

The FARMERS MAIL AND BREEZE

9 FEB 17

LIBRARY

A Future in Farming

By F. B. NICHOLS, Associate Editor



WHAT reward will farming offer in Kansas in the next 25 years? How will the income from this business compare with the profits in other lines? Can a young man expect to get as large a return from the effort and intelligence put into this business as he could obtain in the city? What will be the changes in Kansas farming in the next quarter of a century?

These questions are of the greatest interest today, especially to the younger men. Farming has been profitable on most places in the last year; country life is being regarded in a much kinder way than ever. The movement of the country young people to the city has been almost stopped, temporarily at least. This is because they see that the farms are today offering a better return than the city. Will this condition prevail five, 10, 15, 20, and 25 years from now?

In answering this question it is important that the probable development of farming in Kansas should be considered carefully. What will this progress be? What changes will come? How will agriculture in this state grow to the perfection of the more logical systems which thinking farmers believe will be developed?

The most important thing to consider is the human element. The population will grow; it seems probable that in 25 years Kansas will have a population of between 3 and 4 million persons, perhaps more. A considerable part of this increase will be in the cities of course, for it is obvious that Kansas is due for a big growth in manufacturing and in the developing of its mineral deposits. This is a fine thing for farmers, for it will supply an excellent home market for the products of the farms.

"We need to encourage the manufacturing business in Kansas," said Henry Jackson Waters, president of the Kansas State Agricultural college, recently. "There is a definite limit to the degree to which a country can be developed by agriculture alone. Other industries must help with the progress. And why shouldn't our agricultural states become great manufacturing regions? The people of these regions are among the largest users of manufactured products. Why shouldn't these states, therefore, manufacture the principal part of the articles its people use and have a fair share of the export business of the nation as well? Someone will say that these are distinctively farming regions and that they lack the necessary raw materials for the development of manufacturing industries. Of the raw materials used in the manufactur-

ing industries of the United States, only about $\frac{1}{2}$ of 1 per cent is derived from the sea; about 5 per cent is from the forest; about 13 per cent from the mines; and more than 81 per cent comes from the farm.

"The farm grown materials entering most largely into manufacturing are cotton, wool, wheat, corn, oats, milk and livestock, all of which are the principal products of American farms. As far, therefore, as the supply of raw material affects the situation, these regions are peculiarly well adapted to all kinds of manufacturing which use farm grown materials, and are as well adapted as most other parts of the United States for the development of many other types."

Manufacturing has been making encouraging progress in Kansas for some time. The big growth it will have will care for but a small part of the population, however; the farms will get a large share of the additional population. Many of the larger farms will become smaller; there will be a considerable tendency toward cutting the quarter-section and half-section farms into two places.

Another thing that will take care of a large part of the population will be the increase in the number of hired hands, especially the married hands. Many farms that are now being run with one or two hands will add one man. This means of course an increase in the number of hired men in the country, which may not be the most desirable thing, but it will occur. The history of the older farming countries has shown it to be a development certain to come. As agriculture gets more highly organized it is to be expected that it will become a business that offers better opportunities to the skillful and smaller chances to the inefficient. Only the efficient men can make a profit on land worth \$100 or \$200 an acre. The result is that the men who cannot get the better results in farming for themselves will gradually come to work for the men who can operate their places efficiently. If you don't believe this will occur in Kansas just consider the history of the development of farming in Europe and in the Eastern states.

This tendency in the developing of farming makes it all the more important that the young men should get the best possible training. Every young man should have the ideal of getting the best preparation he can obtain. In many cases this can be carried thru a college course; the extraordinary increase in the enrollment at the Kansas State Agricultural college shows the tendency along this line. I was attending school there 10 years ago this winter, and I remember we thought that the college probably had about reached its limit of attendance. The number of students at Manhattan today is considerably more than twice the number in 1907. I believe from what I can see for the future of that school that the percentage of the annual increase of students probably will increase; I think the school will show a more rapid growth in enrollment in the next 10 years.

The success of the college trained men, especially in animal husbandry, is one of the encouraging things in the business of agriculture. Many of the young fellows who cannot take the long course will take the short courses, which are doing some mighty efficient work. Others will take correspondence instruction; more than 3,000 persons were enrolled by the college last year in these courses. The private correspondence schools are doing good work. The instruction in agriculture in the secondary schools, in both the high schools and the grades is becoming better organized every year. One of the big reasons is that the Kansas schools are well equipped with texts for teaching agriculture, which was not the case at the beginning of the instruction in secondary agriculture in this country.

Some men who cannot get this help from schools will get it from the leading farmers—who are blazing the trail for the agriculture of the state—from books, good farm papers and magazines and from personal observation. The methods are available for everyone; a thinking, studying, reading farmer who has the right pep and ambition can keep up with the progress of his business. He must do this in the next 25 years if he wishes to develop with the times—if he wishes to be an employer and an owner.

It doesn't matter so much about the men who own the land now, so far as they are concerned. Only the young men adapt themselves in the best way to the changing conditions. It is these young men who are trying to pay for a high priced farm from the products of that place and provide a living for their family who must study efficiency. If they are not efficient they will fail in the struggle, and if this is the case they must work for the men who can direct their efforts properly.

But these men who are efficient, and their proportion will be large, are going to make Kansas one of the greatest producing regions the world has ever seen. Our present disgraceful acre yields are going to be raised; better methods, crop (Continued on Page 30.)



"God's Country"—A Wilson County Scene

I Want To Send You My Big New BOOK of FARM GATES FREE



Post-
Paid

I want every landowner to have a copy of my big new Farm Gate Catalog. I want you to see why CAN'T-SAG Gates are the finest looking, best built and most practical farm gates you can own—why over 75,000 of them were put up by farmers and stockmen last year. My free catalog shows why these Gates are so strong, light, easy swinging and durable and yet cost you no more than clumsy, short-lived, all-wood gates.

You can use the boards you have handy about your place, or you can secure the boards from your local lumber dealer and by using my Gate Steels, you can build your own 5-year guaranteed CAN'T-SAG Gates just like the illustration below and save money. My free catalog shows how. Write for it today. **ALVIN V. ROWE, President.**

"Can't-Sag" Gates Cost Less Than All-Wood Gates Last Three Times as Long

Note how they are built—a happy combination of wood and steel. The wood gives flexibility and prevents injury to stock—the angle steel uprights give durability, unusual strength, lightness and absolutely prevents sagging. Each board is double bolted between four pairs of angle steel uprights and double triangular "X-truss" braces, making them the strongest, lightest, trimmest-looking gates you can put up on your farm. Write for my Free Catalog of CAN'T-SAG Gates and Gate Steels today.



This illustration shows gate made of 6-in. boards; also regularly made of 4-in. boards. Three heights, 4, 4 1-2 and 5 ft., any length desired.

Never Sag, Warp or Twist Out of Shape

"CAN'T-SAG" Gates are guaranteed never to sag. Stock can't twist them out of shape. The double set of angle steel uprights keeps them square and plumb.

All Joints Water Tight

The angle steel uprights being bolted on are fairly drawn into the board on each side making a smooth joint that is water-proof. Another advantage the angle steel is no wider than the board is thick, thus forming a narrow joint which dries out just as quickly as the exposed surface of the board.

Self-Locking Re-Enforced Hinge

The "CAN'T SAG" Hinges are all steel—unbreakable and many times stronger than necessary. They permit the gate to swing easily either way and have a special self-locking feature which makes it impossible to lift the gate from its hinges when closed. A "CAN'T-SAG" Gate really locks at both ends. This feature makes "CAN'T-SAGS" the best hog gate on the market. Rooting hogs can't lift them from their hinges. They can't crowd under, nor crawl through.

Stock Can't Injure Themselves

"CAN'T-SAG" Gates are easily seen. Stock won't run into them as they do against steel and wire gates. There are no sharp projections to injure the animal—no chance of the gate getting down nor of the stock getting tangled up in any part of it.

Boards Easily Replaced

When a board breaks the "CAN'T-SAG" Gate

built in my big factory. See how you can build your own CAN'T-SAG Gates with the Gate Steels I furnish and save money. Sending for this free book will not obligate you in any way. Write for a copy today. Address, **ALVIN V. ROWE, President,**

Catalog Sent Free

Just write your name and address in this coupon or on a post-card and mail it to me at once. See how every part of the CAN'T-SAG Gate is made interchangeable, lifts entire gate, allowing it to swing freely over drifted snow, or permit small stock to pass under.

Barbed Wire Attachment

Suspends wire tightly 5 inches above top board of Gate. Easily attached to any size "CAN'T-SAG" Gate.

Valuable Advertising Free

We will letter your name or name of farm absolutely free of charge on both sides of every gate you buy, if requested.

Elevating Attachment

made interchangeable, lifts entire gate, allowing it to swing freely over drifted snow, or permit small stock to pass under.

Barbed Wire Attachment

Suspends wire tightly 5 inches above top board of Gate. Easily attached to any size "CAN'T-SAG" Gate.

Valuable Advertising Free

We will letter your name or name of farm absolutely free of charge on both sides of every gate you buy, if requested.

Elevating Attachment

made interchangeable, lifts entire gate, allowing it to swing freely over drifted snow, or permit small stock to pass under.

Barbed Wire Attachment

Suspends wire tightly 5 inches above top board of Gate. Easily attached to any size "CAN'T-SAG" Gate.

don't sag or fall down. You simply slip out the broken board and replace it with a new one in five minutes you have another perfect "CAN'T-SAG" Gate—as good as new and repaired at the cost of one board. "CAN'T-SAG" Gates are neatest and trimmest looking gates you can use.

Valuable Advertising Free
We will letter your name or name of farm absolutely free of charge on both sides of every gate you buy, if requested.

Elevating Attachment
made interchangeable, lifts entire gate, allowing it to swing freely over drifted snow, or permit small stock to pass under.

Barbed Wire Attachment
Suspends wire tightly 5 inches above top board of Gate. Easily attached to any size "CAN'T-SAG" Gate.

Valuable Advertising Free
Just write your name and address in this coupon or on a post-card and mail it to me at once. See how every part of the CAN'T-SAG Gate is

made interchangeable, lifts entire gate, allowing it to swing freely over drifted snow, or permit small stock to pass under.

Barbed Wire Attachment
Suspends wire tightly 5 inches above top board of Gate. Easily attached to any size "CAN'T-SAG" Gate.

Valuable Advertising Free
Just write your name and address in this coupon or on a post-card and mail it to me at once. See how every part of the CAN'T-SAG Gate is

made interchangeable, lifts entire gate, allowing it to swing freely over drifted snow, or permit small stock to pass under.

Barbed Wire Attachment
Suspends wire tightly 5 inches above top board of Gate. Easily attached to any size "CAN'T-SAG" Gate.

Read What Users Say

Rowe Mfg. Co., Galesburg, Ill.
Gentlemen:—The Can't Sag Gate is the finest thing in the gate line I ever saw and is entirely satisfactory and I will want more of them soon. In fact, I am going to use nothing but CAN'T-SAGS in the future. Respectfully yours,
J. R. GROUND, Mgr., Oakland Farms, Hagerstown, Md.

Rowe Mfg. Co., Galesburg, Ill.
Dear Sirs:—In regard to the "CAN'T-SAG" Gates, I like them fine. I see no signs of sagging. I have 12 in use around my barn and have put them to some pretty hard tests, and they show no signs of sagging down. A good many have taken notice of them and they all say they are the only gates to have on a farm.
C. H. COBB, Springfield, Ind.

Rowe Mfg. Co., Galesburg, Ill.
Gentlemen:—Having used four of your "CAN'T-SAG" Gates around the feed lots where they are constantly being rubbed against by hogs, cattle and horses I am well pleased. They are flexible, yet very strong. I have been using the gas-pipe and iron gates for several years and have never yet found one durable enough to make them a profitable investment where stock could get at them. The "CAN'T-SAG" Gates are very satisfactory and I assure you I shall continue using them.
C. E. CARPENTER, New Berlin, Ill.

ALVIN V. ROWE, Pres., 1814 Adams St., Galesburg, Ill.
Dear Sir:—Without obligation on my part, please send me a copy of your new catalog of CAN'T-SAG GATES and GATE STEELS.
I own..... acres.
Name.....
P. O.....
State.....
R. F. D.....

ROWE MANUFACTURING CO.
1814 Adams Street
GALESBURG, ILL.
Also Manufacturers of Rowe's "New Idea" Valveless Hog Oilers



THE FARMERS MAIL AND BREEZE

An Agricultural and Family Journal for the People of the Great West



Volume 47
Number 6

TOPEKA, KANSAS, FEBRUARY 10, 1917

Subscription
\$1.00 a Year

Farm Editorials

HIGH QUALITY apples cannot be grown in Kansas unless the trees are sprayed. They require this protection, for the insects and fungous diseases are here, and they will always be with us. But a small sprayer large enough for the small home orchards of this state can be purchased for \$15. It will cost about 20 cents a tree for the material. From an investment of this kind and a little work one can be certain of producing high quality fruit. From the average home orchard in this state one can pay for the sprayer, materials and labor the first year he sprays, and have a considerable profit in addition.

Nitrogen

Most Kansas soils need more soluble nitrates. In many cases the nitrogen is the limiting thing in crop yields. Applications of nitrogen are needed. Where should this be obtained? From the air; from the inexhaustible supply nature has given us. Nitrogen can be secured by growing the legumes. A more general use of legumes in the crop rotations in Kansas will result in an increase in the grain yields.

Better Woodlots

The profits obtained from the woodlots in Kansas can be increased by intelligent management. Remove the poor trees and protect the straight trees of the desirable kinds. Careful planning is needed in a woodlot just as much as in the grain fields. In both places it will increase the net return produced by the farm.

Farm Letters

Letters on farming are desired every week by the Farmers Mail and Breeze, and this is especially true in the winter. Have you been successful with some new plan? Have you worked out methods that would make farming in Kansas more profitable or farm life more satisfactory? Letters on any phase of better farming will be very acceptable.

Draft Horses

The quality of the draft horses is being raised in Kansas. An encouraging progress is being made in getting animals that have a better utility value. The number of good purebred stallions is increasing, and at the same time there is a considerable decrease in the number of scrub stallions. There still is a distressfully large number of stallions that do not have the proper quality, however, and there will be until the demand comes for only high class animals.

Scrub stallions can be eliminated by the mare owners. If the owner of a mare will demand the service from a stallion that has real breeding and quality behind him, and then will pay enough to allow the owner to make a profit, the scrubs will be eliminated quickly enough. If the mare owner declines to pay a high service fee and is willing to get along with any scrub stallion—if he wishes to save \$5 on the fee and lose \$50 on the horse—the scrubs will continue to stay with us.

The average stallion owner has never made a proper profit. In some cases this has been his fault, perhaps, but in many cases the service fee has been so low that a good profit could not be made. Mare owners generally should consider the progress the farmers around Emporia are making in the breeding of Percherons, and profit thereby. The service fee of Isola, the stallion owned by the Lyon County Percheron Breeders' association, is \$20—and the members of this association are leading in the profits made in horse raising. We need to hear more about \$20 fees in Kansas if the money goes to pay for real quality, and utility breeding.

Rural Credits

In advertising the new rural credit bank scheme its friends will gain nothing for it in the long run by rosy-hued descriptions which omit important items and charges. This tendency is becoming noticeable among writers for the new plan.

An example is the answer given to the question of how a poor man, without capital other than his farm machinery and stock, can take advantage of

the new loan facilities. It is elaborately explained how he may borrow from the bank at 5½ per cent one-half the purchase price, borrowing the other half at 6 per cent on second mortgage from the seller. Figuring the transaction on the basis of a 100-acre farm at \$50 an acre, it is calculated that the first year the interest and part-payment principal would come to only about \$515, and that the ordinary renter of such a farm "pays more than this sum in rent every year."

Now, the renter who undertakes to buy land on such a description of the process and what it actually costs will have a different experience from what he expects. Land owners frequently take a mortgage back on more than half the selling price at 6 per cent, but not on second mortgage. We do not know where the writer got his information that land rent comes to 10 per cent of the purchase price, but it is a long way off the truth in this part of the country. The first year's payment as figured would be fully twice the ordinary rent expected in Kansas on most \$50 farm land.

But, what sort of help is given the land seeker without capital, to omit from the annual charge his taxes and repairs and maintenance costs? Anywhere from \$150 to \$200 must be added to these figures to enable the renter to break even the first year on his purchase, and as this brings his annual charge above \$700 on a 100-acre farm worth but \$50 an acre, most landlords and tenants do not need to be told that it is a large return to be looked for, one year with another. Any renter who can make that sort of rent out of a \$5,000 farm would soon be a capitalist on his own account.

Unless a better showing can be made, the tenant without capital would do better to stick to his tenant farming until he can make a first payment on a land purchase, besides having his horses, cows, pigs and farm machinery clear, and a little working capital to go on.

City and Country

More co-operation is needed between the commercial clubs of towns and the farming population. Why should not the commercial clubs give the same co-operation—and I say greater co-operation—to the farming community than they do the manufacturing industry? It is simply because this matter has not been brought to their attention. It is perhaps as much the farmer's fault as it is the business man's fault. I do not believe the initiative lies with either. I believe both farmers and business men must get together and work out the solution of this problem jointly.

I am glad to say that there are many communities where just such co-operation is being worked out between commercial clubs and farmers. The real live commercial clubs are assisting and co-operating with the farmers, and the live farmers are welcoming this assistance from the business men and are co-operating in every possible manner with them. There should be many more communities working along these lines. It is up to the farmers to start things moving. It will surprise you to find how quickly the business men will take to this joint co-operative plan if you will present the matter to them frankly.

Wisconsin.

B. F. FAAST.

Filling Silos

Encouraging progress is being made by the silo movement in Kansas; there was an increase of about 15 per cent in the number in Kansas last year. The state now has more than 12,000 silos; there ought to be more than 50,000. One of the things aiding greatly in the silo movement is the increase in the number of farmers, such as George Dornes of Burlington for example, who are filling their silos with small outfits. A little cutter can be purchased and run with a small engine, and when this outfit is operated properly four or five men can fill a silo. It is more satisfactory as a rule than the use of a big outfit.

Considerable experimental work has been done in the last few years at the Iowa station with silage. Here are a few ideas that the men in charge have gathered along the way:

The corn forage should be ensiled when the grains are well dented, which is generally when the lower leaves and husks are beginning to dry up, and the corn is nearly ready to be cut for shocking. The size of pieces into which the corn should be cut is not of great importance, but an average of ½ to 1 inch long is generally accepted as correct. The corn usually will not need added water if cut at the proper time in a normal season. In general it is better, however, to allow the corn to become as mature as possible and add water, rather than to ensile it when too green. If it is dried out or

has been severely frozen, so it does not feel moist in the silo, water should be added, preferably at the blower. Then when the silo is filled the top of the silage should be thoroughly soaked with water. The addition of water and thoro tramping during the filling help to prevent spoiling. During the filling the sides should be kept slightly higher than the level of the center, and the silage should be tramped especially well near the walls, in order that air spaces may not be left when the silage settles, thus allowing the growth of mold. If the silo is air-tight and the filling is conducted with care, there should be little if any moldy silage, except at the top. The loss at the top may be lessened by covering with stover or waste material, soaking down, and sowing to oats—or better still by starting to feed the silage at once. In the latter case, the silo may be refilled after the silage has settled, without having to throw out any spoiled silage.

The refilling after settling may be done with fodder which has dried out in the shock. Of course this must be well soaked with water. Of course silo may be refilled with dry fodder, after the first lot of silage is fed, provided it is well packed and about an equal weight of water added. The water should be added slowly, to give it an opportunity to soak into the cut forage before running off. The silage resulting is not as palatable or as aromatic as normal corn silage, but it is more succulent and is eaten more readily by cattle than the dry fodder. Thus the usefulness of the silo may be extended over a much greater part of the year.

Moldy silage should not be fed to any livestock. Mature cattle sometimes seem to be able to eat moldy silage without harm, but horses are peculiarly susceptible to it.

Irrigation is Winning

Irrigation is having a steady and successful growth. The business of applying water to land is paying in Kansas when it is directed properly. Efficient machinery is required, and it must be operated properly if the best results are to be obtained. An idle plant will not give any return.

The fundamentals of profit in pumping irrigation are being demonstrated near such leading centers for the business as Scott City and Garden City. Any man who is expecting to install a big plant should learn of the methods used there. Special help in planning a plant can be obtained from H. B. Walker of Manhattan, the state irrigation engineer. Judging from the letters he has been receiving recently, there will be a big growth in pumping irrigation in Kansas in 1917.

A Higher Efficiency

Farming is being adjusted on a new basis in Kansas. High prices are causing changes in the foundation of the business. There never before was a time in which study and real efficiency were so much needed as now.

Sudan Grass

A considerable planting—31,000 acres—of Sudan grass was made last year in Kansas. Two years before there were but few fields of this sorghum in the state. This crop has shown that it has a high place in hay production; it probably will eliminate millet and the growing of other sorghum crops for hay in most cases.

The price of the seed has been high, and that has prevented a much greater growth in the acreage. A good plan in preparing for the growing of this crop in 1918 would be to get 1 or 2 pounds of the seed this year, plant it in rows, cultivate it, and raise your own seed. Many men, especially in the Western half of the state, are planning to do this. The acreage of Sudan grass in Kansas in 1917 will be far larger than ever.

A Large Oats Acreage

There probably will be a considerable acreage planted to oats this year in Kansas. The abnormally high price and the shortage of grain makes the producing of a quick maturing grain crop of the greatest importance. Oats usually will give satisfactory results as a crop of this kind.

Care is needed especially this year in the selecting of seed. Be sure it has the proper weight and good quality, and if it comes from the South watch out for Johnson grass. There was seed of this pest in the Red Texas oats imported last year.

Oats has considerable value in crop rotations. It is a good crop to grow while changing from corn to wheat. A larger acreage can be grown quite profitably on many farms in Kansas, especially in the eastern part.

DEPARTMENT EDITORS
 Field Editor.....F. B. Nichols
 Farm Doings.....Harley Hatch
 Poultry.....G. D. McClaskey

Entered as second-class matter Feb. 18, 1906, at the postoffice at Topeka, Kansas, under act of Congress of March 3, 1879.

SPECIAL TO ADVERTISERS.

Changes in advertisements or orders to discontinue advertisements must reach us not later than Saturday morning, one week in advance of the date of publication. We begin to make up the paper on Saturday. An ad cannot be stopped or changed after it is inserted in a page and the page has been electrotyped. New advertisements can be accepted any time Monday. The earlier orders and advertising copy are in our hands the better service we can give the advertiser.

The Farmers Mail and Breeze

Member Agricultural Publishers' Association.
 Member Audit Bureau of Circulation.

Published Weekly at Eighth and Jackson Streets, Topeka, Kansas

ARTHUR CAPPER, Publisher. T. A. McNEAL, Editor.
 CHARLES DILLON, Managing Editor. F. B. NICHOLS, Associate Editor.

SUBSCRIPTION RATES, - - - - - One Year, One Dollar

All letters regarding Subscriptions should be addressed:
 CIRCULATION DEPARTMENT, The Farmers Mail and Breeze

DEPARTMENT EDITORS
 Women's Pages.....Mary Catherine Williams
 Children's Pages.....Stella Gertrude Nash
 Dairying.....V. V. Detwiler

No liquor nor medical advertising accepted.
 By medical advertising is understood the offer of medicine for internal human use.

ADVERTISEMENTS GUARANTEED

WE GUARANTEE that every advertiser in this issue is reliable. Should any advertiser herein deal dishonestly with any subscriber, we will make good the amount of your loss, provided such transaction occurs within one month from date of this issue, that it is reported to us promptly, and that we find the facts to be as stated. It is a condition of this contract that in writing to advertisers you state: "I saw your advertisement in the Farmers Mail and Breeze."

Passing Comment--By T. A. McNeal

An Educational Weakness

The fathers of this republic recognized early the value of popular education, and so in the states where slavery did not exist free schools were established among the first of the institutions. The theory on which free schools were established was well defined. Free education was not given primarily for the benefit of the individual but for the benefit of the state. It was argued, and justly so, that without an intelligent citizenship a republic could not endure, and therefore, to secure the permanency of the republic the opportunity must be afforded all the children of the state to obtain at least the rudiments of an education. Afterward the scope of the free schools was extended so that in the cities and towns a high school education was added to the education in the common grades.

Most of these states took the next logical step: They said that as free schools were established for the benefit of the state, not only should all the children of the people be provided an opportunity to get a common school education, but that their parents must be compelled to send them to school. So compulsory attendance was enacted into law in most of these states.

In addition to the common and high schools most of the states have established the higher educational institutions, the universities, the state normal school and the agricultural college. The theory on which these higher educational institutions were established is exactly the same as that on which the free common school was established, that it was to the interest of the state that they should be established and maintained by the state. If they are not justified on that ground they are not justified at all. But on this theory these higher educational institutions should be in fact as well as in theory open to every young man and young woman in the state.

But we know that it is impossible for more than a small per cent of the boys and girls of the state to attend these institutions. This fact has tended to create a rather widespread prejudice against some of these institutions, particularly the university, so that if the matter of making appropriations for that institution were left to a popular vote to decide whether they should be made the probability is that the appropriation would be voted down. If, however, the people could be convinced that the university was of practical benefit to all the people they would not be prejudiced against it. Last year there were about 2,700 students at the University of Kansas. This institution cost the people of the state in the way of legislative appropriations nearly \$700,000 or an average of very nearly \$260 a student.

The annual tuition at the Chicago University runs from \$130 to \$200. Assuming that the average tuition is \$165 a year Kansas could have paid the tuition of these 2,700 young men and women at Chicago University and saved \$250,000 last year. If, however, the state had picked out 2,700 young men and women of the state, sent them to Chicago or some other great university and paid their tuition, a general roar of protest would go up from the taxpayers or the state that no legislature would dare to ignore. They would at once ask why a small per cent of the young men and young women should be granted these special privileges at the expense of all the people.

Now I should be glad to see all the young men and women of the state have the benefit of a university education but I believe that it would be better that these young people should pay for their own education.

The question is, how can this be done? The state of Kansas has a credit that within its limitations is just as good as the credit of the United States. If the constitutional limitation were removed it could with the utmost ease float 10 million dollars 3 per cent bonds.

Here is my plan: I should have the state cease to make appropriations for the higher educational institutions, but I should establish a state loan fund of 10 million dollars or so much as might be necessary and would lend to any young man or woman of good character sufficient funds to put him or her thru the university, counting in addition to the loan what the student could earn during vacations. I should then require the students to pay the cost of their university instruction.

Let me give an illustration to show what I mean:

We shall suppose that the state lends to the young man \$1,500 on which he would pay the state 3½ per cent, 3 per cent to cover the interest on the state bond and ½ per cent to cover the state's expense of handling the money. The state's only security would be the personal note and personal honor of the young man with a life insurance policy running in favor of the state for the amount of \$1,500 to be cancelled on the repayment of the note. On this plan the young man would pay \$52.50 a year interest on his note plus perhaps \$15 a year premium on his life insurance policy. I feel sure that the state could carry the insurance for even less than that.

Now this plan would open the university to every young man and woman in the state whether children of the rich, the moderately well-to-do or the poor. It would, if applied to all the higher educational institutions, result in a reduction of legislative appropriations by 50 per cent and consequently cut taxes for state purposes in two. It would make the young men and women feel that they were earning their way.

Would the state lose? No. It would be found that the number who would fail to repay the loans would be negligible. Every one of the borrowers would be on his or her honor and every one would feel that he could not afford to have an everlasting public record as a dead beat. The suggestion of a life insurance policy covering the amount of the loan made by the state to the student is made to protect the state against the possibility that the student would die during the time for which the loan was given.

But it may be said that a higher educational institution cannot be run on tuition fees. That statement I do not believe at all. I believe that it would be better for the students and better for the state that they should feel that they, the students, have paid for what they get. Our professors in the higher educational institutions are continually grumbling about the salaries they receive. Well, a good many of them no doubt get small salaries, so small, perhaps, that they find it difficult to live in the style they think befitting their position. At the same time I am satisfied that there are too many professors and that very few of them do the amount of work they might and should do. The number of members in the faculty should be reduced. The salaries of those remaining should be raised somewhat, perhaps, and they be required to do more and better work than they do now. A really capable instructor deserves good pay while an incapable instructor is mighty expensive at any price.

Our taxes are constantly increasing. Appropriations have more than doubled within a few years but our higher educational institutions are constantly complaining about the smallness of the appropriations given them. Let us arrange to place these institutions on a self-sustaining basis and help the young men and women of the state to help themselves.

Is It to be War?

That question is asked me a dozen times a day. Of course I do not know. Somehow or other I feel that we are not to be visited by the curse of war, but if asked to give my reason why I could not give anything more than a hope that it may be so.

I am not disposed, in this crisis, to criticize the President. I cannot see how he could have done otherwise than sever diplomatic relations in view of previous warnings to Germany and the deliberate announcement of that government that it intended to resume the ruthless warfare with submarines which it had promised to abandon.

It may be said that our ships should not venture within the danger zone, knowing as the commanders of them do know, that in all probability they will get both themselves and this nation into trouble. I agree fully that no citizen of this country should put himself in a position where he endangers the peace of his country unless compelled to do so by actual necessity. I would therefore agree with the statement that our citizens and our ships should, as far as possible, keep out of the danger zone.

However, it must be remembered that these citizens of ours in the transaction of legitimate business may be compelled to go within this danger zone, and when some foreign power deliberately announces that these ships and citizens will not be permitted to come within this danger zone even on legitimate business, there would seem to be

only one course to pursue and that is to announce that we will no longer maintain friendly relations with such a country, and further, that if such nation should murder our citizens wantonly or sink our ships after such severance of diplomatic relations we could scarcely do less than take such means as might be in our power to protect the lives and property of our citizens.

Let me cite a somewhat parallel case, altho of course of trifling importance as compared with the present tragedy. In every city of very considerable size there is a danger zone, a locality where it is not safe to go without police protection. Into this part of the city the peaceful, law-abiding citizen will not or should not venture unless required to go there in the pursuit of his legitimate business or in the performance of some duty. But if an organization should be formed in this danger zone which should announce the deliberate purpose to attack any person who came within that district it certainly would be the duty of the city authorities to exercise all the police power of the city to prevent such attack.

I should say that unless Americans have to go into the danger zone on the other side of the water in the performance of necessary and legitimate business or in the performance of some necessary duty they should keep out, for the reason that they should not unnecessarily involve themselves or their government in trouble.

But in this case, if we understand Germany's position, it is that that country proposes to pay no attention to the rights of neutrals within a danger zone which it proposes arbitrarily to establish. To this, of course, this nation cannot well submit. I think that it is only fair to President Wilson to say that he has tried earnestly to keep this nation out of trouble. He has been criticized because he has not long ago severed diplomatic relations with Germany. With that criticism I am not in sympathy. War is such a fearful thing, so destructive of human life and property, so productive of misery and so calculated to stir up the worst passions of men, that it certainly is to be avoided if possible. Better far to bear with a good many slights and even what may be considered national insults than to plunge into war with all of its train of horrors.

The great majority of the American people, I believe, agree with this view. If they had not agreed with it Wilson would not have been re-elected. At the same time I believe that a majority of the people will be ready to sustain the President in the present serious crisis. The severance of diplomatic relations does not necessarily mean war, and as I have said before, I still have a strong hope that war will not result.

Germany's Object

When the German ambassador, Bernstorff, received his passport at the time diplomatic relations between his country and this were severed, he stated that he had expected it and even went so far as to say that the President could scarcely do otherwise. This would indicate that the German government had considered carefully all the possible results of a diplomatic break with the one powerful neutral nation when it determined upon its submarine policy. The military authorities who are more apt to think of war as a result of a move of this kind than would a civilian, must have taken into consideration not only the possibility, but even the probability that the United States would be added to the long list of Germany's foes. They could not have labored, either, under any delusions as to the power of this nation. True the United States is pre-eminently a peaceful nation and is not at this time prepared for war, but there is no nation in the world that possesses the material resources of this nation either in wealth or in the capacity to manufacture munitions of war. There is only one nation which even exceeds it in the possible number of fighting men who could be put into the field. Germany must have known that if once war should actually be declared, the tremendous resources of this country would be turned to the business of preparation for war and that sooner or later Germany must lose.

The Kaiser and his advisers also must have understood fully what it would mean to have the economic forces of the United States, to say nothing of the possible military forces arrayed against the central powers. Then why did the German government take a step which its ruler knew certainly would array

this powerful nation against it and probably result in arraying other neutral nations against it?

Two theories are advanced: one that the military advisers of the Kaiser actually believe that they can shut off food importation to England, Ireland and Scotland entirely and thus force the British government to yield in order to escape starvation. The other is that the German government wished to save its face with its own people. According to this latter theory the German government could say to the German people, "We could have whipped Great Britain, France, Russia, Italy, Japan, Belgium and Rumania, but we cannot hold out against the whole world. We are compelled, therefore, to yield and get the best peace terms possible."

Personally I do not give much weight to the latter theory. I am of the opinion that the Kaiser and his military advisers believed that sooner or later the war must go against them if they continued to conduct it in the ordinary manner or even in the most extraordinary manner in which this war has been conducted on the land. They believed that their enemies were increasing gradually their strength on land and that sooner or later they would be strong enough to break thru the German lines on one side or the other. There was a chance, however, that the English people might be compelled to yield by a campaign of submarine frightfulness that would bring starvation to them. The German mind has become so much accustomed to the idea that military force is the only force that counts, that it believes that anything may be accomplished by the force of German arms.

It seems to me that this submarine campaign is bound to fail. Vast destruction will be caused by these undersea boats, but they will not be able entirely to shut off food supplies from the British isles. Food in England, Scotland and Ireland will be scarce, but there will not be actual starvation. On the other hand this kind of warfare is calculated to stir the British mind to a fury not hitherto known. The British mind is phlegmatic, not easily aroused, but when once aroused is the most stubborn mind in the world, and the least inclined to yield. Furthermore, the fact that the action of the German government has resulted in that nation's losing the friendship of the United States and probably of other neutral nations, will tend greatly to hearten the British and French, and make them more than ever determined to fight the war to a finish.

To my mind this is another evidence of the failure of militarism. Militarism loses sight of moral forces entirely. It believes that brute force can accomplish what it wants, but fails to understand that it is impossible for mere brute force to triumph permanently over moral forces. It may cause tremendous havoc and suffering, but in the end it must fail.

In this crisis I still have a profound sympathy with the German people. They have shown marvelous qualities in both peace and war. They are the victims of conditions for which they were not responsible. The fact that they are loyal to their government, which I consider one of the most cruel and despotic governments, does not destroy my sympathy for them at all. The fact that they do not see the faults of their government as the outside world sees those faults is the result of education.

The question often is asked: Suppose this government should get into war with Germany, would the millions of Germans in this country be loyal to the United States? In my opinion they would be loyal. Naturally, their sympathies are with their suffering relatives across the water. For that they are not to be blamed but if the hard test came nearly all of them would be loyal to the country of their adoption.

A Question of Weather

I took a run up into Nebraska the other day and ran into weather 24 degrees below zero with a wind blowing across the prairies at the rate of 40 miles an hour. These Nebraskans must have more of that kind of weather than we have in Kansas. I judge from the fact that so many of them are wearing those big heavy Galloway hide overcoats. You see that kind of overcoats in Kansas of course, but not so many as up in Nebraska. Still the Nebraskans were grumbling as much about the weather as the people do in Kansas.

Did you ever think that if it wasn't for the weather the conversation of the world would slump at least 50 per cent? We are apt to rank ourselves as pretty intelligent people but the fact is that our stock of ideas is mighty limited. That is the reason why from half to two-thirds of the conversation is made up of utterly inane observations about the weather. Let two average citizens walk three blocks together and the chances are that about 90 per cent of their remarks will be about the weather and not a single new expression or an observation of the slightest value will be made by either. And if the same men happen to walk together the next day they will make the same observations. And if they walk together every day for a week the chances are that one or the other will remark it is a fine day or that it is pretty cold or pretty hot just as if both of them weren't perfectly aware of the fact.

I think I never knew of more than one man who really got any excitement or real interest out of talking about the weather. He was a contentious, crotchety sort of a man who insisted on having an argument no matter what the subject of conversation might be. No matter what anyone might say about the weather, old Jed would take issue with him and unless the other man would back off and shut up entirely Jed would manage to develop a right warm

argument. For instance, a man would casually remark "Nice day, isn't it?"

Jed would immediately challenge the statement. "It depends on what you call a nice day. What is your idea about what it takes to make a nice day?"

Perhaps the other person would undertake to outline his estimate of a fine day, but old Jed would take issue with him on every point and wind up by giving it as his opinion that the other man didn't know anything about weather on general principles. Sometimes the argument would be so hot that there was a likelihood that it would become serious.

Weather was that man's specialty. He knew just what kind of weather it had been every day for the last five years and he went around trying to get people to express their recollection about the kind of weather it was on a certain day six months before and then pull his record and hold them up to scorn.

Speaking of cheerful men I found one man up in Nebraska who expressed himself as satisfied with the Kansas and Nebraska variety of weather and he expressed that opinion just when the mercury was settling down toward 24 degrees below zero.

Now I like a cheerful man and I also am a loyal admirer of Kansas and Nebraska. They are both bully good states and inhabited with as fine a lot of people, on the average, as there is in any part of America. But in my opinion both these states can show some of the most abominable samples of weather displayed anywhere in this glorious country. The man who says that he enjoys weather that is 24 degrees below zero where the wind is blowing at the rate of more than 40 miles an hour is in my opinion either a liar or is incurably diseased in his brain. The same observation might be made concerning the individual who says that he enjoys the western winds either in winter or summer. This cheerful citizen I met who expressed his satisfaction with the brand of weather this part of Nebraska has been handing out says he doesn't want to get into a mild, equable climate where there is never any winter or real summer. He says that a friend of his went over to the Hawaiian Islands. He got sick of it in a few weeks and was hungry to get back to Kansas where the wind blows and the weather varies 50 degrees in half a day. In six weeks he was so lonesome he couldn't stand it any longer and sailed for the United States and came back to Kansas or Nebraska where the weather was apt to take a new turn every six hours.

Speaking of weather conditions, unless there is a change within the next six weeks neither Kansas nor Nebraska is going to come out with any 800 million bushels of wheat next year. A good deal of wheat sown last fall is in serious condition. Considerable of the wheat sown has never even sprouted and a good deal that has sprouted is worse off than if it had not sprouted. I have seen wonders worked on wheat fields by spring rains, and that may happen again but just now it looks as if neither Kansas nor Nebraska will have more than half a wheat crop next year.

Partisanship

I am in receipt of a few letters and a couple of newspaper clippings criticizing my statement in favor of an extension of the terms of state officers from two to four years, and making them ineligible for re-election. In all of these letters and newspapers Oklahoma is cited as an example of the baneful effect of the four-year term. My critics say that these officers, when elected, know that they can neither be re-elected nor disturbed during four years, and so become reckless and corrupt because they know the people cannot get at them.

Now, if the reports I have heard from Oklahoma are correct or anywhere nearly correct the criticisms of that state government are well founded. I believe the government of that state is inefficient and rotten. But I do not believe that the four-year term is the cause. The trouble with Oklahoma is that most of the voters are controlled by hide bound partisanship. They may realize that they are being misgoverned by inefficient and corrupt officials, but they have had the partisan idea drilled into them to such an extent that they will vote for corrupt officials on their party ticket rather than go across the party line and vote for honest and efficient men of another party. Party name is a fetish with them and party fealty a religion. That state of mind on the part of the majority is certain to result in corrupt, extravagant and inefficient government anywhere. It does not make any difference what the party name may be, the result is the same. Blind fealty to party and to party bosses made Philadelphia a rotten city and Pennsylvania a rotten state. In that case the party name was Republican. The same blind devotion to party made New York the most corruptly governed city, perhaps, in the world. In that case the party name was Democrat.

In my opinion almost every state government and most of the city governments of the South are extravagant, and honeycombed with corruption for the very same reason. It would be a Godsend to the South if the old, rotten political machine could be broken up, but it will not be broken up so long as the majority is controlled by blind, partisan sentiment instead of by calm reason and good horse sense. So long as partisanship controls it is entirely immaterial whether the official terms of state officers are two years or four years. The officers will look not to the people but to the political bosses who control the party organization.

Now, the party boss always is selfish and usual-

ly politically corrupt. When he puts a man in office he expects that man to serve his selfish purposes and the official, knowing his master's voice, does as he is told. The people are not consulted. They are expected to support the party, right or wrong. They are taught to believe that the man who scratches his ticket is a turncoat and a traitor, and if a majority is educated into that belief, the party boss has an easy job.

However, even in a state where there is so much independent voting as in Kansas, while I favor the long term with the provision that the state officer is ineligible for re-election, I should leave it within the power of the people at any time to recall the official. A faithful official is entitled to a four-year tenure of office. We recognize the justice of that by generally re-electing our state officers for a second term. It is also an unwritten law, at least so far as the governor is concerned that he shall not be a candidate for a third term. Most governors understand that perfectly well and do not ask or expect a third term. If the argument of my critics was sound, our governors would become corrupt during their second terms because they do not expect another election. Instead of that we have found that almost without exception they give the people better service during the second term than during the first. Here is where my critics make their mistake. They assume that an official will become corrupt if he knows or feels that he will not be disturbed and that no further political honors can be expected by him. The truth is that an honest official will be honest regardless of the length of his term, and regardless of whether he is eligible for re-election. Inefficient and corrupt officials as a rule result from a corrupt system and there is nothing more conducive to a bad system than partisanship. The man who insists on party loyalty, whose political creed is to vote his ticket straight, may not be corrupt but he is advocating the thing that leads to political corruption and bad government.

If your party nominates a candidate whom you know to be either incompetent or corrupt it is not only your right but your highest duty to go across the party line and vote for a candidate who is honest and competent, and if there does not happen to be that sort of a candidate remaining on either party ticket, then pick out an honest, competent man who is not a candidate and vote for him.

Mr. Easterly on Socialism

Referring to Charles F. Randall's article in this paper under date December 23, 1916. To me, it seems that a great many of the Socialists, writers in the columns of this paper, have the wrong idea entirely in regard to the phrase "every man shall receive the full product of his labor." It would be utterly impossible to inaugurate a plan that would accomplish that object, as some see it.

Now, the only feasible meaning that phrase could possibly have is this: Under this proposed new form of government we should have a much more economical system of production and distribution. The profit of the middlemen, jobbers and commission men would be eliminated as being entirely unnecessary and the men who are real factors in the production of a commodity would receive a greater value for the product of their labor and at the same time make it possible for the consumer to supply his needs at a much reduced cost. The middlemen do what is absolutely unnecessary, adding expense or increased cost of production and distribution.

Just for instance: Under this new form of government, a potato grower, instead of having to sell his spuds to commission men, who sell to wholesale firms who in turn sell to other dealers, retailers, each case in which a heavy shipping charge is involved, and receiving the very lowest price for them, would go to the government employe and order up a refrigerator car, load his spuds into it and ship to some farmers' co-operative organization and have to pay only the small freight rate the government would have to charge for the maintenance of the road. Would that not be giving everyone the full product of his labor?

Now in regard to rent, interest and profit being abolished. Socialism will not in any way interfere with the ownership of private property. Only things that are publicly used would be publicly owned, and operated for service and not for profit. Neither would anyone be prohibited by law from charging rent for the use of property or interest for the use of money. But it must be remembered that since this form of government would not prohibit but rather stimulate the private ownership of property, profit could and would be abolished only on all public utilities. We never see anyone selling postage stamps for profit. Perhaps those who wanted to borrow money could get it cheaper from the government than anyone else could lend it, and since this system would stimulate private ownership of property, possibly very few would care to rent.

Winfield, Kan.

H. EASTERLY.

It is evident that Mr. Easterly takes a broader view, and it seems to me a much more practical view of what might be accomplished by Socialism than do some other writers. In my discussion of the proposal to abolish all rent, interest and profit, I was not attempting to pass on the question of the right or wrong of that proposition, but I did come to the conclusion, which I still hold, that if profit were actually abolished it would, necessarily, result in doing away with private property. It may develop later that the abolishing of private property would be a good thing. I do not think it would, but I may become convinced that I have been wrong in my belief that private ownership of property with reasonable limitations is a good thing.

I see that Mr. Easterly is not opposed to private ownership of property. What he desires, and this I heartily favor, is a more economical system of production and distribution. The means necessary to this better system of distribution he would have publicly owned and operated at cost. That I am in favor of, and that must sooner or later be brought about. In fact I am satisfied that public sentiment is traveling rather rapidly in that direction.

Boosters—New and Old

Capper Pig Club Boys Tell What's Been Done and What's Doing in 1917

By JOHN F. CASE, Contest Manager

NO MEMBER of the Capper Pig Club in 1916 showed more enthusiasm over the work than did "Little John" Shepard of Marshall county. We called him "Little John" when he came to the state fair at Topeka because he's only about as big as a pound of soap, but when I introduced John to Arthur Capper I told Mr. Capper that here was one of our biggest boys "from the shoulders up," and all the boys agreed. A real boy is John Shepard and he believes in doing things. At a friendly meeting where "a fellow could jump up and say—" as John so happily expresses it, we discussed making the 1917 club bigger and better. Up popped John during the meeting. "And we won't just talk, either," announced the pepper box from Marshall, "we'll do things, too." That's the spirit that wins in the big game of life as well as in raising pigs.

