spring gilts, by Jumbo Prospect, by Luft's Orange for sale open or bred to order. C. E. Whitney, Almena, Kansas.

COL. W. M. PATTON, Livestock Auctioneer ALMENA, KANSAS
Devoting my time to the business. Address as above.

COL. C. H. PAYTON NORTON, KANSAS
Purebred stock sales and big farm sales solicited. Write or phone. Address as above.

L. J. Goodman, D.V.M. Lenora, Kan. Hog vaccination a specialty.

T. P. TEAGARDEN'S BIG DISPERSION
Wayne, Kan., Thursday, Jan. 25
High grade Holstein cows and heifers and one registered bull. Consisting of six two year old heifers giving milk and bred. Four yearling heifers and a few heifer calves. Two high grade Jersey cows and two Shorthorn cows, almost purebred, are giving milk and those that are not will be fresh by sale day. The registered bull was bred by L. F. Cory & Son.
Duroc-Jerseys
19 head of sows and gilts will be sold, all bred to farrow in March and April. They are as choice as any like number that will be sold in the West this winter. Mr. Teagarden is the well known pioneer Duroc Jersey breeder and has kept his herd well to the front. Also two valuable herd boars. Other horses and stock will be sold. For further information and literature address,
T. P. TEAGARDEN & SON, WAYNE, KAN.
Auctioneer—Jas. T. McCulloch. Fieldman—J. W. Johnson.

MULE FOOT HOGS.

200 Immune Mulefoot Hogs all ages, priced to sell. 80 Big-Type sows, bred to champion boars. Catalog free. C. M. THOMPSON, LETTS, IND.

HAMPSHIRE HOGS.

REGISTERED HAMPSHIRES 150 gilts and boars, all ages. Cholera immuned. Satisfaction guaranteed. C. E. LOWRY, Oxford, Kan.

Shaw's Hampshires 150 registered Hampshires, nicely belted, all immuned, double treatment. Service boars and bred gilts. Satisfaction guaranteed. Walter Shaw, R.6, Wichita, Kan.

RED POLLED CATTLE.

FOSTER'S RED POLLED CATTLE Write for prices on breeding cattle. C. E. FOSTER, R. R. 4, Eldorado, Kansas.

RED POLLED cows and heifers, bred or open, also two May bull calves. I. W. POULTON, MEDORA, KANSAS.

MORRISON'S RED POLLS Cows and heifers for sale. Write us your wants. Chas. Morrison & Son, Phillipsburg, Kansas

Pleasant View Stock Farm 20 Red Polled heifers and young bulls for sale; can furnish herds not related. Also Percheron horses and Poland China hogs. Halloren & Gambrill, Ottawa, Kan.

Riley County Breeding Farm
RED POLLS—PERCHERONS
25 cows and heifers for sale. Young bulls ready for service in the spring. Inspection invited.
Ed. Nickelson, Leonardville, Kan.

JERSEY CATTLE.

Registered Jersey Bulls Excellent Breeding. Percy Lill, Mount Hope, Kansas

Jersey Bull Rhoda's Blue Fox No. 149901, good enough to head any herd, coming two, $100. Frank Friend, Alta Vista, Kan.

LINSCOTT JERSEYS
R. J. LINSCOTT, HOLTON, KANSAS

JERSEYS FOR SALE
23 head of registered cows and heifers, some bull calves. Would sell entire herd at bargain if taken soon. C. H. MILLS, WATERVILLE, KANSAS

Cattle and Stanchions for sale
Three nice registered Jersey bulls fit for service and females all ages; also 20 stanchions with or without steel stalls; like new. Have too many.
S. S. SMITH, CLAY CENTER, KANSAS

Jersey Bull Calf For Sale
Two months old, registered, pure bred bull calf, solid color. Name, Lou's Sans Aloi; sire, Sans Aloi Merigold, H. R. No. 124128; dam, Lou of Rosalpha, H. R. No. 230770. Lou's milk record from Dec. 7 to Jan. 7, was 1,043 lbs., averaging 17 quarts a day. Address C. F. EVANS, 625 W. Main St., Enid, Okla.

Get Rid of the "Boarders"

Do you keep cows or do they keep you? Do you know which are earning a profit and which are merely paying their board? One community increased the average net profit per cow 129% in a few years by testing. Cows from regularly tested herds sell for more money and so do their offspring. Knowing beats guessing in dairy work. Get our free booklet, "What is Accomplished by Testing Cows" and learn how to build up your herd from animals of known production. Every farmer should read this booklet. It's free. Send a postal today.