John Shepard paid \$35 for Rosy Nell, his Duroc contest sow. So well did she repay his care that when the contest closed John had an actual profit of \$139.61 to show. An "actual profit" I announce for John kept accurate records of the prices paid for his feed as well as entering the cost called for by the contest rules. And as the actual cost figures for feed total but \$12.48 more in producing 1,690 pounds of pork—considerably less than a cent a pound—the assertion made by the "can't be did" crowd that pork could not be produced nearly so cheaply as the records indicate is proved untrue. John's record shows that he paid \$19.55 for shorts fed while the contest cost figures \$18. Oil-meal fed cost \$2.10, 10 cents more than contest value and tankage fed cost \$2.60, another 10 cents more than our record price. The big increase in feeding cost came from the increased price of corn. Contest values charged the corn fed at \$27.10 but John's record shows that he paid out \$37.50. In addition to the feeds named, the sow and pigs had milk valued at \$1.45 and ran on rye pasture for a charge of 90 cents. This excellent record proves that profitable pork can be produced with comparatively little pasture. Based on contest values for feed John's profit record was \$152.09. The breeder from whom the sow was purchased added \$5 to the winning \$10 so, after all, the actual profit record is more than the contest record after all. Some farmers I know didn't make a clear profit of \$154.61 for the entire season's work last year.

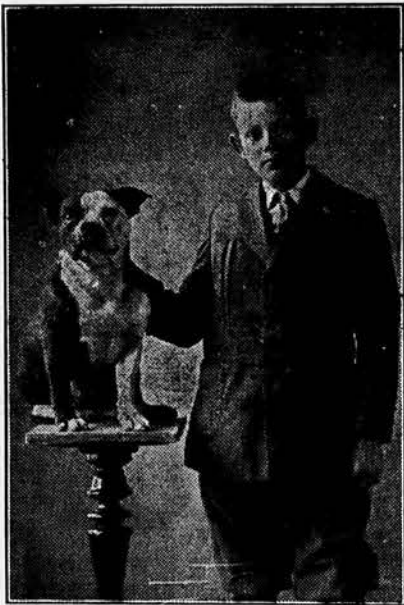
More Than Feeding Pigs.

In writing his story about how the sow and pigs were fed and cared for John Shepard showed that he had what grownups refer to as "vision." John's contest work wasn't work. It was play and going to school and business training and making friends. Read the story and you will get a word picture of a great many interesting things that happened to our Marshall county friend last year:

"One day after we had gotten the mail and had looked it over we found the dear old farm paper, The Farmers Mail and Breeze," wrote John. "After turning and reading along, papa came to nearly a whole page, and in large letters it said, 'Get Into the Capper Pig Club. One Boy in Every County in Kansas Has a Chance to Make Good for Himself. Read the Rules.' We did as it said and both of us thought it a very good thing. I read it over twice and was determined to join. I sat down and filled out the necessary blank, put it in an envelope and sent it to John F. Case, the contest manager. The next Thursday, just four days later, I received a letter from Mr. Case stating that I was chosen representative for Marshall county. I was plowing the morning I received the letter, so my sister brought me the letter. She was as anxious about the contest as I. My, but there never was a happier nor prouder boy in Marshall county! As I drove the team I had already begun to plan about the new contest and where I

would get my sow. That was my worst trouble, but it was solved later.

"Now, I was to be in close communication and touch with Mr. Case. After looking around and also writing to some distinguished Duroc and Poland breeders. I at last made my selection of a well built, good dispositioned, good boned, medium eared, gentle Duroc Jersey sow. I bought her of J. B. Swank & Sons. She was not bred when I got her, so Mr. Swank said that he would keep and breed her. I bought her No-



John Shepard and His Pal.

where the Duroc Jerseys were kept. He had in his lot where he kept his brood sows, my sow and several others. There were at least five that would weigh about 500 pounds each. The rest would weigh from 200 to 350 pounds each. My! but they were fine. In the adjoining lots there were some gilts and sows that were for sale.

"Farther down we came to a hog house and around this ran several small pigs. These pigs were just learning to eat corn and drink shorts slop. Mr. Swank mixed up some slop and fed them while we were there. You should have seen them scramble for it in those home made troughs. Now we went to the other end of the hog house. Here he kept his boars and some of the hogs that were not registered. They were fixed so that they could run in with the fat cattle.

"From there we went to the house where we ate dinner. After dinner we went out and hitched up, loaded Rosy Nell, the contest sow, and started out. The sun was out, our ponies were feeling fine, I was happy, and the whole world seemed to have changed since morning. We reached Blue Rapids at about half past two or three. We tied our team, did some trading and came back to the spring wagon. Several men were there looking at Rosy Nell and inquiring about her. I told them how I had got in the contest and how I thought I could make a success in it. After a while we started home. When we reached there we stopped in town as it would only put us out of the way about a quarter of a mile. We got the mail and stopped at the hardware store. A little later a crowd of men had gathered around Rosy Nell and were guessing on her weight. They also were pointing out her good points. I told them all about the contest and one said, 'You're all right, Johnny, just stay with it.' Such words as that were encouraging to me. They helped to form part of the foundation of my work. Yet when the man said them, he did not realize how much good they would do me. Yet in this letter I thank him many times.

"We drove on home with Rosy Nell and when we got there we weighed her. She weighed exactly 335 pounds, just as I had guessed her. We put her in a pen for the night. Then next day I turned her in the horse lot where she could run and also go into the cane stubs. The first day she stayed in the horse lot but after that she went into the old cane patch where she picked up the scattering cane seeds. I fed her six ears of corn a day; three in the morning and three at night. The weather was cold but my sow had a corner in the cement hog-house in which there was a stove. Her pen was bedded every night with hay or straw.

"About March 1 my sow was getting tame and also very heavy with pig. I

would call to her when she was out in the field. Sometimes the wind would be against me and she could not hear me then I walked down and met her, and walked along beside her and scratched her back. She liked this very much for I could always get up to her whenever I wanted to.

"Every Saturday I cleaned her—pen out, then I would let it air all day and put in fresh straw or hay. On Friday, March 17, 1916, I had planned all week to go on a hike Saturday with the Boy Scouts. But the next morning it was sleeting a little, the wind was from the north, it was 3 degrees below zero. Rosy Nell's pen was yet to be cleaned out and several chores to be done. At last after deciding not to go, altho it was hard because I had never been on a hike before and I had looked forward to it for a whole week, I chored about the stable with a sullen face, half wishing that I had gone. I now went out to Rosy Nell's pen, turned her out in the lot and began to clean her pen out. After a while it was cleaned and was to be left all day to air, as I had done before, then in the evening scatter the bedding in. But that day at about 10 o'clock my sow came up and wanted in. It being only the day before she was to farrow, and also having a good flow of milk we thought she would have pigs before long. Papa told me how to build a railing to keep Rosy Nell from laying on the pigs. I set to work on this right away. We cut two 2 by 4's, one the length of the pen and the other the width of the pen. I set these upon two 2 by 4's, 8 inches high. I put one at the northwest corner of the pen and the other at the corner near the door. The 2 by 4's running across the pen were run thru to the gate to the next pen. This railing was put about 6 or 7 inches from the wall. I put a wire up from one corner to the ceiling so as to strengthen the railing. I then put a wire across from the door to the 2 by 4's. Next I got some bedding and bedded down the pen good."

Friendly Boosting Helps.

John's story will be completed next week.

Three Cheers for Atchison.

And now a word about the new boys who are showing pep. No county club has shown more interest in the work than have the boys from Atchison county. We had a live member there last year in Harry Pulver who produced 1,435 pounds of pork at a cost of \$3.30 a hundredweight and showed a profit of \$98.91 market price of pork produced alone being considered. Harry's profit was much greater for his eight Duroc pigs were sold as breeding stock, but he failed to send the figures. Harry was one of the boosters who came to the fair. He has live partners this year and these Atchison county chaps give fair warning that they are going after the \$50 county prize. Not long ago four of the members were entertained at the home of Bill Brun and the fifth member, Roy Shaw, was invited but couldn't go on account of poor train connections. The boys had a great time. This is the last call for enrollments. No application received after February 15 will be considered. Club members living in counties where the membership is not complete should urge their friends to enroll so that the county may be considered in awarding the \$50 county prize. Only boys living in counties where the membership is complete can compete for this prize as we must have five complete records to figure a basis for awards. It would be a shame to lose out when only one or two members are needed to complete the list. There's a place for one boy in Brown, Comanche, Ellsworth, Lincoln, Logan, Pratt, and Thomas counties. Barber, Barton, Haskell, Morton, Rawlins, Rush, Wallace, and Wichita counties need two boys. Three boys may join in Geary, Graham, Hodgeman, Lane, Sheridan and Stevens. Four members are wanted in Ellis, Grant, Greeley, Kearny, Scott, Stanton, Trego and Wyandotte.



Boosters for Atchison County and the Pig Club. Left to Right: Albert Bishop, Clarence Kiefer, Harry Pulver and William Brun.

Not Many Bills Survive

The Legislature Has Been Working Harmoniously for Sensible Laws

THE FIFTH week of the legislature ended Saturday, February 10, was expected to show the real temper of the members. When this review was put into type, Monday morning, the more important measures except the "bone dry" bill, then safely in the senate judiciary committee of the senate—were expected to be on the floors of both houses before the week was over. The measures so far passed, aside from appropriation and local bills, have not brought out any sharp alignment in either branch of the legislature. The contests over measures considered have been largely individual. The same persons fighting on one side of a measure today would be lined up on opposite sides by tomorrow.

Take Stand in Some Instances.

The house members have taken a few decisive stands that show the public sentiment of the state. They passed the "bone dry" bill by a large majority, indicating the prohibition sentiment in Kansas is stronger than ever. Only one house member raised his voice to vote to repeal the movie censorship law. Movie censorship has come to stay, it would seem, in spite of the vigorous attacks on the law a few months ago. And the mothers' compensation act, with a provision making the payment of compensation compulsory, went thru the house by a safe majority. This was not as one-sided as either of the others, however, the house being very nearly evenly divided. There is a wide difference of opinion as to the wisdom of the pension system, and much honest doubt as to whether it really will work out as believed by its advocates. During the last week seventeen more bills got by both branches of the legislature, making a total of twenty-three bills enacted into law since the session opened.

House Leads in Bills Passed.

The house still is leading in the number of bills passed by both branches, and by each house separately. Eleven of the seventeen measures passed thru both houses last week were house bills, giving the house a record of twenty-two bills enacted into law, to the senate's seven, for the session so far. The house has passed eighty-seven house bills, and the senate has passed forty-three senate bills. Among the bills passed by both houses and sent to the governor for his signature were these:

Appropriation Measures.

House bill 355 by committee on ways and means, appropriates \$150,000 for coal for institutions under the state board of control for the next biennium.

House bill 358, by committee on ways and means, appropriates \$3,000 for postage, express, freight, packing and other expenses of distributing the twentieth biennial report of the state board of agriculture.

Senate bill 270, to pay the expenses of conveying prisoners to the penitentiary, \$8,000.

Senate bill 271, to pay the mileage and per diem of the presidential electors from Kansas, \$390.60.

Senate bill 469, by ways and means committee, appropriates \$45,000 for legislative expenses.

House bill 109, by Bruner, of Kearny, authorizes the state auditor to issue patents for school land where payments have been made in full but the final proof not filed as required by law.

House bill 136, by Layton, of Osborne, gives delinquent purchasers of school land two years in which to make payments and preserve rights to land.

House bill 416, by committee on assessment and taxation, provides that personal property, including installment contracts for purchase of personal property, shall be taxed in the county where the property is held.

House bill 64, by Harley, of Cherokee, removes the limitation of nine-tenths of a mill in levying taxes for county high schools in counties having an assessed valuation of \$35,000,000.

Senate bill No. 3, by Schoch, of Shawnee, substituting for house bill No. 237, by Endres, of Leavenworth, shortens the time for contesting wills after order entered in probate court from three years to two years.

House bill 52, by Samson, of Gove, makes it a misdemeanor carelessly or wantonly to start a prairie fire.

House bill 76, by Heath, of Wichita, authorizes the state to deed back to Wichita county a tract of land once donated to the state for irrigation experimental purposes.

House bill 230, by Brooks, of Chautauqua, provides that copies of all marriage licenses must be filed with probate judge, as well as with the state registrar of vital statistics.

House bill 2, by Wilmoth, of Cloud, reinstates provision repealed in 1913.

forbidding city officials to hold office of county commissioner.

In addition the house has passed the following original bills on third reading:

The Collins temperance committee bill, house 432, provides:

It is a misdemeanor, punishable by fine and imprisonment, for any person to have in his possession, or on his premises, to have or keep or use, any intoxicating liquor, for personal use or otherwise.

It is a misdemeanor, punishable by fines of from \$100 to \$500 for each offense, for a common carrier, or any person, firm or corporation to bring into the state, or carry or transport from one place to another in the state, any intoxicating liquor for any purpose at all.

Wholesale druggists, carrying in stock at least \$20,000 worth of drugs and medicines other than alcohol, may sell alcohol, not intoxicating beverages, to registered pharmacists for use in mixing prescriptions. These pharmacists and retail druggists already are prohibited from selling alcohol except in prescriptions.

Priests and ministers of the gospel are privileged to purchase and possess wine for sacramental purposes, and carriers are authorized to deliver it to them.

A further exception, as regards alcohol, is made in favor of hospitals and schools using alcohol for scientific, medical or mechanical purposes, under severe restrictions, to prevent this section being construed so as to allow an evasion of the law.

Welfare Measures.

House bill 47, by Bird, of Shawnee, intended to make the payment of mothers' compensation by Kansas counties compulsory. It places a limit of \$40 on the amount that can be allowed any one mother, and places the administration of the law in the hands of the juvenile court.

House bill 316, by Bardwell, of Riley, allows cities of the first class to appropriate money for the support of public health nurses.

House bill 414, committee on assessment and taxation, provides for the collection of tax statistics by the state tax commission, including a report from the register of deeds on every mortgage recorded in his office. The section of the bill making it a misdemeanor to give a false statement of the consideration in conveying real estate was stricken out on the floor of the house.

Appropriation Measures.

House bill 356, by committee on ways and means, appropriates \$32,000 for private charitable organizations under supervision of the state board of control.

House bill 357, by committee on ways and means, appropriates funds and interest in state grain inspection fund at close of next two fiscal years to the grain inspection revolving fund.

For the restoration of John Brown's cabin and the upkeep of the John Brown Memorial park at Osawatimie, \$1,290. House bill 68. This is the measure backed by the patriotic organizations of women in Kansas.

House bill 442, by Taylor, of Ford, appropriates \$2,000 for the maintenance of headquarters for the Spanish-American War Veterans in Memorial hall at Topeka.

House bill 167, by Highbanks, of Harper, appropriates \$1,000 for readers for blind persons in Kansas schools of higher education.

House bill 41, by Paul, of Marshall, authorizes school boards and townships to issue bonds to fund floating indebtedness.

House bill 107, by Jones, of Osage, allows stock fire insurance companies to write single policies for as much as 10 per cent of the paid-up capital and surplus. The present limitation is 5 per cent. The measure also authorizes stock fire insurance companies to write hail and tornado insurance. They have been doing this for years without legal sanction.

House bill 13, by Stone, of Shawnee, allows insurance companies handling so-called industrial policies to cancel these policies for non-payment of premiums without written notice to the holders of the policies.

House bill 77, by Heath, of Wichita, increases the salaries of probate judges from \$350 to \$500 a year in counties of less than 3,000 population.

House bill 246, by Woodhouse, of Sedgwick, removing the nine-tenths mill limit on tax levy for Barnes high schools in Sedgwick county, and in any other county that may have nine or more such schools.

Miscellaneous Bills.

House bill 67, by Wells, of Miami, allows veterans of the Civil war, who have been married since 1892, but before 1908, the privilege of admission to the state soldiers' home at Fort Dodge.

House bill 303, by Finney, of Sumner, provides that in case of default of interest, instead of the mort-

gage becoming due at once, the borrower may stop foreclosure proceedings before these have been started by paying the defaulted interest and accrued interest. If a foreclosure has been started, then the borrower must contribute to the costs in the case, and \$25 attorney fee, plus the defaulted accrued interest.

House bill 89, by Cummins, of Douglas, providing for a bounty of 10 cents each, on pocket gophers and crows, and of 1 cent on crow eggs found in the county, to be paid out of the general fund of the county. The committee on agriculture decided that eggs must be "found" instead of "caught," settling an argument that lasted nearly all one afternoon early in the session.

House bill 305, by Neiswender, of Shawnee, fixes standards for mill products and vegetables to conform to the federal statutes, makes fifty-six pounds the standard bushel of milo maize, and fixes standard weights and measures for other commodities not included in the old statute.

House bill 232, by Endres, of Leavenworth, making it a misdemeanor to sell an automobile without a certificate from the secretary of state authenticating the ownership of the car as far as shown by the records in the motor vehicle license registration department.

The senate record of senate bills actually passed, on final roll call, but not yet acted on by the house, follows:

Senate bill No. 45, by Senator Kimball, gives garages and storage businesses protection against fraud by making attempt of fraud a misdemeanor.

Senate bill No. 93, by Senator Gulick, gives the public utilities commission power to order overhead and underground railroad crossings and signals outside second and first class cities.

Senate bill No. 146, by Senator Malone, enables counties to pay present floating indebtedness by special levy from the surplus of general funds or by the issuing of bonds.

Senate bill No. 164, by Senator Kanavel, raises the age for girls to be sent to the State Industrial school from 16 to 18 years.

Senate bill No. 323, by ways and means committee, makes appropriation to aid district school at Lansing, \$2,000.

A public fight on the "county commissioners' lobby" has been launched by J. Frank Smith, president of the Kansas Good Roads association.

In a statement made last night, Smith names the members of the lobby fighting the program of the Kansas Good Roads association, which is behind senate bill No. 446, and house bill No. 501, providing for state highway commissions with real power in supervision of Kansas highways. These bills were prepared by the roads committee of the two houses.

"The only real opposition to these bills is from a lobby composed of the following county commissioners: J. F. Swonger, Jr., of Anderson county; D. S. Romine, Labette county; C. R. Aten, Ford county; C. H. Bayles, Pottawatomie county," Smith states.

Bold and Brazen, Smith Says.

"This lobby seems to be in sympathy with the alleged bridge trust, which is now under indictment for violation of the anti-trust laws of Kansas and this lobby seems to have plenty of money, is very active and always on the job, bold and brazen, and are fighting ostensibly for the county commissioners, but probably for the bridge interests," Smith continues.

"A similar lobby has been supported in Topeka for the last three sessions and has succeeded in preventing any new or important road legislation. This same lobby is working night and day against this road bill, which we believe should have the support of every friend of better roads and a better system of administering the road laws.

"Of the 315 county commissioners in the state of Kansas, probably 300 would not stand for or countenance for one minute the actions and course pursued by the above-mentioned commissioners.

"This lobby started a fight against a bill that had been introduced before the two committees had a chance to consider it. This action indicated that they were not willing to wait and give the members of the two committees a chance to agree on the merits of any bill."

Mr. Swonger Explains.

While Mr. Smith is making his statements about the county commissioners, J. F. Swonger, Jr., president of the association of county commissioners, has not retracted from his objection to the position of F. A. Davis, as secretary of the house of representatives committee on roads. This was brought to public notice by a resolution inquiring into an alleged "leak" in this committee. The resolution was not passed. In a communication to the Topeka Capital, Mr. Swonger says:

"I see you have ridiculed me for the mistake I made in suggesting that an investigation be made of F. A. Davis, as clerk of the roads and highway committee of the house of representatives. This advertisement me as doing this from a purely vindictive motive and I wish to make the following statement that your readers may know that I at

least thought I had some grounds for action.

"F. A. Davis, as shown from letter heads, is secretary of the National Old Trails association, office in Railway Exchange building, Kansas City, Mo., secretary of the Kansas Good Roads association; member of legislative committee of Kansas Good Roads association, committee clerk of roads and highway committee of the house of representatives, on pay roll of house of representatives as shown by voucher No. 335 drawn for services from January 18 to January 28, 1917, inclusive, eleven days, amount \$33. You will see Frank A. Davis is committee clerk to the road and highway committee, an officer of two road associations which are interested in good roads legislation and assisting J. Frank Smith, president of the Kansas Good Roads association, and a registered lobbyist for said association.

"As the state good roads lobby is opposed to the state association of county commissioners as to the kind of highway commission we should have, I supposed I was justified in objecting to my opponent being an employee of the committee we were both trying to influence. I did not think it was necessary to prove what information he received as clerk of the committee and had made use of as lobbyist for the good roads association, and of course I have no means of knowing this or of knowing what is going on in the Kansas State Good Roads association lobby.

Our association is for good roads legislation and we have no malice toward any road organization or member thereof."

Three thousand dollars is asked for the Kansas exhibit at the Dry Farming Congress at Peoria, Ill., by senate bill No. 436, by Senator C. S. Huffman.

Placing all state institutions under the supervision of one board of five members, is provided in senate bill No. 379, introduced late last week by Senator C. E. Carroll, of Alma.

The members of this board are to serve without pay, with the governor as ex-officio chairman. The four others are to be Kansas electors appointed for four-year terms. If the measure is adopted, the state board of educational administration, the state board of control, the state board of charities and corrections, and other minor boards will go out of existence on July 1 of the present year.

Provides a General Manager.

The Carroll bill provides that the active administration of the state institutions shall be in the hands of a general manager, with a salary not to exceed \$6,000. The general manager and the board of administration are to be assisted by experts in special lines.

Appointment of all executives will be in the hands of the board, with the individual executives charged with the direct supervision of their institutions. Headquarters for the state board of administration are provided in the state capitol building, where a secretary, receiving \$2,500 salary, will have charge of the records.

Detailed provisions for the board to make advantageous contracts for supplies are given in the Carroll bill.

Advantages of the Measure.

The advantages of the measure are summarized in a section of the bill, which says:

"This act contemplates, among other things, the employment of an expert general manager, with expert assistants, for the business and scientific management of the state institutions covered by this act, and also for the placing of all educational, benevolent and penal institutions of the state of Kansas under one management, and under one board of trustees or directors, with a suitable place of business at the state capitol, for the orderly and economical administration thereof, publicity and fairness in the awarding of contracts for all supplies, the keeping of such books, records, accounts and reports as shall show not only the cost of maintaining each of said institutions, but the per capita cost of maintaining the inmates thereof, and this act shall be liberally construed so as to carry out such purposes."

The proposition backed by the united strength of the five large state educational institutions of Kansas for a permanent tax levy to provide for their support, was introduced into the senate one day last week by Senator Rolla W. Coleman, of Merriam.

The tax levy can only be made by a constitutional amendment, so that the Coleman proposal is in the form of a concurrent resolution for an "Amendment to the Constitution Providing for a Permanent Income for the State Educational Institutions."

Study the methods of the man who has eggs to sell in the winter. One of his practices is to give his flock a little extra care in the late fall, so that they will start the winter in the best possible condition.

In adding your profits don't addle 'em.



Smooth, Clean Potatoes

First rid your seed potatoes of scab and black-leg diseases before planting and you can be assured of a 30% to 40% increase yield.

FORMALDEHYDE The Farmer's Friend

is the official standard seed cleanser. Potato scab and black-leg once in the ground may persist for many years. The U.S. Dept. of Agriculture recommends cleansing seeds with Formaldehyde solution to prevent spread of potato diseases. It destroys smuts of grain and fungus growths. One pint 35 cents at your dealer treats 40 bushels of seed. New and illustrated book sent free.

PERTH AMBOY CHEMICAL WORKS
100 WILLIAM STREET NEW YORK 5



If He'd Kept Bees

the man who said business and pleasure never mix would have known better. Or perhaps he lived too long ago. It's the honey-bee, plus modern methods and the increasing demand for honey that accounts for present-day

Big Profits in Bee-keeping

Wherever you are, you can start right in with bees—for business, or pleasure, or both. There's keen enjoyment to be had out in the sunshine, studying their wonderful colony organization. They earn from \$2 to \$10 per colony, according to locality and care; and one experienced apiarist can handle 500 colonies. Write to us for particulars, and get our

Special Offer Or, if you're a going bee-keeper, we want to tell you about our double-walled Buckeye hive in which the bees winter so well, and our gentler, harder strains of queen bees. For better prices, use the Root clear glass jars, honey-comb cartons, section honey boxes, shipping cases and labels.

Send for complete descriptive catalog
THE A. L. ROOT CO. Medina, Ohio

Burns Kerosene "ALLWORK" TRACTOR

Successful at all large Tractor Demonstrations this year—Two years' success with a host of satisfied and enthusiastic users



Largest 4-Cylinder Engine On Any 3-Plow Tractor

4 cylinders, 5-in. bore, 6-in. stroke, 750 r.p.m. Develops 28 h.p. at belt and 14 h.p. at draw-bar. Two-speed transmission working in oil; automobile type front axle; self-oiling steel gears, dust-protected; radiator and fan that cools absolutely. Turns short in 12-foot radius.

Weights 5000 lbs. and develops 3000 lbs. draw-bar pull and 4000 lbs. on low gear. Pulls 3 plows under adverse conditions—4 plows under favorable conditions—burns kerosene. Runs 18-in. Ensilage Cutter and 28-in. Separator. Pulls an 8-foot Road Grader.

A simple, durable, powerful machine selling at a price you can easily afford to pay. Built by a company with an established reputation, with numerous machines at work in the fields today. Write for catalog.

Electric
Wheel
Co.

**ALLWORK
ALWAYS**

Quincy, Ill.
Box
30A

More Bees for Kansas

Rapid Progress is Being Made in the Use of Better Methods

By N. E. FRANCE



Development of the Honey-Bee. Left: a, egg. b, Young Larva. c, Old Larva. d, Pupa. Right: e, Worker. f, Queen. g, Drone.

ABOUT 90 per cent of those who start in bee culture fail because they do not have a sufficient knowledge of the life history and habits of the honey bee and of modern methods of honey production. Or, possessing it, they do not apply it properly. Commercial bee culture is a modern agricultural pursuit, the inventions and methods of management, making honey and wax production profitable, having been brought forward since 1850. Because of this and the general lack of scientific investigations, probably 80 per cent of the persons keeping bees are simply "bee owners" instead of real bee-keepers. Practical "bee education" was never more needed than at present, as the industry is increasing with great rapidity.

Honey bees are not natives of America. They probably were first brought over by the Spaniards, as "common bees," and were first reported in Florida in 1763. Making their homes in hollow trees, they moved north and westward gradually, but in advance of settlers. The Indians called them the "White man's fly." They became distributed over the United States east of the Mississippi River by the time of the first known importation of bees from England, Germany and Italy.

Soon after the close of the Civil War, Italian bees from Northern Italy began to be imported. The first successful importation was made in 1868 by Adam Grimm of Jefferson, Wis. As beekeeping developed, the common black angry bees became more or less mixed with the yellow gentle Italian bees. Even today there are a few localities having "pure" common, black German bees; they are mostly hybrids or crosses of blacks and Italians, the amount of Italian blood depending largely on the attention given to his bees by the individual beekeeper.

Carniolan and Caucasian bees are the only later imported races of bees that possess enough desirable characteristics to be of practical interest. The black bees are a trifle smaller than the Italian or Carniolan bees, but are hardy, and if a plentiful supply of good food is present will withstand cold winters and climatic changes. They are easily angered, will sting upon the slightest disturbance and are non-resistant to the wax moth and European foul-brood disease. The queens are quite prolific and noted for brood rearing.

The Italian bees have three or more yellow bands on the abdomen, are often slightly larger than the black bees, but as a rule are not quite so hardy. As a race they are more gentle, are strongly resistant to the wax moth, and much less likely to get European foul-brood. Their queens are very prolific.

There are two varieties of Italian bees—leather colored and five banded or Golden Italians. Of late years the former are more generally preferred as honey gatherers and because they possess greater resistance to European foul-brood. The Carniolan bees are gray, whereas the Italian bees are yellow, hardy, working in the field longer than other races of bees, are gentle, resist wax moths well and the queens are extremely prolific. They are noted for abundance of swarming. The Caucasian

bees are dark colored, but not so black as the common black or German bee. They are noted for glueing up hive and frames with beegum or propolis, and sections of comb honey require much cleaning. Compared with the Italians they seem an undesirable race of bees.

A normal colony of bees during the summer is composed of one queen, many thousand workers, and several hundred drones. The queen bee is the only perfectly developed female bee, she being practically an egg laying machine capable of laying from a few eggs daily, in the spring and fall, to 2,000 eggs daily during the height of the brood rearing season. She has little if anything to do with the government of the colony, but is the most essential individual for its existence, and it has been truthfully stated that about the queen hinges all there is in the management of bees. The worker bees are undeveloped females, incapable of laying fertile eggs. They do all of the required work as gathering nectar, pollen, propolis, water, also feed and nurse young bees, build comb, clean house, and guard the hive from intruders. The sting or mandibles are used for defense as occasion requires. The drone is the male bee. He does no work and his existence is for the sole purpose of mating with the queen, which takes place while they are in flight.

Whether bees winter well depends, in no small degree, on how well they are managed in the late summer and fall. Essential wintering conditions that can be controlled by late summer and fall management are the winter food supply, the presence of young fertile queens, and plenty of young workers.

Young fertile queens are necessary for the successful wintering of bees. The late summer and early fall is the correct time for the successful beekeeper to manage his colonies in such a way that every one will have a fertile queen reared the same or the previous season. Where a fairly good flow of honey is obtainable from Sweet clover or early fall flowers, a good method for raising queens in late summer is to feed the desired queen-rearing colony every evening a small amount in addition to the natural honey flow. This will cause the colony to become exceptionally strong and incite the bees to raise a considerable number of large, well-nourished queen cells. When these have been capped and may be expected to hatch, in three or four days, divide the two or three strongest colonies in the bee yard into three and four frame groups. Give to each a capped queen cell and to pre-

vent robbing, be certain that the entrances to them are as small as convenient. When these queens are laying, they may be introduced into the desired colonies.

The remaining essential for the successful wintering of bees, controlled by late summer and fall management, is that there be plenty of young worker bees. This factor is of more importance than is usually supposed. Very often colonies, having plenty of good food with an old fertile queen start in the spring with plenty of bees, but in two or three weeks dwindle down to a mere handful. This is due largely to the fact that old bees constitute the colony in the fall. They naturally die of old age shortly after passing thru the winter, and for this reason the value of the presence of plenty of young worker bees in the fall is evident. When the beekeeper has reason to believe that most of the bees in his colonies are old and there is no prospect of a fall flow of honey, it is advisable to feed, beginning with the first of September, a little honey or sugar sirup every two or three days to stimulate the queen so plenty of young bees will be obtained for winter. This should be done only when there is a sufficient quantity of food for winter already present. If there is not sufficient food for winter and feeding is desirable for the production of young bees, larger quantities of food will be required according to the respective needs of the colonies, as the bees must store away their winter's food supply at the same time.

An abundance of honey bees is a safeguard to horticulture. They are the greatest factor in the distribution of pollen among fruits and berries. A few other insects carry pollen, but if all honey bees were removed during fruit bloom season, it is safe to say that there would not be enough fruit or berries produced to pay for the gathering of the crop. Horticulturists producing annually thousands of dollars' worth of fruit and berries recognize the value of bees as pollenizing agents and either keep bees in, or nearby their orchard, regardless of whether any honey is produced.

Fields of White and Alsike clover seed within 1 mile of an apiary yield at least twice as much as those where the absence of bees is noted. A decreasing yield is found as the distance from the bees increases.

As general farming, stock farming, dairying, and horticulture advance in all parts of the state, beekeeping will develop accordingly, materially aiding pastures and clovers especially. At the same time abundant honey crops will be obtained and beekeeping will assume its proper place as an agricultural industry. Beekeeping thus promises to fit in admirably with agriculture something like an additional strengthening spoke in a great wheel.

Decided in Advance.

Anxious Mother—"Young Millyuns seems to be quite friendly with you of late. Do you know what his intentions are?"

Pretty Daughter—"No, and I don't care; but I know what mine are."—Indianapolis Star.

Broken New Year's resolutions are repairable by the maker only.



A Field of Clover Containing Many Bees; the Legumes Have Done Much to Make the Conditions Favorable for These Insects.

For More Farm Owners

Much Attention is Needed to the Problems of the Tenants

By F. B. NICHOLS, Associate Editor

TENANT farming is increasing in Kansas. This is one of the unhealthy signs in the economic life of the state. It is difficult, and probably impossible, to build a successful tenant system in this country under present conditions. While a permanent and profitable system of tenant farming is possible in theory, the fact remains that it has been successful on but few farms.

Where tenant farming is a success it usually is based on long-time leases, good crop rotations and livestock. In many cases the livestock is purebred. Unless a basis of this kind is established a tenant will not and cannot get the substantial interest that will enable him to do the best work. The result is that the production is not maintained at a high level, and therefore all of society suffers. It is thus of the greatest importance to everyone that the tenant problems should be solved.

A few of the land owners of the state, such as J. C. Hopper of Ness City for example, have made great progress in establishing good systems of tenant farming, but the proportion is small. Most tenant farmers are working under conditions that are decidedly unsatisfactory. When the system is based on one-year leases and grain farming the best results are impossible. A plan of this kind does not allow the more economical methods of production; more than this, it has been well said that "two moves are as bad as a fire." The man who hopes to get the best results in farming must get away from this system.

Buy a Small Place.

Two plans will solve the tenant problems in Kansas in many cases. One is to buy a little place; the other is to move to Western Kansas. The plan of moving West is becoming popular. There are excellent opportunities in Western Kansas for tenant farmers, for land is cheap. Many of the men who went there a few years ago with but little capital now own good farms.

For farmers who wish to remain in the Eastern or Central parts of the state, it will pay to get the ideal of the smaller farms. Too many tenants are waiting until they have the capital to buy a quarter section farm, and in many cases they will not reach that point. The economic system under which we are operating will not allow it. It is possible, however, to gather enough capital to buy an 80-acre, or a 40-acre, or a 20-acre farm in most cases. This will provide a place where the family can live—from which they will not have to move every year. It will give that feeling of ownership so necessary for the best work.

There is but little difficulty in renting enough additional land as a rule to provide an economical unit to operate. One thus has all the advantages of living on a farm that he owns without entering into a deal so large that it would be impossible to carry it thru. This small farm idea will solve the problem of ownership with many tenants.



Irrigating Alfalfa on the Farm of J. W. Lough of Scott City; This Legume is very Profitable under Irrigation in Scott County.

Ownership among the tenants would be encouraged if speculation among the richer classes were discouraged. There should be a limit on the amount of land one man can own. In New Zealand this idea has worked out in an excellent way; the limit there is 640 acres.

"We must solve the problems of tenant farming if agricultural progress is to continue properly," said W. M. Jardine, dean of agriculture in the Kansas State Agricultural college. "A better system of credits should enable young men to rise consistently from laborers to owners and operators of farms. The government should conduct a policy of buying lands at a price based on productive values, selling them to energetic young men on the amortization basis, or leasing them in case the men were without adequate funds for purchase. Only by such a scheme can the benefits of ownership be conferred on the individuals and the nation, and at the same time the evils of tenancy be reduced to a minimum."

"The road the country is traveling is leading a continually increasing proportion of young men away from the soil to other occupations. Since 1820 a steady fall in the proportion of the population in agriculture has taken place. At present only 32.9 per cent of the population is agricultural, while in 1820 it was 87.1 per cent, but that is by no means so alarming as the fact that of those who are staying in agriculture only one in five finds any prospect of farming for himself."

More Laborers.

"From 1900 to 1910 the agricultural population increased by slightly more than 2 million, of whom only 300,000 were farmers, while more than 1,600,000 were farm laborers. In 1900 there was a hired farm laborer for every three farmers, while in 1910 there was one for every 2.3 farmers."

"These figures show one thing—that it is growing more and more difficult to become a farmer and that most of those who wish to stay on the farm must be content to do so as mere farm laborers."

When a man has purchased a farm he immediately takes more interest in conserving soil fertility. A farmer who expects to be farming a field for many years is likely to have a higher regard for fertility conservation than one who will move the next season. Perhaps the

greatest step in solving the soil problems of Kansas is to get the tenants started on their farms. A good system of crop rotation cannot be established with one-year leases.

Encouraging success usually is made by a tenant farmer in building up a soil that has been rented and allowed to "run down." As a rule a man will attack a problem of this kind with an enthusiasm in marked contrast to the lack of care he used on the land when he was renting it. I have such a case in mind now; a young farmer has recently purchased a hardpan farm in Southeastern Kansas that is especially poor. I visited him recently, and he told me of his plans for improvement.

"The most important thing just now is to get some humus into the soil," he said. "After I have done this the condition of the land will be improved, and it will be possible for me to get Red clover started and a good crop rotation established. I am going to grow cow-peas to be plowed under for green manure, and I expect to haul some manure from town. I also may use some other green manure crops like rye and perhaps some cane, but the trouble with these crops when they are used for green manure is that they form too much acid in the soil, and this land contains enough acid."

"I have tested it for acid with blue litmus paper in several places and found it sour. This means that before I can do much with this land lime must be applied, but lime costs money, and I shall have to go slow about using it. But let me tell you that when lime is added to this place at the rate of about 2 tons an acre you will see crops growing in a much different way."

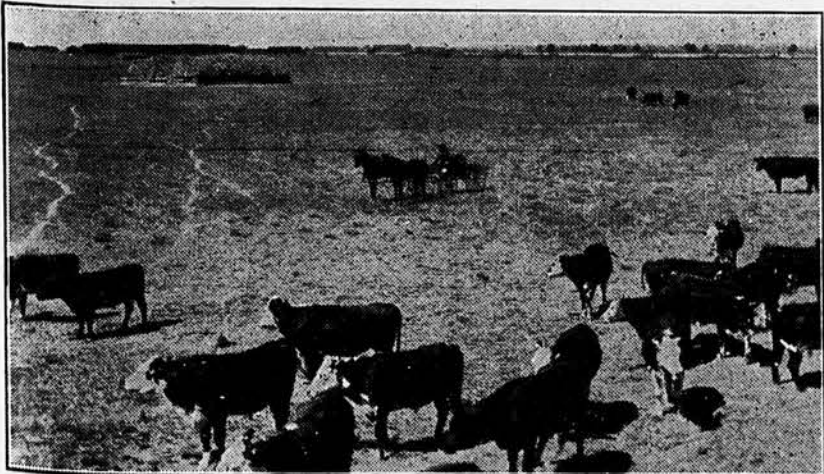
Livestock Farming.

"And another thing, there will be no more grain sold. All the crops will be fed here where they are produced. I believe in a farming system based on livestock, for you can make more money and at the same time keep up or improve soil fertility if the manure is handled properly. By keeping animals to eat all the crops produced it will be possible for me to increase the acreage of Red clover just as fast as I can get it to grow, and believe me it is badly needed on this place."

"There is just one rich spot on the farm, and that is the hog pen; we have about 80 acres of fertility stored down there on less than an acre. I am going to move the hog pen and plow up that soil and make a truck patch out of it. We shall raise a good garden at least."

These plans are good. If they are followed they will result in increasing the crop yields on this place rapidly. This will add just so much to the available wealth of Kansas. A system of agriculture founded on land owners means high yields and a contented country life; a system founded on tenants usually means discontent and low yields. Every person is thus concerned with tenant farming—the solution of the problems brought up by this system are of the greatest importance.

Tenants can expect to make much more rapid progress after they become owners. That is why it is of the greatest importance that they should buy a little land, even if it is only a small place, just as soon as possible. The pride of ownership is needed to make a man do his best in farming.



A Herd of Cattle on a Farm near Garden City With Alfalfa Stacks, the Winter Feed in the Background.

**A Powerful
Light
Tractor
for
Only**

\$585.00

Here's the little tractor with a big 1916 record. Its great performance in field and on belt has won hosts of friends—selling fast for 1917 use. Honestly built of high-grade materials—simple design and highest efficiency.

**La Crosse
Happy Farmer
Tractor**

Low in price—low in upkeep. Two models. Model "A" 8-16 h.p.—\$585. Gasoline or kerosene. Pulls 2 or 3 plows. Model "B" 12-24 h.p.—\$735—our wonderful new kerosene burner. Same type tractor as Model "A," economizing weight for pull.

Unbreakable cast steel frame. Twin cylinder motor—overhead valves—perfect combustion—mechanically closed. Hyatt Roller Bearings throughout. Write for catalog. Also ask about La Crosse Tractor-drawn implements. We have a distributor near you for prompt service.

La Crosse Tractor Co., Dept. 5, Minneapolis, Minn. Live Dealer Agents Wanted



**Flour City
Tractors**

17 YEARS IN THE FIELD

**A PRACTICAL DESIGN
CAREFULLY DEVELOPED.**

**SIMPLICITY IS IT'S BEAUTY,
STRENGTH AND POWER
ITS STRONG POINT.**

**ITS SUCCESSFUL CAREER
HAS BUILT OUR FACTORY
AND MADE OUR BUSINESS**

**THE FLOUR CITY IS BUILT
IN SIZES SUITABLE FOR
ANY FARM.**

**BUY ONE BIG ENOUGH
TO DO YOUR WORK.**

CATALOG ON REQUEST.

**KINNARD-HAINES CO.
855 44th Ave. MINNEAPOLIS, MINN.**

**WANTED MEN
\$75. to \$200 a month!**

The demand for capable automobile men exceeds the supply. Our graduates are always in demand to fill good positions as Salesmen, Demonstrators, Factory Testers, Garage Managers, Repair Men, Ignition Experts and Drivers.

\$50 COURSE FREE

Six weeks from the day you enter this great school you will be able to repair any make of automobile or drive any car on the market. All who enroll now receive \$50 course in Lighting and Tractor Engineering Free. Write today for our big Free Book and the \$50.00 Free Scholarship Certificate.

**AUTOMOBILE
TRAINING SCHOOL**
Largest Auto School in the World
1088 Locust St. Kansas City, Mo.



"Honey Dew" Melons
bring big money. Easy to grow. An exceptionally hardy plant that thrives anywhere that an ordinary cantaloupe will grow. Big market demand—fancy prices. The "Honey Dew" has several flavors combined in one—pineapple, banana and vanilla. Everybody loves 'em. We have extra selected "Honey Dew" seed on sale right now. Write at once for full information, also big catalog of field and garden seeds.

The Barteldes Seed Company,
(50 Years of Honest Service)
406 Massachusetts St., Lawrence, Kansas.
406 Sixteenth Street, Denver, Colorado.
406 Main Street, Oklahoma City, Okla.



Sound Seed Corn
We use the greatest care in selecting our seed corn. Every ear is carefully examined, and rejected unless found true to type. It is then tipped and butted, shelled and graded. Seed corn selected in this manner will grow. If in doubt about your seed, better take no chances. New Kheron Rust-proof Gals ripen earlier, stiffer straw, 65 bushels to acre last season. Only kind in West that did not rust. Alfalfa, Clovers and Grass Seeds—also Garden Seeds, Trees, Shrubs, Small Fruits, etc. Apple Trees, etc. For 30 years we have been selling first class stock by mail at wholesale prices. Seed and Nursery Book free.

German Nurseries and Seed House
64 Court St., Beatrice, Nebr.

SEEDS THAT GROW

SUDAN GRASS
Greatest forage crop and drought resistant. Produces fine crop of hay—superior to Millet and equal to Timothy. Barteldes' Sudan Grass Seed is a sure big yielder— from 2 to 4 tons of hay per acre and under irrigation as high as 10 tons per acre. **BARTELDES' SUDAN SEED IS PURE**—cleaned and re-cleaned. Scarce this year but we have a good stock. Order from headquarters. **FREE** Catalog of field and garden seeds—also special pink price list—send at once. 50 years of honest dealing.

THE BARTELDES SEED COMPANY,
706 Massachusetts St., Lawrence, Kansas.
706 Main Street, Oklahoma City, Okla.
706 Sixteenth Street, Denver, Colorado.

GOOD SEEDS
GOOD AS CAN BE GROWN
Prices Below All Others
I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

Big Catalog FREE
Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Ill.

RELIABLE WINFIELD TREES
PURE-BRED—TRUE TO NAME
Buy direct from the Grower and save agent's commission of 40 per cent. A postal brings our new Catalog, with colored plates, and wholesale prices.

COOPER & ROGERS,
BOX "E" WINFIELD, KAN.

SEEDS
You need good, fresh, reliable seed for Garden, Field or Flowers. Write for our 1917 catalog and price list. It is mailed **FREE**.

David Hardie Seed Co., Dallas, Texas

TREES NO COLD STORAGE
We grow a full line of fruit and ornamental trees, vines and shrubs. APPLE and PEACH 6 to 10c each and everything else in proportion. Write today for special prices to planters.

CALDWELL NURSERIES, Box A, Caldwell, Kansas

HYDE'S TESTED SUDAN
Hyde's Sudan is tagged—Showing exact purity and germination. Why take a chance? We ship direct from farm to farmer. Hyde's Pays the Freight and refunds your money if not entirely satisfied. **FREE** CATALOG and Price List sent postpaid—Write at once.

HYDE SEED FARMS,
300 Hyde Bldg., Petoskey, Mo.

25 GRAFTED APPLE TREES \$1
25 Budded Peach Trees, \$1.00
50 Concord Grape Vines, \$1.00,
and many other bargains in exceptionally high grade nursery stock. Vigorous, hardy, guaranteed. On request, we'll send you our illustrated catalog and a due bill for 25c free. Write today.

FAIRBURY NURSERIES
Box J Fairbury, Nebraska

Making the Tenant's Garden

Thoroughly Prepare the Patch and Order Enough Seed Early

BY L. REED

A GOOD GARDEN supplying an abundance of fresh vegetables for the table does so much toward cutting down the grocery bill that every tenant farmer who is striving to get ahead of the supply merchant should not fail to plan for an abundance of vegetables, potatoes, roasting ears, beans, and field peas for home use the year round. Too many tenant farmers think they cannot make a garden and give proper attention to field crops. We always have found the plot given to the growing of vegetables and truck patches the most profitable acre on the farm. Even though we do not sell a dollar's worth of surplus, which we seldom fail to do, we still would try to grow a banner garden every year.

Gardening and farm life go together and never should be separated. We have gardened many years on rented land and give our mite of experience, hoping to help some one to grow a good garden this season.

Selecting the Site.

A rich, well drained soil is necessary to the best success in garden making. If there was no garden already on the new place the first thing we always did was to look about for a plot suited for one. If there is an abandoned cow or horse lot, this is an ideal place on which to make the garden. If the land is well drained so much the better, but if not, this may be done at small expense by making the land in beds and throwing out deep water furrows to carry off surplus water. If no such plot is at hand look about for the richest piece of land to be had and if necessary give a good coating of well-rotted stable manure as early as possible. On many tenant farms it is possible to scrape up several loads of the very best manure for the garden from old lots and in the fence corners. When we can obtain this well pulverized fertilizer, we prefer using it as a top dressing just before planting, since the plant food is quickly available and the manure does not require time to decay and pulverize.

If fresh manure must be used it is best if this can be applied in the fall and turned under so that the winter rains may moisten and cause it to become well incorporated with the soil. This is possible only where one has access to the farm before winter sets in. Too few farms have fenced garden plots and many tenant farmers must make the garden far off in the field out of reach of chickens and of the women, too. Where one moves every year it is a very good plan to buy wire enough to enclose a garden plot of the necessary size and move it when moving. It takes less time to set up the wire near the house than to go to the field for cultivating and for needed vegetables. Then, too, we usually find the soil near the house and outbuildings best suited to vegetable growing. In selecting the site if a gentle slope to the south or east is accessible we will be able to plant earlier and plants having the benefit of the sun all day will grow better.

Preparing the Soil.

If asked the most important point in cultivating the garden, I should answer: "The very best work we do is that done before planting." On the proper preparation of the soil depends much in growing fine vegetables as well as making

the cultivation easier. Here is a plan which will put the garden in good fix, give a deep, well pulverized seed bed which will retain moisture well, and will leave very little of the back-breaking finishing with hoe and rake. We have "started" several gardens and this always has been our way, for we are firm believers in the saying of "well started, half made" when it comes to preparing land for vegetables.

Remove the Rubbish.

Plow with a turning plow as deep as a good team can pull it, taking all in one land. Turn and break right across the first breaking and follow with a two-horse harrow. Now pick up all stones and rubbish piled by the harrow. Next use the cultivator or double-shovel plow and cross-plow until the soil is fine and all clods are broken. We use the turning plow, harrow, and double-shovel alternately until we have a seed-bed as fine as is possible to attain with these, and then a rather heavy pole drag is used until all surface clods are broken. If beds are desired the turning plow is again used and the furrows are made very close. In this way it is easy to make beds of the required height without dragging up with a hoe as many do. After beds are made the harrow and drag are used until there is little to do with the rake to have the seed bed ready for the smaller seeds.

In planning the planting, it is best to plant as much as possible in long rows and cultivate with horse power. But for the smaller plants which mature quickly the bed system is desirable since the cultivation must be done largely by hand. One point of great importance in preparing the soil is never to stir when too wet. Better wait two weeks than break land too wet, for the bad results will last thru the entire season. When a handful of newly dug soil pressed tightly in the hand for a minute and then released will crumble apart readily, the land is all right for plowing, but if the soil remains in a ball it is too wet.

Buy Only High Grade Seeds.

If we expect good vegetables we must plant only first class seeds of strong germinating qualities. The best way to be sure we are buying good seed is to order from a reliable seedsman who guarantees the quality of seeds sent out. Those advertising in the farm papers are generally reliable. Seeds should be ordered early and we find it cheaper to order by the ounce or pound, as an ounce of beets, radishes, or turnips costs only a few cents more than packets and then we have seeds for later plantings or replantings if needed. Do not "skimp" on seeds. Plan to grow an abundance of vegetables for home use and a surplus for market and the neighbors. Prepare the land well and select seed carefully, sticking to tested sorts for main crop.

Satisfactory to Her.

Pa—"I greatly disapprove of that young Smithson, and one particular reason is his lack of industry in his calling." Daughter—"His calling? Why, papa, he calls seven evenings in the week!"—Tit-Bits.

The repair shop, warmed by a heater, is an interesting place to spend the blizzard day.



It's Better for a Tenant to Buy Chicken Netting than to Have His Garden Out in the Fields, Inaccessible to the Women.

BUY TREES AT WHOLESALE

and Save Agents' and Dealers' Profits

Apple Trees \$7 per 100 and up; Peach Trees \$7 per 100 and up; Cherry Trees \$11 per 100 and up.

Items Taken From Our Catalog Wholesale Prices

St. Regis Everbearing Red Raspberry	\$2.50 per 100
Everbearing Strawberry	\$2.00 per 100
Senator Dunlap Strawberry	\$2.25 per 1000
Concord Grapes	\$2.00 per 100

Full information about all kinds of Small Fruit Plants, Flowering Shrubs, Roses, Garden Roots, Forest Tree Seedlings, etc., at money saving prices, in our **Free Catalog**. Write for it today.

HOLSINGER BROS. NURSERY,
Box 208, Rosedale, Kansas.

SEED CORN

Gold Mine and Other Varieties

Come to headquarters for your seed corn. Take your choice of any of the best leading western grown varieties. Get seed that is tested for 90 per cent or better fertility. Get seed that is carefully hand picked, tipped, butted and cleaned, so that you pay for only the perfect kernels and not a lot of rubbish and trash. That's the kind of seed you want and that's the kind we sell you. It pays to buy the right kind at the start, so buy the Lincoln Brand.

Write for Our New 1917 Annual

A postal will bring it free, postpaid. It's chock full of Garden and Field Seed bargains. A book worth having. This year we list some splendid new varieties, such as our Shrook's Kaffir Corn, White Kheron Oats, White Wonder Millet, Marquis Spring Wheat, etc. We are headquarters also for Alfalfa, as we are the largest alfalfa seed dealers in the country. Our Corn Saver Beet for feeders of dairy cattle, our Hog Pasture Mixture and many other specialties in the seed line are worth investigating. We want you to get better acquainted with Lincoln Brand Seeds, the new trade name for well-known Griswold Quality Seeds. So write for our new Seed Book today. Get our Special Bee Supply Catalog if you are interested in bees.

Griswold Seed & Nursery Co.,
Dept. N189, Lincoln, Neb.

Armstrong's Seed Corn

Originators of the seed corn business. Growers and breeders for forty years. That's our guarantee of high quality and service. Don't experiment. Buy Armstrong's.

FREE SAMPLES AND SEED CORN

Finest stock of heavy yielding, early maturing, high test, pure bred seed corn ever grown. Varieties adapted for your section. Special prices on early orders. Write for free samples and seed corn annual.

J. B. ARMSTRONG & SON Box 141, Shenandoah, Iowa

GOOD SEEDS

BEST IN THE WORLD

New Crop Grown—Guaranteed to grow—sold at lowest living prices. 33 years in Seed Business. BIG ILLUSTRATED CATALOG FREE—gives full descriptions of every farm and garden seed worth planting. A Postal Card will bring it to your door. SEND for it today. It will save you money on your seeds. Address—Jefferson—Ratekin Seed Co.—Jefferson, Iowa

SEED CORN

This year I have the best lot of Reid's Yellow Dent and Boone County White that I have ever handled in all my many years' experience in the seed business, and am so confident of it I am selling it on a positive guarantee that

IT MUST PLEASE YOU OR YOUR MONEY BACK

Hand selected, Butted and Tipped, Shelled and graded, \$2.50 a bu.; 5 bushels or over \$2.00 a bu. Cash with order. As I have only a limited amount to offer, better order now and not be disappointed.

S.G. TRENT Box B, Hiawatha, Kan.
Member Kan. Corn Breeder's Ass'n, Winner Corn Prize Panama Exposition, First Prize Seven Consecutive Years on Seed Corn.

4c Each APPLE TREES

Nice, smooth, well grown, true to name. Catalog of all kinds of trees free for the asking.

WESTERN NURSERY COMPANY
DEPT. M & B, LAWRENCE, KANSAS

Improved, high yielding Reid's Yellow Dent and Boone County White. Sold on a guarantee. Look at this show record for the season just closed. First and sweepstakes at the Kansas State Fair, the International Wheat Show and the International Soil-Products Exposition and C. R. Farm Congress. Have a limited amount of strong, vigorous seed at customary prices. Send for free catalog.

PERRY H. LAMBERT, Box F, Hiawatha, Kan.

As Nearly Perfect As You Can Procure
Clover, Alfalfa, Sweet Clover, Timothy and all kinds of grasses and seed grain of highest quality. Samples and special price list free.

IOWA SHIELD BRAND SEEDS
Protect Your Fields
Iowa Seed Co., Des Moines, Iowa

FREE BOOK ON TREES

Tells about large assortment of best trees and plants at lowest prices. Ask for Preferred Customer's Discount. No obligation. Book is Free. Send for it now. Address

WELLINGTON NURSERIES, Desk A, Wellington, Kans.

Plan Your Hotbed Work Now

Every Farm in Kansas Can Grow Early Vegetables

BY C. S. ADAMS

A HOTBED is an enclosed and covered plot of earth heated by artificial means. It is used primarily for forcing plants, out of season, either to maturity or for transplanting to the cold frame or open ground. Such plants as lettuce, radishes, onions, beans and spinach can be grown to market size; while tomatoes, cabbage, cauliflower, peppers, cucumbers, melons, Sweet potatoes and some others can be started early, thereby enabling a grower to mature these crops earlier than normally.

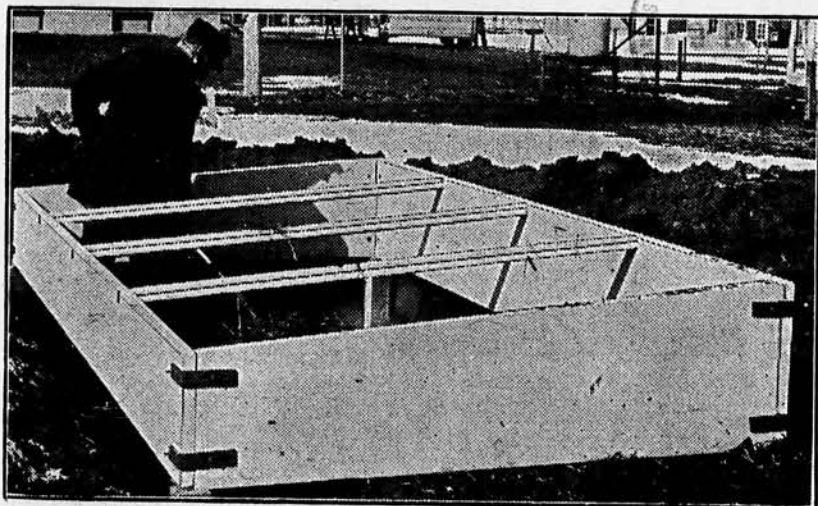
It should be located on a much frequented line of travel to insure against neglect, because a successfully managed hotbed requires constant attention. It should also be on a well drained soil and in a place more or less protected from north or west winds. Then, too, it is essential that it have a full southern exposure and be near a water supply.

The construction of a hotbed depends on whether it is to be a permanent or a temporary structure. A man who owns his farm can well afford to incur a larger first cost, and thus equip himself with structures which will last several years. A tenant, however, does not wish to install equipment which cannot be removed easily, so for him the temporary hotbed will often be more practicable.

A permanent hotbed consists of three parts: the pit, frame and sash. The pit is dug 18 inches deep, 6 feet wide and as long as desired, a convenient length

most satisfactory, for its use does away with the necessity of having mats or other forms of protection. In the warmer weather of April and May other materials such as oiled paper and waterproof cloth may be used as substitutes for sash, but due to shading they are likely to induce a spindling growth unless properly managed. The single glass sash is less expensive at first but in severe weather requires some additional cover to insure sufficient protection. Home made covers may consist of straw or burlap mats. The double glass-sash, altho costing about 1/2 more, is convenient since no further protection is necessary.

Horse manure is the best heating material for use in a hotbed, and for most satisfactory results requires careful attention in its preparation. It is desirable that the manure be not too compact or loose tho as a rule the presence of considerable litter is beneficial. Two parts of solid excrement to one of litter makes a good mixture. Manure containing shavings should not be used. The manure is taken fresh from the stable and placed in a flat-topped pile 5 feet high and of any length and width desired. If dry at the time of piling it should be moistened to start fermentation. Ordinarily the pile will begin to steam in two or three days. When fermentation is well under way the pile should be turned so the interior will form the exterior of



This Shows Clearly How to Make a Hotbed Frame. Every Modern Farm in Kansas Should Have One.

being 12 feet. A bed of this size requires four sash 3 feet wide and 6 feet long. The depth of the pit may vary and should be governed by the time of year, the severity of the weather, and the kind of crop to be grown. Such crops as radishes and lettuce do not require so much heat as tomatoes, cucumbers and peppers. For general purposes 18 inches is a good depth.

The frame may be made of brick, cement, or of plank, if of the latter, 2-inch stock is to be preferred. If plank is used any kind will do, but the most satisfactory kinds are oak and cypress. The plank frame will serve the purpose of the average farmer. It may or may not extend to the bottom of the pit, but in any case it should extend about 12 or 15 inches above the surface of the ground on the north side and 6 to 8 inches on the south side, thus affording a slope to the south. The boards are held in place by 2 by 4-inch stakes driven into the ground at the corners. Every 3 feet a cross bar should be placed for the sash to rest on.

Sash should be made of the most durable wood, preferably cedar or cypress. It may be bought glazed or unglazed, it being much cheaper for one to do his own glazing. The standard and most convenient size of sash for ordinary use is 3 by 6 feet. It will vary in thickness but the most common is 1 3/8 inches. Of course the heavy sash is more durable, but the lighter types are easier to handle.

Double glass sash is offered for sale by certain firms and great claims are made for it, but the advantages are offset to some extent by the increased cost, weight and short life. These factors, however, are only detrimental to the commercial growers. For a farmer who needs but a few sash the double glass will be

the new pile. This will insure uniform heating and the entire mass will, after three or four days more, be ready for the pit. From the time of piling until it is ready for pitting requires from 10 to 12 days. The preparation should begin about two weeks previous to the time planned for sowing seed.

Before putting the manure into the pit it is advisable to cover the bottom with straw or litter to make it more nearly heat tight. The manure is then thrown into the pit in successive layers of 5 to 6 inches and tramped firmly, especially in the corners and around the edges. The manure will settle several inches, so allowance should be made for this. After the pit is filled and packed it is ready for the soil. If it is to be used for flats or pots 2 inches of soil will be enough, but if it is to be used for a seedbed from 4 to 6 inches will be necessary. A good soil consisting of 1/3 well rotted manure and 2/3 good garden loam should be used.

A temporary hotbed is one constructed for use during a single season. One way is to dig the pit about 1 foot wider than the frame is to be made and not line it as in the case of a permanent hotbed. A light portable frame is then placed on the manure, and is banked with manure.

The time for starting the hotbed depends on the purpose to which it is to be put. It may be used for forcing lettuce and radishes during the winter months. Then, too, the time of planting is governed by the type of plant to be grown and its treatment previous to setting in the field. Tender plants like tomato, pepper and egg plant cannot safely be put out in the open before the middle of May in this section as a rule, so it will not be necessary to sow the

(Continued on Page 30.)

Trees by the Million



Direct From Grower to You

MAKE NO MISTAKE ABOUT THIS—the zig-zag journey trees, vines and plants take when you buy from an agent, doesn't add to the quality of the stock—but merely to the original grower's price. YOU pay all this additional profit when you buy the OLD way.

BUY MY WAY—the NEW way, direct from my big Planters' Nursery Co. and save all useless profits of Wholesaler, Retailer and Agent. You keep the difference and are sure of trees

that are fresh, with dandy root systems and full of life.

LOOK! NOTE THESE BARGAIN COLLECTIONS ACT!

- | | | | |
|---|--------|--|--------|
| 10 SELECT APPLE TREES—2 year 5 to 6 ft. trees. 1 Delicious, 2 Stayman, 1 Black Ben, 2 King David, 1 Jonathan, 3 Winesap. Agents ask \$5.00. Collection No. 1..... | \$1.50 | 10 SELECT PEAR TREES—2 yr. 5 to 6 ft. 8 Kelfer, 2 Garber, biggest money-makers for middle west. Agts. ask \$5. Collection No. 7..... | \$1.60 |
| 20 SELECT APPLE TREES, extra size—2 year, 5 to 6 foot, Stayman, Black Ben, Winesap and other best varieties. Fine, big, extra heavy trees. Agents ask \$8.00. Collection No. 2..... | \$2.50 | 10 SELECT PLUM TREES—4 to 6 foot. Burbank, Abundance, Red June and Wickson, all fine, quick bearing varieties. Agent's price \$5.00. Collection No. 8..... | \$2.00 |
| 10 SELECT PEACH TREES—4 to 5 foot trees. 5 Elberta, 1 Chinese Cling, 1 Belle of Georgia, 2 Champion, 1 Carman. Agents ask \$3.00. Collection No. 3..... | \$1.25 | 10 SELECT CHERRY TREES—4 to 5 foot, 4 Montmorency, 4 Early Richmond, 1 English Morello, 1 Wragg. Agents get \$6.50. Collection No. 9..... | \$2.90 |
| 20 SELECT PEACH TREES—3 to 4 foot. 10 Elberta, 3 Champion, 2 Mamie Ross, 5 Belle of Georgia, the cream of good varieties. Agents ask \$5.00. Collection No. 4..... | \$2.00 | 10 CHOICE GRAPE VINES—2 year. 1 Catawba, red; 3 Concord, black; 2 Niagara, white; 1 Moore's Early, black; 3 Worden, black. Agents get \$2.00. Collection No. 10..... | \$.75 |
| 20 PEACH COMPLETE FAMILY ORCHARD—2 to 3 foot stock, well rooted. 2 Early Wonder, 2 Mamie Ross, 2 Champion, 7 Elberta, 3 Belle of Georgia, 2 Heath Cling, 2 Late Elberta. Covers all season earliest to latest. Agents ask \$4.50. Collection No. 5..... | \$1.60 | 25 CONCORD GRAPE BIG VINES—Most widely planted black grape. Everybody loves 'em. Easily cultivated. Agents get \$2.50. Collection No. 11..... | \$.90 |
| 5 APRICOT TREES—3 to 4 foot. 5 Moorpark, 5 Royal, Hardest and best varieties. Agents get \$2.50. Collection No. 6..... | \$1.10 | 100 EVERBEARING STRAWBERRIES—Best variety Progressive. Bear until snow flies. Hardy, vigorous. Agts. ask \$5. Collection No. 12..... | \$2.00 |
| | | 300 EVERBEARING STRAWBERRIES—200 Progressive, 100 Superb. Bear right up until frost time. A wonderful bargain. Agents ask \$15.00. Collection No. 13..... | \$4.50 |

Order Direct From This List at Lowest Growers Prices—Save From 50% to 75%

DON'T WAIT FOR A PRICE LIST. No need to. Here's plenty of luscious fruit—plenty of good things. ORDER RIGHT FROM THE ABOVE LIST. See how much you'll save. See how wonderfully surprised you'll be. Money back if not satisfied. Send for my Complete 1917 Catalog for prices and descriptions of all my stock—Trees, Vines and Plants of all kinds.

CHAS. DUNBAR, Grower

PLANTERS NURSERY COMPANY, 421 Orange St., Winfield, Kan.

OATS



Here we outrank. Many full-blooded, big-yielding varieties. Northern Grown. We have a strain exactly to suit your soil and climate. Salzer's Rejuvenated Bonanza, the most wonderful oat known.

Corn, Wheat, Speltz, Barley

Send Today for

Big Catalog and Samples

Salzer's Grasses, Clovers and Alfalfas lead the world.

America's Headquarters for Field Seeds
49th Year

Our 1917 184-page catalog is brimful of agricultural information. A remarkable book—FREE for the asking with samples of any field seed you are interested in. Send today.

JOHN A. SALZER SEED CO. BOX 139 LACROSSE, WIS.

FIELD SEEDS At Wholesale Prices

We save you money on your Seed Bill. Write for our Special Money-Saving Price List and get our reduced prices on Best Quality Guaranteed Seed. You should know about our low prices. Write at once and be convinced. Everything sold Guaranteed Satisfactory or money refunded. Don't pay two profits on Grass Seed. Our seeds are sold subject to Government test. Have new re-cleaned Alfalfa, \$6.90 bu.; Timothy, \$2.25; Clover, \$3.40; Sweet Clover, \$3.90; Alsike and Timothy, \$4.00. Have Low prices on Seed Corn, Oats, Wheat, Speltz, Barley, Cane, Millet, Cowpeas, Rape, Vetch, Sudan Grass, Potatoes, Artichokes and all Farm and Garden Seeds. Write today for big 100-page catalog. Free samples and special low prices on seeds you require. Will send Free 60-page book on Growing Alfalfa to those who ask for it. Write at once, as we can save you money. A. A. BERRY SEED CO., BOX 235, CLARINDA, IOWA

SPECIAL APPLE TREE OFFER

We have 20,000 choice apple trees that must go this season. Need the room for other stock coming on. We have two choices—piling them up and burning them or making a price that will move them. We have chosen the latter. Our regular trade will take one-half. Do you want a part of the balance? Then get in your order early. Limited quantity sold to one person. All leading varieties—Walthy, Jonathan, Delicious, Winesap, Transparent, etc. Excellent trees in excellent condition. A rich opportunity. Write us sure. Woods Bros. Nurseries, Dept. 113, Lincoln, Neb.

A postal card brings prices and samples. Find out about our Alfalfa, Clover, Timothy and Corn Seeds before buying. Highest quality guaranteed at low prices. Send postal today to
STOECKER SEED CO.
Dept. 4 Peoria, Illinois

H&M. Halters \$1.00 Harness Bargains

Buy direct from maker. Save 30 to 50%. We prepay freight and guarantee goods 2 years. Look at this coppered riveted 1 1/4 inch wide halter, sells everywhere \$1.50. Sent prepaid for \$1.05. Write for Big Catalog of Harness, Saddles, etc. **H. & M. HARNESS SHOP,** Dept. 201, Stock Yards, ST. JOSEPH, MISSOURI.

NOW-You Can Get the Famous Racine SATTLEY Farm Implements Direct from the Factory at Less Cost



By Buying and Operating the Sattley Plant

Montgomery Ward & Co.
Satisfaction Guaranteed or Your Money Back

Have Made Lower Prices Possible for You

THE greatest money-saving offer made to America's farmers is now ready. Montgomery Ward & Co. have purchased and hereafter will operate the Racine-Sattley Farm Implement Plant. They have put their wonderful "direct-from-the-factory-to-you" sales policy back of this famous implement line in place of the old selling methods heretofore employed. They have made low prices possible on this famous line of agricultural implements.

Fill Out the Coupon Now!

Mail it today. In return you will get our Farm Book, showing the low prices and the strong guarantee which backs this line.

Thousands of former Sattley customers will be especially interested in this offer. It means a saving on all parts as well. Mail coupon now for complete facts, etc.

Montgomery Ward & Co.
Satisfaction Guaranteed or Your Money Back

Department AW10

New York Chicago Kansas City Fort Worth, Tex. Portland, Ore.

Write House Most Convenient

MONTGOMERY WARD & CO., Dept. AW10

Send me a copy of your Farm Book at once, showing Sattley Line and low prices.

Name _____

R. R. or St. No. _____

Postoffice _____

State _____

Better Profits in Farming

Careful Study is Required in Developing a Logical System

BY W. E. GRIMES

FARMING is a business. As a business it affords opportunity for study and improvement. Studies of the business of farmers show that there are several factors which are important in their effect on the success of the farm business and by means of which it can be improved. The most important of these are the size of the business, the diversity of its enterprises, and the quality of the business as determined by the yields of the crops and the returns from livestock.

Also, a farmer's education has a direct influence on his profits, and the better-educated farmers are, on the average, making profits sufficiently greater than their less fortunate neighbors to more than justify the expenditure of the time, effort and money necessary to obtain the education.

The farm management investigations of the department of agronomy of the Kansas State Agricultural college have included data showing a year's business on 1,000 Kansas farms for 1914 and 1915. From this data the various factors affecting the success of the farm business are determined. The relative effects of these factors are studied to ascertain the more profitable combinations and to determine means of improving existing conditions.

These farms are located in Allen, Cowley, Graham, Harvey, Jewell, Leavenworth, Miami, Montgomery, Norton, Pottawatomie and Reno counties. In every county an area typical of that section was selected, and so far as possible every farm within the area was included in the survey. The number of farms in each of these areas varies from 40 to 200. The inventories for the beginning and end of the year and all farm receipts and expenses are obtained on every farm. The net profit of the farm business can be determined from these. Interest at the rate of 5 per cent on the investment is deducted from this profit and the remainder is termed the labor income or the farmer's pay for his year's labor. Out of the labor income and interest on the investment a farmer must pay interest on any mortgages or other debts he owes and all household or living expenses.

The average farmer included in these surveys has made a labor income of approximately \$350 to \$400. The average investment in the farm he is operating was about \$17,000. In case he is an owner he has all the interest on the investment but in the case of a tenant, that portion which he gives as rent goes to the landlord. In addition to this he gets whatever his farm furnishes him in the way of a house to live in and products toward his living, which has been determined to be \$400 to \$500 for the average Kansas farmer. Then, the total he has received has a value of from \$700 to \$900. It is probable that there are few managers of business enterprises in towns and cities with a capital of \$15,000 to \$20,000 that are working for so low a salary. There is a difference in the cost of living in towns and on farms but it is not so great as the difference between the salary of the average manager of a business of equal size in a city or town and the farmer's returns.

It is not logical to expect a farmer with a small business to make a large profit. Receipts on a small farm are not large and little is left after expenses are paid. The larger farms have larger receipts and more opportunity

for a good margin between receipts and expenses. This is true so long as the farm does not become so large as to be inefficient and cumbersome. However, not all large farms are successful. It must be remembered that the larger the farm the greater the risk, and the greatest losses are incurred on some of the larger farms. The small farm can no more lose a great deal than it can make a great deal. It does not have much to lose. It has been found that farms exceeding 640 acres in the Central and Eastern portion of the state are not so uniformly profitable as farms a little smaller. However, some farms much larger than this have been profitable, and the success of these larger farms seems to be determined more by the ability of the farmer to organize and operate a business than in the case of farms somewhat smaller.

The farm business which returns the operator a fair profit year after year must be diversified. All crops and livestock enterprises do not succeed to the same degree every year. By having a diversity of enterprises a complete failure of the entire farm business in any one year usually is avoided. This diversity of enterprises has the further advantage of giving a better labor distribution thru the year and reducing the cost of operating the farm. The keeping of livestock is one of the most satisfactory methods of diversifying the farm business where feed is grown for the stock and one or two crops are grown to be sold for cash. Usually a portion of the crops should be sold in the better crop years so sufficient feed for the livestock kept will be produced in years of poorer crops. The mistake must not be made, however, of diversifying to too great a degree. A little of everything and not much of anything is rarely profitable. The enterprises should be of sufficient size to insure economy and efficiency of operation.

The yields of the crops and returns from livestock must be sufficient to more than pay for the cost of producing them. The surest and most economical method of maintaining good crop yields is to keep a reasonable amount of livestock and return the manure produced to the fields. The livestock kept must return a profit above the cost of production. Good crops fed to good quality livestock are as profitable a combination as can be found on Kansas farms.

There are many Kansas farmers who should carefully consider these factors and the combination of them which they have in their farm business. The most unprofitable farm business usually is the easiest to improve and is always the most in need of it. The factors causing the failure of a farm business or limiting its profits can practically always be improved. A few farms may be limited by conditions beyond the control of their operators but they usually can be bettered if much in need of it. Careful consideration of these factors has led many farmers to make changes in their farm business which have rendered them much more profitable.

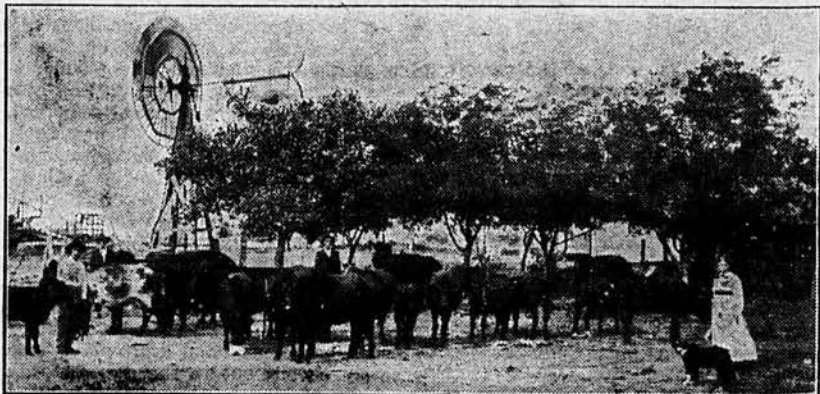
The Eye of the Law.

First Officer—"Did you get that fellow's number?"

Second Officer—"No; he was going too fast."

First Officer—"Say, that was a fine-looking dame in the car."

Second Officer—"Wasn't she?"—Puck.



Livestock and Better Systems of Feeding Require More Attention in the Developing of Profitable Systems for the Farms of Kansas.



Diversified Work is Best

A Properly Balanced System Gives Good Profits

BY HARLEY HATCH

OUR SOLOMON, Kan., friend who received a cash return of \$20 an acre on an 80-acre farm in 1916 has sent me an account of his sales so we can all see just where the money came from. It is about as good an exposition of having your eggs in several baskets as I ever saw. Here is the account: Calves and surplus cows, \$314.35; cream, \$200.42; surplus horses, \$195; hogs, \$503.28; grain, \$84.61; poultry, \$101.93; eggs, \$194.22; fruit, \$6.20, a total of \$1,600.01. This may not indicate bonanza farming but it does indicate a sane, balanced system of working and, without personally knowing my friend, I may say living. For the family that has such products to sell without doubt lives well on the products of the farm.

A friend living near North Topeka asks about the system used in leasing land for oil and gas in "wildcat" territory. He wishes to know if a cash payment is made on the land in addition to giving a share of the oil or gas if any is found. Yes, a cash payment is now common in most parts of Kansas where there is any indication of oil. This payment usually is \$1 an acre a year and is sometimes payable cash down, sometimes in six months and sometimes only when a year has elapsed after the lease is signed. Most leases promise 1/4 of the oil found. In some localities where indications for oil are good as high as \$4 an acre is paid cash down in addition to the share, but in virtually all wildcat fields the common payment is \$1 an acre a year. That is what we got when we leased; at that time there seemed no territory more "wildcatty" than this, but now there is a well which seems to have settled down to a 50-barrel producer within 7 miles of the farm so we are not in the wildcat strip quite so badly as we were.

If the township trustees of Kansas had anything to say in the matter I imagine they would like to see the collection of poll taxes placed back in the hands of the county treasurer. I cannot see why the trustee should have ever been made the collector. It entails an immense amount of extra work for him. The trustee of Pleasant township used up much time and travel collecting for which he put in no bill. I believe that in some of the townships if the trustee had been obliged to collect all the tax in cash it would have cost 50 per cent of the proceeds to do so. If the townships wish to let the voters work out their poll taxes, all right; if not let them pay their \$3 to the county treasurer when they pay their other taxes and not compel the trustee to open another collection office in addition to the one run by the county. No one who has never had to chase down every man between the ages of 21 and 50 living in his township and collect a poll tax of \$3 can have any idea of the time and misery it takes to do it. The trustee is not expected to charge for this collecting but he really should have double pay; prying a poll tax out of the average man is one of the worst jobs imaginable and with a lot of them the trustee has to make three trials before he gets a cent. Let's make the county treasurer the collector of all poll taxes not worked out!

No matter what February brings us, January used us well. I have never seen a winter month which pleased me better.

On this farm we have mixed the feed. We have fed some kafir fodder, some corn fodder and at all times have kept either straw, prairie hay or alfalfa straw in the rack. All the grain the stock has had is what little corn they find in the corn fodder; this will perhaps average

a peck to the shock. The oats straw is as bright as straw can be and is even better than the prairie hay for it contains many light oats.

A Nokomis, Ill., reader who owns a farm near Ottawa asks about timothy as a hay crop in Eastern Kansas. He wishes to know if it would be advisable to sow some Red clover with it. I certainly would never sow timothy alone for hay here. Along with the timothy I should mix something like 3 pounds of Red clover seed an acre. Timothy ought to do well on most of the land in Franklin county unless it happened to be an especially light ashy field. I have seen some as fine timothy meadows here in Eastern Kansas as I have seen anywhere.

For a hay mixture on the average upland farm in Franklin county timothy probably will be about as good as anything that can be sown if it is mixed with Red clover. If it was wanted for pasture I should mix English bluegrass and timothy, half and half, and include the clover just the same. Stock prefer timothy to English bluegrass and will eat it first but the bluegrass is more hardy and will survive where timothy would perish. Chinch bugs will eat timothy, and when they are plentiful I have seen them kill the young grass. They try to eat English bluegrass and I suppose they do sap it to some extent but I never could see where they harmed it any.

Chinch bugs were plentiful here in the spring of 1910 and ate up a field of young timothy for us. We had sown this field to oats, timothy and clover, using 3 pounds of clover seed an acre. The bugs moved into the oats but evidently found the young timothy more to their taste. They cleaned that up entirely and also the young crabgrass that was growing in the oats. This left a clean field for the young clover when the oats was cut, and it came on and made a fine stand of solid clover from that 3 pounds an acre. This was on a rich, moist bottom field or the clover might not have done so well in what proved to be a dry summer. A flax field lay alongside but the bugs did not get a rod into that after the young crabgrass; they cleaned all the crabgrass out of the oats but scarcely touched it in the flax. This crop makes a good barrier to sow between small grain and the corn; bugs don't like flax and will not move thru it unless compelled to.

From Hammond, Kan., comes this inquiry, "How does English bluegrass compare with Sweet clover as a pasture crop?" I can scarcely compare them, they are of such different natures. It is evident that where stock eat Sweet clover it gives much more feed to the acre than anything else that can be grown on our Southeastern Kansas upland. I have had so many favorable reports regarding Sweet clover as pasture from reliable men that I know it must be all right if handled right. Men who raise it here for pasture say it must not be allowed to get too growthy before the stock are turned on or they will not eat it. Many say to turn on it the first thing in the spring and let them keep it eaten fairly well down and they will relish it right along. It starts before anything else and stock would get to eating it in the spring and keep on eating it that might not touch it after they had started on grass. What would be best would be to have some of both Sweet clover and English bluegrass; the bluegrass would make pasture in late summer and fall after the clover was no longer relished.

Big Reduction in Land Clearing Costs

The recent land clearing tests conducted by the University of Wisconsin have revolutionized methods and established conclusively much lower clearing costs per acre.

These tests covered the use of stump pullers and farm powder separately and in combination.

The leading kinds of stump pullers—hand and power—were represented. The dynamite used was



DU PONT

Red Cross Farm Powder

These tests proved the following important facts:

1st—The cheaper Red Cross Farm Powders will in most soils blast out stumps as well as the more expensive 30% and 40% grades.

2nd—The combined use of Red Cross Farm Powder and a stump puller is often the cheapest and best way to clear land.

3rd—Properly placed charges fired with a blasting machine greatly reduce the amount, strength and cost of the dynamite required.

4th—Present high cost of dynamite is more than offset by the improved methods developed by the University's Demonstration.

As a result the average farmer can now clear his stump covered land at less cost per acre than before the war.



Write Now for Full Information

Every farmer with stump covered land should know the full facts about this modern method of land clearing. Write today for

Land Clearing Bulletin No. 98

If you are interested in orchard planting, ditching, drainage, boulder blasting, subsoiling or post hole blasting be sure to ask for

Hand Book of Explosives No. 98

E. I. du Pont de Nemours & Co.
Wilmington - Delaware

A Thoroughly Well-built Car at \$845



A Few Elcar Specifications

Wheel Base—As long as some cars selling up to \$2,000 and more—115 in.
Motor—4-cylinder; long stroke; high speed; 34.7 h. p. at 1,800 r. p. m.
Fuel Supply—Stewart vacuum system.
Ignition—Delco automatic spark advance with manual control.
Starting and Lighting—Dyneto two-unit; double-bulb headlights; Willard storage battery.
Clutch—Dry multiple disk—seven plates, steel on Raybestos.
Rear Axle—Full-floating with roller bearings at each end of wheel hubs.
Differential—Spiral bevel driving gears, with roller main bearings and ball thrust bearings.
Brakes—Internal and external, two inches wide on 12-inch drum.

Three New Models at \$845

Five-Passenger Touring Car
Four-Passenger Touring-Roadster
Two-Passenger Roadster

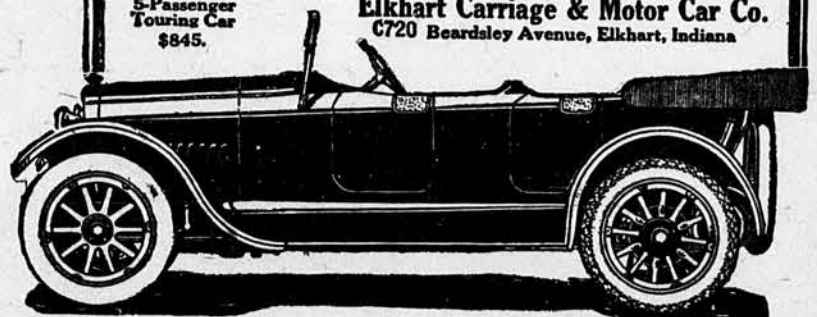
Each model is large and roomy—some would say room to spare, but you want a car that will seat its full load comfortably. Fine in appearance, fine driving and remarkably easy riding qualities, power in excess, economical in upkeep and fuel consumption, a car to give you satisfactory service for years to come—a car that we believe to be as high in quality and as nearly mechanically perfect as any car ever offered at anywhere near as low a price.

Our Illustrated Catalog

will show you views of all the ELCAR models and the more important mechanical parts, and is descriptive even to the minute details of construction. We will gladly mail it to you upon request.

5-Passenger
Touring Car
\$845.

Elkhart Carriage & Motor Car Co.
6720 Beardsley Avenue, Elkhart, Indiana





"The Peace Offering"

"I know what will change mother's mind"

—nothing has solved household problems like Calumet Baking Powder. It has brought happiness into millions of homes—made expert cooks of millions of housewives who never had much bake day "luck." Its unequalled leavening and raising powers mean big, tempting bakings. The never-varying quality of its wonderful ingredients means the same good results every bake day. Calumet saves you money because it's moderate in price, goes farthest, eliminates failures and waste. It's pure in the can—pure in the baking—and the favorite in millions of homes.

Received Highest Awards

New Cook Book Free—See Slip in Pound Can.



Daylight at Night

on the farm with the best and most economical light in the world, the

Coleman GAS LANTERN

Gives strong, 800 candle power light without flicker. No Dirt, No Smoke, No Grease, No Soot. No wicks to trim—no globes to wash. Nothing to get out of order. More powerful than 20 ordinary lanterns, and only a tenth the cost of kerosene lighting.

A Fool Proof Light

Can't be filled while burning. Can't spill—Can't explode. Absolutely safe anywhere. No danger if rolled around in straw. Won't blow out. Can't be jarred out. Nothing to break or get out of order.

Makes and Burns Its Own Gas

Guaranteed Five Years. Lasts a lifetime. Awarded The Gold Medal at San Francisco. Ask your dealer, or if not for sale in your town, write for new catalog.

THE COLEMAN LAMP CO.
321 No. St. Francis Ave., Wichita, Kansas.
St. Paul, Toledo, Dallas, Chicago.



4 Empire STEEL Wheels 75c

that's the cost per year on basis of service. They last 20 to 25 years. Average cost \$13. Save labor, time, horses, roads, money. Put a set on your wagon at our risk. Write for catalog and prices.

Empire Mfg. Co., Box 975, Quincy, Ill.

How to get 5 Gallons Free of Oil Free
Write
PROGRESSIVE OIL COMPANY,
TOPEKA, KANSAS

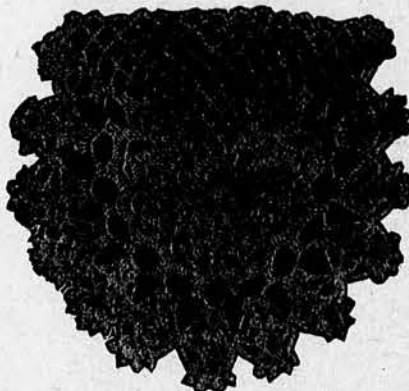
Trimming for a Piano Scarf

This medallion may be adapted in many ways by the ingenious worker. Four or five placed at each end of a length of linen form a beautiful piano or dresser scarf, while others placed around a circle of linen make an elaborate centerpiece. Begin with a chain of 10 stitches and join, then ch 3 and make 32 double crochets (d c, thread over hook once) in the ring.

2nd row—Ch 5, miss 2 d c and catch into the next with a single crochet (s c), repeat twice, then ch 5 and (miss 2 d c, then 2 d c into next two, ch 2) 6 times.

3rd row—(Ch 5, catch in center of next ch 5) 3 times, (ch 5, 3 d c in ch 2, ch 2, 3 d c in same place) 8 times.

4th row—(Ch 5, catch in center of next



ch 5) 3 times, and finish out row same as the 3rd row.

5th row—(Ch 5, catch in ch 5) 4 times, finish as in the two preceding rows.

6th row—(Ch 5, catch in ch 5) 5 times. Finish out row with (ch 5, catch with s c in ch 2, ch 5, catch with s c in middle of ch 5) 8 times.

7th row—(Ch 5, catch in ch 5) 6 times, (9 d c in ch 5) 14 times.

8th row—(Ch 5, catch in ch 5) 7 times, (ch 5, miss 3 d c, then 3 d c in next 3 d c) 14 times.

9th row—(Ch 5, catch in ch 5) 8 times, ch 5, (3 d c in ch 5, ch 3, 3 more d c in same place, ch 8) 13 times.

10th row—(Ch 5, catch in ch 5) 9 times, ch 5, (3 d c in ch 2, ch 2, 3 more d c in same place, ch 8) 13 times.

11th row—(Ch 5, catch in ch 5) 10 times and continue on around as in the preceding row.

12th row—(Ch 5, catch in ch 5) 11 times, ch 5, (* 2 d c in ch 2, picot of ch 3 and catch in 1st st of ch, repeat from * 4 times, ch 4, catch over all three chains of 8 with a s c, ch 4) 13 times.

Mrs. Ray Ellsworth.

Jewell Co., Kansas

A Winter's Walk

Across the snowy, wind-swept hills
I find the old-time way
To where my woods, all dark and still,
Await me day by day.

Alone, with reverent feet, I walk
These quiet woodland ways;
Yet not alone, for all around
Are ghosts of other days.

I catch thru shadows cool and deep
The gleam of flashing wings;
I hear the sweet, insistent prayer
Of soft, green, growing things.

Thru naked, frozen boughs I hear
The April breezes blow;
I feel the pulse of new, strong life
Throb upward thru the snow.

Straightway the leaden day grows bright;
The old glad truth is mine:
There is no death, and life awaits
Brown wings and sleeping vine.

A deeper faith and clearer view
Are mine, O woodland ways!
Content, I wait the bud and bloom
You give with April days.

—Florence Jones Hadley, Minneapolis Journal.

A Valentine Dessert

Charlotte russe in heart cases is a pretty and appropriate dessert for a valentine dinner or for an evening party. Make a sponge cake or any plain white cake and bake it in rather a thick layer. Cut the cake into heart shaped pieces with a rather large cookie cutter. If one does not have the cutter, it can be made by the tinner at the hardware store at small expense. Scoop out the center of the hearts and place the shells on large plates. The small pieces of cake may be made into a pudding for the next day.