The American Jersey Cattle Club
355 West 23d St. New York City

HOLSTEIN CATTLE.

Registered Bull Calves for sale from cows with official butter and milk records, also can spare a few cows. HIGGINBOTHAM BROS., ROSSVILLE, KAN.

Segrist & Stephenson, Holton, Kansas Prize winning registered Holsteins. Bulls from three months to yearlings for sale. Address as above.

50 HIGH GRADE HOLSTEIN COWS for sale; also a few one and two year old heifers, some fresh and others to freshen soon. EAGER & FLORY, R. 8, LAWRENCE, KAN.

Purebred Registered **HOLSTEIN CATTLE** *Send for* FREE *Illustrated Booklet* The Holstein-Friesian Association of America, Box 292, Brattleboro, Vt

Braeburn Holsteins A. R. O. bull calves from eight months down. H. B. Cowles, Topeka, Kansas

LILAC DAIRY FARM
TOPEKA, KANSAS, R. NO. 2
Breeders of Pure Bred Holsteins
Bulls, from A. R. O. cows, all ages for sale.

Sunflower Herd Holsteins
KANSAS' GREATEST HERD
Offers cows bred to 30 lb. sire. Bull calves from 30 lb. sire and A. R. O. dams. Might spare a few heifer calves. Buy the kinds that will make a profit on present high feeds. F. J. SEARLE, OSKALOOSA, KANSAS.

sows cataloged carry the blood of noted sires and they will be bred to Jumbo Bob, a son of Caldwell's Big Bob, a winner at all leading shows the past season, and sons of Expansion Sure, and McGath's Big Jumbo. Write at once for catalog and mention this paper.—Advertisement.

Dispersion Holstein Sale.

H. L. Cornell, Route 6, Lincoln, Neb., will sell 85 head of strictly high grade Holstein cattle at his farm near Lincoln, Tuesday, January 30. Mr. Cornell has been in the dairy business for some time and this offering will clean up his entire herd. There will be 42 cows from 2 to 7 years old, all fresh or close springers. Each one of his aged cows has produced 40 pounds of milk in 24 hours, while a few of them have produced over 60 pounds in 24 hours. He will also sell 18 yearling heifers, 17 young calves and four registered bull calves. Everything in the offering is absolutely guaranteed. For further information write H. L. Cornell, Route 6, Lincoln, Neb., and mention this paper.—Advertisement.

Glissman's Holstein Sale.

The cattle offered in the 10th annual sale are the best lot that have ever left Rock Brook Farm. There will be a lot of the heaviest milking cows included, some now milking up to 65 pounds a day, as well as about 15 heifers that are heavy in calf to some of the best bulls in the West and a nice lot of younger calves. Every breeder of Holsteins knows that King of the Pontiacs, King Segis Pontiac, Sir Pontiac Rag Apple Korndyke are all lines of breeding that stand for the best in Holsteins. In this offering more cows in calf to bulls of this breeding will be offered than in any sale to be held in the corn belt this season. Catalog will be ready January 20 and will be sent to all who apply. Address Henry C. Glissman, Station B, Omaha, Neb.—Advertisement.

Big Duroc Sows at Auction.

This issue contains the advertising of J. H. Proett & Son and H. J. Nachtigall & Son of Alexandria, Neb., announcing their annual Duroc Jersey bred sow sale to be held January 31. This sale contains many daughters of Big Lincoln Valley Chief and many will be bred to the great thousand pound line bred Ohio Chief boar. Another boar that is a great factor in this sale is Top Col.'s Charmer, a son of Wonder Col. and out of a Golden Model 5th dam. The sale will be full of real attractions, including the tried sow Belle Lorene, by Royal Select, and out of a dam by King The Col. There will be fall gilts out of this sow, by King The Col. and four spring gilts out of this sow, sired by Big Lincoln Valley Chief. This sale will contain the best from both herds and the offering as a whole will be first class. Write at once for catalog and mention this paper. If unable to attend send bids to Jesse Johnson, in care of parties making sale.—Advertisement.

Their Sales Increasing.