For the filling, soak ½ box of gelatin in ¼ cup of cold water until it swells, then pour over it ¾ cup of boiling water to dissolve it. Add ¾ cup of sugar, stirring until dissolved, then set the bowl in a cold place until the gelatin begins to stiffen. Beat with an egg beater

until the gelatin is light and spongy, then add 1 cup of cream whipped stiffly, 1½ teaspoons of vanilla and beat until the mixture is well blended. Color pink with fruit colorings and heap a spoonful of the filling into the heart cases, then set them in a cold place to stiffen. If desired, a spoonful of sweetened and flavored whipped cream may be placed on top of every heart just before serving. One may use strawberry or red raspberry preserves instead of vanilla for flavoring. This dish, with coffee and pink and white candies, is all that one need serve for evening refreshments.

Watch Your Words

The girl who desires self improvement—and every normal girl should—will do well to train herself into habits of purity of speech. A faultlessly attired and beautiful young woman recently was heard to say, "I'll bet a dollar the train has pulled out." The gentleman whose temporary admiration she had won lost interest in her after hearing that remark and probably the young woman never knew why. A girl with no beauty of face would have won esteem by saying, instead, "I think the train has gone." One cannot think of a more inelegant phrase than the much-used, meaningless "I'll bet." The elimination of this phrase from her conversation is sorely needed by many a girl.

A teacher having in her charge a plain but exceedingly bright little girl 10 years old wished to say something complimentary about her pupil and remarked that she was "cute," thus revealing a sad dearth of words on the part of the teacher. A good stock of words for daily use is a necessity and may be acquired by anyone who reads and makes frequent use of the dictionary. It is a good plan after learning a new word to compel oneself to use it three times. After that it may be used with entire naturalness. Thus, little by little, the treasury of beautiful and well chosen words expands. No girl is too busy to keep one good book on hand, even tho she may be able to read but a few paragraphs daily. There is no achievement so well worth while as knowing a few of the world's best books.

When asked the difference between a woman and a lady, someone once said, "A lady is a woman in a high state of civilization." The young girl who wishes to become a lady in the true sense of the word does not say, "I'm up against it," "Say, kid," "Bet your life," and other slang phrases nor does she exclaim "Goodnight!" on every possible and impossible occasion. Girls should avoid falling into careless modes of speech. Purity of diction requires the omission of all slang and superfluous phrases.

Pearl Chenoweth.

Decatur Co., Kansas.

Here's a New Rompers Pattern

Rompers are the ideal play garment for small children. The model shown here has a two-piece bloomer section



gathered at the sides and joined to the waist, which is cut in slip-over style and buttons at the shoulders. Neck and sleeves are finished with braid or bound with contrasting material. The pattern No. 8144 is cut in sizes ½, 1, 2 and 3 years. It may be ordered from the Pattern Department of the Farmers Mail and Breeze, Topeka, Kan. Price 10 cents.



Pale Girls and Frail Women

suffer discomfort—are languid, fretful and nervous, because their blood is thin or insufficient, but if those so afflicted could fully realize the wonderful blood-making properties of SCOTT'S EMULSION they would not deprive themselves of its benefits.

Nourishment alone—not drugs or alcohol—makes blood—and Scott's Emulsion is the essence of medical nourishment free from wines, alcohols or opiates.

SCOTT'S EMULSION after meals fills hollow cheeks, overcomes languor and makes tranquil nerves.

Refuse Substitutes.

13-109

SCOTT & BOWNE, BLOOMFIELD, N. J.

SIX ELEGANT LACE CURTAINS FREE TO LADIES

Send no money. Simply name and address. We will send you, postpaid, 12 boxes of our famous White Cloverine Salve, also 12 beautiful Art Pictures, 16x20 in. Sell the Cloverine at 25c, each and give one beautiful picture free with each box. Return us \$3 collected and we will immediately send you six (three pairs) beautiful Nottingham Lace Curtains nearly three yards long. You will be proud of them. Everyone buys after you show pictures—stores usually charge \$1 each for them. A doctor discovered "Cloverine." Millions using it for Cuts, Eczema, Piles, Colds, Catarrh. Write to-day.

The Wilson Chemical Co.
Curtain Dept. No. 734, TYRONE, PA.



Utah Lands

are among the choicest in the West. You can buy rich, productive, irrigated or non-irrigated, lands at moderate prices, and on good terms, that are within easy reach of excellent markets.

Tell me for what purpose you desire the land, and I will send to you authentic information absolutely FREE.

R. A. SMITH, Colonization & Industrial Agent,
Union Pacific System
Room 1060, U. P. Bldg., Omaha, Neb.



Vegetable Garden Free

It is none too early to commence to plan your vegetable garden for the coming season. If you have a piece of land that makes it possible for you to have a garden of any sort it is your duty to get busy and make that land yield something. We will help you with your garden and will furnish you the seed on an unusually liberal plan.

Only One Collection To a Person

This is the best assortment of garden seeds ever offered. Choice, tested seeds, true and tried varieties, and warranted fresh, and reliable. This assortment contains all the standard garden vegetables, such as Melons, Onions, Cabbage, Radishes, Lettuce, Turnips, Beets, etc.

Special Offer to Our Readers

We have purchased a large quantity of these vegetable seed assortments to give to our readers as a premium with a subscription. The seeds are packed in envelopes and will be sent free to all who send 50 cents to pay for a one year subscription to Capper's Weekly. New or renewal subscriptions accepted on this offer. Address

CAPPER'S WEEKLY, Seed Dept. 4, TOPEKA, KAN.

Capper's Weekly, Seed Dept. 4, Topeka, Kan. Enclosed find 50 cents for which enter my subscription to Capper's Weekly for the term of one year and send me the vegetable seed assortment free as per your offer.

Name.....

Address.....

Let's Try Parlor Gardening

Pleasant Evenings can be Spent with New Seed Catalogs

BY MARY CATHERINE WILLIAMS

NANCY LEIGH is making garden. Not outdoors, of course. Right in her own living room these long evenings when the supper dishes are out of the way and the big reading lamp is lit and the curtains pulled down and everything warm and cozy. Her tools are half a dozen seed catalogs, a pencil and paper and a big ruler. It isn't as good exercise as real gardening, perhaps but Nancy says it's much easier on her complexion and it's lots of fun besides.

I like gardening Nancy Leigh's way. First she and Jim and the children go thru the catalogs and make a list of everything they would like to plant, and it's queer how long that list is. Everything in those catalogs is alluring, even to parsnips and Swiss chard, tho you may know perfectly well you loathe parsnips when they are cooked and couldn't tell Swiss chard from ruta bagas



if you met them side by side at the fair. It is something like the circus posters we used to see when we were children, Nancy says. Every vegetable and every flower is the most stupendous and wonderful of its class and you see yourself going to your garden and bringing in great big, beautiful tomatoes and heads of cabbage and watermelons and all that as perfect as the catalog pictures and forget all about the bugs and worms and drouths and chickens that work together for evil to them that love a garden, just as we children looked at the wonders on the show posters and never once dreamed that the beautiful ladies were painted and wore soiled dresses and the bears and lions were moth eaten.

Enlarging Your Eating Acquaintance.

The list has to be cut down, of course, for Nancy Leigh isn't silly enough to put out more garden than they can take care of. She wishes her children to love gardening instead of thinking of it as drudgery. The men do the hardest work, and that is only fair when they eat so many creamed new peas and buttered beets and sliced tomatoes. She chooses varieties she has grown and found good, and then every year they try one new kind of vegetable and enlarge their eating acquaintance, as Nancy says. I think that is a fine idea. When I was a girl on the farm I didn't know there were any vegetables except peas and beans and radishes and lettuce and tomatoes and cabbage and maybe a few others, and it makes me feel ashamed every time I think that I had to go to town before I learned salsify and cauliflower and spinach and sweet peppers and egg plant and kohlrabi and head lettuce and lots of others we might have grown at home just as well as not.

But what's the ruler for? Just wait and I'll tell you. I can't say everything at once. It's to draw the garden plan and make the rows straight. Nancy Leigh's garden is all laid off on paper before the seeds are ordered and she knows just how long a row of everything she wants and how many seed it will take. The children think it's a good game to do the figuring for her and lots better than sums in arithmetic.

And, I mustn't forget about Nancy's flowers. Nancy wouldn't be Nancy without them. She says beauty is as necessary as air and there is no sense in anybody's trying to get along without it when it is so cheap. A busy woman cannot take time for much fussing around with flowers, tho a few minutes spent with them every day are better than a doctor's tonic, so she plants

mostly hardy shrubs and perennials that require little or no care after they have gotten their start. There are any number of these, you know—lilacs and spirea and snowballs and roses and lovely purple iris and peonies and vines like wistaria and clematis and honeysuckle—and it is a fascinating study to look thru the catalogs and learn the colors of the blooms and the time of year they come and how high the plants grow so that you can plan a succession of flowers from April to October and group them together without one's overshadowing the other or colors clashing. It's as bad to have poor color combinations in growing flowers as in dresses, Nancy says.

The Farm "Show Window."

Nancy Leigh has lots of flowers in her yard but it doesn't seem crowded and cluttered up as some I've seen do, for she doesn't put any beds in the front lawn. The few she has for pansies and nasturtiums and verbenas and big double zinnias the children like to plant every year are back of the house where she can see them from the kitchen window. The shrubs and iris and peonies are in irregular rows down either side of the fence and clustered in little clumps up against the house. There is nothing but a tree or two to break the sweep of grass in front of the house and you've no idea how beautiful and restful it is. Nancy says she read somewhere that the front yard is a farmer's show window and the way it is kept up indicates how good a farmer he is and how he is prospering and interests people in his business. They have worked out a careful plan for their "show window" and add a tree or a bush or two every season so that it won't cost so much all at once. It has paid, too, for Nancy says persons who drive by stop to look at her flowers and then notice the bulletin board with her advertisement of purebred chickens and eggs or Jim's seed corn and Jim has been offered more for the place than any other farm in the neighborhood will bring.

Save Your Complexion

Please ask those interested in the Women's page to send in some recipes for making toilet soap out of tallow. MRS. E. R. Republic Co., Kansas.

Making toilet soap at home is poor economy, for a woman's complexion is of far greater value to her than the dollar or two a year she might save. Soap made at home from grease that accumulates after butchering is excellent for dish washing, cleaning and laundry work but it is too likely to contain free alkali to be used on the face.

A clear, soft smooth skin is one of a woman's chief attractions and it is well worth her while to try to protect it. Looking one's best and prettiest is not vanity but a duty owed to one's family. Use only toilet soaps known to be pure. Uncolored ones are better than the colored. Beauty experts say that a woman should wash her face in hot water with pure soap every night, holding a hot washcloth to the skin a moment to soften it and let the dirt come out of the pores. Rinse the soap off thoroughly and dash cold water on the pores to contract them, then wipe dry with a soft towel. Unless a skin is very oily, soap need not be used but once a day.

Two or three times a week, apply a good cold cream to the face rubbing with a rotary motion for 5 minutes. Then wipe the cream thoroughly out of the pores with a soft cloth, wash the face as directed before and apply witch-hazel to contract the pores. This treatment will not encourage the growth of hair as will cold creams rubbed in and left on for several hours or over night. A pure face powder—not talcum—rubbed into the skin well is a protection against wind and sun and keeps the complexion in good condition. If it is washed out every night it cannot possibly harm the skin. Before going for a long drive in the wind, it is an excellent plan to rub a little greaseless cream lightly on the face, then powder it well. Give it the cold cream treatment after you return so that all dust may be removed. If farm women would follow these directions faithfully they would have no cause to envy the complexions of their city friends.

Better Cake and Biscuits

In all recipes calling for baking powder you will get better and finer food and insure its healthfulness by using baking powder made from cream of tartar, such as Royal or Dr. Price's.

Cream of tartar is derived from grapes—a natural food, as contrasted with phosphate or alum, derived from mineral sources, and used because of their cheapness in the manufacture of some baking powders.

Housewives are sometimes led to use inferior baking powders because of apparent lower cost, but there is little difference in cost in practical use—about one cent for a whole cake or pan of biscuits, which is very little when you consider the difference in quality and healthfulness.

Driver Agents Wanted

Ride in a Bush Car. Pay for it out of your commissions on sales, my agents are making money. Shipments Five-Pass., 30 H. P. \$228½ tires Cars guaranteed or money back.

Write at once for my 48-page catalog and all particulars. Address: J. H. Bush, Pres. Dept. 2-U, BUSH MOTOR COMPANY, Bush Temple, Chicago, Illinois.



ACORN UNI-LITE

Turns night into day. 800 candle power. FREE

Carry as a lantern; use anywhere as a lamp. Weather proof. For house, barn, garage, camp and around the farm. Write for big, free offer. Special opportunity to farmers, stockmen and motorists. Agents make big money. Write tonight for new 1916-1917 offer. ACORN BRASS MFG. CO., 214 Uni-Lite Bldg., Chicago.

Millwork FOR NEW OR REPAIR WORK. SAVE MONEY. WRITE FOR PRICES.

TRADE HERE IN THE CHEAPEST MARKET

JOHN M. SMYTH MDSE. CO'S. STORE IN CHICAGO

ROOFING ALL KINDS. LOW PRICES. BEST QUALITY. WRITE FOR CATALOG.

WRITE FOR A CATALOG of any goods you are interested in and SAVE A LOT OF MONEY by buying them at wholesale prices. We have what you want even though not shown here for WE SELL EVERYTHING.

Sugar Prices Down

Write for our FREE GROCERY CATALOG giving sale prices on groceries, and provisions of all kinds. Read our great offer to sell you 25 lbs. of cane granulated sugar at \$1.10, 50 lbs. \$2.20, 100 lbs. \$3.80, 100 lbs. \$4.40. No orders accepted at these prices until you receive and read our offer. So send for free grocery catalog.

SMYTH'S HOMES \$876.66

Buy all Material, Hardware, Paint, etc., for this big 7-room house. Send for our FREE Book of House Plans, showing about 100 designs of buildings at \$29.00 up. Beautifully colored and half-tone pictures, full description of material, actual mill prices, specifications, shows plans and explains in detail about everything. Get this book for information and reference and post yourself.

\$3.92 SMYTH'S 60 EGG ALL STEEL INCUBATOR

SEND \$1.00 deposit and we will send you this big, latest improved SMYTH'S 60 egg incubator by freight, subject to examination. Pay balance \$2.92 and freight charges to get it. If you find the incubator perfect, return it at our expense and we will return your \$3.92 and freight charges. If you want the incubator sent by Parcel Post send \$3.92 and enough money extra to pay the parcel post postage and we'll send on same liberal trial offer as above. Shipping weight 19 pounds. IT'S MADE OF polished steel, with double walled through glass damper, heat safety metal lamp, HEAT DISTRIBUTING DRUM insuring even temperature and moisture in every part of egg chamber and proper heat to eggs all the time. Full directions with each incubator. Guaranteed to hatch as large a per cent of strong, healthy chicks as any incubator made, regardless of name, make or price. We make very low prices on larger incubators, brooders and poultry supplies of all kinds in our Big Free Incubator Catalog sent you free upon request. Order incubator or catalog today.

SPORTING GOODS CATALOG

WRITE FOR IT. A catalog of low prices for firearms, ammunition, fishing tackle, game traps, nets, seines, boxing gloves, striking bags, hunters' clothing, and sportsmen's goods of all kinds. Best quality, wholesale prices. Save money. Get catalog sure.

FARMERS—GET THIS BOOK

Shows in color complete line of latest 1917 farm implements. A complete heat grade; from a trial, cheap prices. Walking plows \$29.00 up, a 14 ft. plows \$39.50, barbed wire, best of everything. Write now.

SAVE MONEY ON HARNESS

Single Harness \$6.25 up. Double Harness \$12.40 up. Every kind and make of harness, saddles and horse goods just as low priced. Guaranteed best quality or money back. Write for Harness Catalog.

ON 10 DAYS FREE TRIAL

Write today for our Free Bicycle Catalog, and read the descriptions and see the pictures in colors of our high grade Bicycles at a saving of \$10.00 to \$18.00. 10 DAYS FREE TRIAL. Guaranteed 2 to 6 years. New, nifty models. Very low prices on auto, motorcycle and bicycle tires and accessories. Special low prices on FORD AUTO ATTACHMENTS and parts.

\$21.95—60 DAYS FREE TRIAL

NEW LOW 1917 PRICES—only \$21.95 now for a long time guaranteed gasolene engine. Proportionately low prices on life time. Guaranteed. Fuelless, hopper cooled 1-2-4, 2-2-4, 4-1-2, 6-8, 12 and up to 60 H. P. Engines. No better engines. Powerful, strong, simple. Easy to run. Don't buy until you write for our great special Free Gasolene Engine Catalog and read our wonder 60 DAY FREE TRIAL WITHOUT MONEY to us in advance offer. Buy from headquarters.

VEHICLES DOWN 1

Top Buggies \$25 up. Runabouts \$30 up. Surreys \$65 up—every other make and style vehicle just as cheap priced. Best of everything, guaranteed 2 years, 50 days free trial; no money to us in advance. Write for Free Vehicle Catalog and convince yourself that we beat them all.

SMYTH'S \$29.95

BEST 30 Days Free Trial. NO MONEY IN ADVANCE. Your bank holds it. Write for Free Separator Catalog and read our wonderful offer. Pictures in colors of all "Smith's Best" Separators at \$29.95. No better separators at any price. Latest 1917 improved. Easy running; close skimming; easy cleaning. Get Catalog and see for yourself.

ON 60 DAYS FREE TRIAL

Write for Free Separator Catalog and read our wonderful offer. Pictures in colors of all "Smith's Best" Separators at \$29.95. No better separators at any price. Latest 1917 improved. Easy running; close skimming; easy cleaning. Get Catalog and see for yourself.

57¢ PAPERS A BIG ROOM

Think—57¢ for enough beautiful 4 color bronzed side wall, ceiling and border to paper a big room. Write today for samples of wall paper and see this dandy paper. Also, our exquisite 1917 papers, consisting of plain and rich, heavily embossed gold, leather, tiffany, silk and cretonne effects at 6¢ to 40¢ a double roll of 16 yds. Finest varnished tiles. 66¢ a double roll. Everything in wall coverings just as cheap. Write now for samples and see.

ADDRESS ALL RE-PLIES TO ABOVE ADV. JOHN M. SMYTH MDSE. CO. 703-730 W. WASHINGTON BLVD. CHICAGO, ILL.



"HIS MASTER'S VOICE"
REG. U.S. PAT. OFF.

This intensely human picture stands for all that is best in music

It is a picture with a message—a living message of absolute fidelity. "His Master's Voice" is inseparably associated with the highest attainments in the musical art; with the exquisite renditions of the world's greatest artists; with the world's best music in the home.

It is the exclusive trademark of the Victor Company. It identifies every genuine Victrola and Victor Record.

There are Victor dealers everywhere, and they will gladly demonstrate the different styles of the Victor and Victrola—\$10 to \$400—and play any music you wish to hear. Write to us for the handsome illustrated Victor catalogs, and name and address of nearest Victor dealer.

Victor Talking Machine Co., Camden, N. J., U. S. A.

Important warning. Victor Records can be safely and satisfactorily played only with Victor Needles or Tungs-tone Stylus on Victors or Victrolas. Victor Records cannot be safely played on machines with 'eweled or other reproducing points.

New Victor Records demonstrated at all dealers on the 28th of each month

Victrola

TRACTOR SHOW!

Second Annual Exhibit

Union Station Plaza
Kansas City, February 12th to 17th

Greatest display ever made. Seventy different models of Tractors; Tractor attachments for Automobiles, Power Cultivators, Power-Lift Plows, Special Binder Hitches and all kinds of new power-lift machinery. Beautiful decorations. Fine Orchestra. Show given under direction of the Kansas City Tractor Club.

SAME WEEK AS AUTOMOBILE SHOW
Come and Select Your Tractor During This Show.

YOU CAN SELL IT

through the advertising columns of Farmers Mail and Breeze. You read the advertisements of others. Others will read yours. If you have purebred poultry for sale, a few hogs or dairy cows, a piece of land, seed corn, or almost anything farmers buy, it will pay you to tell about it through our advertising columns, either classified or display. The circulation of Farmers Mail and Breeze is 105,000 copies each issue. The cost of reaching all these subscribers and their families is very small. If it pays other farmers in your state to advertise with us, will it not pay you? Many of the largest, most experienced advertisers in the country use our columns year after year. It pays them or they wouldn't do it. Others in your own state are building a growing, profitable business by using our columns in season year after year. Why not you? If you don't know the rates, address Farmers Mail and Breeze, Topeka, Kansas.

Glass Doors Give Light

BY MRS. DORA L. THOMPSON
Jefferson County

One simple house improvement has made sewing an easier task than it used to be in the dark days of past winters. We have changed a solid wooden door for one containing a large glass panel. The change in the lighting of the room is certainly noticeable. Porches are desirable, especially in summer. In many farm houses, however, the porch roof has such a narrow width or such a decided drop that the windows and doors are largely shaded. Such was the case here. It does not pay to live in darkness when a few dollars spent for a glass door will give the needed light. Our door cost a few cents more than \$6. Part of the cost was freight that in many instances could be avoided.

The wall board has come for two of the unplastered upstairs rooms. This may not, in the long run, be so satisfactory as plaster would be but it surely will not cause much muss when it is put on. Plaster, we know, has a way of penetrating to every corner of the house. The wall board was ordered when it was selling for \$19.50 a thousand feet. Before the order was filled the price was a dollar a thousand higher. Since then, we are told it is \$6 or \$7 higher. The wall board we have bought is 7-ply making it about 1/4 inch thick. It is natural gray color, 32 inches wide. We shall have considerable sawing to do in order that all niches and corners may be fitted. It is said that a putty coat may be placed over this wall board and a smooth finished wall made. For papering a crack filler or tape cover is advertised.

There are many chests, boxes, clothes containers and the like pictured in magazines. These articles are usually found on pages showing what a handy man can do about the house. The average farmer is handy enough with hammer and saw but he is usually ready for a rainy, stormy day with tool fixing, harness mending or a dozen other tasks that have little to do with beautifying the house. Most farm women, however, have a set of tools, more or less complete, sometimes under lock and key. The wall board material is none too heavy for a woman to use in her manual training experiments. If any need clothes hampers, we recommend they try what they can do with it.

A letter came the other day telling about a room a friend has fitted up for her two sons 8 and 3 years old. She said she has put a stove in the room, the result of her efforts is the freedom of the lower floor from toys and tools. The boys are spending most of their indoor playtime in their own room. Another boy of about the same age has his own room with desk, book shelf and places for all his school belongings from the football to the usual books. Much of the trouble that many mothers have in getting school children to keep their belongings out of the way is due to the fact that the children have no good place for them.

Most Northern farmers are able to keep sausage fresh a long time. It makes an excellent dish to use with buckwheat cakes. When the crock of sausage with its coat of lard is in danger of spoiling, the usual way of avoiding trouble is to mould the sausage into patties, fry thoroly on top of the stove or in the oven, and then cover with melted lard. Another scheme that has been found more satisfactory involves a little more work. When the fresh sausage is ground, it is forced thru a sausage stuffer into casings. These casings may be made of muslin, but it is economy to buy them at a meat market. The strings of casings with their sausage filling are hung in the smoke house and smoked with the meat. The smoked product is often placed in a jar and kept in a weak brine. We do not think it a good plan to keep this sausage late in the summer. If used during the early part of the season, however, it is much to be preferred to any packing house product.

Sprinkle clothes with warm water. It penetrates more quickly than cold, so that the clothes will be ready for ironing sooner.

A flash of lightning lights up the ground for one-millionth of a second, yet it seems to last much longer.

Mr. Edison's Wonderful Phonograph

Only **\$1.00** After **Free Trial**

Yes, you may keep this New Edison Thomas A. Edison's great phonograph with the diamond stylus—and your choice of records, too, for only \$1. Pay the balance at rate of only a few cents a day. Try the New Edison in your own home before you decide to buy. Send no money down. Entertain your friends with your favorite records.

Write Today For Our New Edison Book. Send your name and address for our new book and pictures of the New Edison phonographs. No obligations. **F. K. BABSON, Edison Phonograph Distributor, 4662 Edison Block, Chicago, Illinois**

Buttons Stay On

Save money by wearing work clothes that last longer—

FITZ OVERALLS

are tailored from pure indigo blue denim. They don't rip, split or lose buttons. Wear like whang leather. 66 size, including your exact measure. Buy from your dealer—if he runs short he can fill your order within 24 hours by notifying **BURNHAM-BUNGER-ROOT, Kansas City, Missouri.**

Ditching and Terracing

Made Easy—Bigger crops—better farms with **Marine Farm Ditcher & Road Grader**

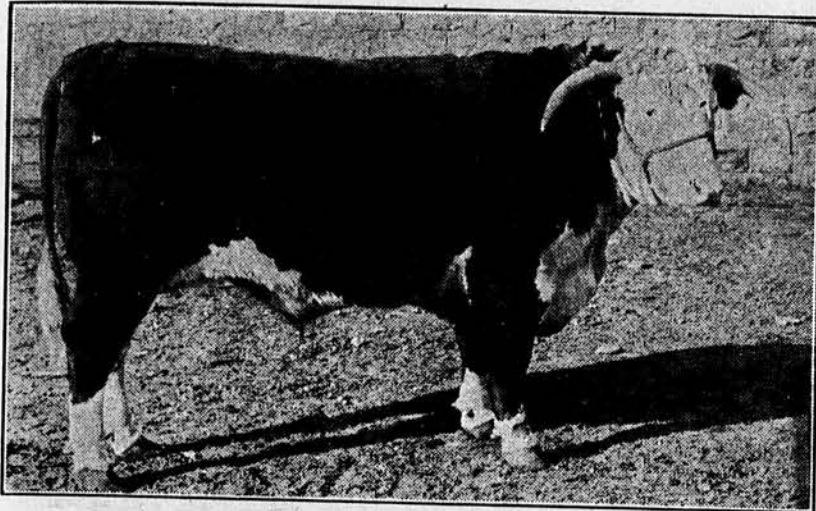
10 days' trial. Money-back guarantee. All Steel—Practical—Adjustable—Reversible. Cleans ditches, cuts and works out dirt at same time. Does work of big machines. Soon pays for itself. Write for free booklet and introductory proposition. **Greenboro Ditcher & Grader Co., Inc., Box 140, Greenboro, Ky.**

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

Farm Pictures Have a Value

Photography is Taught at the Kansas State Agricultural College

BY N. A. CRAWFORD



IF A MAN wishes to sell or trade his farm or to dispose of purebred livestock, there's nothing like a photograph to make the prospective buyer say, "Well, that's just what I've been looking for." And right away he's ready to write out a check or buy a money order.

Photographs clinch selling talk, and Kansas State Agricultural College authorities, believing a farmer ought to be a salesman, a business man, as well as a producer, teach the prospective farmers how to take, develop and print pictures.

The Kansas institution was the first agricultural college to offer work in photography. Since the subject was first taught there, in 1908, nearly every other well known agricultural college and many of the universities have followed its lead.

As a result of the instruction at Manhattan, hundreds of graduates of the college are using cameras for business and scientific purposes, both in agriculture and in other lines of activity. Besides, a number of students after taking the work have been enabled to earn a good share of their college expenses by developing and printing pictures for others. Of course, the number of students in photography is limited. The college has never had laboratory space to accommodate all who wanted to study the subject, and so it has had a waiting list, sometimes as long as the class roll itself.

Nevertheless, the man or woman who travels about over Kansas and other states and meets the old boys and girls from Manhattan, sees that photography is playing a big part in their work and pleasure. Here is a farmer who not only illustrates his purebred stock catalog with photographs of his own making but sends out special prints to prospective purchasers. Another man, on the staff of a farm journal, is illustrating the articles he writes. An architect uses photographs to record the progress of his buildings, while a civil engineer employs the camera to show contours. A government investigator in agriculture takes many photographs in connection with his experiments. A teacher makes lantern slides for his classes. Many a young woman graduate of the college is decorating her home

with enlargements of some of the artistic pictures she has taken.

J. O. Hamilton, professor of physics, teaches photography, calling in professional photographers for discussions of some phases of the subject. Photography, in its scientific aspect, consists in applying the principles of physics and chemistry. The course is taught, however, in such a way that the students get a knowledge also of lighting, composition, and the other points that largely make the difference between a good and a poor picture. Every photographic operation—exposure, developing, printing, enlarging, making lantern slides—is taken up.

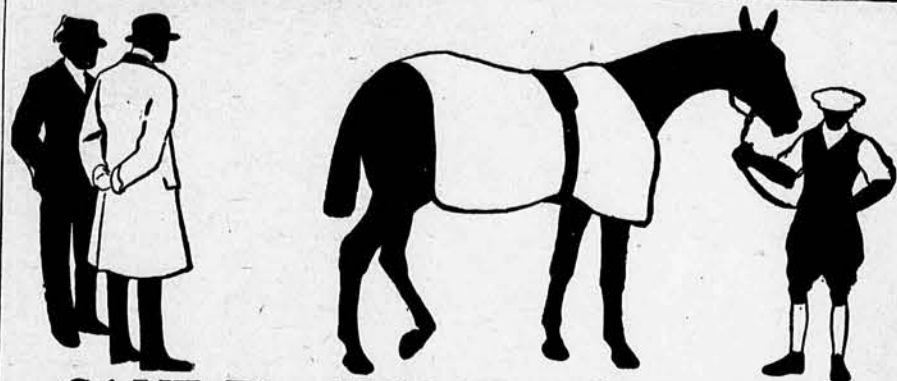
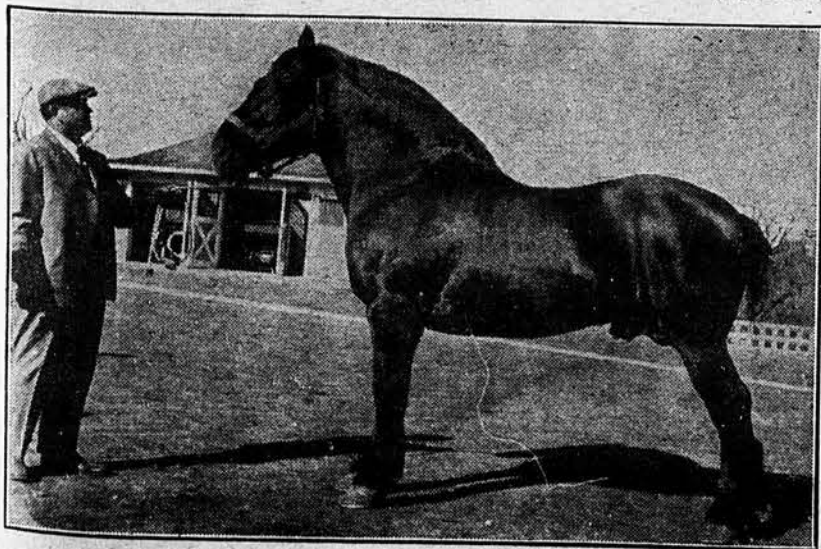
Delicious Apples Succeed

We bought several Delicious apple trees seven years ago. We have found that this is a superior variety. This tree is hardy and vigorous, and is well adapted to most Kansas farms. It deserves to be considered carefully by every man who is thinking of setting out an orchard. J. D. Shepherd. Clay County.

Diaries for Farm Accounts

A number of ways in which farmers may use a diary in keeping accounts of their farm business are suggested in a new Farmers' Bulletin, No. 782, which may be obtained from the United States Department of Agriculture, Washington, D. C. Many successful farmers, it is said, have found that a diary is sufficient to enable them to keep track of their affairs without compelling them to devote an undue amount of time to elaborate accounts. There are two classes of records, in which farmers are particularly interested: (1) receipts and expenditures; and (2) the records of work and production, such as the dates of planting and of harvesting, crop yields, and livestock feed. In many cases the diary has been found to be the most convenient means of keeping these records. The new bulletin contains several blank forms and other information in regard to the use of the diary in this connection.

A harness plus harness oil plus elbow grease makes the winter day profitable.



SAVE-The-HORSE Will Cure It!

OVER 200,000 cases of lameness successfully treated with **Save-The-Horse**. It is a by-word now among noted horsemen and breeders that **Save-The-Horse** is a prompt-acting, sure-cure remedy for Ringbone—Thoropin—SPAVIN or Any Shoulder, Knee, Ankle, Hoof, or Tendon Disease, no matter how old, serious or complicated.

NO BLISTERING. HORSE WORKS AS USUAL.

That is why we sell **Save-The-Horse** with Signed Contract-Bond to return money if remedy fails. Write for copy of this contract and unquestioned proof.

Our FREE 96-page BOOK makes it possible for you to diagnose and treat cases, and our free expert veterinary's advice is here to help you if you are not sure.

Don't run the risk of having horse laid up when you most need him. Keep a bottle of **Save-The-Horse** on hand, and be prepared for any emergency. Write today for copy of Contract, BOOK and Advice—all FREE. Be prepared!

TROY CHEMICAL COMPANY, 15 Commerce Ave., Binghamton, N. Y.

Druggists Everywhere sell **Save-The-Horse** with CONTRACT, or we send by Parcel Post or Express Paid.



"I built my reputation as a manufacturer on good manure spreaders."—WM. GALLOWAY.

JUDGE SPREADERS BY THIS NO. 8

Compare big, clumsy, ponderous, old-fashioned spreaders, which sell for more money, to this modern, down-to-date, patent covered Galloway 1917 Model low down No. 8 spreader (or to its popular No. 1A and No. 5 machines) with its double chain drive, roller feed, endless apron, and, above all, its light draft, and it will prove to you that its down-to-the-minute scientific construction, patented, exclusive improvements and features put it in a class by itself! And remember that it is sold to you guaranteed to give you satisfaction by Galloway himself—that it is not a horse-killer, that it does the same amount of spreading with two horses that others do with three and even four, and that the Galloway takes less actual horse power than any other so-called two-horse spreader on the market. My book tells the whole story. I want you to get it.

BACKED BY A \$25,000 BOND which absolutely proves that I will do what I say I will. I want you to try a Galloway spreader. I take all the risk. I want you to fully investigate every claim I make about Galloway spreaders, because I built them so good right here in Waterloo in MY OWN CHAIN OF FACTORIES and sell them on



SIX SELLING PLANS cash or time, that themselves will back up every statement I make. Pay for this spreader on your terms. Buy for it now—use it all winter and spring. Pay for it next fall. Complete particulars of these six easy selling plans in my new book which tells all about engines, spreaders, separators, tractors, farm implements.

GET THIS BOOK NOW! It tells the whole story. It tells the secrets and facts about manure formation on the handling of the manure drop on the farm. Remember we are MANURE SPREADER MANUFACTURING SPECIALISTS. The new 1917 book tells the whole story. A postal gets it. Ask for it today.

WM. GALLOWAY, Pres., WM. GALLOWAY COMPANY
Manure Spreader Manufacturing Specialists
49 Galloway Station
WATERLOO, IOWA

GROW BIGGER CROPS than ever in 1917. My book tells how to increase your corn crop, increase your wheat crop, increase your small grain crop, and by the judicious use of the manure drop on your farm add money to your bank account next fall that you otherwise would not get. You can increase your corn crop from 15 to 25 bu. per acre with the Galloway spreader. My book will tell you how a Galloway spreader will pay for itself in ONE YEAR BY INCREASING CROP PROFITS. Remember I give you



THIRTY DAYS' FIELD TRIAL and save you from \$25 to \$50 on a modern, scientific spreader that has taken me years and years to perfect. Don't buy a spreader of any make or kind until you have tried a genuine Galloway 1917 model No. 8, No. 5 or No. 1A AT OUR RISK without obligating yourself in any way.

No More Fence Fixing



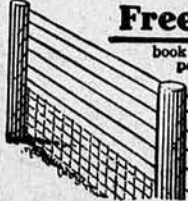
Farm owners can now save all money and time spent in replacing fence posts and fixing fencing due to posts that rot, split and peel. Long-Bell Creosoted Yellow Pine Posts will last you a lifetime. They are selected from slow growth trees, straight and round. Air dried and yard seasoned. U. S. Government tests prove that Creosoted Yellow Pine will last 40 years or more.

CREOSOTED Yellow Pine POSTS

solve all fence problems because they are decay-proof and treble the life of your fencing. Staples driven into these posts are there to stay.

Free Book

We have just published a new book on posts and various facts pertaining to creosote. Write today for your copy. It shows you how to save \$50 in money beside lots of time and labor yearly.



Don't use ordinary posts—you lose one out of eight each year. See your lumber dealer about Long-Bell Creosoted Yellow Pine Posts. Cost practically the same as ordinary posts. Insist on the **L-B Trade-Mark**—branded on the end of each post. It's your guarantee of permanent post satisfaction and treatment with pure creosote.

The Long-Bell Lumber Co.
123 R. A. Long Bldg., Kansas City, Mo.

Let the North Winds Howl!

WOULDN'T you love to live in a home so thoroughly warmed in winter that a howling northwest blast couldn't push a shiver in edgeways? And wouldn't you love to see your coal bill shrink by more than a third?

Sure you would! And people who live in homes warmed by Caloric Pipeless Furnaces enjoy both these great blessings, and then some.

The "Caloric" Furnace warms a house just as Nature intended should be done. It sends warm air up through *one register* to circulate freely to the farthest corner. And as it goes it pushes cool air down, till it sinks through a return channel round the central register, is heated in turn and sent up again as added warmth.

Science and Experience say this is the most sensible and healthful way to warm a home; and think what it saves in trouble and fuel! When a



The Original Patented Pipeless Furnace

is installed there is but *one register hole* to cut in all the house, and of course no pipes in the cellar nor flues in the walls. This makes it the easiest furnace to install and saves a lot of money. Can be put into an old house as well as into a new, and without inconvenience, regardless of season.

What's the use of making heat and then cooling it down in l-o-n-g pipes before it gets to where you want it—if it ever does get there? A Caloric delivers heat without loss, straight up where you live and need it. Is guaranteed to save 35% of fuel and to keep your cellar cool enough for safely storing fruits, vegetables, etc.

Mr. E. A. Reed, 163 N. 3rd St., Peru, Ind., used to burn \$75.00 worth of coal trying to warm a nine-room house with stoves. He put in a Caloric, got perfect results and his coal bill was reduced to \$50.00. Suppose you drop Mr. Reed a line, enclosing a self-addressed stamped envelope, and get his experience from his own pen. If you need a furnace or think of getting one it will be well worth while.

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 guarantees.

The Monitor Stove & Range Co.
3524 Gest St. Cincinnati, Ohio



SAVE 15 to 30% on all the well known Proprietary Remedies, Standard Toilet Articles and Drug Store Goods. Catalog free. You should have it. Write today to Hudson Specialty Co., Dept. B, Warehouse Point, Conn.

You will be surprised how easy it is to get this fancy embossed watch and silver set ring given for selling 50 jewelry articles at 10 cents each. Write to-day for the jewelry. Arden Watch Co., Dept. 62, Chicago

Abraham Lincoln Stories

Tales You May not Have Heard about This Great Man

BY THE BOYS AND GIRLS

THERE were many deserters in the Army when Mr. Lincoln was president and, altho military law required that all such men should be shot, the President had pity for the young fellows and pardoned a good many of them. "If a man had more than one life," Mr. Lincoln said, "a little shooting would not hurt, but after he is once dead we cannot bring him back no matter how sorry we may be."

Once at the very turning point of a battle a soldier was so frightened that he dropped his gun and ran from the field. This action threw the whole company into confusion and after the battle was over the young man was tried and sentenced to die. His friends appealed to the President who said: "I will put the order for execution by until I can settle in my mind whether this soldier can better serve the country dead or living."

Mr. Lincoln never refused to listen to those who appealed to him for help. He was never so overwhelmed with his own burdens that he could not speak words of cheer to those who were broken-hearted and sorrowful.

Burr Oak, Kan. Hazel Davis.

Hard Work Brought Success.

[First Prize.]

Abraham Lincoln, the sixteenth president of the United States, was born and reared in a very humble home. He acquired his education by perseverance and hard work. He helped his father care for the family until he was 21 years old and then started out for himself. The first thing he did was to earn money for a suit. A woman agreed to make him a pair of trousers if he would split 400 rails for every yard of goods used. As he was more than 6 feet tall it took many rails to pay for the trousers.

Lincoln's first steady position was taking flat boats to New Orleans. These trips were full of interest for him as he had never traveled before. As he sailed down the Ohio river into the great Mississippi many kinds of boats passed him. He saw new kinds of flowers and trees and passed sugar and cotton plantations. There were great ocean vessels at the wharves, and he saw the slaves at work everywhere. On one trip he saw a slave auction and it made him so angry to see negroes chained together and sold like cattle that he resolved then and there to do all he could to stop slavery when he was older.

Later on he took charge of a store at New Salem where his kind ways and pleasant manners won him many friends. He was so honest in all his dealings that people called him "Honest Abe."

Lincoln didn't forget his studies during this time. He walked 6 miles to borrow a book one time and then trudged all the way back and read it thru that night, lying in front of the fire place. He was always interested in public questions and later when he was a successful lawyer he became interested in politics and was elected president of the United States.

H. Edward Holliday.

Topeka, Kan.

An Amusing Story.

A very ugly man pointed a revolver at Mr. Lincoln one time and when the President asked him what he meant he said: "I once said if I ever saw an uglier man than I, I would kill him."

Mr. Lincoln replied: "If I am uglier than you, shoot. I don't care to live."

Zelma Sparks.

Emporia, Kan.

He Was a Great Thinker.

(Second Prize)

President Abraham Lincoln was born in a log cabin in Kentucky and his father moved to Indiana when he was 7 years old. The Lincolns were very poor and the log cabin in which they lived was enclosed on three sides with logs, the other side being open to the weather. There was no chimney, the fire being on the open side of the cabin.

The school which Abraham attended was a backwoods school with an open fireplace and the boys chopped wood for the fire. The schoolmasters were usually harsh men who persuaded the pupils to study by means of a long

beech rod. Abraham learned to write and he often wrote letters for his father and other men who could not write. The only books he had were the Bible, Aesop's Fables, Pilgrim's Progress and the lives of Washington and Henry Clay, and he read them over and over. When he heard people talk about any subject he was not familiar with he asked questions and thought about it until he could understand what they were saying.

Plano, Ia.

Ruth Wailes.

Honesty was His Motto.

When Mr. Lincoln was clerking in a store he sold a woman a pound of tea and the next morning the scale inspector came and discovered the scale was off 3 ounces. Mr. Lincoln closed the store immediately and took the woman the tea that was due her.

Mr. Lincoln was visiting the army



one time and an officer asked him if he wished to go nearer the enemy. Lincoln said he desired to go as near the enemy as any of the soldiers had to go.

Lincoln's face was homely but his heart was tender. A man living in my town who knew Mr. Lincoln well told me that when a person saw him they forgot his features and thought only of his greatness.

Mabel Lindquist.

Brookville, Kan.

Which Man Got Beat?

When Abraham Lincoln was a young man he once made a bargain with a man to trade horses without first seeing each other's animals. The day was set and the people all came to see the trade. A man came up leading an old long-haired broken-necked horse that was limping as if it had a broken leg. Then Lincoln came up the road with a saw-horse over his shoulder, and he afterward said to one of his friends: "I was beaten so badly I don't believe I shall try horse trading very soon again."

Frederick Roehr.

Belmont, Kan.

A Bird was Precious, Too.

Abraham Lincoln was riding thru the woods one day with a company of soldiers when he saw a little bird lying on the ground. It had fallen from its nest and the day was so cold that Lincoln knew it would die if it were left lying on the ground over night. He stopped his horse, picked up the little bird and placed it in its nest. When he caught up with the soldiers again one of them said scornfully: "Where have you been?" "I picked up the little bird and placed it in its nest," replied the great man, "I could not have slept tonight if I had not done so."

Ada Stone.

Newkirk, Okla.

He Knew Mr. Lincoln.

My great-grandfather had the honor one time of taking Mr. Lincoln from the railroad station to the court house where he was to debate with Mr. Douglas. The carriage was drawn by four horses. Grandfather rode the near wheel horse and drove the other three with a jerk line which was fastened to the bit of the horse in front of the one ridden. He guided the horses by speaking to them.

After Mr. Douglas had defeated Mr.

Lincoln for senator a man asked Mr. Lincoln how he felt about it. He said: "I feel like the boy who stubbed his toe and said, 'It hurts too bad to laugh but I'm too big a boy to cry.'" Courtland, Kan. Ellen Morlan.

And the Dog Went Along.

There were no bridges when Lincoln was a boy so when his parents moved to a different part of the state they had to drive right thru the water when they came to a stream. Abraham's pet dog was afraid to cross one of the streams and remained on the other side whining and barking after the others had crossed over. Abraham came back to the other side and carried the dog safely across and all was well again. Gerardy, Kan. Adele Wulff.

Three Days' Work for a Book.

Books were scarce in Abraham Lincoln's time and the boy often borrowed them from his neighbors. He borrowed the "Life of Washington" one time and when he had finished reading it put it in a crack in the wall and the rain damaged it. He was very sorry and took the book to the owner and worked three days to pay for the damage, then the owner gave the book to him. Dorothy Whiteside.

Pittsburg, Kan.

Saving a Pig.

A pig was struggling to free itself from the mud in a deep slough one time when Mr. Lincoln rode by. He looked at the pig and then at his new clothes and went on by. He could not get the picture of the poor pig struggling in the mud out of his mind, however, and at last after having ridden 2 miles, he went back and rescued it. He was so tender-hearted that he could not bear to see any living creature suffer. Edith Ortie Ogden.

El Dorado, Kan.

His First Dollar.

When Abraham Lincoln was about 7 years old he helped his mother make garden. He had to have a boat to cross the river to take the vegetables to market when they were ripe so he made one. Then he arose early in the morning and carried his vegetables to town. As he was fastening the boat one morning two men rushed up and asked him to take them out to the steamer which had just left. He took them out and when they left him they each handed him 50 cents. He was very happy for that was the most money he had ever earned in one day. Elizabeth Nickel.

Hillsboro, Kan.

The Boy Liked Animals.

None of the animals in the woods near Abraham Lincoln's home ever had cause to fear him. His playmates caught a turtle one day and put a burning coal on its back to have the fun of watching the poor creature struggle. Lincoln could not stand to see anything suffer without trying to help it—so he took the coal off and then got up on a stump and made a speech, telling the boys how cruel it was to give pain to any living creature just for sport. Then the next day when the teacher asked him to write a few sentences he wrote an essay on "Cruelty to Animals." Wakeeney, Kan. Allene Scanlon.

A Live Kansas Day Club

The Pleasant Valley Kansas Day club held its second annual meeting on Kansas Day and a large crowd enjoyed the good entertainment given by its members. There were songs, recitations and speeches about Kansas and before the evening was over every one was prouder than ever of their native state. The following officers were installed: President, Paul Davis; secretary, Maude Thompson; treasurer, Mrs. Gertrude Cottrell.

There were 17 young folks in the club when it was organized last year on January 29 and the membership has grown until now there are 37. Pleasant Valley is 10 miles north of Santa Fe and 20 miles south of Garden City.

Teach Ideals of Peace

Mothers who feel their responsibility to future generations are trying these days to teach their children ideals of peace, but many of them are finding it a difficult task. Wholesome, inspiring books and stories are one of the best means of imparting ideals to young

minds, and yet when one looks over the average publisher's list of "juveniles," she is struck by the fact that most of the books offered exalt ideals of force and military heroism. The "newer ideals of peace" have not found their way into children's books to any great extent.

I have found a few books of the sort that emphasize the heroism of peace and are constructive and full of action as children's books must be. They are not all strictly literature, but they are good reading. A list includes the following:

William Penn, in the "True Stories of Great Americans" series published by the MacMillan Company.

William Penn, by George Hodges, Houghton, Mifflin Company.

Victors of Peace, by F. J. Gould, Harper's.

Heroes of Peace, by F. J. Gould, Harper's.

Johnny Appleseed, by Eleanor Atkinson. This charming book tells how to study and name the birds without a gun. It also shows how a pioneer lived in primeval forests among savages without finding weapons a necessity.

Wild Life in the Jungle, by Prince Ghosh, D. C. Heath. This book brings

out most convincingly and entertainingly co-operation among wild animals.

Shakespeare's "The Tempest." Herein is shown how the power of mind, instead of brute force, may be used in settling disputes. Magnanimity and the forgiveness of enemies also are emphasized. This play, at once simple and profound, is immensely interesting to children. I know a boy 7 years old who heard its story and its songs with delight.

Beebe T. Chafin.

Resolutions for Mothers

I resolve that since I love my baby—I will never give him medicine without first consulting a doctor, or someone who I am positive knows that the medicine will be beneficial to him.

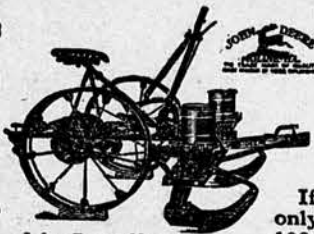
I will never over-feed him, because I know how uncomfortable I feel when I am over-fed.

I will never give him sips of ice-water, lemonade, ice cream soda, nor any other soft drinks, because I know these so-called foods contain properties which are not good for him.

I will never trot or jounce him after feeding, because I know that my doing so would interfere with his digestion.

JOHN DEERE IMPLEMENTS

BETTER FARM IMPLEMENTS AND HOW TO USE THEM



John Deere Corn Planters

Accuracy in a corn planter means uniform drop—number of kernels the same in each and every hill.

If the planter misses only six kernels in every 100 hills, the loss in yield is nearly two bushels per acre.

John Deere No. 999 is accurate. It has the John Deere Natural Cell Fill, Edge Delivery Seed Plate. Surface of hopper bottom and openings to seed cells are oblique, or sloping. Kernels move toward and enter the cells in their natural position. They do not have to be tipped on edge.

Merely move foot lever to change number of kernels per hill.

Drilling distances varied, and change hilling to drilling or back to hilling made easily.



Accuracy in planting has been the main object in designing John Deere planters. One of the many advantages of using a John Deere planter is that with proper handling it will plant practically 2, 3 or 4 kernels in every hill, as desired.

BOOK FREE

156 page reference book—tells all about a complete line of farm implements and how to adjust and use many of them. A practical encyclopedia of farm implements. Worth dollars.

Describes and illustrates Plows for Tractors; Walking and Riding Plows; Disc Plows; Cultivators; Spring Tooth and Spike Tooth Harrows; Disc Harrows; Alfalfa and Beet Tools; Farm and Mountain

Wagons; Manure Spreaders; Inside Cup and Portable Grain Elevators; Corn Shellers; Hay Loaders; Stackers; Rakes; Mowers and Side Delivery Rakes; Hay Presses; Kaffir Headers; Grain Drills; Seeders; Grain and Corn Binders.

This book will be sent free to everyone stating what implements he is interested in and asking for Package No. X-12.

JOHN DEERE, MOLINE, ILL.

John Deere Spreader

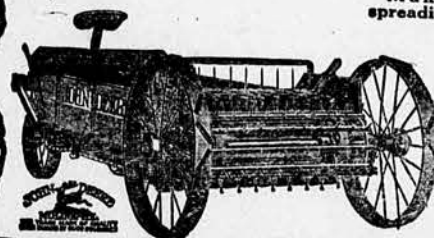
The Spreader with the Beater on the Axle

Mounting the beater on the axle simplified the construction, eliminated troublesome parts and made possible a successful low-down spreader with big drive wheels. There are no shafts to get out of line, no chains to cause trouble, and no clutches to adjust. The only spreader with beater and beater drive mounted on axle.



Low down, with big drive wheels out of the way. Easy to load. Revolving rake, driven by manure moving toward the beater—no bunching of manure. Ball bearing eccentric apron drive—a new and exclusive driving device. Makes uniform spreading certain.

Wide spread attachment for spreading seven feet wide can be furnished for the John Deere Spreader. No chains nor gears. Quickly removed.



John Deere Plows for Light Tractors

So far as quality of John Deere Plows for Light Tractors is concerned

High and Level Lift. Two, three and four bottoms.

High and level lift means level plows out of the ground, no cutting of ridges when crossing or turning on plowed ground.

Steady running furrow wheel—does not drag or bind against furrow wall. Stiff hitch—plow can be backed.

John Deere bottoms, the standard for over 78 years. There is a John Deere bottom for every kind of soil.

Equipped with John Deere Quick Detachable Shares—great labor and time savers.

they are built for the farmer who realizes that it is business judgment to buy a high-grade tractor plow. Don't forget that a tractor plow is not an everyday purchase.

John Deere Plows for Light Tractors are noted for their high-grade work in the field—the real test of tractor plow value.

Before you make your purchase, be sure to see John Deere Plows for Light Tractors. A careful purchase means permanent saving.



THE JOHN DEERE TRADE MARK



To designate and brand their goods, "Deere & Company," use the "leaping deer" trade mark. It is the best known implement trade mark in the world.

The reason that it is so well known is because of the high quality of the implements themselves.

Prestige in farm implements is obtained solely through the superior merits of the goods.

The permanent prestige of John Deere implements has been maintained by the company's strict adherence to prin-

ciples of manufacture that originally made the goods popular.

The "leaping deer" trade mark is Deere & Company's stamp of approval. It distinguishes John Deere Implements from inferior goods. It means that the implement was made in a John Deere factory, in the John Deere way. It is a guarantee of satisfaction and an insurance policy against disappointment.

Look for the John Deere trade mark when you buy.

JOHN DEERE, MOLINE, ILLINOIS

Old Whitetail's Defeat

Old Whitetail has run his last race. After baffling the speediest hounds and most persevering hunters for five years, the most celebrated of Western Kansas coyotes met his match near Winona the other day. Whitetail's father was a greyhound of notable size and ferocity who ran with a pack of coyotes for several years and from him Whitetail inherited the size and speed which made him the despair of wolfers.

Whitetail's range was wide. At one time he would be seen at Wallace and the next week he was preying on the chickens and calves of farmers near Scott City, 60 miles south. The Kansas City Star says that traps never fooled him and what few fleet dogs had ever overtaken him bore marks of his ability to take care of himself.

A good deal of thought and planning and much time has been devoted to trying to catch Whitetail and recently a tip from a rancher sent three men in a motor car with four dogs after him. It was a dead heat three miles. The motor car neither gained nor lost as it panted at full speed across the range, jockeying position with the coyote to prevent his getting to a canyon. The dogs were kept in the car until they were a quarter of a mile behind Whitetail and then released. When the coyote saw the dogs he ran for his life but the 3-mile race with the car at top speed had told on him. The dogs closed on him, he fell back on his slashing fangs, and one of the dogs caught him by the hind leg and threw him over his back with a thud. Whitetail was beaten at last.

These Riddles are Easy

Try these riddles on the family some evening and see how many of them they can guess.

1—Why is it easy to break into an old man's house? Because his gait (gate) is broken and his locks are few.

2—There's a word composed of three letters

alone
Which reads backwards and forwards the same;

It expresses the sentiments warm from the heart.

And to beauty lays principal claim. Eye.

3—If you were to see a counterfeit coin in the street why should you always pick it up? Because you may be arrested for passing it.

4—Why is the letter "K" like a pig's tail? Because it is the end of pork.

5—Where can one always find happiness? In the dictionary.

6—Why is Ireland the richest of all countries? Because her capital is always Dublin.

London Has a Doll Exhibit

There is a very interesting exhibit of dolls in London, including dolls from Roman graves, dolls from Arctic regions, and dolls from Africa, India, China, North America and all the Continental countries. They are the property of Edward Lovett, who is one of the great authorities on the history of toys generally.

The people of England are particularly interested in dolls because of their desire to make the manufacturing of them a native industry. All over the United Kingdom unemployed girls and women, and disabled and blinded soldiers, have been set to the making of dolls. Up to this time this industry has been nearly a German monopoly.

Boys and Girls with Pep

The hero of the International Live Stock Exposition at Chicago was Ralph Peak of Winchester, Ill., who won the first annual interstate boys' and girls' feeding contest. Ralph is only 12 years old and he fed and cared for the sleek baby steer that won him the prize all by himself. The second place in the contest was won by a boy from Iowa and a girl from Iowa won the seventh place. The youngest contestant was 6 years old. Twenty-eight boys and two girls entered the contest.

Where Spiders Really Work

Spiders are perhaps the most important workers in one of the largest surveying instrument factories in England. It is their duty to spin the delicate thread which is used for the cross hairs to mark the exact center of the object lens in the surveyor's telescope.

The spiders produce thousands of

Boys Must Boss Something

Governor Capper's plan for keeping boys happy and busy on the farm, as outlined in his speech on the Boy and Girl Problem.

On the farm, in my opinion, we have the finest training ground in the world for creating the sturdiest, happiest, best and most truly successful and efficient type of manhood, womanhood and citizenship.

As one who has known and watched many boys, who has had hundreds of boys and young men work for him, and has seen what a miracle the right sort of encouragement works in boy nature, I almost feel like congratulating the father who has his boy or his boys on a farm.

To be happy and contented, a healthy, vigorous boy must have some sort of purpose or interest in life, the same as a man. He must work to an end. He must accomplish something for himself. He must boss something.

You can, of course, command him to work from boyhood to manhood for his board and clothes, and he will render service grudgingly or otherwise, until, prompted by his unsatisfied boyish longing to plan and do something for himself, to achieve some results with benefit to himself, he will either jump at the first opportunity to escape from so humdrum an existence, or make his own opportunity, to leave the place. And once he goes, you are not likely to get him back on the farm again.

Don't blame him for this feeling; it is to his credit, it is proof of the good stuff in him, tho the chances are if he leaves that he is making a great mistake, and sooner or later will realize it.

There is just one sort of encouragement that will get him over this perilous stage of his development.

Give him a personal interest in his work.

Give him something to do beside simply obeying orders.

Give him something to handle and manage on the farm in his own way, a piece of ground, an animal or two, or some side line of the farm and put him on his mettle for the outcome or the income, give him a substantial personal share in the resulting profit or increase should there be any.

Boys should be encouraged to follow their bents and develop the faculties that rise to the surface in them. The wise father will acquaint himself with these faculties in his boys. For the rest he will be patient, forbearing and charitable in regard to their mistakes, and he will find, perhaps sooner than he expects to, that he has a cheerful, interested, ambitious lot of boys on the place.

yards of web during a two months' spinning season, which is wound upon metal frames and stored away until needed. A spider at work dangles in the air by its invisible thread, the upper end of which is attached to a metal wire frame whirled in the hands of a girl. The girl first places the spider on her hand until the protruding end of the thread has become attached, then when the spider attempts to leap to the ground this end is quickly attached to the center of the whirling frame, and as the spider pays out thread this line is wrapped around the frame. The Lone Scout says that several hundred feet of thread can be removed from the spider at one time.

A True Bear Story

A prospector near Cooke, Mont., had a very thrilling experience once while spending the night in the mountains, says the New York Evening Post Magazine. The weather was warm and pleasant, and he stood his rifle against a tree and lay down to sleep. In the course of the night he was awakened by the heavy breathing of a large animal and an oppressive and very disagreeable

odor. Half-conscious of something standing over him, he lay perfectly still.

Soon there was a grunting and snuffing close by his head, and he understood that he was underneath a grizzly bear! A cold sweat came over him, and he was paralyzed with fright.

Whately's rifle was out of reach. He had no knife, and he feared that the grizzly might attack him at any moment. Acting on a sudden impulse, he doubled up his knees, and with all his strength plunged both his fists and feet simultaneously against the stomach of the beast.

It was a complete surprise for the grizzly, which was even more frightened than the man. It ran squealing and bellowing into the timber, while Whately, whose knees were knocking together with fright, gathered up his goods and struck out for Cooke City in the dark. He did not dare to pause until he was safe in the settlement.

It's Warm in Louisiana

My father is a reader of the Farmers Mail and Breeze and I like the children's page. I am a boy 6 years old and live

in Louisiana. It is so warm here that I go barefooted until February. I have one sister and one little brother. We have a pet pig which we call "Tiny", and two colts. My sister washes the dishes and I dry them for her. I like to live on the farm.

Oretta, La.

Georgie Blair.

Where Cows are Fortunate

No creature receives more careful or more loving care than the Holstein and other blooded cows of Holland. They are washed, combed, groomed, and luxuriously stabled. No thoroughbred racer is more painstakingly looked after. These Netherlands cows are put to graze in such flowery, well-watered green fields as might well arouse the envy of the rest of the animal kingdom.

A writer in Young People says that the cow stable in Holland is as clean as any parlor. Into these, after remaining in the fields from the first of May until the first of November, the cows are taken for the winter.

Many of the Hollanders' cow stables have a strip of immaculate oilcloth running from one end of the center aisle to the other. Rows of tiny square windows high up on both sides, are curtained with spotless thin white net, tied back with ribbons. Pots of blooming flowers are set on the window sills.

Beneath each curtained window is a cow stall, 20 in all, it may be. On the floors, which are of porcelain, a thick layer of clean white sawdust is placed. Before and behind each row of stalls runs a trough of clear water, the first for the cows to drink from, the second to wash away all impurities.

Every day during the winter these cows are put thru a process of washing with warm soap suds, drying, rubbing, combing, and general coddling, as if they were children. No pains are spared to the end that their stable may have the purest air, and everything is done for the comfort and health of the animals. The consequence is that they become plump, glossy, and gentle animals, repaying their owners with enormous quantities of rich milk.

These Boys Like Cows



Leo and Chester Dressler are very fond of cattle. They have great times bringing the cows in from the pastures at night and helping to care for the little calves. Leo is the boy sitting on the calf and Chester is standing.

A Bird Traveler

A hawk was killed on October 29 that had traveled 3,700 miles since August 19. Eddie Hotchkiss of Red Lodge, Mont. caught the hawk in his oat field on August 19, tied a bottle containing his name and address about the bird's neck and released it. The hawk was killed at Bogota, Colombia in South America, a distance of 3,700 miles from where it started.

Pipe Fish Have Pouches

Everyone knows that the kangaroo carries its babies in a pouch but few persons have read about the pipe fish which has the same receptacle for its young.

The pocket of the pipe fish is found only in the male species. It is on the under side of the body and is nearly half the length of the fish. The pouch is the only part of the fish's body which is unprotected by large flat plates which take the place of scales in its protective armor.

If a pipe fish is taken from the water and its little ones shaken out of the pouch back into the water, they seem either unable or disinclined to run away. But if the father is placed in the water again all the small fish immediately swim back into the pouch. The pipe fish is about a foot long and an inch thick. It resembles a small eel except that it has a very long jaw.

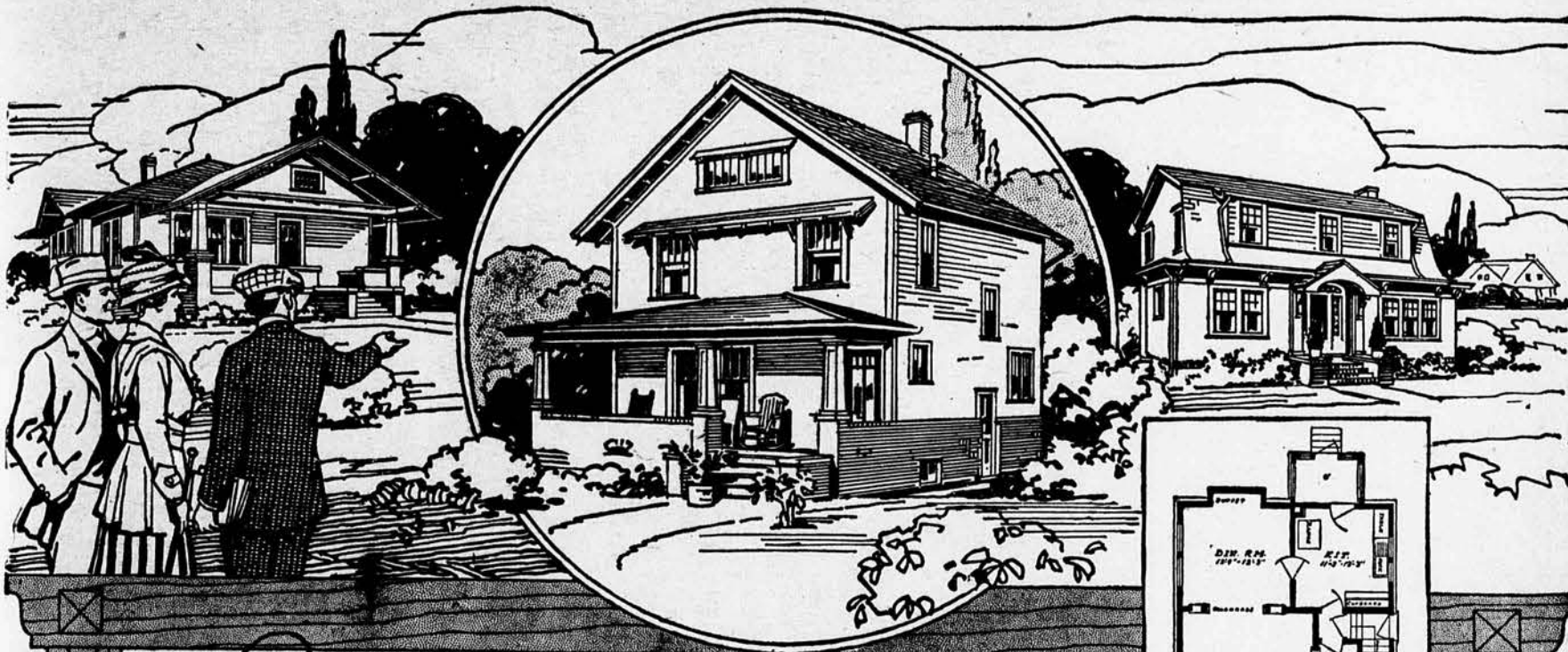
When the feet are tired and aching at night, bathe them in warm water to which a tablespoon of baking soda has been added, then rub with castor oil, wiping off any excess that might soil the bedding.

Buy It Now, Folks

IT WILL BE most distinctly to the business interest of every farmer, farmer's wife, and to the interest of dealers, large and small, in almost every commodity, to adopt the new slogan, "Do your spring buying early."

This suggestion is born of necessity. One of the largest manufacturers of farm implements says, "It is impossible to get materials on short notice. Manufacturers have bought material for a moderate amount of business, but owing to prices, have not dared to stock heavily. An unusual rush of orders would make a difficult situation. Dealers will be wise to place their orders as far in advance as possible."

Industrial America is facing, today, a strange situation. It is, apparently, physically impossible to get cars to move the freight offered for transportation. Grain of one sort or another is congested in railway stations everywhere. The farmer or dealer who expects to have his supplies when they are needed in the spring will give those needs early attention. This applies to farm machinery, silos, cream separators, milking machines, nursery stock, seeds, spraying materials. Orders for these goods should be placed now.



Why Some Wives Fall Short of Their Own Ideals as Home Makers

Some wives and mothers are proud of the homes they have made for their families. Others grow old trying, yet they never realize their ideal. Why? Because they never had a fair show.

It takes three things to make a home you can be proud of—an exterior that is architecturally good, an interior that is conveniently planned, and woodwork that is made with but one aim—“Quality First.”

Can you make a livable, comfortable home out of a mammoth box of a place? Can you expect to keep young in a home that seems designed to multiply steps? Do you think you can grow pride in a house when windows rattle, doors warp, drawers stick, and the trim gaps at the joints?

For the home-making wives and mothers of America we have prepared two Home Books. These books show exterior and interior views and floor plans of homes that you can be proud of and in which you can

succeed more easily with your work and ideals.

These books show also a few designs of CURTIS Woodwork. The many other designs you can see in the big Curtis catalog at your lumber dealer's. This catalog is just out. It contains the most modern and most attractive designs for sale today. Quality considered, every one is a bargain.

Go to your lumber dealer's and see these designs. Probably he can show you

some CURTIS Woodwork. You will know it by the trademark which is on every piece. Consult him about your home. He can help you with your plans.

But send the coupon now for your choice of these Home Books—“Better Built Homes,” Vol. II—\$2700 and under; Vol. III—\$2700 to \$4500. Which shall be our gift to you?

THE CURTIS COMPANIES, SERVICE BUREAU

1602-1702 S. Second St., Clinton, Iowa

Manufacturing and Distributing Plants at
Clinton, Iowa Lincoln, Neb. Minneapolis Wausau, Wis. Chicago
Oklahoma City Sioux City, Iowa Detroit Topeka, Kan.
Eastern Offices at Pittsburgh and Washington

The makers of CURTIS Woodwork guarantee complete satisfaction to its users. “We're not satisfied unless you are.”

1866 CURTIS WOODWORK

“The Permanent Furniture for Your Home”

Doors
Windows
Window & Door
Frames
Storm Doors &
Windows
Screen Doors &
Windows
Stairways
Newels
Sideboards
Colonnades
Bookcases
Mantels
Window Seats
Wall Panels
Ceiling Beams
Mouldings
Porch Columns
Porch Rail
Porch Balusters
Everything in
Woodwork



THE CURTIS COMPANIES, SERVICE BUREAU

1602-1702 S. Second St., Clinton, Iowa

Without obligation, please send me
Vol. II—Homes, \$2700 and under; Vol. III—Homes, \$2700
to \$4500. Mark the book you wish.

Name

R. F. D. Town

State

FARM VALUES AND RAILROADS

Transportation Problem Must be Solved Nationally in Order to Assure Agricultural Prosperity.

THE greatest industry of the United States is farming. Next to that comes transportation.

Efficient transportation is essential to the continued welfare and business progress of the nation. To the farmer it means wider markets and better prices for his crops.

Speaking for 90% of the railroad mileage of the country we invite your co-operation in the solution of the railroad problem to that end.

Make Regulation Efficient

There is no question that public regulation of transportation has come to stay. The railroads accept it. They ask only that such regulation be made efficient. They ask that the functions properly subject to public supervision—incorporation, the issuance of securities, the making of rates—be placed under the direction of a single responsible national body such as the Interstate Commerce Commission, with regional sub-commissions, in order that regulation may be kept close to the people. They ask that such regulation be so administered as to permit the railroads to earn a living return, to attract new capital and to make the improvements and extensions necessary to enable them to serve the American people fairly and efficiently.

In the Federal Reserve and Rural Credit Banking Systems the operation of regional divisions under Federal supervision is well illustrated. The railroads seek a similar solution of their problem.

Commerce is Nation Wide

The farmer wants free trade among the states.

Commerce in farm products is not confined to state lines. It is nation wide. Its regulation should also be national. The fundamental state right is the right of each state to be protected against discriminations by other states such as exist today. Every barrier that a state erects to the free movement of commerce across its borders limits the farmer's market, makes it easier for speculators to control products and depress prices and tends to increase the cost of what the farmer has to buy.

The railroads cannot serve 49 masters—48 states and the nation—and serve efficiently. The present system of multiple and conflicting regulation is wasteful and destructive.

In the interest of all, regulation should be in behalf of all the states. We invite discussion of this question and shall be glad to answer questions and to supply information on request.

This is the first of several, brief talks on this subject.

RAILWAY EXECUTIVES' ADVISORY COMMITTEE

61 Broadway New York City

FRANK TRUMBULL, Chairman
FRANCIS H. Sisson, Assistant
ALFRED P. THOM, Counsel

B. F. BUSH	R. S. LOVETT
Receiver Mo. Pacific Ry.	Ch. Union Pacific R. R.
A. J. EARLING	C. H. MARKHAM
Pres. C.M. & St. P. Ry.	Pres. Ill. Cent. R. R.
HOWARD ELLIOTT	SAMUEL REA
Ch. N.Y.N.H. & H.R.R.	Pres. Penn. Ry.
W. J. HARRAHAN, Pres.	A. H. SMITH
Seaboard Air Line Ry.	Pres. N. Y. Central Lines
WALKER D. HINES	FRANK TRUMBULL
Ch. A. T. & Santa Fe Ry.	Ch. C. & O. Ry.
HALE HOLDEN	F. D. UNDERWOOD
Pres. C. B. & Q. R.R.	Pres. Erie R. R.
L. F. LOREE	H. WALTERS, Ch.
Pres. D. & H. Co.	Atlantic Coast Line R. R.
DANIEL WILLARD	Pres. B. & O. R. R.

For Efficiency With Cows

Progress is Being Made in Developing State Dairy Herds

BY F. B. NICHOLS, Associate Editor



A Part of the Excellent Dairy Herd on the Farm of the Larned State Hospital; Most of These Animals are Purebred.

GOOD progress is being made in building up the dairy herds in the state institutions of Kansas. They are being placed on a more efficient basis, and in addition better milk is being provided. Special attention has been given to this by the board of control, of which W. E. Brooks is chairman. Expert help in the solving of the dairy problems in the institutions under the control of this board has been obtained from O. E. Reed, professor of dairy husbandry in the Kansas State Agricultural college.

This board has big dairy herds at six institutions. The Topeka State Hospital has 100 animals; Osawatomie State Hospital, 65 animals; Parsons State Hospital, 60 animals; Larned State Hospital, 55 animals; State Hospital for Feeble-Minded at Winfield, 45 animals; and the State Orphans' Home at Atchison, 33 animals. All of these herds are composed of Holsteins, and all have purebred males. There are purebred females at all except Winfield, where it is hoped they will be provided in the near future.

A Logical System.

The work of improving these herds has been carried on in the last two years in the logical, sensible way that an expert dairyman would do it in a private herd. The cows have been tested for tuberculosis, and the animals which have this disease have been eliminated. This test will be run from time to time in the future, to make sure that the disease is kept out of the herds. The milk from the cows has been weighed and tested, and the boarder cows have been sold. The ideal has been to breed the animals with a definite utility value in mind, and to sell the cows which fail to measure up to the standards that have been set.

Much encouragement was given to this work by the progress made in building up a Holstein dairy herd on the farm of the Eastern Michigan hospital at Pontiac, Mich. This herd is composed of purebred animals, and it has been very profitable from the standpoint of milk production, as well as providing a considerable income to the institution from the breeding animals sold. In addition, a well managed purebred herd will supply a better quality of milk for the patients than that from an indifferently managed herd of scrubs.

One of the purebred cows on the Larned hospital farm is from this place.

To aid in getting more rapid progress in building up the herds a carload of purebred Holsteins was purchased in Wisconsin by Professor Reed. There were 26 animals in this herd, and they were divided among the institutions. That this is paying is well shown by the results recently in the sale of some of the purebred calves at the institutions where they have been available. Calves 6 weeks old were sold for \$100 a head from the herd of the hospital at Larned. These were purebred animals. There is an excellent demand for good Holsteins in Kansas, and it seems probable that this will continue. The herds at the institutions will help in raising the standard of the dairy animals of the state.

Good Feeding.

In addition to the attention to the breeding, much care also has been given to the feeding of the animals. This has increased the production. The rations have been planned by Professor Reed with the idea of making the most economical use of the feeds at hand on the different farms. They are making maximum production with the minimum expense possible.

The idea has worked out so successfully that it has been suggested that it be carried on in a larger way. A bill has been introduced into the legislature placing the cows in all institutions under the control of the dairy department of the agricultural college. There are about 1,200 animals in the institutions. A representative of the department will be required to visit the institutions at least once every three months, to direct the work. A system of this kind will get a great deal more efficiency into the way the herds are run. At least that has been the result with the progress made by the herds managed by the board of control.

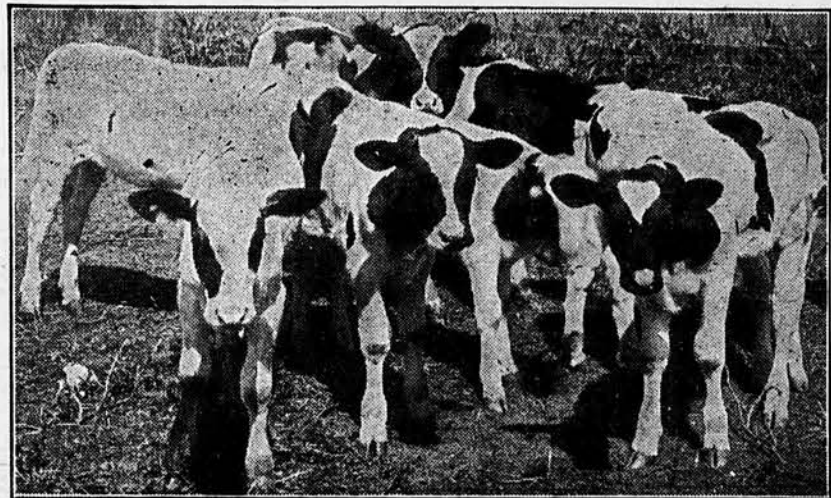
There's Always an Excuse to Buy.

The Hawker—"Buy some flowers for your wife?"

"But I am not married."

"Well, then, guv'nor, buy the lot to celebrate your luck!"—Tit-Bits.

Cold feet, both in politics and real life, add little to the health or comfort of their possessor.



Dairy Calves from the Cows on the Hospital Farm at Larned; They Show the High Quality of the Breeding.

16 ⁹⁵ ^{ON TRIAL} ^{Upward} ^{AMERICAN} ^{FULLY GUARANTEED} ^{CREAM}

SEPARATOR

A SOLID PROPOSITION to send new, well made, easy running, perfect skimming separator for \$16.95. Closely skims warm or cold milk. Makes heavy or light cream. Different from picture, which illustrates larger capacity machines. See our easy plan of

Monthly Payments

Bowl a sanitary marvel, easily cleaned. Whether dairy is large or small, write for free catalog and monthly payment plan.

Western orders filled from Western points.

AMERICAN SEPARATOR CO.
Box 3092 Bainbridge, N. Y.

Comfort for Cows

Keep the cow's udder free from irritating conditions and the milking will be easier the yield better. Bag Balm is a soothing, penetrating ointment that quickly heals all cuts, chaps, bruises, sore cracked or injured teats. A sure relief for ailed bag, and useful in treating bunches and stricture.

Large 50c package, sold by druggists and feed dealers. Ask for free booklet, "Dairy Wrinkles."

Dairy Association Co.
Lyndonville, Vt.



THE INDIANA SILO

Fifty thousand are now in use on the finest farms in America.

If you are going to buy a silo—this satisfactory service rendered everywhere—should be of special interest to you.

The cost of all materials is advancing like the price of wheat and corn.

Why not save money by contracting for your silo now. It undoubtedly will cost you more next spring or summer.

Let us send you our proposition—to contract now for your silo and deliver it later. We still have openings for a limited number of farmer agents.

INDIANA SILO CO.

579 Union Building, ANDERSON, INDIANA
579 Silo Bldg., KANSAS CITY, MO.
579 Indiana Building, DES MOINES, IOWA
579 Live Stock Exch. Bldg., FT. WORTH, TEXAS

Why waste $\frac{1}{4}$ of your silo?

Silage settles nearly one-fourth when the silo is quickly filled. That means 25 tons less silage in a 100-ton silo than you really should have. Make your silo earn full dividends. Fill and refill your own silo with a

Papec Ensilage Cutter

Your gasoline engine—3 H.P. and up—will run it. Grover McGurer, Middlefield, O., says: "We use a 5 H. P. gasoline engine (on our Papec) and can put in more ensilage than either of the two machines in this community with 12 and 15 H. P. engines."

Every Papec is guaranteed to fill the highest silo. Made in four sizes—2 to 30 tons per hour capacity.

Our 1917 Catalog explains just how a Papec will save you \$75 to \$150 yearly. It's free. Send a postal today.

Papec Machine Company
24 Main St.
Shortsville, N. Y.

as Distributing Points



Test the Dairy Cows You Buy

Keep Only the Animals that Prove to be Profitable

BY J. W. POMEROY

I AM a staunch believer in the Babcock test and scales, and recommend these as the best tools to work with in shaping a purebred herd.

I will assume that all young breeders who aspire to breed purebreds, begin as owners of herds of scrub cows, and in this case my first warning would be "work into it gradually." By beginning gradually you get experience that is of great value as you go along, and without spending a lot of money all in one lump.

My procedure would be: Test your present herd for tuberculosis. If there are any diseased cows, dispose of them and rid your stable of any infection. Next, put every cow on record for six months or a year. At the end of that time dispose of all cows that did not return a profit. Invest in two or three purebred heifers and a purebred sire, putting most emphasis upon the sire. By using a good sire with good grade cows that remain in your scrub herd, you will produce some excellent grade stock as you go along.

In choosing this first stock, do not be like a certain friend of mine whose only ambition was to get registration papers for the least possible money. It is needless for me to say that this man got what he was looking for, and then was badly "stung." He did not know that a pedigree has value in proportion as the owner of the animal is a man of high standing or of questionable reputation.

In buying this stock select hardy and well-marked individuals if possible, but lay far more stress on the performance of the animals and the records of their blood relatives under the scales and Babcock test. Select the best stock within your means for the future of your herd. For the breeder of today is the one who is most wisely breeding for the future, and upon his mental ability to foresee and provide for the future will rest the largest reward for his labor in the present. Once the herd is started, the young breeder must be a bookkeeper and statistician. He must keep records of his cows, and use this record in directing his breeding operations. A person may determine from the conformation whether an animal is of dairy or beef breeding, but there is no one who can determine how much work a cow can do by looking at her.

It is a strange force indeed that seems to permeate dairymen and cause them to ignore or disregard the desirability of weeding out the unprofitable cow by some means other than "cow judgment." Guesswork seems to be preferable to the scales and tester.

The young breeder who decides to begin keeping a record should go to work with the intention of continuing the work as long as he continues to breed dairy cattle. It makes but little difference how this work is done, whether individually or thru the cow-testing association, so long as it is done with a certain degree of thoroughness. Many of the breeders today are men who are in it simply for the money they can make. They are surface men; they simply mate cattle and make no study of the blood-line. If they get a calf well marked they are satisfied. They are quite glib with a certain line of pedigree talk, but it means little to them. As long as the demand keeps up as it has, men will buy and pay good prices for cattle that are quite poorly bred, if they carry the points of the breed well. But a day is coming, and it soon will be here, when buyers will be a great deal more particular in their selection. Then a man who breeds with thought and care will be a powerful factor in the business, and the superficial, unintelligent breeder will go to the wall.

Cattle from the Isle of Jersey

Little is known regarding the origin of the Jersey breed. It is supposed, however, that it has descended from cattle brought to the Channel Islands in the early days by French refugees. These were probably similar to the Normandy and Brittany cattle now found in North-west France. Whatever its origin may have been, it is known that the Jersey on the island has been bred pure for several hundred years. Since 1789 it

has been prohibited by law to import cattle to the island, except for immediate slaughter. At that time there was little difference between the cattle on the various islands of the Channel group. The Jerseymen, however, preferred a refined, more nearly solid colored animal, suited not only to the production of butter, but also to the adornment of the estates of the English noblemen. Selection to this ideal has produced the most highly developed dairy type to be found among the dairy breeds, both as to conformation and temperament.

The Jersey produces very rich milk, testing about 5.4 per cent of butterfat. Most Jerseys are solid in color, shading to black at the points, tho many are spotted with white, a marking which in no way indicates impurity of blood. Mature cows of this breed weigh from 600 to 1,000 pounds. Mature bulls weigh from 1,400 to 1,800 pounds.

Prevent Scours in the Calf Pen

Thousands of calves are lost every year from scours, says H. H. Kildee, university farm, St. Paul. On every farm measures should be taken to guard against this disease, which results from a deranged digestive system.

Calves should have warm, clean, light and well ventilated pens. Milk should be fed in regular amounts, at regular times, at a temperature of about 80 degrees Fahrenheit from scrupulously clean pails. The foam which accumulates on the milk while it is being separated never should be fed. The time to feed the grain ration is immediately after the milk is fed, so that the calves will not suck each other's ears and thus take air into the stomach, which causes bloat and produces scours. It is well to have stanchions in one side of the pen so that the calves may be confined for a short time after being fed milk.

Every day during the winter, when the weather is favorable, the calves need to be turned out into a sheltered yard for exercise, which is necessary for their proper growth and health. It is also important that the calves, from a very early age, be given all the pure, fresh water they care to drink every day. The pens should be disinfected frequently. Quick lime is excellent to sprinkle on the floor every time it is cleaned and a frequent spraying with some standard coal tar dip solution will prove beneficial.

A Few Advantages of Dairying

Among the many advantages of the dairy business a few stand out clearly as follows:

It is highly profitable when well conducted because it markets the crops of the farm in the most valuable form, and because it is a business which is capable of almost indefinite development.

It is good for the farm because crops are fed at home and because the demand for protein feed brings much nitrogen to the land.

Butter is destitute of fertilizing value, and if the milk is fed almost no fertility leaves the farm.

One of the disadvantages of most farming is the irregular income, weeks and even months passing with no cash receipts. The dairy checks, however, are not only frequent but regular throughout the year—an advantage appreciated only by those who have kept cows and had the experience of a steady income.

Eugene Davenport.

The teacher was trying to picture the outcome of laziness and idleness. He drew a terrible picture of the habitual loafer, the man who hates work, and his ultimate fate.

"Now, Charlie," he continued to a little boy who had been looking out of the window and whose mind was far from the lesson of the hour, "tell me who is the wretched, miserable individual who gets clothes, food, and lodging and gives nothing in return?"

"Please, sir," he replied, "the baby."

—Credit Lost.

A cow that cannot make her own living may possibly become the mother of one that will make the lives of both profitable.

Only \$2 DOWN and One Year To Pay

For any Size—Direct from Factory

You can now get one of these splendid money-making, labor-saving machines on a plan whereby it will earn its own cost and more before you pay. You won't feel the cost at all.

\$24 BUYS THE NEW BUTTERFLY

No. 2 Junior—a light running, easy cleaning, close skimming, durable, lifetime guaranteed separator. Skims 95 quarts per hour. We also make five other sizes up to our big 800 lb. capacity machine shown here—all sold at similar low prices and on our liberal terms of only \$2 down and a year to pay.

30 DAYS' FREE TRIAL GUARANTEED A LIFETIME

You can have 30 days FREE trial and see for yourself how easily one of these splendid machines will earn its own cost and more before you pay. Try it along side of any separator you wish. Keep it if pleased. If not you can return it at our expense and we will refund your \$2 deposit and pay the freight charges both ways. You won't be out one penny. You take no risk. Postal brings Free Catalog Folder and direct from factory offer. Buy from the manufacturers and save money. Write TODAY.

ALBAUGH-DOVER COMPANY, 2177 Marshall Blvd., Chicago, Ill.
Also Manufacturers of Albaugh-Dover "Square Turn" Farm Tractors





Make Your Calves Profit Makers NOT Profit Eaters

MILK fed calves won't bring you profits—instead they're a direct loss. Whole milk commands such a high price you can't afford to raise calves on it. Security Food will take the place of whole milk from the time the calf is three days old. Your calf requires from eight to twelve quarts of whole milk a day. This is worth three to five cents a quart and will cost you from twenty to thirty cents a day to feed your calf whole milk, while you can raise your calf on Security Food for one-fourth the cost.

SECURITY FOOD for CALVES and LITTLE PIGS

Will Bring You Over \$20 Profit on Each Calf

Equally as good for little pigs. If Security Food does not do exactly as we claim for it your money will be refunded.

For further information, write us today, sending name of your dealer.

Security Remedy Company Minneapolis, Minn.



Write for Book Today

FARM WAGONS

High or low wheels—steel or wood—wide or narrow tires. Steel or wood wheels to fit any running gear. Wagon parts of all kinds. Write today for free catalog illustrated in colors.

ELECTRIC WHEEL CO., 30 Elm Street, Quincy, Ill.






SLOANS' LINIMENT

keeps your stock in good condition. Full directions in package will show you many uses for every member of the barn yard family.

Thousands of farmers indorse Sloan's Liniment for pains and aches, sprains and bruises. At all dealers, 25c. 50c. and \$1.00 a bottle. The \$1.00 bottle contains six times the 25c. size.

Standard Plumbing Fixtures for Bath Rooms

Used the world over. A distinctive style or design to meet every requirement—in every kind of home.

Whether building or remodeling specify "Standard" fixtures for the bathroom and be sure of getting equipment that is known to give satisfaction. "Standard" goods are guaranteed—identify them by the Green and Gold Guarantee Label.

WRITE FOR FREE BOOK "Standard" Plumbing Fixtures for the Home. Greater bathroom comforts are clearly described in this book.

Standard Sanitary Mfg. Co.
Dept. 210
Pittsburgh, Pa.



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.

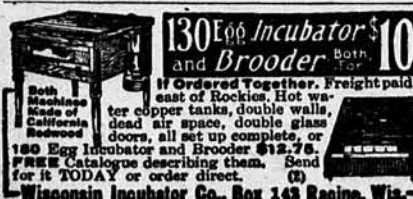
Over 524,000 Satisfied Users

\$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—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. Belle City Incubator Co., Box 21 Racine, Wis.



There Always is a Profit

I have been using incubators for hatching most of my chickens for the last 13 years. I much prefer an incubator to hens for hatching because it is much less work to tend them and you can get off a much larger number of chicks at the same time and just when you want them. When depending upon a hen to do the hatching she will set when she wants to, and when she decides to quit, she quits. Thus the eggs are ruined when she will not set any longer. Of course one must have a healthy flock of chickens to begin with, and they must be fed a balanced ration. I usually have one male to every 12 hens, as I think the eggs will hatch better. If one has the small breeds one rooster to 15 or 20 hens is about right.

One must gather the eggs at least twice a day to make sure that they are fresh and not chilled. While saving the eggs to set they must be turned at least once a day, and kept at a temperature of about 50 degrees. When ready to set, be sure the incubator is clean and thoroughly aired; place it in the cellar or a room that has no fire in it, a room with an even temperature being best. If your incubator is a hot water machine, fill the tank with lukewarm water and light your lamp. Be sure that the burner and everything has been cleaned previously. Place a paper in the egg tray and try the thermometer. Select as nearly perfect eggs as possible, all one size, neither too large nor too small. Fill the egg tray and close the incubator. It is not necessary to turn the eggs for the first 40 hours, but after that they should be turned twice a day, morning and evening. I always air the eggs in the morning, at first leaving them out only a few minutes at a time. By the time the eggs have been incubating 10 days, I let them air 10 to 15 minutes and after the tenth day I leave the eggs out longer and longer every morning until they are aired from 20 to 25 minutes. When you hear the chicks after the twentieth day do not air any more. Usually by the end of the twenty-first day the chicks all are hatched and ready to take out of the incubator. While the chicks are hatching the incubator should not be opened any more than is necessary.