Woods Bros. Company, Lincoln, Neb., report active sales of draft stallions at the close of the year and the beginning of the new year. Percherons, Belgians and Shires have all participated in the demand and a number of the prize winners have been sold at satisfactory prices. The junior champion yearling, Freedom, a beautiful black Percheron, went to Harry L. Smith, Bozeman, Mont. This is admittedly one of the crack colts of the year—a show prospect of rare conformation. The Imported Matcheur, direct from the Aveline stud in France, grand champion at the Kansas State Fair, went to Emil Stuenkil, Tilden, Neb. Matcheur is of the type and breeding that insures his making a great herd horse. F. M. Shroder, Concordia, Kan., purchased another Aveline stallion, Lumps, that has the stretch and bone and general make-up indicating a real drafter. While these stallions are of the highest class they sold at moderate prices. Woods Bros. Company will make a show of about 20 stallions at the Western Livestock Show, Denver, Colo., January 20-27, and they extend a special invitation to western horse breeders to make a careful inspection of their display. Read their announcement in this issue.—Advertisement.

S. E. Kan. and Missouri

BY C. H. HAY.

The Illinois Horse Breeders will hold their annual sale at Bloomington, Ill., January 30, 31 and February 1 and 2. They will sell about 300 head of draft horses, including the largest number of registered mares that ever went into one auction in the United States. They will also sell a lot of outstanding stallions of the real Percheron type. Arrange to attend this sale or write C. W. Hurt, sale manager, Arrowsmith, Ill., if further information is desired.—Advertisement.

Williams's Hampshire Sale.

One of the exceptionally good Hampshire herds in Missouri is that of Ezra Williams of Oak Grove. Mr. Williams is planning a bred sow sale for March 2. These sows are all splendid individuals. They are very heavy boned, exceptionally large and well belted. Watch this paper for display ads.—Advertisement.

Kentucky Jacks and Saddlers.

One of the oldest and best known breeding establishments in Kentucky is that of Cook Farms of Lexington. They are starting a card ad in this issue in which they are offering jacks and saddlers. The firm is absolutely honest and their stock meets the requirements of the most exacting buyers. Note the ad in this issue and if interested in either jacks or saddle horses write Cook Farms, mentioning this paper.—Advertisement.

Hull's Holstein Sale.

G. M. Hull of Garnett, Kan., will sell Holsteins at his farm near town on Tuesday, January 30. The offering will consist of 33 head including 11 5-year-old cows, five 4-year-old cows, one 7-year-old cow, three 2-year-old heifers, eight heifer calves, a high grade bull calf and the herd bull Sindt Butter Boy Lad 28692. All the females that are old enough are either fresh or will be fresh soon. The young calves are by and the cows and heifers are bred to Sindt Butter Boy Lad. This is an exceptionally good offering of high grade Holsteins and readers who are interested in this class of cattle should arrange to attend this sale. For further information write Mr. Hull and mention Farmers Mail and Breeze.—Advertisement.

HOLSTEIN CATTLE.

Registered Holstein bull calves for sale, from good cows. Wm. C. Mueller, Hanover, Kansas

Holstein Heifers to Freshen Soon One yearling bull, one eight months and one three. All registered. BEN SCHNEIDER, Nortonville, Kan.

HOLSTEIN CALVES high grade Holstein calves either sex, 3 to 4 weeks old, $20 each. Express prepaid. BURR OAK FARM, Whitewater, Wis.

HOLSTEIN CATTLE.

CHOICE HOLSTEIN CALVES 10 heifers and 2 bulls, 5 weeks old; nicely marked. $20 each crated for shipment anywhere. EDGEWOOD FARM, WHITEWATER, WIS.

BREED 'EM FROM SIR WALKER JOSIE 16 months old and very gentle. Carries prepotent ancestry for profitable producers and good udders. TREDICO FARM, Route 3, KINGMAN, KAN.

HOLSTEIN MILK · Health Vitality Nutrition · REG. U. S. PAT. OFF

THE HOLSTEIN-FRIESIAN ASSOCIATION OF KANSAS as an organization offers nothing for sale but desires to supply valuable information free to prospective buyers. The object of this association is to protect the interests of the breed in Kansas. Are you a member? Write W. H. MOTT, SEC'Y., HERINGTON KANSAS

NORTHVIEW HERD OF HOLSTEINS
Start the new year right. Get the best—the cheapest in the long run. Three year old heifers due to freshen soon. Large, well marked and well bred. Registered bulls.
LACKLAND BROS., AXTELL, KANSAS, (MARSHALL COUNTY)

50 HEAD HIGH-GRADE COWS AND HEIFERS FOR SALE
All heavy springers, bred to a registered Holstein bull. Every animal a good one. We are interested in the distribution of the best Holstein cattle that can be procured; we will not be the agency of distribution of the inferior kind. We have no bulls for sale, all sold at this time. A new crop of Canary Butter Boy King calves coming on now. Come at once and see our offering or write for description and prices. W. H. Mott, Herington, Kansas

In 1887 Lee Bros. father brought the first imported Holstein cows to Wabaunsee county. In 1917 Lee Bros. & Cook have the largest pure bred and high grade herd in Kansas.

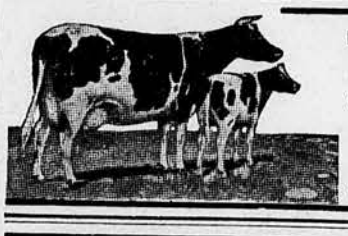
265 Holstein Cows, Heifers and Bulls
Registered and High Grade. 3 Cows and a Registered Bull $325

We are selling dealers in Kansas and Oklahoma. Why not sell direct to you?

40 fresh cows, 75 heavy springing cows, 90 springing heifers; 40 open heifers and 20 registered bulls. Bring your dairy expert along, we like to have them do the picking. Every animal sold under a positive guarantee to be as represented.

Well marked, high grade Heifer and bull calves from 2 to 8 weeks old. Price $22.50 delivered any express office in Kansas. We invite you to visit our farm and can show you over 300 head of cows and heifers, sold to our neighbor farmers. Wire, phone or write when you are coming.

LEE BROS. & COOK, Harveyville, Wabaunsee Co., Kan.



TORREY'S HOLSTEINS
Cows and heifers, young springing cows well marked and exceptionally fine; also springing and bred heifers and registered bulls. See this herd before you buy. Wire, phone or write.
O. E. TORREY, Towanda, Kan.

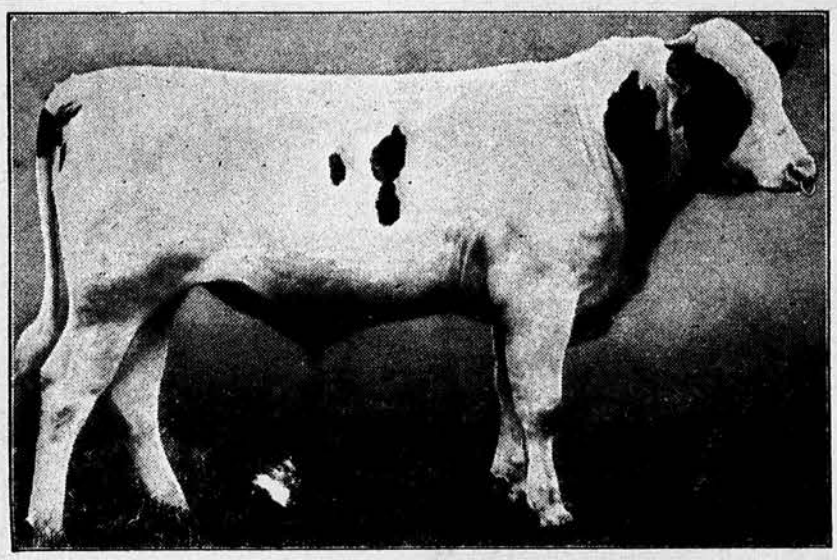
HOLSTEINS
Choice cows and heifers showing in calf to pure bred bulls. Selected for size, color and milk production, from the best dairy herds of the east. You will find nowhere a better herd from which to select. Prices reasonable. Write, phone or wire
J. C. ROBISON, BOX A, TOWANDA, KAN.

Clyde Girod, At the Farm. F. W. Robison, Cashier Towanda State Bank.