I always test out the bad eggs at least by the tenth day, then again on the eighteenth or nineteenth day. By this way of tending my incubator I have hatched 196 fine chicks out of 212 eggs, and have raised every chick, but if one gets 75 to 85 chicks out of 100 eggs, he has no room to complain.

I do not feed my chicks for 24 hours after they are taken out of the incubator, and then they are fed sparingly, such as bread crumbs, cottage cheese, and wheat bran. By the time they are a week old I feed all they want and add chops and in fact mix the feed and give as much variety as possible. I never feed raw cornmeal nor corn chop to my chicks, as it may cause bowel trouble. I keep plenty of clean water before my chicks all the time. Butter-milk and sour milk are good for chickens of all ages.

I notice that in this part of the country a great many people are selling most of their hens and pullets. They have not enough feed, and say feed is too high priced to buy and feed to chickens. I think they are making a great mistake, for if they would keep a close account they would see that feed never gets too high priced to return a profit when fed to good hens. I intend to keep a large flock of hens and run an incubator this season, even if feed is away up in prices. Mrs. L. A. Wright, Mangum, Okla.

Hatches Chicks Scientifically

My wife and I moved from Hutchinson to a farm three years ago, and about our first investment was a flock of chickens. The first year we had them we kept a record of every pound of feed, also a record of eggs received, chickens sold and chickens killed. From this flock we made a profit of about \$1 a hen from eggs; we sold 15 dozen springs which averaged \$6.48 a dozen and the old hens, keeping enough young stock to replace them. At the end of the year we figured our accounts and thought we did pretty well, but were not satisfied, and resolved to do better. We had intended to buy an incubator, but we put it off until too late, and had to set the hens again. It was the same old fight

with mites and various other pests such as skunks, rats, bull snakes. Hens left their nests and broke eggs. We came out about the same from a financial standpoint, and in the fall made a solemn vow to get an incubator.

After looking thru catalogs we selected one which appeared to be well constructed, and in a few days it arrived. We selected eggs of a good size and shape. When we had 15 dozen eggs saved we filled the lamp in the machine, which, by the way, holds enough oil to burn thru the entire period of incubation. In about six hours the temperature was right and we set the regulator and let the machine run about 48 hours before putting in the eggs, in order to be sure that we could hold the temperature at the proper degree. In six hours the machine had the eggs at the proper degree which we consider from 102 to 103. We opened the machine and cooled and turned the eggs every morning, until the eggs felt cool to the hand but not absolutely cold. On the seventh day we tested and removed all infertile eggs.

We tested again on the eighteenth day and removed all eggs that did not show the proper air cell. Out of our first hatch we got 142 healthy chicks which is a fraction less than 70 per cent. We thought this a fair hatch for beginners but decided to do better. We tried to use more care in selecting eggs and were more careful to turn them every day while saving enough to fill the machine. Again we kept them at an even temperature while saving them. The machine was operated the same as before except that we sprinkled the eggs on the seventeenth and nineteenth days and this time we were delighted when we opened the machine and counted 153 lively chicks or 85 per cent; we have since gotten 90 per cent hatches and some a little better. When the hatch is completed we open the machine and remove all shells and eggs that have failed to hatch. Do not leave a few eggs in the machine hoping that they will hatch. A chick that is not out on the twenty-second day is a failure.

We leave the chicks in the machine from 24 to 36 hours without feed or water, as the chick has enough nourishment when hatched to last this long. In the meantime we warm up the brooder to about 100 degrees, and remove chicks to it. The temperature is reduced about one degree a day until they are old enough to get along without artificial heat. Later in the spring when the weather gets warm we set a number of hens at the time we set the machines, and if we test out any eggs and find them infertile, we take enough from the hens to fill the machine, as there is no danger of eggs being broken in an incubator. When the eggs hatch we give every hen about 36 chickens. This plan is better in warm weather than the brooder, but of course in the early spring when the weather is cold the brooder is the better.

The first feed consists of bread soaked in sweet milk and squeezed dry; feed sparingly but often, and never leave any feed to be run over and sour as this is a source of bowel trouble and kindred ailments. After about three days we begin feeding a commercial chick feed also meat scraps chopped fine. Keep shorts and bran before the chicks constantly in a self feeder, so they cannot get in. I keep fresh, clear water before them all the time, also an abundance of milk. When the chicks are about 10 days old we begin feeding cracked kafir, ground wheat, and sprouted oats. We had the best success this year of any; we can produce 2 pound broilers in 10 weeks. Our advice to beginners is to get a good machine, study directions carefully until they are understood, use common sense and learn by the way, and your efforts certainly will be crowned with success. John G. Willard, Sterling, Kan.

Where Was Joe?

"I was at the big general stores in Market street the other day," said Slimfingered Joe, "when the whole electric light apparatus went wrong, and all the different departments were as black as pitch."

"My word, what a bit o' luck!" chuckled his friend. "What did you get?" "My beastly luck again. It's always dogging me. I was in the grand-piano department."—Tit-Bits.

In "society" folks worship ancestors that they wouldn't be seen with on a moonless night.

BIG BROODS CHICKS CHECKS

Make Your Hatches Pay Big Profits

Nothing cuts into poultry profits like a wasteful incubator. Cut out losses of valuable time and costly eggs, by using a Safety Hatch. 90%, 95% and even 100% hatches are common under ordinary conditions with this machine. Users everywhere write us enthusiastic letters telling of splendid success. The machine would be cheap at twice the price if you figure results.

SAFETY HATCH 4 Ply Walls INCUBATOR

Built of best seasoned and kiln dried cypress, rigidly built to withstand years of use and service. Four ply walls; of wood, felt-wood and galvanized steel. Inner door with glass light for egg inspection without exposure. Metal bound fireproof. Every part removable and easy to clean. Hinged door and lid. Famous Oakes regulator and Wilder Thermometer—large bowl lamp and heat-sever chimney.

Write for Catalog A postal will bring it; complete illustrated descriptions and pictures; prices on all sizes. Write today.

ONE MINUTE WASHER CO.
Dept. K.
El Reno, Okla.



RAYO Center INCUBATORS Give Bigger Hatches at Less Cost

That's the keynote of Rayo success. Bigger hatches at less cost is exactly what you may expect when you buy a Rayo incubator. It's not first cost that counts most. Not by any means! It's hatching ability and after cost that you want to consider. The Rayo nine-year record proves it a wonderful hatching machine. Seldom squaled. And, when it comes to low cost of operation the Rayo beats them all.

1 Gallon of Oil. 1 Filling of Tank These two special Rayo advantages prove our claim of low cost of operation. Other incubators require 8 to 10 gallons of oil to a hatch. Rayo only 1 gallon. Saves its cost in fuel alone. Takes only 1 filling of tank to a hatch. Others require 1 filling of lamp each day or 21 times to a hatch. Think of the time and labor saved.

Six Big RAYO Features

Every one stands for bigger hatches at less cost. 1st. Our Center Heating System, which means economy of fuel, more perfect heat regulation and ventilation. 2nd. Automatic Heat Control, which regulates the flame on the lamp—means economy and efficiency. 3rd. Double Glass Panel Top makes it easier to operate and see at all times how your hatch is going. Easier to air and clean, too. 4th. One Gallon of Oil to a Hatch saves you money. 5th. One Filling of Tank saves you time and labor. 6th. Perfect Ventilation. Also proper moisture arrangement. These and many other special money saving and better hatching features explained in detail in our big catalog. Get your free copy.

Get My Big 1917 Offer Which will help you get a Rayo this season at little or no cost. The most helpful offer ever made to poultry raisers. No soliciting. No canvassing. Just a straight business offer that you will be glad to accept. No obligation to accept it unless you wish. But, anyway, get our catalog, sure.

Get FREE Book Do it today before you buy any other style or make of machine. Just a postal will bring it free, postpaid. It's a check full of incubator and poultry raising facts. Write right now. Address: D. M. Davis, President, Rayo Incubator Co., U. S. Sta. 5623 Omaha, Neb.

U. S. Sta. 5623 Omaha, Neb.

LET ME INSURE YOUR SUCCESS WITH POULTRY

My world-famous high-quality incubators and brooders and my 20 Free Poultry Lessons make success easy and sure for you! Lessons given free to every purchaser of a

"SUCCESSFUL" Incubator or Brooder

Backed by 22 years of big successes and strongest guaranty ever written. Write me a postal for book and prices. "Proper Care and Feeding of Chicks, Ducks and Turkeys" sent for 10 cents. "Successful" Grain Sprouters furnish green food—make hens lay in winter. Ask about my high-grade poultry—all leading varieties.

J. S. Olfendick, Pres. DES MOINES INCUBATOR CO. 545 Second St., Des Moines, Ia. \$7.50 and up

Same Quality Same Price

Write Today

MANKATO Incubator \$7.25

a bigger bargain than ever this year at the old price—same high quality redwood case—same pure copper tank—double hot water and hot air heat—strong trays. Write today—get yours before price goes up. Mankato Incubator Co., Box 712, Mankato, Minn.

A \$45 SADDLE for \$36

CASH. Fourteen-inch swell front, 8-inch stirrup leather, guaranteed, solid steel fork. Catalog free.

Fred Mueller
1413 Larimer St. Denver, Colo.



Birds that are Pedigreed

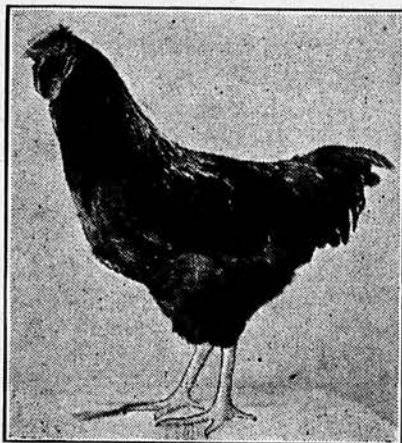
You can Develop a Laying Strain if You Try Hard Enough

BY ALBERT G. REQUA

SOMETIME ago I saw an article in an Eastern poultry journal saying there was no such thing as pedigreed birds. I see no reason why poultry should not be registered as well as stock. All stock had a starting place for registry. Eleven years ago I began breeding the Rose Comb Rhode Island Reds for egg production. For the last five years I have been keeping a flock-book registry, and now my birds are all pedigreed. I am breeding for eggs and flesh. While my system of pedigreeing may be of little value to the breeder of show birds, I feel the system will greatly benefit one who wishes to breed for eggs and size.

Here is the pedigree of Federal Barr. He was hatched May 22, 1915. His band number is 201, his flock-book number is 1122. He is a rich, dark red, even color and weighed 11 pounds and 2 ounces when he was 1 year old. He was sired by Red Cloud the 1st, whose weight was 10 pounds and 4 ounces at 1 year old. His mother was Josephine, who laid 255 eggs in one year. Red Cloud the 1st was sired by Cherokee, whose weight at 1 year old was 9½ pounds. His mother was Red Wing, who laid 242 eggs in one year. Cherokee was sired by Vol-

and fourth, color. I breed away from relationship as far as possible. I feel that my system of breeding for eggs and size has done much to produce the great



This is Federal Barr.

record of 252 eggs last year. Of course, I think feed and care have a great deal to do with it.

I have nothing to sell.

A Small Flock Eats Waste Feed

I use the hot water incubator and get the heat regulated at 103 and put the eggs in. They are turned twice a day until the eighteenth day, when I cover the eggs with a cloth wrung out in hot water, which softens the shells so the chicks get out quickly and I have no cripples. When 36 hours old I feed the chicks hard boiled eggs with plenty of sand, and seldom give them anything to drink until after feeding them, when they get sour milk and no water until 2 weeks old. I never have had bowel trouble among incubator chicks, but I admit one has to be more particular with their feed. I feed them often but in small quantities. Last spring I had 120 Rhode Island Red hens, and now have 130 hens and have sold \$73.80 worth of chickens, used a good many, and sold more than \$150 worth of eggs besides what we ate.

I do not use a brooder or put hens with the chicks, but raise them by hand and at 10 or 12 weeks of age they weigh 2 pounds apiece. I market them at a good price. I used a 160-egg incubator, tested out 20 infertile eggs and got 138 nice strong chicks, and only lost two by accident. This is my second year with the incubator. I should not try again without one, with eggs at 45 cents a dozen. Nowadays one can make a nice profit with a few hens to eat waste feed around the barnyard, and the larger the flock the heavier the pocketbook.

Mrs. C. W. Bowen.

Lone Star, Kan.

Wouldn't Use a Hen

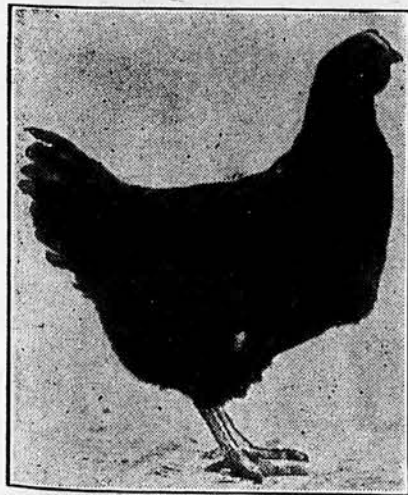
I have used my incubator 11 years and consider it a paying investment. I should not like to depend on the "hen method" to rear a flock of chicks. It is a saver of time and labor. I have a 100-egg machine and can hatch that number with less labor than caring for hens enough to hatch the same number. I plan to set hens enough when I set the incubator to take the chickens. I have better success that way than trying to raise them by hand or with a brooder.

I start my incubator in the morning, filling the tank with hot water. This saves time and oil. It does not take long to get the heat up and the damper adjusted. I set it so it raises at 103 degrees. I keep it at near 102 or 103 degrees as I can. If it goes above that I air the eggs and often dampen them with warm water.

The last few days, if the weather is dry, I lay a damp cloth over the eggs in the incubator. This helps the chicks in getting out of the shell. The problem of raising a larger percentage is still to be solved. I feed lots of milk and butter-milk. This makes the meat juicy and tender. Altho I lost a good many, I realized a nice profit from them.

Mrs. E. L. Brown.

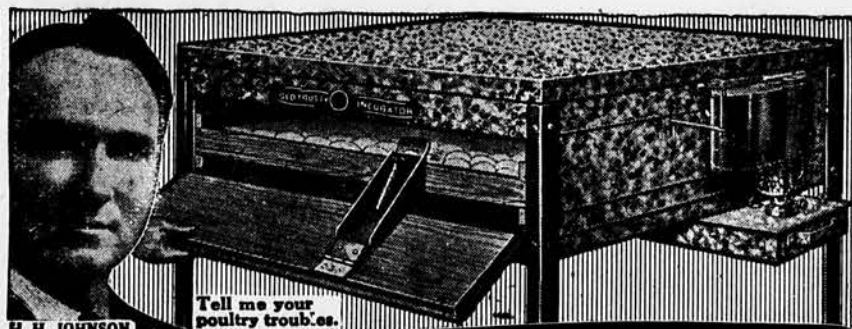
Lawrence, Kan.



Trilby the 3rd Laid 272 Eggs.

eggs. This is much better than my 1915 average, which was 236 eggs. Trilby the 3rd was one of the 10 hens that have just completed their record of 252 eggs, and her individual record is 272 eggs. Only two of my hens became broody during the season. I believe there is no reason why hens that are bred and fed right should not lay 300 eggs in a year.

I select my breeding stock first from their pedigree; second, size; third, shape;



H. H. JOHNSON

Tell me your poultry troubles.

More Convenient — Get Big Hatches With Less Work

Old Trusty always did take the cake as a work saver. This year it's still better. Note the handy thermometer holder on the door. Saves time and stooping. Also note the new big oil drawer. Holds five to six quarts. Saves filling the lamp.

Old Trusty

More unbeatable than ever with these new conveniences. Get an Old Trusty and make more money with poultry this year. Over 700,000 now in use. Quick shipment and safe arrival guaranteed from factory at Clay Center or warehouse at St. Joseph, Mo., or Seattle, Wash.

\$9.60

buys our Old Trusty "Special," redwood case, double walls, copper tank, thermometer holder; freight paid east of Rockies.

BOOK FREE

Learn how Old Trusty owners make big money making hatches in coldest weather. Write today.

The M. M. Johnson Co.
Clay Center, Neb.



Ironclad 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?



150

EGG

ironclads are

not covered

with cheap, thin

metal and painted

like some do, to

cover up poor quality of ma-

terial. Ironclads are shipped

in the natural color—you can see

exactly what you are getting. Don't

class this galvanized iron covered, de-

pendable hatcher with cheaply constructed ma-

chines—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.

IRONCLAD INCUBATOR COMPANY, Box 107, Racine, Wis.

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.

30 Days Free Trial

Money Back if not Satisfied

Both for
\$11
Freight Paid
East of Rockies

MADE OF
CALIFORNIA
REDWOOD

150
Chick
Brooder

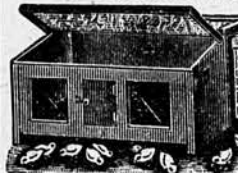
5 Monthly Payments



**MAJESTIC
Hot Water
Incubators**

Wood or Metal Covered
—65, 80, 120, 150, 175,
240, 250-Egg Size
Complete directions so that any-
one can get best results sent
with each machine.

is to get a reliable positive hatch incubator and have it hatching out brood after brood while paying for it. You couldn't get a more dependable incubator or brooder than the Majestic. The Majestic is famous for its big hatches. Heated with heavily polished copper tubular hot water tank and boiler insuring perfect distribution of heat. Special incubator lamp made of heavy metal—metal chimney with mica window so flame can be seen and regulated without removing chimney. Equipped with Automatic Regulator; perfect ventilating system; handsomely finished with mahogany colored stain; two coats durable varnish. Majestic Brooders are water proof, have perfect ventilation; two large panes of glass admit abundance of light and sunshine. Your satisfaction guaranteed. Send coupon for catalog.



HOT AIR BROODERS
Three sizes to choose from

Sensational Offer on MAJESTIC Incubators and Brooders

Before you buy an incubator or brooder of any kind mail coupon below for our catalog showing pictures, descriptions and low bargain prices of the famous Majestic Incubators and Brooders. Also explains fully our remarkable, long-time easy credit plan—without a doubt the most liberal offer ever made on incubators and brooders. We will send you any size incubator or brooder (or both) and you may pay balance in five monthly payments. We offer remarkable low prices and credit terms.

As Low As \$1.10 A Month

Get all the facts about this remarkable offer. Let us show you how easy it is to get a reliable positive hatch incubator and have it hatching out brood after brood while paying for it. You couldn't get a more dependable incubator or brooder than the Majestic. The Majestic is famous for its big hatches. Heated with heavily polished copper tubular hot water tank and boiler insuring perfect distribution of heat. Special incubator lamp made of heavy metal—metal chimney with mica window so flame can be seen and regulated without removing chimney. Equipped with Automatic Regulator; perfect ventilating system; handsomely finished with mahogany colored stain; two coats durable varnish. Majestic Brooders are water proof, have perfect ventilation; two large panes of glass admit abundance of light and sunshine. Your satisfaction guaranteed. Send coupon for catalog.

UNIVERSAL MAIL ORDER CO., 145-153 W. 39th St., Dept. 502, Chicago. Send me free, your Majestic Incubator and Brooder Catalog and full details of your remarkable Five Monthly Payment offer.

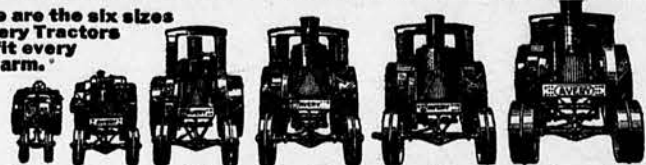
Name.....

Address.....

City..... State.....

When writing to advertisers please mention Farmers Mail and Breeze.

These are the six sizes of Avery Tractors that fit every size farm.



How to Run an Avery Tractor Told in This 100-Page Book



This book is said by many to be the best Tractor Instruction Book ever issued. It is one feature of the superior service you get with an Avery Tractor.

Avery Tractors are built in our own large modern factory under our own supervision. This insures your getting a well built machine when you get an Avery. Avery Tractors have been put to every kind of a test known and have proved that they will do all we claim for them and even more. You get with your Avery Tractor one of these valuable instruction books that tells you clearly how to operate it. And if you should need any repairs or help, we have our own branch houses located at convenient points where large stocks of repairs are kept and a force of trained service men maintained which insures you prompt and permanent service.

This is the kind of service you get when you buy an Avery. Six sizes Tractors and Plows to fit every size farm—Threshers in sizes to fit every size run—Two-Row Motor Cultivator. Write for new 1917 Catalog and name of nearest dealer.

AVERY COMPANY, 1004 Iowa Street, PEORIA, ILLINOIS

AVERY

Tractors and Plows—6 Sizes—Fit Any Size Farm

For WHEAT and CORN

ALFALFA and all other crops, a perfect seed bed is as important as to seed or plant. The Western Pulverizer, packs and mulches—makes a perfect seed bed—at one operation, without extra horsepower. Especially adapted for breaking crust on winter wheat or other grain—forms the hardest crust into a granular surface mulch without hurting the grain. Stops evaporation—preserves moisture.

Western Pulverizer, Packer and Mulcher

Made in 8 sizes, 1 and 3 sections. Sold direct, price \$20 and up. We want every farmer to have our free catalog before buying a roller or packer. It will prove we can save you money and have far the best machine. Contains full description and price direct to you, letters from many farmers proving its advantages over other makes, and much other valuable information. Send for it today.

WESTERN LAND ROLLER CO., Hastings, Nebr.

Box 208.



Let Us Send You Six Roses Free

Roses That Have Made the Ramblers Famous

Of all flowers, no other excites so much attention and admiration as Climbing Roses, and none gives more pleasure; adapting themselves as they do, to many uses. The varieties we offer have been selected for their hardiness, strong, climbing habit, freedom of bloom, beauty of flower and sweetness of scent. These roses are rapid climbers, frequently producing shoots from ten to twenty feet in a single season. The flowers are produced in lavish profusion and present many beautiful and gorgeous colors. These roses are admirably suited for porches, arbors, walls, trellises, etc., and are also valuable for fences and lattice work around the home or garden. Of the many Rambler roses introduced in the past few years, the following list presents roses which have been recognized as the

"All Star Collection"

The roses that we offer are from one of the largest nurseries in the world and are guaranteed to reach the subscribers in good growing condition. They are strong one-year plants, well rooted and are of blooming size. The instructions sent with the roses, will make it easy for you to bring the plants in fine large bushes even if you have never before grown roses.

Description of the Climbing Roses

White Dorothy Perkins

A pure white sprout of well-known Dorothy Perkins, of same habit of growth and freedom of flowering; a splendid companion for the pink variety, as it flowers same time. A valuable addition to the class. Awarded gold medal National Rose Society, and award of merit Temple Show, England.

Tausendchon

Tausendchon, which in German means Thousand Beauties, is a beautiful rose with colors running from delicate balsam or tender rose through the intermediate shades of bright rose and carmine, with white, yellow and various other delicate tints showing. Strong and hardy.

Dorothy Perkins

Beautiful shell pink. A rapid grower, frequently developing shoots from 10 to 15 feet long in one season. Hardy, withstanding the severest winters without injury. Blooms in clusters, flowers double and large.

White Baby Rambler

This is a true ever-blooming Crimson Rambler. There has been a widespread demand for a Crimson Rambler that would bloom more than once. Here you have it. Everyone knows how Baby Rambler is always in bloom. This is simply a climbing form of the Baby Rambler, embracing all its good qualities.

Shower of Gold

Color deep golden-yellow and orange. A very vigorous grower. The foliage is beautiful in form, in color, and in its metallic luster. Produces a mass of bloom. One of the finest, leaving little to be desired in a yellow.

Excelsa

A distinct variety in color, form and habit. The color is an intense crimson-maroon, with tips of the petals tinged scarlet. Flowers large and double, 30 to 40 on a stem, and almost every eye on a shoot produces a cluster of bright blossoms.

SPECIAL OFFER We will send six of these beautiful Climbing Roses free and postpaid to all who send us 60c to pay for a THREE year subscription to the Missouri Valley Farmer. New or renewal subscriptions accepted on this offer.

MISSOURI VALLEY FARMER, Rose Dept. 2, Topeka, Kan.

TOM McNEAL'S ANSWERS

I sent a check to county treasurer, December 18, to pay my taxes but did not give the numbers of my land. The treasurer returned my check. Can he compel me to look up the numbers of my land or am I obliged to send the numbers with the check? Of course I did not get my rebate, and it looked to me as if the treasurer tried to beat me out of it. MRS. G. J. Geneseo, Kan.

The county treasurer is under no obligation to look up the description of the property on which the taxpayer wishes to pay taxes. He may do so, merely as a matter of accommodation. You say that you sent the check December 18. That is the busiest time of the year for the treasurer and his staff. It is scarcely reasonable to expect the treasurer to look up the record of lands owned by a tax payer.

Sale of Cornstalks.

A sells farm to C in the spring of 1916 and reserves the right to live in the house, and gather the crop of 1916. In May he sells to B a right to part of the land with the use of the house, and moves out of the state. The remainder of the land he let to C to put into corn. After husking the corn C sells the stalks to D to be pastured by D's stock. Has A or C the right to sell the cornstalks when both have left the state? Cuba, Kan.

I assume that the sale of stalks covered only those on the ground farmed by C. If so I see no objection, provided the pasturing of this stalk field does not interfere with the crop raised by B.

Question of Guardianship.

A's parents live in Oklahoma. A has three brothers and one sister. The parents live alone and take care of themselves. Their ages are 75 and 77. Their minds are good and they have an income of \$1 a day. A's sister wants to be appointed their guardian but A says they do not need a guardian. Would all the children have to be willing and agree to the appointing of a guardian before it could be done? Plainview, Tex. W. L.

From your statement of the facts a guardian could not be appointed either with the consent of the sister or of all the children. So long as these old persons are capable of taking care of themselves the court has no authority to impose a guardian upon them. In case they become incapable, physically or mentally, of taking care of themselves, then the court having jurisdiction would have a right to appoint a guardian either upon the suggestion of one or all of the children, or of any other person familiar with the facts in the case, or upon his own motion.

Division of Property.

A certain couple died leaving a quarter-section of land but no will. One of the heirs to this property died and when the youngest child of said heir became of age, five years later, the children of said heir brought suit for partition of estate. The land was sold under order of court and bought by the other heirs, the children of the deceased heir being paid for their shares. The estate was then placed in names of the purchasing heirs with the provision that no division except a specified number of acres of the quarter-section should go to any one heir, that no particular part of the land should be set off to any particular heir. Secondly, that upon the death of any heir his part of the estate should go to his heirs but still remain an undivided part of the estate. This disposition of the estate was made without the consent of the wife or family of one of the heirs, the children of this heir being of age. This heir and his family do not live on the land or receive any benefits except a small rental for his share. The other heirs live on the estate. Was the transaction legal? Supposing this heir should die, what could the wife and family do about the division of the estate? SUBSCRIBER.

The agreement being assented to as I understand by all the heirs, it was valid and binding on them. But in the event of the death of one of the heirs party to this agreement, his heirs would, in my opinion, have a right to ask for a partition of the estate.

Dairy Laws.

What is the law in Kansas in regard to buying and selling cream and butterfat? Victor, Mont. F. C. GIBBS.

Speaking generally, the regulation of dairies, butter and ice cream factories and cheese factories is in the hands of the state dairy commissioner. He and his deputies are authorized to enter and inspect all creameries, cheese and ice cream factories and other factories where dairy products are manufactured and sold. It is their duty to test milk, cream and other dairy products for the percentage of butterfat or other ingredients contained therein. It is unlawful to handle dairy products in unclean or insanitary places connected with rooms where there are kept oils, vegetables, eggs, poultry, or in connection with sta-

bles or pens where horses, cattle or hogs are kept.

The definitions of milk, cream, butterfat and butter under our law are as follows: Whole milk is the milk from healthy cows, excluding that obtained 15 days before and five days after calving, and contains not less than 3 1/4 per cent of butterfat; milk for butterfat may contain less than 3 1/4 per cent butterfat, but must be delivered pure, sweet and clean.

Standard cream contains not less than 18 per cent butterfat; cream to be used in the manufacture of butter that is not delivered to point of shipment within 24 hours after milking must contain not less than 25 per cent butterfat. No cream to be used in the manufacture of butter or other food products shall be more than three days old when delivered to point of shipment between the months of May and October and not more than four days old if delivered between October and May. Butter, according to our law, must contain at least 80 per cent butterfat and less than 16 per cent water. If butter contains less than 80 per cent butterfat or more than 16 per cent water it is deemed adulterated butter and condemned for food purposes. This is the same rule applied to renovated or process butter. Vegetable coloring matter decided to be harmless by the dairy commissioner, may be used in coloring either new or renovated butter.

The tests prescribed by our law are such as shall be established from time to time by the United States Department of Agriculture. No one is permitted to make tests of butter, milk or other dairy products without first obtaining a permit from the state dairy commissioner. If any further information is desired I would suggest that you write the dairy commissioner at Manhattan, Kan.

Wife's Inheritance.

A has two children by a former wife. He owns 80 acres in Illinois which is in his parents' name, also owns some personal property. His indebtedness is about \$300. Total value of estate about \$5,000. B, his wife, has one child by a former marriage and owns 160 acres in Kansas, also some personal property, all free from incumbrance. In case of the death of either person how would the property be divided? In case A should die first and the property be divided, would his children share in B's property at her death? A wishes his wife to buy land adjoining his in Wayne county, Illinois, and have the deed made to her in her name. In case she does that could she sell or convey said land independently of A, her husband? In case of separation, or at any time, could she give a good title without his signature? Do men and women share alike in each other's property? B. M.

Assuming that these persons live in Kansas, and either dies without will, the survivor would inherit half of the estate of the deceased, while the other half would go to the children of the deceased. In case A dies first without will, his children will inherit half of the estate that belonged to him but will not inherit any part of their stepmother's estate at her death. The same rule will apply to the children of the wife; they would inherit half of her estate at her death, but none of the estate of their stepfather at his death unless he should will it to them. If these two live in Illinois and one dies, the survivor inherits a dower right of one-third of the property of the deceased and would have the option of surrendering this dower and taking instead, one-half of the estate of the deceased subject to the payment of his or her debts. The wife could not, while her husband lived and the marriage relation continued, convey title to her real estate without her husband's signature to the deed. In case of a divorce she would then have the right to convey the property without the consent of her divorced husband. In both Kansas and Illinois husband and wife share alike in each other's property.

Road Rights.

A man and I were coming out of town. The other man was in front of me. We were both on the right side of the road but he was running very slow and I wanted to pass. Just as I was starting round to the left he pulled to the left hand side of the road. Then I pulled to the right and he pulled across the road to go in a gate and we ran together. Who was to blame? SUBSCRIBER.

From your statement of the facts the other man was clearly responsible.

The Widow's Estate.

A widow with children owns land. All of her children are married. The oldest son dies leaving a wife, but no children. In a few years the wife marries again. Would she be entitled to a share of her first mother-in-law's property; and if the property were sold would she have to sign the deed? SUBSCRIBER.

No, to both questions.

Mention the Farmers Mail and Breeze.

More Moisture is Needed

BY GUY M. TREDWAY
Allen County

At no time has the rainfall in this locality exceeded $\frac{1}{2}$ inch since June 20. One of the bad effects is the fact that many cattle are getting water but once a day. Dairy cows would do much better with water available at all times. The extra work of getting them to water or hauling it to them has been very great for six months.

Farmers who sowed rye early in September got a rain that brought it up promptly. Some rye sowed later did not come up. With some of this later sowing timothy was added. This did not come up. Seed and time spent on the seedbed were a total loss except that the ground can be sowed to oats or planted to corn in the spring by double disking, the work of plowing being saved. The dry winter has hurt the prospect for a rye crop even where a good stand was obtained.

Our rye was placed on ground planted to kafir in the spring for a silage crop. The excessively wet June brought up grass and weeds in abundance, as the land had a dressing of 10 large loads of manure to the acre in the fall and winter before, but rotted the kafir seed. As soon as the ground could be worked it was plowed and planted to feterita in hopes that a silage crop might still be obtained. The feterita was planted July 4. No rain fell for more than six weeks and only about $\frac{1}{4}$ the seed came up. In September the rye was broadcasted and the feterita cultivated. Later what feterita ripened was topped.

With the mercury indicating 10 degrees below zero recently it was believed the stalks might be broken and got out of the way for cutting the rye. However, only a few of them broke under a heavy hedge pole. We shall wait a little longer, hoping for a sleet during February. If they can be broken it will take much less time than to cut them with a stalk cutter.

The disposition to be made of the rye in the spring will be determined by conditions then. It will be pastured, perhaps heavily, and then turned under. As the land has been manured recently and has been kept well supplied with humus this is not particularly necessary. It may be lightly pastured and harvested. This will make quick work necessary if a crop of feterita is obtained after the rye is harvested. A hay crop could be grown either millet, cane or sudan grass, but a large enough proportion of the farm is in clover and alfalfa so a grain crop is what is needed rather than hay.

We have free gas as a condition of our lease. For several years there has not been sufficient gas in cold weather. A change in the piping has put us on the end of the line near the well, and no lack has been experienced during the recent cold weather. Neighbors on the same line but whose pipes leading to the house merely tap the line have had only what escaped thru the vent to their pipes and have had insufficient gas. A few who have land to lease to the gas company get a higher price than we did 21 years ago but have had to burn coal all this time. Heavy producing gas and oil wells are being drilled in this county at the present time.

In a recent issue of a farm paper a young man asked the proper way to hitch and unhitch a team. This seems a foolish question, yet we have much trouble to get farm hands to hitch up and unhitch properly. It is a rule on this farm that no matter how gentle the team may be the inside checks must be hitched first and unhitched last. We have seen more than one runaway by hitching or unhitching the traces first or last. Had we not followed our rule carefully today one or both of our young mules would have been off with the pole used in breaking stalks with them.

Spreading the Wheat Straw

BY D. M. HESSENFLOW
Republic County

One field of our wheat is covered with straw and manure. We are using a Simplex straw spreader and it does nice work. There are eight forks on the two beaters. These tear all bunches of straw and manure apart and scatter it 8 to 10

feet on each side of the rack. It does a good job in wet stack bottoms.

There are several farmers in this locality using straw spreaders. We use two horses on the one we have and it does not work them hard. We can use it now only on a morning while the ground is frozen as the wheels and horses cut up the wheat too much after it thaws. We usually get out three loads before the ground gets soft. Some farmers are not yet convinced of the value of wheat straw as a fertilizer.

I was talking with a farmer recently who waits for his straw to rot so he can haul it out with a manure spreader. This method may be profitable in time, but the more economical method would be to use the straw spreader and spread it as soon as the wheat is sown in the fall, thus utilizing the ground on which the stack would stand until rotted. With wheat selling at \$1.80 a bushel, an effort should be made to increase the yield, and straw is helpful.

I purchased a surface cultivator last season. The corn on which I used it made from 2 to 5 bushels more an acre than that laid by with the shovel cultivator. Instead of shovels, the surface

cultivator has four blades, 24 inches long. The front blades cut under the surface about 2½ inches, while the ones in the rear cut from 3½ to 4 inches. Behind the blades there are two rakes that pulverize the loose dirt as it is turned up leaving a mulch on top to conserve the moisture. The main element in surface cultivation is to protect the roots of the corn which the shovel cultivator will not do.

I used the surface cultivator the first time, leaving the field as clean as a garden, and then it began raining and continued for two weeks. As the check wire on the planter I used was old it kept breaking, the result being a poor check. I could not cross plow it, therefore I was compelled to use the shovel cultivator the second time, plowing the same way that I did the first time, setting all the shovels to throw the dirt in and thus covering the weeds. I followed this with the surface cultivator in laying the corn by. This cultivator pulls lighter than the shovel cultivator.

We fed all the oats straw last week and are starting on the wheat straw. The animals like it, as the wheat was

cut a little green and the straw comes out of the stack as nice as when it was cut. The horses are getting a new feed now, consisting of 3 pounds of corn and 1 pound of ground linseed meal and a manger almost full of wheat straw with a small amount of alfalfa hay on top.

I have been told that cottonseed meal is cheaper than the ground linseed, but as I could not get it I took the linseed meal. One cannot imagine the feed it saves until it is fed for a week or so, as it gives the hair a nicer color and also acts as a laxative. We built a new feed rack in the lot and keep it full of wheat straw. In the morning we place alfalfa leaves over this.

To Rid a Dog of Worms

Please suggest a remedy for a dog that has worms. He is 2 years old, and large.

As a remedy against worms in dogs I should advise that the animal be given a mixture of 3 grains of santonin mixed with 2 ounces of castor oil. This should be given at one dose. It is advisable to repeat the same remedy at the end of a week.

Dr. R. R. Dykstra.

K. S. A. C.

Mention the Farmers Mail and Breeze.

Guarantee

Longest Life To Any Automobile Made

AS well expect to "veal calves" on skimmed milk and get the best market price as to try to get the greatest horsepower per-dollar-cost out of your automobile by using low-grade gasolines sold by peddlers, or of unknown quality or reputation.

And you might just as well leave your car or other machinery out in the blasts of snow or rain, to rust away, as to try to fight friction with low-grade, unknown quality motor oils.

Why EN-AR-CO NATIONAL CARBONLESS MOTOR OIL and White Rose Gasoline Reduce Expenses

THOUSANDS of motorists write and tell us that before they started to use National Carbonless Motor Oil and White Rose Gasoline they had to "buy blindly."

Just as often they got very poor oil and very poor gasoline—regardless of the price they paid, whether at home or touring.

"It's a case of trust to luck when you buy any other oil or gasoline," they say, "no matter what price they stick you for."

National Carbonless Motor Oil and White Rose Gasoline are always superior for use, in any make car, no matter where purchased. They are always UNIFORM in Quality.

All En-ar-co Products are always made on the "Quality First" principle, regardless of cost of raw materials, labor, time, scientific laboratory investigation and rigid tests both in the processes of making and in practical tryouts and use on every make of car.

Over 35 years of established good will with the public proves the superiority of En-ar-co Products.

We give every opportunity to you to prove these facts for yourself—for your lasting satisfaction and constant savings, dollar for dollar, in bigger value received in every gallon of these products.

Our Guarantee

The cost of operating any car made is too great—much more than it should be—unless National Carbonless Motor Oil and White Rose Gasoline are used.

When you use these EN-AR-CO First-Quality Products we guarantee: 1—More horsepower developed. 2—Minimum costs for repairs, caused by friction. 3—More miles per gallon. 4—Lowest operating cost per mile. 5—Longest life to any car. 6—Highest value when the car is to be traded or sold.

John V. B. Fritter
Vice President.

THE NATIONAL REFINING COMPANY
General Offices: 1185 Rose Building, Cleveland, Ohio

National "Quality First" Products

National Carbonless Motor Oil

Proved highest quality by years of most practical tests and use. Guaranteed clean, clean, carbon-free. Lubricates perfectly without oil burning. Guaranteed to eliminate costly repair bills, caused by friction, and to give perfect satisfaction in any make of automobile, motor boat or power engine. Try it.

White Rose Gasoline

Thousands of car owners refuse any other. Pure, dry, carbon-free gasoline. Every drop is power. Always uniform in quality. Insures continuous power—even pull—quick get-away—a silent, flexible power that means far greater mileage per dollar. Prove these facts easily by trying it.

National Light Oil

The bright-burning oil—the A1 oil for lamps—no odor—no black chimneys. Best also for oil heaters; for the hot-weather oil cook stove; for incubators and brooders. Insist on getting this oil for most perfect satisfaction.

Black Beauty Axle Grease

Absolutely superior to any other and goes twice as far as ordinary grease. Won't spoil. Packed in useful galvanized pails. Friction-free, wear-resisting. No compound to clog and gum. Wagons last much longer and the load

for the horse much lighter. Practical farmers everywhere refuse to use any other.

En-ar-co Tractor Oil

You need this especially made oil for modern tractors. Has proper body to lubricate most efficiently. Hundreds of farmers tell us they have never been able to match its quality. Try it; prove these facts to your lasting profit.

National Frictionless Compound

The leading grease for Automobiles. Also for use in screw compression cups, crank pins, cross heads, valve motions, eccentric, slides, pillow blocks, main journals, and in all heavy open bearings. Try it.

and enclose two 2-cent stamps. Send me Handy Long-Distance Oil Can FREE. Please give nearest shipping point in this State and quote prices on items I have marked. I will be in the market about—

(Date above)
I use.....gals. gasoline per year I use.....auto grease per year
I use.....gals. motor oil per year I use.....gals. kerosene per year
I use.....lbs. axle grease per year I use.....gals. tractor oil per year

My Name is.....

R. F. D. Postoffice..... State.....

Tear or Cut Out—Mail Today

NOTE—This can will not be sent except to Owners of Tractors or Automobiles when you fill out coupon complete, please. Not for boys or girls.




For 36 Years—Always
the Sign of Absolutely
Unqualified Satisfaction



10 1/2¢ A Rod

164 Different Styles



Why pay more than my low factory price for the highest quality fence of every kind, weight and size? I save you three or four profits and ship direct from my big factory or warehouse located near you, saving you on freight.

GUARANTEED EVERY INCH PERFECT

Every style and weight of fence and gates—made of very best wire by a skilled corps of wire workers guided by the Ottawa policy of Quality First, last, and all the time. If fence you order from my factory does not prove to be just what I claim—ship it back at my expense and I'll return your money, including any freight charges paid by you. That's my guarantee. Nothing could be stronger. Means your protection. Indicates my confidence in Ottawa Fence.

HEAVILY GALVANIZED—Withstands All Weather Conditions

Years and years of service goes with each roll of Ottawa Wire Fence. If it fails to make good in any way, tear it down and ship it back.

FREE BOOK. Send your name and address now, and I'll mail you postpaid my Free Book of Wire Mill Styles longest, 150 prices. Get my book and see how much I save you.—GEO. E. LONG, Pres., OTTAWA MANUFACTURING CO., 103 King Street, Ottawa, Kansas.

OTTAWA NON-SLIP TIE.

THE most valuable idea ever used in fence manufacturing. It cannot slip—it is guaranteed not to slip. It will hold under any and all conditions.

FREE

TO LANDOWNERS

Handy Pocket Size of Ropp's New Calculator—saves figuring, prevents mistakes. Answers almost any farm problem. Sent free with catalog of

Square Deal Fence



to any farmer who has not already received a copy. Catalog shows why SQUARE DEAL FENCE outlasts all others; why it stays tight and trim the year 'round. Write for these free books today.

Answers Almost Any Question That Arises on the Farm


KEYSTONE STEEL & WIRE CO.
649 Industrial Street, Peoria, Illinois

FARM FENCE

16 1/2 CENTS A ROD FOR a 36-inch high fence; 23 1/2 c. a rod for 42-in. 31 styles Farm, Poultry and Lawn Fences. Low prices Barbed Wire. **FACTORY TO USER DIRECT.** Sold on 30 days FREE TRIAL. Write for free catalog now. **INTERLOCKING FENCE CO.** Box 125 MORTON, ILLS.

13c PER ROD UP

BROWN FENCE



Write for Greatest money saving fence bargain book ever printed. Brown fence is made of Heavy DOUBLE GALVANIZED Wire. Resists rust longest. 150 styles. Also Gates, Steel Posts, Barb Wire. Low Factory Prices, Freight Prepaid. Write for wonderful free fence book and sample to test. **The Brown Fence & Wire Co., Dept. 1013, Cleveland, Ohio.**

THE NEVER GET-AWAY BRIDLE BIT



\$100.00 reward if you show me a team that cannot be stopped and controlled with this wonderful Bit. Every farmer and ranchman needs a pair.

10 Days Free Trial will send you these Bits on 10 days free trial, prepaid parcel post, if you furnish bank reference. If as represented, send \$1.50 each, if not, return the Bits.

Wm. H. Niemann, Litchfield, Ill.

12 Flowering Shrubs



The Largest and Most Magnificent Collection ever Offered. One year size, they will bloom the same year planted and every year after, surrounding your home with a fragrant sea of ever-changing fragrant bloom. This beautiful collection is

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

Farmers Mail and Breeze, 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.

Name.....

Address.....

Please Check whether a NEW () or a RENEWAL () subscription.

What Shall I Do, Doctor?

BY DR. CHARLES LERRIGO

Answer in Next Issue.

I receive the modest request "Answer in the next issue" so often that I feel obliged to tell you why I can't. The "next issue" is being made up even as you read the present one, so it is quite out of the question. Only in a few cases can I reply even in the next but one. The trouble is that there is a limit to the number of replies that can be printed in any one issue of the paper, and I always have a long waiting list. I never go into the office of the editor without hearing a pleasant discourse on the scarcity of white paper and the absolute necessity for making everything very short. You will see, therefore, that a certain selection must be made as to the replies that are printed, and those that get into print naturally will be on subjects of a general rather than personal interest. I make this explanation lest some of you feel slighted because no replies have been made to your letters.