Holstein Friesian Farm, Towanda, Kan.
Pure Bred Holsteins, all ages, strong in the blood of the leading sires of today, headed by Oak De Kol Bessie Ormsby 156789. Special offering in choice young purebred bulls, ready for service, from tested dams. Let us furnish you a bull and improve your herd. TWENTY-FIVE purebred females, young useful Holsteins with A. R. O. records from 12 to 26 lbs. butter in seven days.
BEFORE YOU BUY, TALK WITH US
We have an especially large, choice selection of extra high grade young cows and heifers due to freshen this fall and early winter, all in calf to purebred bulls. These females are large, deep bodied, heavy producers, with large udders, all well marked individuals and the right dairy type. Our offerings are at prices that challenge comparison for Holsteins of their breeding and quality. High grade heifer calves $25. Send draft for number wanted. Let us know what you want in Holsteins, and we will be pleased to send you descriptions, and prices. Keep us in mind before purchasing. Wire, write or phone us.
GIROD & ROBISON, Towanda, Kansas

OAKWOOD STOCK FARM COWS

50 HOLSTEIN COWS—50 JERSEY COWS and HEIFERS. All fresh now and in January.
This is an offering at private sale of high grade cows and heifers that should be investigated by anyone wanting to buy. They are freshening now and all will be fresh by the middle of January. Many of them are high testing cows with records of from 40 to 60 pounds of milk per day. All tuberculin tested. Information gladly furnished by return mail. Visitors met at Salina in auto. Farm two miles out. Bank references if desired. Bring your neighbor and we will get together on prices. Phone 1819 F-2. Address
M. E. Peck & Son, Salina, Kan.



Sir Juliana Grace's De Kol, the Sire at the Head of this Herd.

Albechar Farm Holsteins

Albechar Farm offers females of all ages for sale. Also bulls from calves up to serviceable age. Herd consists of 160 head of females, headed by Sir Juliana Grace De Kol. This bull is of world record breeding, and a great individual. He has a number of daughters in the herd, and a large number of cows in this herd are bred to him. There are more than 20 A. R. O. cows in this herd ranging from 15 lb. two-year-olds, to 24 lb. full age cows. There are daughters and granddaughters of Pietertje Hengerveld Count De Kol, King Segis, Pontiac Korndyke, Pontiac Aaggie Korndyke, King Spofford Walker, King Hengerveld Model Fayne, (King Hengerveld Model Fayne is a brother to the world's greatest cow, and is the greatest living son of King Fayne Segis, who is the sire of the only 50 lb. cow). Can make prices on one or more, up to one or two carloads. Prices consistent with good breeding and individuality. Write for descriptions and prices, or better still, come and make your own selections. Address

ROBINSON & SHULTZ
Independence Kansas

Holsteins—Dispersion Sale

85 HEAD OF HIGH GRADES, ENTIRE HERD

At my farm 4 miles west of

Lincoln, Nebraska, Tuesday, January 30th

The offering consists of 42 cows two to seven years old, nearly all recently fresh or close springers. They have size and quality and are producers. Every aged cow has produced over 40 pounds of milk in 24 hours, a few over 60 in 24 hours.

18 head yearling heifers, nicely marked.
17 head of young calves.
4 young registered bull calves.
2 springing registered cows, 4 to 7 years old.

Every animal sold guaranteed to be just as represented sale day. All cattle over 6 months old tuberculin tested and guaranteed for 60 days. Take Capitol Beach cars to R. R. crossing. Free transportation by autos from 9:30 A. M. and return after sale. Free lunch at noon. Sale held under cover. No postponement. A splendid opportunity to buy the best. For further information write

H. L. CORNELL, ROUTE 6, LINCOLN, NEBR.

Auctioneer, Z. S. Branson.

Dispersion Sale

Jacks and Jennets

Courtland, Kan., Thursday, Feb. 1

Seven jacks, four of them broke, including the herd jack, **Salitario,** 15 hands high, black with white points and sired by Missouri Star, a noted sire. Among the younger jacks is the remarkable grandson of **Limestone Mammoth,** that stands 16½ hands high and is black with white points. The offering is not a large one but one of the best ever made in central Kansas.

The six jennets are bred, are valuable and should interest jack breeders everywhere.

Included in the sale is the valuable four-year-old dark brown Percheron stallion, **Teddy 112503.** He is recorded in the Percheron Society of America book and will weigh easily a ton. Evidence of his ability as a sire will be seen sale day. He traces to the great Brilliant through both sire and dam. A standard bred stallion will also be sold. Write for further information at once. Sale under cover joining town. Address,

J. W. Smith, Courtland, Kansas

Auctioneers: L. R. Brady, J .W. Shotwell.
Fieldman, J. W. Johnson.

(Mention the Farmers Mail and Breeze when you write.)