There is another side to this matter: The "What Shall I do, Doctor," column is intended as a matter of real service. No one ever is overlooked who takes the trouble to enclose a stamped, addressed envelope for reply. In such cases the reply usually will be made inside of a week. This is the only way to handle letters requiring an early answer, letters of a strictly personal character or those dealing with the subjects commonly classified as "delicate." I may need a little time but I will do my best for you. As was announced when the department was opened this is not intended to supersede the family doctor but rather to supplement him, or to help those so unfortunate as to be out of the doctor's range. A good sister who wrote last week and admitted to being the mother of seven, allowed her maternal solicitude so to overflow that before she had finished her long letter she had described the infirmities of every one and asked me to clear them all up. Her intentions were of the best but the multiplicity of symptoms confounding. One at a time, please!

Take Care of Yourself.

I am bothered with ovarian trouble. A pain gets into my left side below waist line and at times radiates to my knee and up to my shoulder, and finally hangs in my left hip for a week or 10 days. I am 30 years old, and have been married 11 years. I would be grateful for some method of home treatment. The physicians here generally prescribe operations for such troubles. What do you think, and would they be dangerous? By what symptoms may I know there is an ovarian tumor? At times there is a burning sensation low down in my back on left side. What shall I do? A SUBSCRIBER.

You cannot diagnose an ovarian tumor by symptoms. The only reliable method of diagnosis is an examination at the hands of one skilled in such work. It requires an educated touch to distinguish a small tumor from normal tissues, and many a mistake has been made. An operation to remove an ovarian tumor is not a dangerous operation; but do not have one performed unless a definite diagnosis is made by a skilled diagnostician. Try a few months of easy living. Keep off your feet entirely at the critical periods of the month; take a good rest every afternoon; attempt no hard work; eat nourishing food and if possible take a glass of milk in between meals; build yourself up. Don't say this is impossible. It is not nearly so bad as being bed-ridden, and it may save you an operation.

Children's Teeth.

My two little girls 9 and 7 years old have nearly all their jaw teeth decayed. Some people tell us they will never get their second set of molars, and our family physician says they will come in again. I should like your advice on this matter. B. S.

It is a great mistake to allow even the temporary or milk teeth of children to decay. A little dental work done once or twice a year will keep them in good condition until they are pushed out by their permanent successors. The first permanent teeth to appear are the first molars which come at 6 years. Then come the central incisors at 7 years and the lateral incisors at 8 years. The first bicuspids come at 9 years and the second at 10 years. The cuspids come at 11 years, the second molars at 12 years and the third molars or "wisdom teeth" anywhere from 18 years up. All of these teeth come in sets of four thus making 32 teeth in all. You will

see that the only "jaw teeth" your children would yet have of the permanent set would be the first molars. It seems probable, therefore, that the decayed teeth are those of the temporary set. Decay of temporary teeth does not necessarily interfere with the eruption of the permanent set. The danger is that the temporary teeth being removed from their place too soon, the dental arch will not expand properly and the second set of teeth will be crowded out of shape. At the age of your children there should be nothing that a dentist cannot adjust.

Get An Examination.

I have been ailing for the last two years and am no better. What shall I do or what can I do? I tried different doctors. Some say it is my stomach, some say it's my liver, some say it's my heart, and none of them did me any good. I think it's my stomach, because there is where I feel the worst. I can't eat any pork or anything that is fried much or I feel so full in the stomach. And I always have a bad taste in my mouth and my tongue is coated. I used to be sick with rheumatism when about 15 years old, now I am 30 but the rheumatism doesn't bother me any now. I drink hot water before breakfast in the morning and my bowels are quite regular once a day. Don't drink coffee or tea. I also have back ache quite a bit and have a little pain on my right side right under my ribs at times. Sometimes have a good appetite and at times have no appetite at all. I am troubled with my appendix at times, also have pains there but not bad. I have lost 20 pounds in the past two years and am poor and weak. Am a renter and have a family and am hardly able to work. Have done lots of hard work and heavy lifting when young, 15 to 20 years. Some doctors say that is the cause of my ailment, some even say it's my gall-bladder and gallstones. If you can do me any good I will appreciate it. E. Z.

A case such as yours needs very thorough observation and attention. A chronic appendicitis would produce all of the symptoms you name and would be cured only by a surgical operation. I would suggest that you arrange through your county physician to enter Bell Memorial Hospital at Rosedale, Kan., and have a thorough examination and necessary treatment.

Be Patient.

My husband and I have a problem which we wish you would help us to answer. We have been married over a year and have no child. I am past 30, my husband is 31. We wish to have children but if we cannot we would like to know, so that we may adopt children when financially able to do so, if we can have none of our own. Is there any way to tell except by physical examination, and is that always sure? C. M. N.

There is no sure way to tell. A physical examination might reveal some imperfection in one of you that would show children to be an impossibility. On the other hand it might show everything perfectly normal, and yet you would have no assurance that children would ever come to you. Nature hasn't had very long, yet, to tell you what she is going to do for you. But why not adopt a little one, anyway? There are very many homeless children ready to make childless couples happy. And they do it, too.

May Be Gallstones.

About every six weeks I am taken with a severe pain in my stomach, extending thru the upper part of the bowels. The pain lasts from 20 minutes to two hours. By this time I am covered with a cold sweat. Is it gallstones and what is the remedy? I am a widow 49 years old. WIDOW.

Your symptoms are too indefinite for an absolute diagnosis, but they would fit gallstones as well as any condition that I know. If confirmed by an absolute diagnosis the remedy is a surgical operation.

Excess Hydrochloric Acid.

Mrs. A. P. F.

Your stomach trouble is due to an excess of hydrochloric acid. This leads to ulcer of the stomach, sometimes, but your symptoms do not suggest ulcer. I think the disturbed heart action is secondary. You would get great good from a month's treatment at a good sanitarium. See answer to P. H. W.

Malignant Ulcer.

Mrs. A.: A malignant ulcer of such a character might be helped by X-Ray treatment. The only alternative is amputation. This is better than "continual misery, night and day."

Bad Skin.

R. S. H.: Blackheads and pimples usually mean acne. Treatment must be directed to the whole body. Eat carefully and avoid indulgence in sweets and rich foods. See that there is active elimination by bowels and kidneys. Take active exercise. The morning cold bath, by promoting activity of the whole skin, is very helpful in acne.

Buy Your Home Wholesale

GUARANTEED PRICES NO EXTRAS

OUR wholesale, "direct-to-you" prices include everything—lumber, millwork, hardware, paints, shingles, glass, nails, etc., with complete working blue-prints and specifications. We save you \$200 to \$500 on your home. All qualities standardized by official gradings—shipped anywhere and costs absolutely guaranteed no matter where you live. Material supplied Ready-cut reducing construction costs and labor problems. Or not Ready-cut—as you prefer. We alone price houses both ways.

Remember, you run no risk. Everything must be right to your own satisfaction. You are the sole judge. Money back on request if everything is not right. That's the Gordon-Van Tine way of doing business. That is what won us 100,000 delighted customers, all of whom buy by mail. Customers in every State. Many near you. We will refer you to them if you ask.



Barns

Barns are 95% lumber. As America's largest Lumber house, we give lowest prices. We supply all the material for complete barns from \$200 up. Send today for our big, new Barn Plan Book, just published January 1, showing this barn pictured above in 26 different sizes. Also shows many other plans of Barns and Farm Buildings of all kinds. Sent Free.

Hardware

Quality the highest, backed by our ironclad guarantee. Everything you need at wholesale. Front door locks as low as — \$1.90



Windows



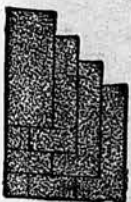
Plain and fancy in all Standard sizes. Plain rail, glazed 90c up. Transoms, 45c each. 8 x 10 window glass 5½¢ per light. Safe guaranteed. Check rail windows as low as — 75c

Doors

Immediate shipment. Glazed or unglazed. Oak, White and Yellow Pine, Fir, Cypress, Oak Veneer, Solid Yellow Pine, Interior and Front Doors. Prices run as low as — \$1.49



Roofing



Jap-a-Top Slate Sur- faced Shingles. In Red or Green. Permanent and beautiful — Also roll roofings with straight (\$2.25) or diamond point edge (\$3.00). Jap-a-Top Shingles, per square — \$5.00



Ready-Cut to Fit—or Not Ready-Cut

Write For Our FREE Plan Book

Our new book, "Gordon-Van Tine Homes," shows plans, photos, color ideas, Guaranteed Wholesale Prices. Over 200 homes shown. Model Farm Houses with big kitchens, entry-wash-rooms, etc., shown in plans Nos. 311, 312, 306, 171, 181, 169, 168. See these. Plans proven; built in every State—some near you. Local references given. Remember, this valuable book is FREE to home-builders. Send for it today. Use the coupon.

Vouched for by
3 Strong Banks
and **100,000 Satisfied Customers.**

Highest Grade Lumber At Lowest Prices

SHIPPED ANYWHERE

Lumber is the backbone of all buildings. Your building costs are in proportion to the lumber prices you pay. Buy direct! Pocket the 25% to 50% savings you make through our "wholesale to consumer" prices. It is impossible to equal our quality at the prices without lowering standards. We ship anywhere that railroads go. Get your shipments from the biggest lumber stock in America. All graded in accordance with the rules of the Lumbermen's Association. All standard, bright, clean, new. Kept protected from the weather. Write today for our big Wholesale Lumber Price List Free! Combines price list and order blank. Contains full descriptions, weights, freight rates, shipping instructions, etc. Quick shipments. Send coupon for Free Catalog.

Sample wholesale prices at which we are selling
STANDARD LUMBER to the home builders of America

2 x 4—14 and 16 ft. No. 1 Yellow Pine.....	\$25.50 per M. Ft.
2 x 8—14 and 16 ft. No. 1 Yellow Pine.....	\$25.00 per M. Ft.
1 x 8—No. 2 Yellow Pine Shiplap.....	\$24.50 per M. Ft.
1 x 6—No. 1 Yellow Pine Drop Siding.....	\$26.00 per M. Ft.
1 x 4—Clear Yellow Pine Flooring.....	\$29.00 per M. Ft.
1 x 12—White Pine Barn Boards.....	\$34.00 per M. Ft.
Fence Posts—Halfs—White Cedar, 5 in. 7 ft.....	17c each

Shingles

Washington Red Cedar. Made under official grading rules. Extra clear, 5 to 2, per 1000, \$3.60. Extra Star A Star, 6 to 2, per 1000 \$3.10



Screens

Made of Soft White Pine. Best wire screen cloth. No shoddy screens. All sizes. Door screens, \$1.90 up. Window screens as low as — 62c

Stair Work

A complete flight of stairs as low as \$23.93. Material for all kinds of stair work in stock. Prompt delivery. Services of our stair expert at your disposal free.



Porch Columns

Colonial design, built-up lock joint columns. Made from weather resisting cypress. Protected by strips for shipping. Safe delivery guaranteed. Prices range from \$5.87 to as low as — \$1.36

Paints

"Quality" Paints have a surface covering capacity of 250 to 300 sq. ft. per gal. and are backed by our ironclad guarantee of full measure and highest quality. 28 colors. In 25 gal. ½ barrels at \$1.53 per gal.; 5 gal. kits, \$1.60 per gal.; 1 gal. cans, \$1.65 per can; ½ gal. cans, 88c per can; 1 qt. cans, per can 50c.



Bargain Building Books FREE

Gordon-Van Tine Co.
6182 Gordon St.
Davenport, Iowa

Please send me FREE the books checked below.

- ☐ Gordon-Van Tine Home Plan Book
☐ Garages
☐ Barn and Out-Building Plan Book
☐ Roofing Samples
☐ Wholesale Lumber Price List

I am particularly interested in

Name

Street No.

City State

Write For This 156-Page Catalog of 5000 BUILDING and BARGAINS

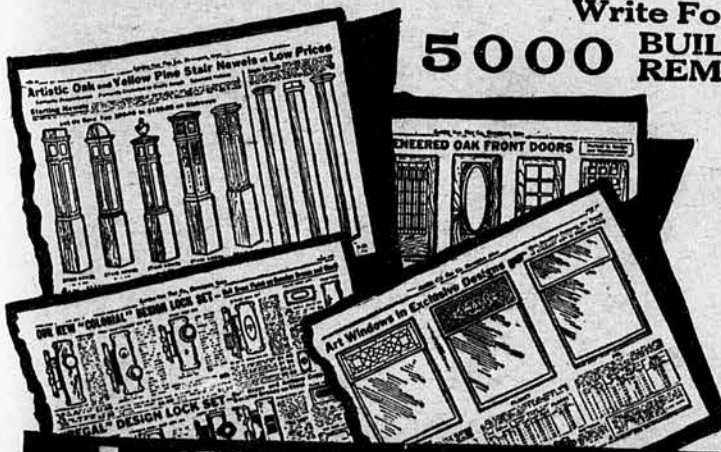
Study the four miniature pages to the left. They are samples from our big 156-page Catalog. Of course, they have been photographed very small. But you can get the big book itself—Free! Packed from cover to cover with money-savers! A veritable Builders' Encyclopedia and price-maker! Rips the bottom out of building material costs and millwork prices. Everything you need at big savings. Over 5000 items. Shipped anywhere—no matter where you live! Safe delivery guaranteed. Prices all wholesale! Send for it! FREE! Use Coupon!

Gordon-Van Tine Co.

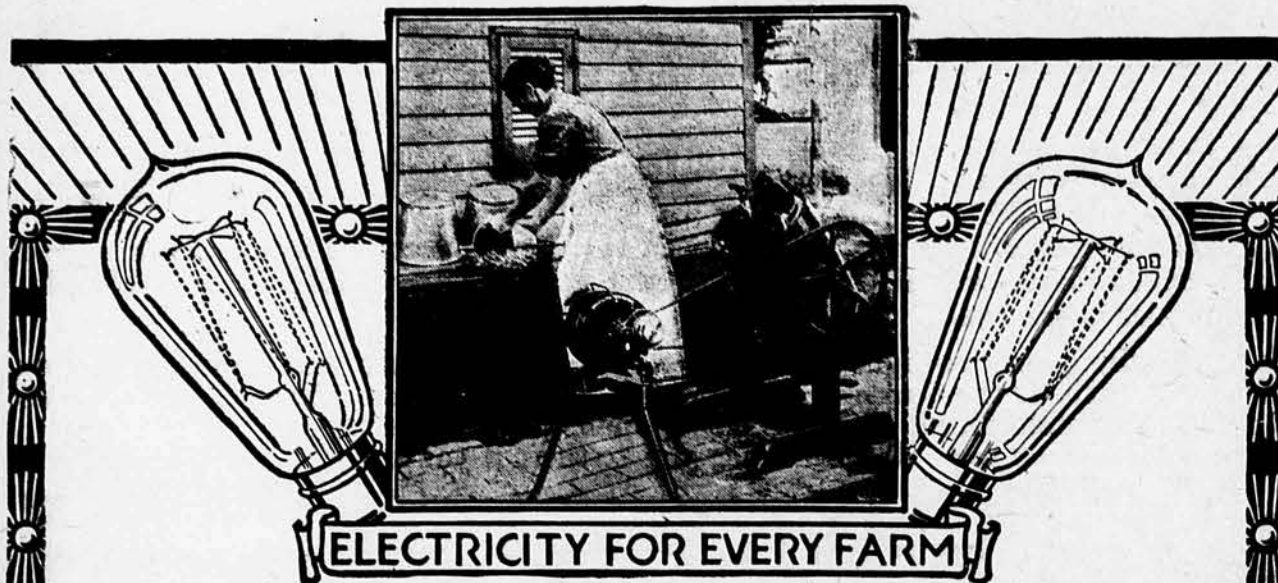
Satisfaction Guaranteed or Money Back

6182 Gordon St., Davenport, Iowa
Established Half a Century

For 156 Pages of Bargains like these send Coupon. Build Now.



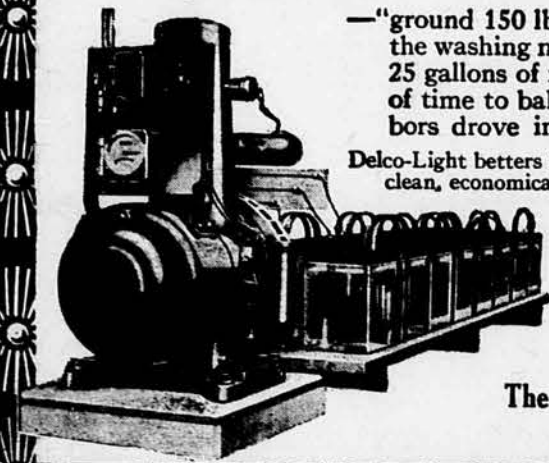
DELCO-LIGHT



All In The Day's Work

Delco-Light actually pays for itself in time and labor saved in doing the household chores.

Here is a sample day's work for Delco-Light, on the farm of A. L. Denlinger, near Engelwood, Ohio.



"ground 150 lbs. of sausage meat—churned 90 lbs. of cream—turned the washing machine and wringer for large family wash—separated 25 gallons of milk. And after all of this work, my wife had plenty of time to bake bread. During the evening, some of the neighbors drove in and we had a pleasant time under Delco-Light."

Delco-Light better living conditions on the farm. It furnishes an abundance of clean, economical, safe light for house and outbuildings. It makes possible a modern bath and running water in various parts of the house, and it furnishes power for small farm machines.

Delco-Light is a complete electric power plant—wonderfully compact, economical and efficient—and so simple that a child can care for it.

Price complete with batteries is **\$275** F.O.B. Dayton Except Western and Canadian Points.

Be sure to write for the illustrated booklet.

The Domestic Engineering Company, Dayton, Ohio

Distributor

Arnold & Long, 133 N. Market St., Wichita, Kan.

Don't Wear a Truss



C. E. BROOKS, 344 State Street, Marshall, Mich

BROOKS' APPLIANCE the modern, scientific invention, the wonderful new discovery that cures rupture will be sent on trial. No obnoxious springs or pads. Has Automatic Air Cushions. Bands and draws the broken parts together as you would a broken limb. No salves. No lies. Durable, cheap. Sent on trial to prove it. Protected by U.S. Patents. Catalog and measure blanks mailed free. Send name and address today.

We Will Send You A Pair of Gloves FREE

These gloves are made Gauntlet style from Automobile Tops and Trimmings. They will outwear several pairs of ordinary leather gloves. They will protect your hands and are exceedingly comfortable as they give plenty of finger freedom and

They Are Water Proof

These gloves are just the thing for automobile driving or work gloves. They are well made, pliable and durable.

Get Yours Today

We purchased a large supply of these gloves to give to our readers and we want you to write for your pair today.

● Free Offer—We will send one pair of these gloves to all who send us \$1.15 for one yearly subscription to Farmers Mail and Breeze, or free for one three-year subscription at \$2. New, renewal or extension subscriptions accepted on this offer.

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

Sunshine and Air In Your Hog House

MEANS HEALTHY PIGS and BIGGER PROFITS

Winter pigs are money-makers. They repay you in dollars and cents on the Fall market for every bit of care you give them. Don't take chances trying to raise early pigs in the old-fashioned way—make your hog house modern—give your young pigs direct sunshine on the cold February and March days. It means healthier, stronger, faster growing pigs—fewer losses—bigger profits, which is just what you have always wanted.

Chief Sunshine Hog House Windows Used by Thousands of Farmers

CHIEF CUPOLAS

Ventilate any building—scientifically designed. Worth three times as much as wooden cupolas—cost no more.



R. G. PERIGO, Donovan, Ill., writes that Chief Sunshine Windows are saving the pigs.

G. A. WHEATLEY, Lyon Co., Ia., Would use no others.

W. J. ISOREG, Tekamah, Neb.,

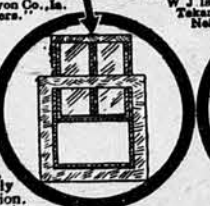
"More than pleased."

CHIEF SUNSHINE HOG HOUSE WINDOWS

Most modern and satisfactory Hog House Windows you can buy. Insure sunshine right on the floor of the pens. Designed right and made right for permanent service. Made of heavy galvanized steel throughout—can't rot, rust or warp—nothing to wear out. Absolutely leak proof. Need no repairs—no attention.

Special ventilation device. Easy to install in any hog house, old or new—satisfactory in service anywhere. Can't shrink or swell—rot or rust. Good for lifetime service. Made in two models—regular type and special ventilating type. Both convenient, serviceable and economical.

NEW SWINE RECORD SYSTEM AND FREE 4 BLUE PRINTS MODERN HOG HOUSES FREE. Write today for our splendid new Record System for Hogs—something you want. Also 4 FREE Blue Prints showing details of construction of modern-improved Hog Houses. Address



SHRAUGER & JOHNSON 580 Walnut St. ATLANTIC IOWA

When writing to advertisers please mention the Farmers Mail and Breeze.

Plan Your Hotbed Work Now

(Continued from Page 11.)

seed in the hotbed until the first week in March. The half hardy plants such as cabbage, lettuce and cauliflower, which can be put in the open ground by the last of March or the first of April should be started in the hotbed about the first week in February. If cold frames are used in connection with the hotbed, the seeds may be sown still earlier. By transplanting to the frames the plants will gradually harden and will suffer less when transplanted to the field.

A hotbed will heat vigorously for about three days and the temperature will rise to 125 degrees, after which it will cool gradually to about 90 degrees Fahrenheit. No seed should be sown while this first heating is in progress. They may be planted when the temperature has dropped to 85 or 90 degrees. Seed should be sown in drills from 4 to 6 inches apart, running across the bed from front to back. Plants which do not transplant easily should be started in flats or seed boxes. Whether sown directly in the hotbed or in the flats the seed should be watered directly after sowing with a fine spray. A hose should not be used as it has a tendency to wash out the seed.

Ventilation is one of the most important phases of hotbed management because if the bed is not properly ventilated poor results are sure to follow. Experience alone can teach us the times at which ventilation is necessary. However, there are general principles which will help to guide us. Plants requiring warmth, such as tomato, pepper and cucumber, do best in a temperature of about 75 degrees during the day, while lettuce, radish, onion, cauliflower and others thrive in a day temperature of from 55 to 65 degrees F. While it is not entirely satisfactory to grow both kinds of plants in the same bed, it can nevertheless be done by the use of partitions. Ventilation may be obtained by sliding the sash or by propping them up at the end or side.

Careless watering of a hotbed will not result so disastrously as inattention to ventilation, but if it is continued for any length of time the plants will suffer. The amount of water which should be applied depends on the season and the kind of weather, whether bright or cloudy. In the cold months, February and March, the bed will require little water because evaporation is at the minimum and during this time an application about every 10 days or two weeks will suffice. Watering then should be done only on bright days and early in the morning so the plants may have time to dry off before closing the frames for the night. An accumulation of moisture on the plants induces disease and should be avoided as far as possible.

A Future in Farming

(Continued from Page 1.)

rotations, legumes, livestock, manures and brains are going to unite to, get high production. Work will be better organized; the present extraordinary condition in the wheat counties, in which there is a huge demand for help for a few weeks and a lack of productive work for the rest of the time will be done away with. Other lines of work will be provided that will give these counties a considerable agricultural production in addition to the wheat, thus increasing the returns and decreasing the big labor demand in harvest. A diversified system will be more satisfactory from every standpoint.

(TO BE CONTINUED.)

Hogs Like Sweet Clover

Many farmers in this county are raising their own meat. The present high prices have set farmers to thinking and many more of them will raise a home supply of meat next year.

Probably 400 acres have been sown to Sweet clover this fall. Farmers who have tried it are saying good things about it. One said that his hogs traveled more than one-fourth of a mile thru alfalfa to get to the Sweet clover patch where they would stay until they got their fill. S. E. Laird, Noble Co., N. Okla.

Beauty is only skin deep. That's why a farm that has been skinned is no longer beautiful.

Sunday School Lesson Helps

BY SIDNEY W. HOLT.

Lesson for Feb. 18: Jesus heals a nobleman's son. John 4:43-54.
Golden Text: As thou hast believed so be it done unto thee. Matt. 8:13.

After a two days' stay in Samaria Jesus went to Galilee. As Galilee was the mission field of Jesus for more than a year and a half, it is well to gain a clear picture of the country and the people. The area of the district was only a little larger than Rhode Island, and the controlling feature was the Lebanon mountains. While no more rain fell in Galilee than in the rest of Palestine these mountains dispensed moisture with un-failing regularity the year round. The country was very fertile and the climate all that could be desired with its invigorating air. Orchards, vineyard and green fields flourished, flowers bloomed in profuse abundance and vegetables grew in great variety.

The exact population is a matter of speculation, but is estimated between 2 and 3 million. Josephus tells us that there were 240 cities and villages in Galilee.

The people being less bound by the rigid system of the scribes were more worldly, and more accessible to the new teachings. They had, it is true, been trained in the synagogue schools and taught by rabbis, but they also had access to a part of the Roman empire and intercourse with Roman civilization. By nature they were volcanic, fond of innovations and disposed to changes.

Galilee has played a unique part in the religious history of the world. Many of the greatest events and historic scenes of the Jews are established there. It was the home of Jesus during the greater part of His earthly life, and 11 of the 12 apostles were chosen from this "garden of God."

News travelled fast thru the crowded population of Galilee. The tidings spread swiftly that He whose boyhood and manhood had been spent among their hills, whose first miracle had been wrought in one of their village homes and who already attracted the notice and hatred of the leading Jews at Jerusalem, was again among them and staying at Cana.

At certain seasons, the heat on the borders of the Lake of Galilee produced a fever. There was a nobleman, or high officer, belonging to the court of Herod Antipas, living in Capernaum, whose only son, a little child, was lying at the point of death from this lake fever. The nobleman had heard of Jesus and had been led to look on Him as a wonderful healer, so he decided to go down to Cana at once and get aid for his son, from this wondrous miracle-worker.

Miracles with Jesus were only a means to enforce the reception of spiritual truths. To be the healer of souls was His mission, but by the nobleman's bearing Jesus knew he was unconscious of his own needs. The man had been led only thru the report of miracles and anxiety for his child, and his only thought was for the dying boy. The question awakening his need for spiritual healing, startled him. Without moral preparation in his own mind, Jesus knew that the healing of his son would only confirm the nobleman's belief in miracles and would not heal his soul. In the seeming repelling of the man's wish, Jesus opened his eyes to the greater blessings he might obtain. Of course the nobleman had thought to take Jesus back to Capernaum, but he found that distance held no check for that God-given power. He could not doubt when told, in that unaffected dignity of con-

scious superiority, to go his way for his son lived.

Comparing the length of time occupied on his homeward journey with the distance between Cana and Capernaum we know that he made no particular haste to reach home. It is more than likely that he stayed for the night at some wayside inn, resting after his long watching, his intense anxiety and the swift journey to Cana.

There would really be nothing extraordinary in this, for faith, when it is as it should be, is as restful and glad for a promise as for some evident deliverance and this particular nobleman had a new found faith which was to change his whole household, when he told them of his experience and meeting with Jesus of Nazareth.

Compel Fire Protection

I think that Samson's bill, No. 52, making it a misdemeanor to start prairie fires, should be law. But my opinion of the way to stop the prairie fires would be to ploy fire guards around every township, the cost of such work to be assessed to the land, and it be made the duty of the road overseers to see that the guards are plowed every year just as soon as the grass is dry enough to burn. Now this would be a great help; it would keep the fires from traveling. The most of the land in Western Kansas is owned by non-residents for speculation. This law would force them to help to protect their own interest which would be a

A recent morning in Topeka, when the thermometer dropped to 10 above, every boy in one of the messenger-service companies failed to report for work because "it was too cold." How quitters like these are ever to get thru the bitter mornings and the scorching noons of life, might well worry parents who know what is in store for them. A boy who cannot face a moderately cold winter morning will hoist the white flag over every difficulty he meets. He is beaten before he begins. On a farm he wouldn't be trusted to herd hens. The incident is a striking example of the spineless, character-less, undisciplined bringing up some city children are receiving. One farm-reared boy has more spunk than twenty such coddled town boys.

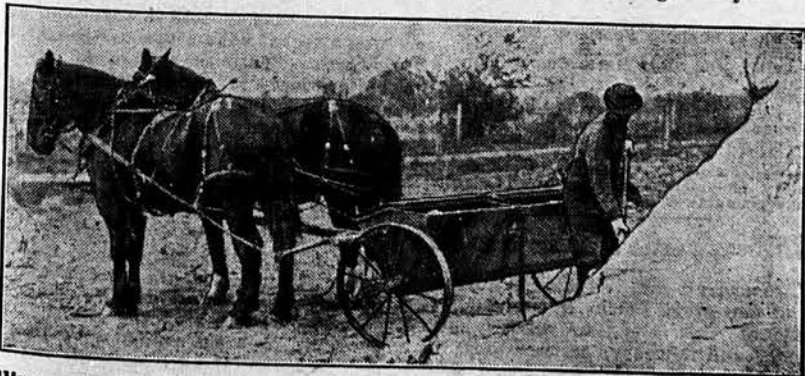
benefit in general. With land that is already in cultivation this would give the people of a township a show to keep a fire confined to a very few sections. The fires are not always set by people. I have known lightning to start prairie fires in this county. I think we need a law to force protection as much as we need a law to punish the man that starts a fire. I do not think any fair-minded man in Western Kansas, no matter if he was a large landowner, would object to such a law. J. E. SMITH.
R. 1, New Ulysses, Kan.

Limestone and Lime

BY CHARLES E. THORNE

Limestone is a compound consisting of the carbonates of calcium and magnesium, with some impurities, the magnesium usually being found in considerably smaller quantities than the calcium. One hundred pounds of calcium carbonate contains 40 pounds of calcium, 12 pounds of carbon and 48 pounds of oxygen. One hundred pounds of magnesium carbonate contains about 29 pounds of magnesium, 14 pounds of carbon and 57 pounds of oxygen.

It is the calcium and magnesium which gives to lime or limestone its value for agricultural purposes; the carbon, oxygen and water having no value except to serve as carriers of calcium and magnesium. So far as is now known, calcium and magnesium are of practically equal agricultural value. Magnesium is as necessary an element of plant food as calcium, and is equal to calcium for correcting acidity.



Filling a Lime Spreader with Ground Limestone, to be Placed on Shale Soil to Correct Acidity and to Improve Its Physical Condition.



Plant The Trees That Johnston Raises

Plant our hardy trees that are acclimated to this Middle Western country. Plant Johnston trees and avoid risks, prevent losses. Enjoy the success that can easily be yours.

Best Suited for Missouri Valley Planting

Johnston trees are raised right here in the great fruit section of the Missouri Valley and bear heavily because they are started right. True to name and proved quality. Standard varieties.

Our latest and best catalog shows all

Our Free Book should be in the hands of everybody interested in fruit growing. If you plan to plant only a few trees or a thousand get this free book and see how much we save you. Fully illustrated. Use the coupon NOW and mail TODAY.

Geo. H. Johnston,

Kansas City Nurseries
420 Reliance Bldg., Kansas City, Missouri

MAIL THIS FOR FREE BOOK

G. H. Johnston,
Kansas City Nurseries,
420 Reliance Bldg., Kansas City, Mo.
Send your big Free Catalog of Trees, Vines and Plants shipped direct at money-saving prices:

Name.....
Post Office.....
Street or R.F.D..... State.....

30 Apple or Peach Trees \$1.00

We are headquarters for all kinds of trees, small fruit plants, roses, shrubs, etc., at wholesale prices to planters. Catalog free. Fort Nursery Co., Box 358-II, Kansas City, Mo.

SEED CORN

3 leading varieties,
Pure Kershaw Oats.
Clover Seed.

PLAINVIEW HOG AND SEED FARM
Frank J. Rist, Humboldt, Neb., Box D

50 EVERBEARING FREE
STRAWBERRY PLANTS
Send Your Name Quick for Beautiful Free Plant Offer. EAT DELICIOUS STRAWBERRIES EVERY MONTH IN THE YEAR. Made and Finest Plants Ever Grown. Strawberry Plant King. Box 104, Holton, Kansas.

TREES SAVE 40 Per Cent.

Don't plant a tree, vine or shrub till you get our "cut-to-the-bone" prices. Everything for orchard and farm at saving of at least 40%. **FREE FRUIT BOOK** sent postpaid. Forty years of experience stands back of our guarantee. **WICHITA NURSERIES & SEED HOUSE**, 200 Schell Bldg., Wichita, Kans.

FREE FOR TESTING!

Genuine "Delicious" Tree. Just try a small one-year apple tree and see what a rapid growth it will make. If you act at once, we will send you free, one of the famous Genuine "Delicious" Apple Trees. Send 10c for mailing expense, or not—suit yourself. **ARKANSAS NURSERY CO.**, Fayetteville, Arkansas.

CONDON'S NEW CABBAGE PROSPERITY

Quick as lightning. Hard as stones. One of the earliest in existence. To introduce our Northern Grown "Prosperity" Cabbages we will send you a Big Package of Condon's New Prosperity Cabbages and 100 seeds FREE. Write today. **CONDON BROS., SEEDSMEN**, Rock River Valley Seed Farm, Box 730, ROCKFORD, ILLINOIS

\$2 Assortment of FREE Fruit trees and berry plants delivered

Your choice of any of the following assortments delivered to any point in Kansas, Nebraska, Missouri or Oklahoma: 12 apple, peach or pears, assorted; 10 plums or 8 cherry or 30 grape, currant, gooseberry or rhubarb; 12 2-year rose bushes, 150 spring and 50 fall bearing strawberries or 100 raspberries, blackberries or dewberries. On orders amounting to \$5 or over delivery charges prepaid west of the Mississippi River.

FREE Catalog of Trees, Shrubs and Plants. Send for it.

MANHATTAN NURSERIES, Box 11, Manhattan, Kan.

TREES

From Grower to you with all Expense for Agents Cut Out

Save 40 Per Cent! You can deal direct with me and keep tree peddler's commissions for yourself. Let me help you select the right trees and seeds for your locality. I know what will grow in your soil and your climate. For nearly 40 years right here in the southwest I have been saving thousands of dollars for thousands of farmers, orchardists and market growers. I will furnish you the trees you want at the prices you want to pay—clean, good looking, healthy, pure-drain stock, guaranteed true-to-name, carefully dug, well packed, heavily rooted, smooth, straight and strong, all ready to put in the ground and start growing. I can refer you to countless customers who have profited by my orcharding advice. It's free. So is my money-saving proposition and my big new 1917 Fruit Book and Planters Manual. Write for them today. **WICHITA NURSERIES & SEED HOUSE**, 400 Schell Bldg., Wichita, Kans.

FREE A pair of Metal Everbearing Strawberry plants, large pkt. of new Cereal Vetches, Sudan Grass and Silk Leaf Poppy seed, all Free for you please. Send 10c for mailing expense, or not, as you please. We offer genuine experience, or not, as you please. Send 10c for mailing expense, or not, as you please. **The Gardner Nursery Co.**, Box 410, Des Moines, Iowa

KAFIR DWARF BLACK HULL WHITE

The never-failing crop. Greatest forage crop ever introduced to Southwest. Surest and safest. Grows quickly and yields big in weather that would burn up corn and other crops. Ross Brothers Dwarf Black Hull White Kafir Seed is fresh and full of vitality. Only 105 days from planting to harvest—3 weeks sooner than other Kafirs. 40 to 60 bu. per acre. Wonderful silage. Samples sent free.

FREE SEED BOOK—just off the press Kafir, Milo Maize, Sudan Grass, Seed Corn, etc. Fair prices. Quality seeds for field and garden. **SEND AT ONCE.**

ROSS BROTHERS SEED CO., 204 E. Douglas Ave., Wichita, Kansas.

The Farmers of Kansas can now get

Health and Accident Insurance

In the Kansas Central Indemnity Company, of Hutchinson, Kansas, "An Old Line Stock Company," at \$5.00 quarterly premium; paying \$15.00 a week for either Sickness or Accident Indemnity, and one thousand maximum Accident Death Indemnity.

Policies pay for all diseases flesh is heir to, and Accidents common to all men. The Company is owned largely by Western Kansas Farmers, and the Policy the Farmers have been looking for. Please write us for further information. Agents Wanted—Good Commission.

Union Made
LAKIN-McKEY
OVERALLS
BUY **LAKIN-McKEY OVERALLS**
If they do not give you absolute satisfaction, take them back and get your money or a new pair free. Boys' overalls like men's. Should your dealer be out of your size, write **LAKIN-McKEY**, Ft. Scott, Kansas.

"Only a Girl's Love"

By Charles Garvice
In this intensely dramatic love story we watch with bated breath the unfolding of a high life drama of absorbing interest. Rank and wealth, pride and prejudice, vice and villainy, combine in a desperate and determined effort to break off a thrilling love match. The development, temporary rupture and final consummation of which, by the genius of the author, we are, with spell-bound interest, tense arteries and throbbing hearts privileged to witness. This desperate attempt to halt the course of true love, will be watched by the spell-bound reader with an unabated interest. **SPECIAL OFFER:** This interesting story book sent free and postage paid for one new or renewal subscription to the Missouri Valley Farmer at 50c. **MISSOURI VALLEY FARMER**, Book Dept. G.L. 2, Topeka, Kan.

I'll Send You HOG OILER
On 30 Days FREE Trial
 ROWE'S NEW IDEA (VALVELESS)
 ALVIN V. ROWE—Pres.

SEND NO MONEY I'LL SHIP THE OILER—I'LL FURNISH THE OIL—I'LL PAY THE FREIGHT.

Just tell me how many Oilers you need (allow one Oiler for every 50 hogs) and I will ship them to you freight paid, and without a cent of money in advance. I will also include free with each Oiler one gallon of Rowe's Medicated Oil so the trial won't cost you a cent. When the Oiler arrives, set them up in your hog lot and let your hogs use them 30 days. If satisfied, pay my low price shown below. If you are not pleased, just send them back at my expense. The trial is free to you.

"The Oiler Without a Fault"
 That's what thousands of satisfied users say. My "New Idea" Oiler is built heavy, strong and durable. Can't get out of order—guaranteed for 5 years. No springs to break; no valves to stick; no wheels or rollers to clog. No low down open reservoir to become filled with rain, snow or filth. No danger of freezing or flooding—works perfectly in zero weather and hottest summer days. No waste of oil. Our patent "Spoon Dip" feed measure cuts just the right amount of oil each time the hog leans against the Oiler to rub, puts it right on the hog's where needed—only 30 cents per gallon. Keeps hogs contented, healthier, thrifter; makes you more money.

Order DIRECT From This Advertisement
 You take no risk. Send no money. Use Oiler and free Oil 30 days. Pay for Oiler if pleased. Catalog Folder sent free.
 Address ALVIN V. ROWE, Pres.
 ROWE MFG. CO., 756 Liberty Street, Galesburg, Ill.

Uses Crude Oil, Medicated Oil or Dip.
 Three Rubbing Bars on each Oiler.
ON GUARD ALL THE TIME
 Cares for 50 to 500 Hogs.
 For little or big pigs.
 Over 50,000 now in use.

Save \$2 to \$12 at these low prices. Pay if pleased. One Oiler \$7.75. Two Oilers \$12.00. Freight paid. 25¢ discount on each Oiler for cash with order. Money back if not satisfied. This Freight Paid Trial Offer good anywhere in the United States except Mountain and Coast States.

Cushman Light Weight Engines

The all-purpose farm engines, for farmers who want an engine to do many jobs in many places instead of one job in one place. Built light, built right. Weigh only about one-fifth as much per horsepower as ordinary farm engines, but so well built, balanced and governed that they run even more steadily and quietly. No loud explosions, no fast-and-slow speeds, like old-fashioned heavyweights, but steady and quiet like automobile engines.

Before Buying Any Engine Ask These Questions

1. How much does it weigh? If it weighs more than 50 lbs. per horsepower, why? The old-time reason for heavy weight was to keep it steady, but if an engine is well balanced, it doesn't need pig iron to hold it down.
2. Is it Throttle Governed? A throttle governor insures steady, quiet and economical power.
3. Does it have a good carburetor? The Cushman has the Schebler. Many manufacturers of farm engines won't pay the price for a good carburetor, as they think the farmer doesn't know the importance of it.

Below is shown 4 H. P. Cushman on light truck, with water cooling tank and gas tank in front. Engine weighs only 190 lbs. Easy to pull around from job to job. Used on binder in harvest to save a team, and in wet harvest to save the crop.



Above is shown 8 H. P. 2-Cylinder Cushman mounted on 4-hole corn sheller. Engine weighs only 350 lbs. 2 cylinders give it very steady power. May also be mounted on hay press or corn picker, besides being used for all other farm work.

Floyd Wilmoth, Crawford, Kans., writes: "I have used your 8 H. P. with my 4-hole Sandwich Sheller and shelled 88,000 bushels—over 2,000 bushels a day. It takes care of wet and tough corn same as dry."

"In your advertising you say the Cushman is built to run without trouble, and it will come nearer doing this than any other engine on the market. It runs cool all the time. The upkeep has been practically nothing and the fuel consumption very small."

"Lots of people talk about it being so small, but why buy an engine that weighs 3,000 to 4,000 lbs. to do the same work a 250 lb. engine will do?"

Cushman engines are not cheap, but they are cheap in the long run. If you want an all-purpose engine, that will run for years without trouble, write for our Light Weight Engine Books. Mailed free.
CUSHMAN MOTOR WORKS
 814 No. 21st St. Lincoln, Nebr.

Why Let Your Hogs Get Cholera?

Thousands of hogs died last year from Cholera. Yet their Cholera could have been prevented by vaccination. What about your hogs? Why let them get Cholera? For just a few cents each you can make them immune from this disease.

Hog Cholera Serum Not a safer, more potent serum on the market. Prepared on a model stock farm—in white enameled laboratories—under Govt. supervision. Govt. inspected before shipped. We are close to you, so can ship you the freshest Serum you can possibly get.

Wichita-Oklahoma Serum Co.
 Oklahoma City, Okla. (Write Office Nearer You) Wichita, Kan.

Save Money! Get This Book!

Every hog-raiser who gets this HOG CHOLERA book and follows its directions is bound to save money—for he will not lose another hog from Cholera! A postal will bring this valuable book to you, FREE Postpaid. Write office closer to you of the WICHITA-OKLAHOMA SERUM CO.—NOW.



Special 30 Day OFFER To One Man In Each Township



Manson Campbell, Pres.

Even though thousands of farmers buy Simplex Straw Spreaders every season I have decided to give the Simplex further introduction. Therefore, I now make an extra Special Offer to one man in each township. Can't outline my Special Offer here. But write me and I'll explain all. It's a real surprise—a remarkable chance to MAKE as well as SAVE money. You also get my regular proposition of low factory price, 30 days' free trial with the money in your pocket—and liberal long-time credit. Offer is limited, however. May be withdrawn any time. Write now—be the lucky man!

Simplex Straw Spreader

Makes Straw Worth \$3.80 per Ton

Straw, as you know, is worth up to \$3.80 per ton—as a fertilizer—as a preventive of winter kill—as a conservator of moisture—as protection against "soil-blow."

The "Simplex" Spreader is tried and proven—five years' success—thousands in use—only machine with double-drive and double-width carrier—only machine that handles rotten, wet straw as well as bright—only

machine that spreads over 25 acres per day. PAYS FOR ITSELF, MAN, IN ONLY THREE DAYS! Try my "Spreader!" Try it! That's all I ask. No money wanted in advance nor until the machine has made good. Postal brings latest catalog. Letters from Simplex owners in your State and my Special, Private Offer mentioned at the beginning. All come FREE—by return mail. Address Manson Campbell, Pres.

MANSON CAMPBELL COMPANY, 703 Traders Bldg., Kansas City, Mo.



\$16

—That is what you save by dealing direct with me. Isn't \$16 worth saving?

What Farmers Demand

I have attended seven public gatherings of the farmers this month where the following questions were discussed. It seemed to be the unanimous opinion that the most important and much desired amendment to the state constitution is the Initiative, Referendum and Recall as is now in operation in Oregon, and that we could do no better than to copy that law verbatim. The next in importance is a constitutional amendment enabling the state and the various counties and municipalities within the state to establish and maintain such industrial enterprises and internal improvements as the majority of their electors shall from time to time so designate by popular vote. The first mentioned amendment has been in successful operation in Oregon for 14 years. Our state printing plant, which has saved the people of the state in three years \$74,781 on text books alone, is a sample of what might be done should the last mentioned amendment be adopted. With these facts before the members of the legislature the people are coming to believe that those who oppose these amendments are influenced by selfish interests. M. L. Amos, Ellsworth, Kan.

Union Wins in Kansas

Co-operation is growing rapidly among Kansas farmers. The Grange, with its 410 chapters and 30,000 members, is a fine example of this. A still more rapid growth will occur in the near future; it is just at the beginning of the real development within reach.

The fine thing about the growth of the co-operative movement in Kansas is that it is being placed on a constructive

basis. There is no wish to tear down—the ideal of the Grange is to gain more efficiency by working together, which will result in a benefit to all. Co-operation is doing much to establish a more satisfactory country life in Kansas.

left a book entitled "Why Mary Shouldn't Marry." In addition, she left three tests to try upon any man who happened to tempt her niece! The poor woman was buried deep and properly, but her will and that book seemed to keep her cackling voice alive and shouting, "Oh, Mary, Be Careful!" What were the three tests? You'll have to read the story. It is published by the J. B. Lipincott Co., Philadelphia, for \$1.