Holstein Cattle Sale

I will sell at public sale, at my farm, one-half mile north and one and one-half miles east of

Garnett, Kan., Tuesday, Jan. 30th

Commencing at 10 o'clock, the following property:

33 HEAD HIGH-GRADE HOLSTEINS 33

Consisting of Cows, Heifers and Calves

and my great herd bull, **"Sindt Butter Boy Lad, No. 28692."** A bull with lots of quality, good color; comes from milking families and is a sire of 90 per cent heifer calves. He was calved February 12, 1914. Cows and heifers are all bred to him.

5 five-year-old cows, good, one will be fresh soon. 2 five-year-old cows just fresh, giving good flow of milk. Seven-year-old cow, a great producer, will freshen in March. 4 five-year-old cows, freshen early in spring. 5 four-year-old cows, freshen in spring and summer. 3 two-year-old heifers, bred for summer calves. 8 spring heifer calves. High grade bull calf.

G. M. HULL, GARNETT, KANSAS

RUDISILL & RATLIFF, AUCTIONEERS.

75 Registered Holstein-Friesians 75

At Auction

Rock Brook Farms 10th Annual Sale of Registered Holsteins will be held at Union Stock Yards Sale Pavilion

South Omaha, Nebr., Tuesday, February 6th

Included in this offering will be daughters of Sir Pontiac Rag Apple 49334, a 31 pound bull; Kalmuck Skylark Johanna, a son of Katy Gerben; King of the Pontiacs Johanna Lyons 129656, a son of King of the Pontiacs 39037 and King Segis Helen Pontiac, a son of King Segis Pontiac, out of a daughter of Hengerveld DeKol, making him a brother to the $50,000.00 King Segis Pontiac Alcartra, as well as a lot of cows and heifers in calf to above bulls. A lot of the cows will be fresh at time of sale and milking heavy. A lot of A. R. O. cows with records up to 22 pounds. In all a high class offering with every animal over 6 months old tuberculin tested and every animal guaranteed a breeder.

No better offering of registered Holsteins will be sold this season.

For Catalog, Address

HENRY C. GLISSMAN, STA. B, OMAHA, NEBR.

Walker & Sons' Immune Poland China Sows at Auction

Sale will be held in our big new sale pavilion on the farm near

Alexandria, Neb., Wednesday, Feb. 7, 1917

66 HEAD Sired By or Bred to Herd Boars of Known Merit **66**

25 TRIED SOWS AND FALL YEARLINGS.

41 SPRING GILTS, sired by BLUE VALLEY, BLUE VALLEY ORANGE and BLUE VALLEY TIMM, the greatest son of the grand champion Big Timm. The offering will be bred to the boars mentioned. A big per cent of them not bred to BLUE VALLEY are either sired by him or carry some of his blood. We will show you spring gilts weighing 400 sale day. Write at once for catalog and mention Farmers Mail and Breeze. A SPECIAL TRAIN will leave Fairbury over Rock Island, at 9:30 morning of sale and return from Gilead right after the sale. Gilead is only four miles from the Walker farm. Send bids to Jesse Johnson in our care.

THOS. F. WALKER & SONS, Alexandria, Neb.

Aucts.: H. S. Duncan, J. C. Price. Jesse Johnson, Fieldman.

Big Orange, Big Joe, Big Bob Poland China Sow Sale

At farm near

Tobias, Nebraska, Thursday, February 8th

50 Head All Immune, Sired by Maple Grove Orange and Mcs. Big Joe **50**

5 TRIED SOWS, 25 FALL YEARLINGS, 20 SPRING GILTS

Over half of the offering will be bred to **Maple Grove Big Bob**, a great son of **Siever's Big Bob** and out of **Black Maid**, sister to the grand champion boar at National Swine show. Remainder bred to Mcs. Big Joe and **Maple Grove Black Orange**, a worthy son of Maple Grove Orange. The individual excellence of the offering matches the popularity of breeding and I invite the Poland China breeders from east and west to be with us sale day. If you can't come send bids, in my care, to J. W. Johnson. Write early for catalog and mention Mail and Breeze. Free transportation from Alexandria and Tobias, Nebraska.

WM. McCURDY, TOBIAS, NEBRASKA

Auctioneer—Col. J. C. Price. Fieldman—J. W. Johnson.

65 Big Immune Poland China Bred Sows

At farm near Cadams and

Superior, Neb., Tues., Feb. 6

15 TRIED SOWS AND FALL YEARLINGS
50 SPRING GILTS

The Good Ones From Two Big Herds. Mostly sired by Giant Wonder, Big Ben Amazon, Ben Amazon and Jumbo Jr. All big type sires of known value as breeders.

A big per cent of the offering will be bred to our new boars, BIG KING PRICE and ORPHAN'S PRICE, a pair of young boars combining the blood of the best modern big sires. Others are bred to boars mentioned and out of our same big sows that carry the blood of SMITH'S BIG HADLEY, BIG BEN AMAZON and other boars that have helped create a demand for our kind of Poland Chinas. We also sell six Shorthorn bulls ready for service. Stop at hotel in Cadams and old Goodhue hotel in Superior. Free transportation to and from farm. Write at once for catalog and mention Farmers Mail and Breeze. Send bids to Jesse Johnson in our care.

Smith Bros., Superior, Nebr.

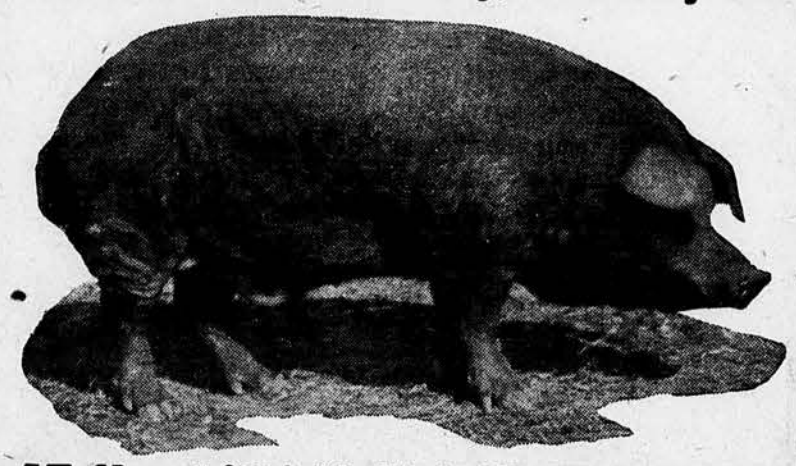
(Successors to Albert Smith & Sons)

AUCTIONEER—Col. A. W. Thompson.

Big Duroc Sows and Gilts Bred to Kern's Sensation

Sale at farm four miles southeast of

Cortland, Neb., Saturday, February 3rd



45 Head Over half bred to the $750 **KERNS SENSATION** one of the litter that furnished the 1st, 2nd and 4th prize and Jr. champion under year boars at Nebraska State Fair, 1915, and himself winner of 2nd, 1916, at same fair. Others are bred to our big herd boars WIDLE'S JUMBO, JUMBO, and ILLUSTRATOR B. We never before offered such a splendid line of big growthy gilts. They are by our herd boars and some out of top sows purchased last winter. They include 3 by EDUCATOR, 1 by KING THE COL. 3, by PREMIER GANO, 2 by ILLUSTRATOR 2ND, and a litter sister to COL. UNEEDA, conceded to be the best boar sold in Nebraska last year. Write at once for catalog and mention Farmers Mail and Breeze. Transportation from Cortland, and Adams. Parties unable to be with us may send sealed bids to Jesse Johnson in our care.

Dave Boesiger, Cortland, Gage County Neb.

Auctioneers—Col. N. G. Kraschel, Col. W. M. Putman.
Fieldman—Jesse Johnson.

$7.50 Down *After* 30 Days Free Trial

Only $7.50 if satisfied after trial—then a few monthly payments

—and—

You Keep This Genuine Melotte

Write for catalog—it explains everything

Yes, sir, that is our offer on the world's greatest cream separator, the imported Belgian Melotte—the separator with the wonderful, self-balancing bowl. We are taking the lead. Let others follow if they will. Our catalogue explains. We say to you, "the world's greatest Melotte will give you *more cream*, bigger profits and greater satisfaction—*and*—it is up to us to prove it. You have a right to insist upon the proof when *anybody* makes claims for his separator." Read our offer.

Not a Cent in Advance

Just ask for a 30 day free trial. Then we ship the Melotte. No salesman, no agent calls; no one around to bother you or to influence you. You start using the machine according to every test you can think of. If you decide against it, all right—send it back *at our expense*. But—

If after thirty days you are convinced that the great Melotte is the cream separator for you, you can keep it on our rock bottom price offer—first payment is $7.50 after the thirty day trial, and thereafter just the same monthly payments. Send the coupon now for free catalog and full details of this offer.

Extra!

No Duty Now!

Save $15.25

The high tariff has been cut right off—the great Melotte comes in absolutely free of duty. Good for the American farmer! He gets the great Melotte Cream Separator at an extra reduction of $15.25!

The high tariff and patent arrangements have kept the Melotte out of reach of the American farmer. Now this handicap is off. You can get the world's greatest separator now without this excessive duty charge—and on our rock-bottom, direct offer

Wonderful Record

The Melotte has won more than 264 international prizes at Brussels, Vienna, London, Paris, Amsterdam, Milan, St. Louis, etc.

One Melotte has been running at Remincourt, Belgium, the equivalent of 54 years of actual work without appreciable wear.

Here is *one* great reason for Melotte superiority: The bowl is *self-balancing*—it hangs down from a single bearing and spins like a top. Can't get out of balance. The Melotte turns so easily that the bowl spins for 30 minutes after you stop cranking unless you apply brake. No other separator requires a brake to stop the spinning. *The Melotte is guaranteed for 15 years.*

Repairs—

are hardly ever needed on the Melotte on account of its self-balancing bowl—no repairs compared with other separators.

BUT—We have on hand repair parts for ten years ahead. That is the first thing we attended to, a huge stock of repairs when we introduced the Melotte in this country, and it has been a gratifying surprise that we are using hardly any of that stock.

Rock-Bottom Price! Highest Grade Separator

WE offer you the Imported Belgian Melotte—the world's greatest cream separator—at the rock-bottom, before-the-war price: the same price charged in Belgium plus only $1.75 for water freight.

Seize this opportunity to get a highest grade separator on this astounding offer. You want a quality separator, one that you can be proud of all your life, one that will never bother you and that will always give you the maximum amount of cream without loss. So, we recommend to you the Imported Belgian Melotte—the separator with the wonderful self-balancing bowl that can not get out of balance and vibrate—especially now that we are making our rock-bottom offer. The Melotte is guaranteed for 15 years. Write at once, *while this offer lasts.*

Valuable Book Free

"Profitable Dairying". Send Coupon

The book is the work of B. H. Benkendorf, Wisconsin Dairy School-Agricultural College, Madison, Wis., and K. L. Hatch, Winnebago County Agricultural School, Winneconne, Wis. 88 pages. Contains no advertising whatever. A real, practical, commonsense treatise, telling everything about cows and dairying—how to feed and care for cattle—how to make more money out of your cows. Every farmer should have this book in his library. It is worth while getting now, even if you are not considering a cream separator at present.

We will send you this valuable book free upon receipt of the coupon. Also our new catalog describing fully the Melotte self-balancing bowl cream separator, and telling all about our rock bottom, 30 day free trial, easy payment offer. Send coupon while this offer lasts.

The Melotte Separator
H. B. Babson, U. S. Manager
19th St. and California Avenue
Dept. 4661
Chicago, Ill.

The Melotte Separator
H. B. BABSON
U. S. Manager
19th St. and California Ave.
Dept. 4661 Chicago, Ill., U.S.A.

Without any obligation on me send me free and prepaid your booklet, "Profitable Dairying," and your special free-tariff prices on the Imported Melotte Cream Separator Also full details of your free-trial, monthly-payment, no-money-down offer.

Name.....

Address.....

Try Them All!

All the Makes on the Market

HERE'S a frank open suggestion:—Have *every* manufacturer that is willing to give you a free trial, ship his separator to you.

If he is not willing to give you a 30 day free trial, ask him *why* he won't—get his *reason*.

Set them all up side by side, the Melotte and all the others, and then make the test. Keep a record of the results. See which skims the closest—which gives you the most cream. Figure out, on this basis, which will bring you the most profit. Notice which machine is easiest to operate—which is the least tiring. Then notice the construction Which will stand the most wear? Which is most substantial?

We leave all this to your judgment. Look them all over. Analyze the results you get. Decide. Then keep the one which has proved best.

We're only *too glad* to have such a test of all machines together; then when you've bought the Melotte you'll be all the more a "booster" for us.

We are willing to abide by your judgment without a word. Remember the terms of our offer—if you want to return the Melotte, you may do so at our expense.

Don't buy any separator until after you have tried it 30 Days Free on your own farm.

Send the coupon at once for our Melotte catalog and the valuable book on dairying—no obligation.