It is especially fitting that the ceremonies attending the placing of Canton's pioneer manufacturer's picture among those of other great men who have contributed to the advancement of agriculture in this great state should take place within five days of the 100th anniversary of his birth, January 21, 1817, and in the 75th year of the existence of the Parlin & Orendorff factory.—Canton Daily Gazette.

"Oh, Mary, Be Careful"

No more fascinating book could be desired in this season of reading on the farm than the delightful volume "Oh, Mary, Be Careful," by George Weston.

Mary Meacham was as pretty as a rainbow, as bright as a diamond, but what a tortured time she had in following the instructions of an old maidenish, rich aunt, who died! Aunt Myra was a disgruntled spinster who lived with her pretty niece in an ancestral home in New England. She had been so upset by an affair in her early 20's that thru the long years that followed she thought of little but men, their selfishness, their pride, their coarseness. When she died she left an amazing will—\$50,000 and the house went to Mary if she remained single, if she married, the same \$50,000 and that same house were to go to the Penobscot Home for Feeble-Minded Girls. Also she



The Growth in the Co-operative Movement is One of the Most Encouraging Things in the Progress of Farming in Kansas.

February Institute Dates

The Kansas State Agricultural college has announced the seventh and last institute circuit to be held this institute year. The towns and speakers are:

February 13 and 14, Lincoln; February 15, Waldo; February 16, Plainville; February 19, Grinnell; February 20, Grainfield; February 21 and 22, Gove; February 23 and 24, Holyrood; February 26, Assaria; February 27, Falun. Speakers: Ross M. Sherwood, poultry specialist, and W. A. Boys, district agricultural agent, West Central Kansas.

February 14 and 15, Minneapolis; February 16 and 17, Barnard; February 19 and 20, Scottsville; February 24, Ogden; February 26 and 27, Belvue. Speakers: T. H. Parks, entomologist, and Miss Estella Mather, home economics.

February 13, Fairview Church community; February 14 and 15, Baldwin; February 19, Blue Mound; February 20, Prescott; February 21, Cadmus; February 22, Cherokee; February 23 and 24, Chanute; February 26 and 27, Columbus; February 28 and March 1, Erie. Speakers: G. E. Thompson, crop specialist, and Miss Marie Coons, home economics.

February 14 and 15, Fowler; February 16 and 17, Liberal; February 19 and 20, Meade; February 21 and 22, Minneola; February 23, Bloom; February 24, Bucklin; February 26, Arlington; February 27 and 28, Sterling. Speakers: Carl P. Thompson, animal husbandry specialist, and Miss Louise Caldwell, home economics.

William Parlin's Name Honored

The portrait of William Parlin, founder of the great Parlin & Orendorff factory of this city, to whose ability, energy and industry, perhaps more than any other factor, Canton owes its present size and position among the cities of Illinois, was placed, today, in the Illi-

Heifer Died from Indigestion

I should like some information about a heifer I lost today. Two weeks ago I found that she was scouring badly, so I isolated her and began giving her pint doses of raw linseed oil three times a day. In about a week her bowels seemed almost normal. She got out of the pasture, and I had to run her quite a bit to get her back. She began scouring again after this. I gave her ½ pint doses of oil, but it did no good. Her nose began to bleed the day before she died. I opened her today, and it seemed as if all the blood was collected in the fore part of the body. I have lost three calves in the last three years in this way.

From the symptoms that you submit I am inclined to believe that your heifer was affected with acute gastro-intestinal catarrh sometimes spoken of as acute indigestion. In young animals this frequently is due to exposure, or consumption of moldy, spoiled, or decomposed food. Prevention consists in feeding wholesome food in limited quantities, freedom from exposure in animals that are not accustomed to it, and the internal administration of a laxative consisting of from ½ to 1 pint of castor oil mixed with twice as much hot water. Usually if given at the outset of the disease this will stop the ailment. If it does not, then the animal may be given small doses of laudanum until the diarrhea ceases.

K. S. A. C.

Dr. R. R. Dykstra.

Overland

Stability

YOUR car is inseparable from the institution that built it.

The service it gives you is just what its producers build into it and *keep alive* in it.

In motor cars, stability of product is inseparable from the stability of the producers.

Overland ranks first among producers of cars above the \$400 class—second in the entire industry.

There are 400,000 Overlands in use.

Overland dealers have contracted for one hundred and eighty million dollars worth of Overlands for 1917—an increase of seventy-five million dollars compared with last year.

Overland sales this year therefore will be approximately as great as the entire annual gross revenues of the New York Central Railroad.

Overland net assets have grown from *fifty-eight thousand* dollars eight years ago, to *sixty-eight million* dollars today.

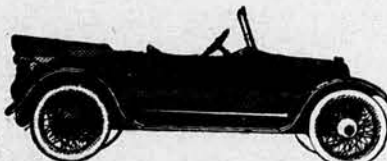
In our great Toledo plant and our allied plants, we employ nearly thirty-eight thousand men.

They directly support more than two hundred thousand people.

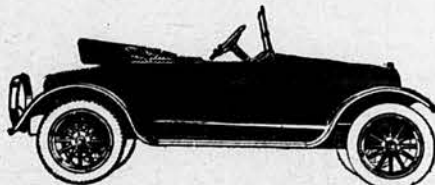
Permanent well appointed factory branches and parts depots representing an investment of millions have been established in important metropolitan centers that cover the country.



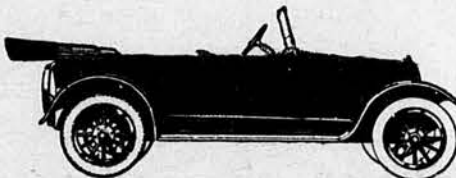
Two Passenger Roadster
Light Four, 104-in. wheelbase \$650



Four Seater Sport Model
The Country Club, 104-in. wheelbase, \$750



Big Four Roadster, 112-in. wheelbase, \$835
Light Six Roadster, 116-in. wheelbase, \$970



Light Four Touring, 106-in. wheelbase, \$665
Big Four Touring, 112-in. wheelbase, \$850
Light Six Touring, 116-in. wheelbase, \$985

All prices f. o. b. Toledo

These branches serve the five thousand Willys-Overland dealers who complete our great international service system.

These tangible evidences of the stability of the Overland Industry are your best assurance of stability of quality and service in Overland Automobiles.

The Willys-Overland line is now *complete*.

And it is the only complete line of cars built and sold—

- under *one* executive management,
- with *one* engineering staff,
- with *one* purchasing power,
- by *one* production management,
- through *one* sales force, and
- one* group of dealers.

Resulting economies amounting to millions of dollars, reduce the cost of every car—enable Overland to establish and maintain higher quality standards at lower prices.

So in your Overland you get maximum quality at minimum price—plus stability to assure permanence of value in your investment.

You can select a car in the light four group, the big four group, or the light six group.

You can select one of the cars in the luxurious Willys-Knight group.

In either case it is dominant value in its class for it has shared in the economies of Overland bigness and stability.

See the Overland dealer now and make your selection.

Catalog on request. Please address Dept. 904

The Willys-Overland Company, Toledo, Ohio

Manufacturers of Willys-Knight and Overland Automobiles and Light Commercial Cars

"Made in U. S. A."



W-H-Y
Thousands
Of Farmers
Now Use



The Bates Steel Mule

The Bates Steel Mule Owner Has All These Money-Saving Features to Help Him.



One Man Plows 10 Acres a Day



One Man Plows 30 Acres a Day



Fuel Saving Crawler

When thousands of farmers put the "OK" sign on the Bates Steel Mule, you can bank on it that the Bates Steel Mule is the one tractor for you.

It's a big success because it's a big worker—a big result getter. The largest exclusive light tractor plant in the country is hard pushed to fill the demand.

The "Crawler" Saves Time and Fuel—It Burns Kerosene It Saves One Man's Labor—It Does All Farm Jobs

It gives you full drawbar power on any kind of soil. Because of its "Crawler," it will not pack the ground. It saves fuel over wheel tractors because it does not have the "back slip" of a wheel tractor. Plowing, discing, drilling, cultivating and harvesting all look alike to the "Mule." It does all kinds of belt and hauling work, too. No tractor on the market can compare with the "Mule" for all 'round general farm utility. It burns cheap kerosene because its motor is designed specially to burn kerosene. This cuts the operating cost and makes the "Mule" the cheapest tractor to operate.

Get the Illustrated Facts You want to get the latest illustrated literature on the Bates Steel Mule. A postal brings everything. Write and mail one today.



30 H. P.
\$985


JOLIET OIL TRACTOR CO., 75 Benton St., JOLIET, ILL.
C. H. BANTLEY SALES CO.
(Distributors Missouri, Kansas and Oklahoma)
1702 Grand Avenue Kansas City, Mo.

The Most Powerful Three-Plow Tractor in the World

See the "Mule" at the Kansas City Tractor Show, Feb. 12-17

ONE FRIEND TELLS ANOTHER WHY W-B CUT TOBACCO IS BEST AND CHEAPEST

MY POUCH OF W-B CUT TOBACCO ISN'T AS BIG AS YOUR LOOSE PAPER SACK, BUT ITS BETTER AND CHEAPER, BECAUSE IT SATISFIES AND LASTS LONGER.



JUDGE, THAT FELLOW HAS CAUGHT ON TO IT ALL RIGHT.

HERE'S something curious about W-B CUT Chew-ing—it takes less out of your pocket and puts a better chew into your mouth. No big plug sagging your pocket, no big wad sagging your cheek. Half as much of this rich tobacco goes twice as far as ordinary plug. W-B saves your silver and gives you a silver-lining feeling of happiness all over. You can't help from telling your friends about W-B.

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

If your subscription is soon to run out, enclose \$1.00 for a one-year subscription or \$2.00 for a three-year subscription to Farmers Mail and Breeze, Topeka, Kan.

Special Subscription Blank

Publisher Farmers Mail and Breeze, Topeka, Kan.

Dear Sir—Please find enclosed \$1.00, for which send me the Farmers Mail and Breeze for one year. \$2.00 three

My subscription is.....
(Say whether "new" or "renewal.")

My Name

Postoffice

State..... St., Box or R. F. D.

SHIP US YOUR FURS

PLAY SAFE WITH YOUR SHIPMENTS

Man and Boy alike always get square deal from Lyon. Top prices paid since 1870. We want your name on our mailing list. Our new edition Trappers' Guide just out. It's FREE. Tells how, when and where to trap. Bait secrets, quotations and tags mailed regularly FREE. Send name on postal today.

M. LYON & CO.
226 Delaware St.
Kansas City, Missouri
Estab. 1870.

RELY ON LYON

DON'T SELL YOUR HIDES

Write for our Free Fur book, which shows how to save half on fur cost and robe made from horse and cow hide. We tan hide and make garment complete. Our "BEST TAN" is a by-word with farmers for honest tanning, at honest prices. Our fur book shows dressing styles coats, robes, etc., made from hides and raw furs. Write for it today.

GLOBE TANNING & MFG. CO.
SMITH BROS.
228 S.E. 1st St., Des Moines

HIDES TANNED

Send us your hides or furs and we will tan and make fur coats, robes, rugs, etc., of them. All kinds of repair work and taxidermy. Also tanning harness and lace. We are the only Tannery in the Kansas City. All work guaranteed. Cash paid for hides and furs. Write for catalog C2 and price list.

Kansas City Robe & Tanning Co.
916 UNION AVE., KANSAS CITY, MISSOURI

RAW FURS WANTED

highest prices at all times
Write for price list now.
J. A. TAICHERT & CO.
Exporters of raw furs, E. LAS VEGAS, NEW MEXICO.

Standard Farm Chemicals

Insecticides and Fungicides

at factory prices. Sulphur, copperas, lime, formaldehyde, Paris green, etc. Raw chemicals and drugs for all farm purposes. Quality standard and guaranteed. Dry dust sprays and compounded stock powders with ingredients specified can be furnished if desired. Write for price list. All goods plainly labeled with known ingredients.

Swan Manufacturing Co.,
504 KAMPER BLDG., KANSAS CITY, MO.

FARMERS MAIL & BREEZE

ENGRAVING DEPARTMENT
TOPEKA KANSAS
CUTS OF YOUR LIVESTOCK FOR
LETTERHEADS & SALE CATALOGS

Railroads, and the Livestock

The attention of all livestock breeders in the United States is called to the fact that the supplying of attendants with shipments of livestock l. c. l. is now left with the shipper. No railroad has authority to require an attendant with shipments of livestock in less than carload lots. The attention of shippers is further called to the fact that animals may be shipped at their true values in the case of valuable breeding animals by the payment of a slight increase in the rate; an increase of 4 per cent in rate for every 100 per cent increase in value of the animals over the basic values fixed in the tariffs, which are on file in every railroad station.

This is a matter of importance to every livestock breeder shipping breeding animals in less than carload lots. I shall be glad to have specific information from any shippers whose local agents are not complying with the new regulations, rules and practices as laid down by the Interstate Commerce Commission in Docket No. 6825.

Attention is further called to the fact that any railroad company whose agent violates the rulings laid down in Docket No. 6825 is subject to a fine of \$5,000 for every offense. While it is not likely that prosecution will be necessary to require the railroads to comply with the order of the Interstate Commerce Commission it may be wise to call the attention of local agents to this in cases where the agents seem negligent in informing themselves in regard to the new regulations governing l. c. l. shipments of livestock. In a specific instance which has recently been brought to my attention the shipping bill on a stallion was reduced from \$31 to about \$13, and the shipper was promptly reimbursed for the excess freight charges which he had been required to pay by reason of the ignorance of the agent in regard to the new rulings.

Wayne Dinsmore.
National Society of Record Associations,
Chicago, Ill.

A Book that Helps You

Charles Dillon's little book for writers, "Dillon's Desk Book," has met with a remarkable demand in the month that it has been on the market, orders coming in for it from no fewer than 19 state universities and the Canadian Agricultural College, as well as by numerous farm papers and three "movie" editorial offices, in addition to individual orders. The present edition is the third that has been printed of this book. In four weeks the sales have exceeded 400 copies, which is going extraordinarily well. An order came yesterday from Scarborough, Eng. Its chapters deal with such topics as writing for publication, technical names in the printing business, preparation of copy, a dozen or so pages of "Don'ts", spelling and capitalization rules, something about copyright and libel laws and other laws relating to published matter.

What to write and how to appeal to the editor form a topic which Editor Dillon treats helpfully for the novice, and there are numerous short, pithy suggestions of various kinds, the little desk volume winding up with a list of 50 words which the author says 45 college professors declare are most often misspelled in the written work of students, and a final page of "expressions to avoid." A very handy, useful work tool to all writers. It costs 50 cents. Address Charles Dillon, Topeka.—Editorial in the Topeka Capital.

Nature and its Rewards

BY L. H. BAILEY

The currents of civilization tend always to take us out of our environment rather than to fit us into it. We must recast our habits of thought to set our faces natureward. Therefore, I preach the things that we ourselves did not make; for we are all idolaters,—the things of our hands we worship. I preach the near-at-hand, however plain and ordinary—the sky in rain and sun; the bird on its nest and the nest on its bough; the rough bark of trees; the frost on bare thin twigs; the mouse skittering to its burrow; the insect seeking its crevice; the smell of the ground; the sweet wind; the leaf that clings to its twig or that falls when its work is done. Wisdom flows from these as it can never flow from libraries and laboratories.

Favors District Ownership

A bill is before the legislature that I believe is a good one. I refer to the one providing for the district ownership of all school books. It will be opposed by the book trust and by some of the persons who fear it will raise their taxes, but it is a good bill and should be placed on the statutes. I never knew anything but district ownership while I was going to the public school. When District No. 21 in Dickinson county was established about 1871 or '72 the country was new. The people moving into that part of Kansas came from all over the eastern part of the United States. There were as many kinds of books as there were families. Most of the families were poor and could not get money to buy new books. The law required that all the pupils in the school should have the same kind of books. The teachers could not do anything unless all of the children had uniform textbooks, and the school board did not know what to do. The school house had been built with a bond issue, and as a little money was left from this issue when the school house was finished it was decided that the district would buy books for all the children, and then let the parents pay the district for the books. This was done. The plan was all right, but when the district tried to collect for the books at the end of the year, the parents would not pay. Many did not have the money, so the district had the books. One pupil carried the books away and did not pay for them, but all the other books were left in the school. At the next annual meeting it was decided to continue the district ownership for a few years until the people got a little more money, and then they were to go back to individual ownership.

In five or six years it was decided to use a different system of text books and it was thought this would be a good time to go back to individual ownership. The patrons of the district were instructed to get the new books for the opening of the school year. When school was called that fall there were no books, and the patrons refused to get any. They had had a taste of district ownership and they liked it. As the school could not go on without books the district finally had to get books and from that time forward that district has had district ownership of books. It reduces the cost of books in the district and every child will have the book that he needs when he needs it.

The district adopted some rules early in regard to the use of the books, and the teachers were required to enforce them. Whenever a child entered a grade and received a book, he kept that book as long as he was in that grade. If he wore it out, he was to receive another. Whenever a child passed from one grade to another the books he had used were inspected, and if he had taken good care of his books he got a good book in the next grade. If he had misused his books he received books in the next grade that had received the same kind of treatment. The children that took the best care of their books always got the new books whenever any new books were bought. The children always had that for an incentive to make them take good care of their books. The result of district ownership in that district has been that the books in the higher grades have lasted for five years in some cases and then have been good for returning when a new system was adopted. In the lower grades the books would last from one to three years. Occasionally when a new family would move into the district and the children were hard on their books, there would be a complaint when some child got a book in poor condition but it was generally all right when the rules were explained, and the condition of the last book the child had was shown.

Chapman, Kan.

H. A. Huff.

Hog Pasture in Decatur

I have used barley very successfully for hog pasture here in Decatur county. I sow it about April 1, and it gives excellent early pasture. Rye and oats also have done fairly well, and I have used them all. With the high cost of grain it is of the greatest importance that we should make all the gains possible on pasture.

R. E. Diehl.

Oberlin, Kan.

Proper breeding will help greatly in raising the yields of the sorghums. Careful head selection in the field is needed. This work will raise the average yields in Kansas rapidly.

No Other Six Resembles Hudson Super-Six

Don't Be Misled—It Is a Hudson Invention

Sixes have come into renewed popularity since the Super-Six won the top place. But the Super-Six invention—controlled by our patents—added 80 per cent to the six-type efficiency. And that 80 per cent is what gave it supremacy, when the V-types threatened to displace the Six.

Late in 1915, remember, the Six was a waning type. Even the Light Six, which Hudson gave first rank, had revealed some vital engineering limitations.

It had not solved the problem of motor vibration. It had not minimized friction and wear. Its endurance had proved disappointing.

Sixes at that time held hardly a single record. They were mostly held by Fours.

And leading engineers, including the Hudson, were seeking a remedy in Eights and Twelves. At that time the Six, for high-grade cars, seemed verging on displacement.

What Saved the Day

It was the Super-Six invention, remember, which then saved the day for the Six.

Hudson engineers discovered the shortcoming. By a basic invention they corrected the fault. They ended nearly all the vibration. They doubled the motor's endurance. Thus they created a motor which has since won all the worth-while records.

But that doesn't mean that the old-type Six is any better than it was.

'Twas the Super-Six That Won

The Super-Six, in a hundred tests, has out-performed all other motor types. It has not merely broken records. It has made new records which, a year ago, no man considered possible.

It broke the 24-hour endurance record by 52 per cent. It broke the transcontinental record twice in one round trip. A Super-Six tour-

ing car went from San Francisco to New York and back in 10 days and 21 hours.

It beat twenty famous rivals up Pike's Peak. It broke all stock-car speed records, and all for quick acceleration.

Then, after 7,000 record-breaking miles, it showed itself in new condition. Not a part or bearing showed evidence of wear.

No other motor ever built has shown anywhere near such endurance.

All By Saving Waste

The Super-Six develops no more power than other like-size motors. It simply delivers more. It almost eliminates motor friction and wear by ending nearly all the vibration.

That vibration, which wasted power, was the great fault of the Six. It is that which led to the Eight and Twelve as a possible solution. Any motor in which that fault remains can't compare with the Super-Six.

A New Gasoline Saver

The Hudson Super-Six, in endurance and performance, stands foremost in the world. The new style bodies which we have created make the car look its supremacy. A new exclusive feature—a gasoline saver—gives it this year another advantage.

It now outsells any other front-rank car. It has 25,000 enthusiastic owners, who know that no rival can match them.

You can prove in one hour, at any Hudson showroom, that this car deserves its place. And that no other car, at any price, can be classed with it. Do that before the spring demand overwhelms us.



Phaeton, 7-passenger, \$1650
Roadster, 2-passenger, 1650
Cabriolet, 3-passenger, 1950

Touring Sedan . . . \$2175
Limousine . . . 2925
(All prices f.o.b. Detroit)

Town Car . . . \$2925
Town Car Landaulet . . . 3025
Limousine Landaulet . . . 3025

HUDSON MOTOR CAR COMPANY, DETROIT, MICHIGAN

SEND US YOUR NAME FOR THIS CATALOG

At the Existing High Prices we are still able to save you money on your Harness, Saddle, and Vehicle bills. OUR POLICY is not how high we can sell, but how much we can save our customers. The greater portion of our merchandise was contracted for before the advance in raw materials and we can save you this margin on a large portion of our line.

SEND FOR THIS FREE CATALOG It tells you all about it. You cannot afford to be without it. THIS BOOK has 200 pages and over 1500 illustrations, every article listed guaranteed to be a bargain.

ANISER HARNESS MFG. CO. DEPT. 171 F
St. Joseph, Mo.

Come to Wichita, Kansas

February 22-23-24

and see the largest exhibit of Power Farm Machinery that will be exhibited in the Southwest at any one time or place this year at big

15th Annual Interstate Thresher and Tractor Show of Kansas, Oklahoma and Texas

TWO NIGHTS OF FREE ENTERTAINMENT

There will be on exhibit over a MILLION dollars' worth of Power Farm Machinery, consisting of Steam, Gas and Oil Tractors, Threshers, Road Machinery, Plows and Accessories too numerous to mention. Free admission to all Departments.

Application made for reduced rates on all railroads. Remember the time and place—Feb. 22, 23, 24—Wichita, Kansas.

HEADQUARTERS

Forum or Convention Hall



The Moline Line Includes
 Corn Planters, Cotton Planters, Cultivators, Corn Binders, Grain Binders, Grain Drills, Harrows, Hay Loaders, Hay Rakes, Hay Sowers, Listers, Manure Spreaders, Mowers, Plows (chilled and steel), Reapers, Scales, Seeders, Stalk Cutters, Tractors, Farm Trucks, Vehicles, Wagons.

This machine has an absolutely reliable planting device. Drops grain at even depth in a wide furrow; covers it thoroughly. Sight feed enables driver to see that grain is dropping properly.

Can be equipped with edge drop plates and with sub-soilers of any style, easily adjustable to different depths. Strongly built. Ask your Moline Dealer about the Tri-Belle; or write us for illustrated literature.

Moline Plow Company, MOLINE, ILL.
 Dept. 23

AUTOMOBILES GIVEN AWAY



**\$635 OVERLAND
\$360 FORD**

You can become the owner of one of these automobiles, both 1917 Models, without one cent of cost. If you want a car send us your name asking I'll about our wonderful plan by which we give automobiles away.

Corn Belt Auto Club
 709 Jefferson St., WATERLOO, IOWA

Beautiful Watch AND SIX CHARMING PIECES JEWELRY FREE



EARN THESE QUICK. Beautiful Watch, also one Gold pl. Bracelet, one charming Pendant, set with imi. diamonds and Four Beautiful Rings. BIG VALUE. Sell 12 boxes white Cloverine salve at 25 cents per box, give beautiful 16x20 in. picture FREE. Return us \$3.00. Be first in your town. Write today for 12 boxes. The Wilson Chemical Co., Dept. A41, Tyrone, Pa.



Sappa Cherry-plum
 Next Year After Planting.



Will You Let Us Send You This Grand Home Orchard of Fine One Year Old Trees, at Our Expense, With a Tree of the New Sappa Hybrid Cherry-Plum, Thrown in for Good Measure? See offer below.

A Home Orchard is a very desirable piece of property to own and the one we offer you is especially attractive, for if properly cared for it will last practically a lifetime and bear you barrels upon barrels of the choicest of Apple and Cherry-plums. The Orchard contains 10 fine 1-year old trees in the following varieties. 3 DELICIOUS, 3 WEALTHY, 3 NORTH-WESTERN GREENING and 1 new SAPPA HYBRID Cherry-plum. We have made a special cooperative advertising arrangement with our nursery that enables us to send you these 10 trees, all charges prepaid, at proper planting time in your locality, if you will accept our offer as given below.

DESCRIPTION OF VARIETIES

DELICIOUS. Probably the highest quality apple now in existence. Beautiful in shape and color and a good keeper. One of the very best apples for home garden. Tree is a thrifty grower and comes into bearing at an early age. Originated in Iowa.

WEALTHY. A beautiful red apple that is fast becoming a popular favorite the country over. Tree is iron-clad for hardiness.

NORTHWESTERN GREENING. A fine hardy apple especially desirable for late winter use. Large showy fruit and of good quality in its season.

SAPPA HYBRID CHERRY-PLUM. As its name indicates this is a new fruit being a cross between the cherry and plum. The fruit is somewhat larger than the regular sweet cherry, is of good quality and is borne in great profusion on young trees, commencing the next year after planting. An extremely valuable new fruit.

We want to send you this fine ORCHARD, all charges prepaid, with plain directions for planting and care, all at our expense. Just read our offer below, then fill out the coupon and mail to us at once and we will have the 10 choice one-year old trees as described above, sent to you at proper time for planting in your locality.



DELICIOUS



WEALTHY



NORTHWESTERN GREENING

Farmers Mail and Breeze, Topeka, Kansas.

I enclose \$1.40 for which send me the Farmers Mail and Breeze for one year and the 10 guaranteed one year old trees, postpaid, as my premium.

Name.....

Postoffice.....

R. F. D.Box.....State.....

Pleasant Work and Profits

BY W. H. COLE
 Cowley County

We have been getting extra high prices this winter for the eggs which have been marketed from this farm, but we fear the good prices will take a tumble soon for the hens are beginning to contribute more eggs to the market basket. We take it for granted that everyone else's hens are doing likewise, and if this is the case the market is due for a change for the egg trust does not let the extra good prices prevail for long after the hens begin their spring laying.

Before the wheat was all marketed last fall we sacked up a bushel and hung it out of the reach of mice. Recently while grinding corn we cleaned out the grinder and converted this wheat into graham. By setting the burrs close together and grinding the wheat a second time an excellent quality of graham was obtained. As a breakfast ration graham gems taste mighty good to a farmer.

The last few days on this farm have been devoted to preparing the ground on which we expect to grow oats. This land was planted to kafir last year and was cultivated late, consequently it is in a fine physical condition. As a rule we try to avoid putting oats where kafir has been grown the year previous, but we wish to get this field to wheat next fall and will use this rotation. Then, too, we figured that the grain production on the kafir had not been heavy enough to seriously sap the fertility of the soil.

The manner in which we are fitting our ground for oats this season differs radically from any method we have employed before. We are cultivating it with a four-shovel cultivator. When the crop was laid by last fall the work was done with a six-shovel machine, and the rows were slightly ridged. The larger shoveled machine tears down this ridge and leaves the ground practically level. It could be harrowed and be in excellent condition for seeding, but if weather conditions permit we expect to cross cultivate the field with a six-shovel machine. Then a leveling harrow will be used and if the oats can be drilled the first week in March we shall think we have given them a good start.

To a stockman who is short on feed, as many of them are, mild winter weather is a blessing. With the weather as warm as it was for several weeks in January cattle did not eat much more than half as much as they would if the weather had been more severe. The absence of excessive snows or cold rains has made it possible to make every bundle of feed or forkful of alfalfa hay produce maximum results, a condition that rarely holds good this late in the season. Every warm day saves some of the feed for the bad days which are sure to come, and the saving may be such that it will do away with the necessity of buying much oil cake.

The open winter has enabled the farmers to get much of their spring's work done. We notice in traveling around the neighborhood that there is a great amount of listing. In some cases the ground has been listed for oats, but in most cases it is the first step in the putting in of corn or kafir. Listing in the winter is an excellent way of preparing ground for any spring

crop as the rough condition in which the land is left thru the winter not only has a tendency to hold the snow but it also affords an excellent opportunity for the freezes to get in their work on the soil.

We notice that the quails have been afforded the protection of the law for another five years, and we are glad our legislature was so considerate of our little friends. As might be expected the town sportsmen were against the re-enactment of such a law, but fortunately they were unable to bring enough pressure to bear to defeat it. One of the arguments which they advanced was that there were as many quails killed now as before the former law was enacted, and that there were no more quails now than before. Both statements are misleading. There are a great many more of the little brown fellows here this winter than we have ever seen before, and as for them being killed as ruthlessly as formerly such a statement is utterly false. At least this holds good locally. We hope the legislature will, when the present law runs out, re-enact it for another five years or better yet forever prohibit the killing. One has only to survey the fate of the once numerous prairie chickens to get a line on what would happen to the quail if the free use of a gun and dog were allowed.

Indian Names for Farms

Many Kansas farmers prefer Indian names for their farms. Here is a list of Indian names that have been used for farms, with their meanings:

Candatowa—Top of a Hill.
 Aspatock—A Height.
 Candota—High Land.
 Cohasset—Place of Pines.
 Chissinesick—Place of Birds.
 Casco—Resting Place.
 Ganasadaga—Side Hill.
 Oagch—On the Road.
 Quassic—On a High Rocky Bluff.
 Ganageh—On the Mountain.
 Wachusette—The Mountain.
 Asawentha—By the Pines.
 Agiochook—Place of the Spirit of the Pines.
 Chetaube—Sparrow Hawk's Nest.
 Coxackie—Owl Hoot.
 Inyan Karla—Rocky Hills.
 Ioka—Beautiful.
 Katahdin—Highest Place.
 Manaticut—Place of Observation.
 Nahant—At the Point.
 Nunda—Hilly.
 Ossco—Beautiful View.
 Quakaka—Pine Lands.
 Sensink—Stony Place.
 Sego Sago—Welcome and Good Cheer.
 Shantituck—The Woody Place.
 Tatnick—At the Great Hill.
 Pequannock—Cleared Land.
 Ossineke—Place of Rocky Hills.
 Natick—The Place of Hills.

The following names of foreign origin are beautiful and appropriate:

Aberdeen—Mouth of the River.
 Tierra Alta—High Land.
 Strathaven—Valley of the River.
 Erlenbach—Alder Brook.
 Malabar—Mountainous Country.
 Belmont—Beautiful Mountain.
 Bielaya—White Stream.
 Buena Vista—Fine View.
 Alta Vista—High View.
 Laguna—Marsh.
 Mittelwalde—Middle Wood.
 Valle—Valley.
 Welsenthal—Meadow Valley.
 Altamont—High Mountain.
 Alameda—Poplar Bordered Walk.

Easily Remedied.

He (with a sigh)—"I have only one friend on earth—my dog."
 She—"Well, if that isn't enough, why don't you get another dog?"—Indianapolis Star.

Give the chickens a feed of warm corn just before they go to bed on cold nights; it will warm the cockles of their hearts, and that means eggs.



The Returns Produced from the Poultry on Most Farms in Kansas in the Last Year Have Helped Greatly in Increasing Farm Profits.

In 6 to 8 Weeks

I Fitted These Beginners

to earn \$75.00 to \$300.00 a month as
Automobile and Tractor Experts!

They were unskilled men from farms and small towns. Never touched an automobile or tractor before. Didn't know a "cam" from a "carburetor." I made them masters of the automobile and tractor (of all automobiles and all tractors). How? With books? No! By Practical experience on real automobiles and tractors with tools, using their own hands to do the work. My practical, individual training does it. They learn by doing things themselves! Hundreds have received my training. They have fitted themselves for life. They are cashing in now as experts, repair men, chauffeurs, traction engineers, garage managers and garage owners. The flood of work following the arrival of thousands of new automobiles and farm tractors is revolutionizing everything, demanding skilled men by the thousands. I'm giving men the skill. What I want is more men—**all kinds of men, young or old. Are you ready? Join the prosperous motor throng today. You're needed. Let me hear from you! Mail the coupon now.**



Wichita is the Motor and Tractor Center

The home of this big practical school is Wichita. The best schools and colleges are usually located in cities like Wichita. Look at our big colleges and universities, all are located in clean wholesome cities like Wichita. Wichita is the Commercial and Educational center of the great Southwest. Wichita is a clean city with no saloons, joints or dives, no Sunday shows, no vice or temptations. Wichita is interesting and beautiful, full of business and life and energy. It is the home of the Jones Automobile Factory and the Mid-Continent Tire Factory. Wichita also is the very center of the territory where most automobiles and tractors are owned. Men who are trained here find themselves at headquarters. Highly paid positions call to our graduates from every hand. Oil and wheat are making this section rich. More wealth means more automobiles and tractors. More

cars and tractors mean unlimited work for those who know how. What an opportunity this school offers you! See coupon below.

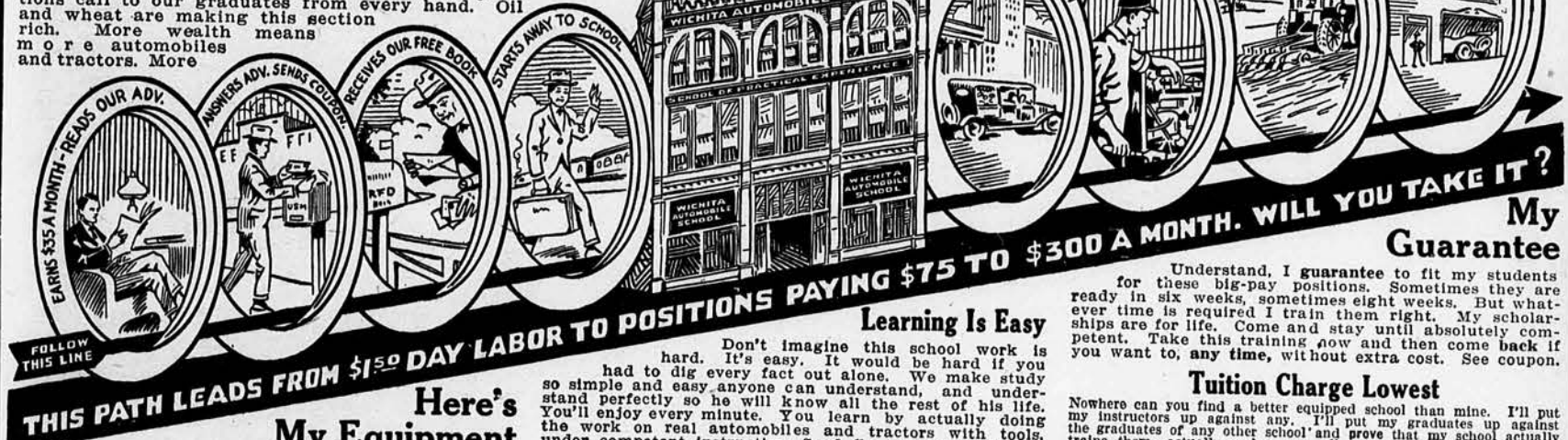
I Teach It All!

When a graduate leaves my school he is an absolute expert in the following lines of work:—

General Automobile Mechanics.
Traction Engineering.
Lathes and Machine Work.
Electric Lighting and Starting Systems.
Oxy-Acetylene Welding.
Battery Work.
Vulcanizing.

Automobile and Tractor Salesmanship.
Garage Management.
Chauffeuring.

I give practical instruction in all these branches in one course. No extras, no books, charts, blue prints, or anything else to buy. My students get individual experience—they do things themselves. Don't hesitate, mail the coupon.



FOLLOW THIS LINE

THIS PATH LEADS FROM \$1.50 DAY LABOR TO POSITIONS PAYING \$75 TO \$300 A MONTH. WILL YOU TAKE IT?

Here's My Equipment

The Wichita Automobile School is a big, clean, Kansas institution of straight-forward principles, honestly advertised, honorably conducted, incorporated under Kansas laws—a complete, up-to-date plant, occupying an entire three story building on North Topeka Avenue, including 21,000 square feet of floor space, besides a 40-acre tractor farm. In addition to this floor space and building and tractor farm, my school is equipped with the latest modern power machinery, lathes, oxy-acetylene plants, vulcanizing plants, forges, automobiles from one cylinder upwards, and the leading makes of tractors. In fact as complete an equipment as you will find anywhere. Students have individual lockers and sanitary wash rooms. I admit, other schools may have some of these advantages, too. I don't claim I have the only school there is but I do say and can prove that there isn't any school that outdoes this one in any particular under the sun. My students have the advantages of instructors who are thorough. These instructors not only know and are experts themselves, but they can impart their knowledge to others. Under the instruction of my teachers, students drive cars, drive tractors, do repair work, weld, vulcanize, take machines apart, put them together and become so familiar with every tool, machine, motor part, and principle that the work becomes almost second nature. You can't fool a graduate of The Wichita Automobile School. He KNOWS and can show you. See coupon.

Learning Is Easy
Don't imagine this school work is hard. It's easy. It would be hard if you had to dig every fact out alone. We make study stand perfectly so he will know all the rest of his life. You'll enjoy every minute. You learn by actually doing the work on real automobiles and tractors with tools, under competent instruction. Send the coupon today.

You Can Begin Anytime.

School runs the year around. Start any time you wish. The sooner the better. Every day new students arrive and graduates leave to take positions. Mail the Coupon.

Profit-Sharing Helps Pay Expenses.

In my big repair department students work in teams, and the winning teams receive cash prizes. This stimulates interest and helps students pay room and board expenses.

Room and Board Cheap.

By special arrangements, I locate my students in wholesome, moral homes, where influence is good and accommodations inexpensive. Board and Room under these conditions costs only from \$4.00 a week to \$4.50 a week, according to your desires. Students live well. Fresh farm produce, fresh air and invigorating school work. This surely appeals to you! Let me hear from you at once!



Free Employment Department.

I am in touch with practically all the big automobile and tractor employers in this section. They constantly ask me to send them skilled men. I fill these positions without charge to graduates and when old graduates wish to change positions I find new places for them, as often as they desire. Ninety-five per cent of my graduates are out making their way with the instruction I gave them. Mail coupon now.

Ask About Me in Wichita.

No business can succeed that doesn't make good its claims. I make good every claim and business men in Wichita will tell you so. Ask any of them. We refer you to banks, stores, auto sales companies, factories and jobbers. If you want names of references mail the coupon.

My Guarantee

Understand, I guarantee to fit my students for these big-pay positions. Sometimes they are ready in six weeks, sometimes eight weeks. But whatever time is required I train them right. My scholarships are for life. Come and stay until absolutely competent. Take this training now and then come back if you want to, any time, without extra cost. See coupon.

Tuition Charge Lowest

Nowhere can you find a better equipped school than mine. I'll put my instructors up against any. I'll put my graduates up against the graduates of any other school and prove that my school actually trains them, actually makes men all around experts. In spite of this superior instruction I charge much less than others. In fact the rising costs of material are forcing me to raise my tuition rate, and I find that I will be forced to make this raise soon. But I'm going to make this special offer for thirty days:—

A Great Special Offer

Mail the coupon below to me between now and March 10th, and I will give you the benefit of my present low tuition rate. You will save money by acting now. Just mail the coupon. Just ask for my book. You need not agree to come, just give me your name. I'll write you fully and see personally that you need not pay the increased price. But don't delay. Fill in the coupon below and mail it now!

D. T. BARTLETT,
President

**WICHITA
AUTOMOBILE
SCHOOL**

101 N. Topeka Ave.
Wichita, Kansas

**FREE
BOOK COUPON**



D. T. Bartlett, President,
Wichita Automobile School,
101 N. Topeka Ave., Wichita, Kansas.

Without any obligation on my part, send me your FREE book entitled "The Way to a Better Job," and reserve for me the present low tuition rate, if I decide to enroll.

Name.....

Postoffice.....

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

Letters From Graduates

I say my graduates are fitted to take good paying positions. You possibly don't know me but if my graduates themselves tell you, isn't that proof enough? Read these letters below. I have many others and will mail several in my free book when you send the coupon.

Newkirk, Okla., Nov. 22, 1916.
"I think the Wichita Automobile School is a good thing for a young man who wants to learn the automobile business, as it teaches by practical experience, so when you go to work on a car in a garage you know just what you are doing."
"The tuition is cheap for what you get out of it and the lifetime membership is another great thing."
RAY CRAWFORD
Newkirk, Okla.

El Dorado, Kansas, Nov. 17, 1916.
"I have been busy ever since I came here. I am getting along fine. I am working eight hours a day."
RAY BOONE
El Dorado, Kansas.



Wichita, Kansas, Nov. 20, 1916.
"I have taken a course in the Wichita Automobile School and I am well satisfied. I found the course complete and easy to learn and every promise made me was carried out to the very letter."
"I am now going to work in a position that was secured for me by the school."
MARTIN HARTERT,
1440 S. St. Francis, Wichita, Kansas.

"It does not seem possible to get so much instruction and real information in such a course and yet keep it so concise and simple."

"I have learned more in four weeks' time attending your school, which is four weeks tonight, than all the other three or four months that I have attended other schools combined, which has cost hard earned money. I am sure that you will find a large demand for this course of instruction as soon as it is well known."
C. A. WHITE
433 S. Market St., Wichita, Kansas.



1842 The Seventy-Fifth Anniversary of 1917

P&O LIGHT DRAFT PLOWS

Built for the Field Test.

Three-Quarters of a Century of "Knowing How" Hammered Into Every One of Them.

The product of the Parlin & Orendorff Co. has always been noted for simplicity of construction, great strength and ease of operation. It was upon such a basis that the founders of this business made their implements, established their reputation, and built their factory. It is upon the same foundation that the business has been carried on to this day, and in 1917 we celebrate our Diamond Jubilee; 75 years of practical experience gained through constantly striving to provide for the exacting requirements of three generations of American farmers.

For an even three-quarters of a century we have met the demand, and today we operate the largest and oldest permanently established plow factory in the whole world. "It's the way we build them."



Light Draft Plows, Harrows, Planters and Cultivators are made in all types and sizes, to meet the conditions in all sections, and are Backed by an Unqualified Guarantee.

We also make the most complete line of Traction Engine Plows produced, and we have a special catalog devoted to these famous plows.

The P&O Little Genius Engine Gang Plow

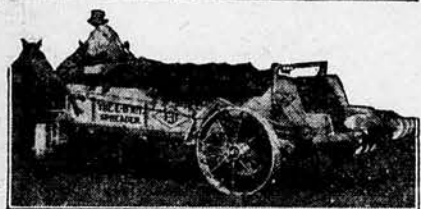
was the most popular plow shown at all points on the 1916 National Tractor Demonstration.

We will send P & O Catalogs to any address. While P & O Implements are sold only through established implement dealers, we welcome correspondence from farmers in all sections.

Ask Your Dealer or Write Us.

Parlin & Orendorff Company
Canton, Illinois

Kansas City Dallas Minneapolis
Omaha Portland (Ore.) St. Louis
Sioux Falls Spokane Denver Oklahoma City



E-B Manure Spreader

Easy to Load—Easy to Pull

All steel—wide spread—18 steel blades. Conveyor is simple and durable—remarkably efficient. Box is 2 inches wider at rear—prevents binding—reduces draft. Wheels track—automobile type construction. Short wheel base. Weight only 1800 pounds. 55 bushels capacity—only 3 ft. 5 in. from ground to top of box. Look for the E-B trade mark. It's our pledge and your guide to quality.



Emerson-Grantingham Implement Co., (Inc.) 39 W. Iron St., Rockford, Ill.

Please send me free literature on articles checked:

<input type="checkbox"/> Plows	<input type="checkbox"/> Hay Tools	<input type="checkbox"/> Tractors, Gas
<input type="checkbox"/> Harrows	<input type="checkbox"/> Listers	<input type="checkbox"/> Engine Plows
<input type="checkbox"/> Cultivators	<input type="checkbox"/> Gas Engines	<input type="checkbox"/> Tractors, Steam
<input type="checkbox"/> Mowers	<input type="checkbox"/> Wagons	<input type="checkbox"/> Thrashers
<input type="checkbox"/> Spreaders	<input type="checkbox"/> Rippers	<input type="checkbox"/> Corn Shellers
<input type="checkbox"/> Drills	<input type="checkbox"/> Auto Trailers	<input type="checkbox"/> Saw Mills
<input type="checkbox"/> Planters	<input type="checkbox"/> Potato Machinery	<input type="checkbox"/> Baling Presses

Name _____
Address _____

AUTOMATIC Grain & Tankage FEEDER \$16.75

Stop Disease and Sickness.



Clean, Sanitary Feed—No Waste.

The only hog feeder on the market feeding Grain and Tankage without clogging and bridging. The "Meyer" handles any kind of feed; accommodates 50 to 75 hogs. Regulates the feed they eat and keeps the feed clean and wholesome. Your hogs are sure to be healthy and profitable if you have this \$16.75 Feeder. Make big money from your hogs. Write for FREE CIRCULAR which shows many styles and sizes.

THE MEYER CORPORATION
Morton, Ill. 515 Meyer Block, Illinois

Mushrooms that are Safe

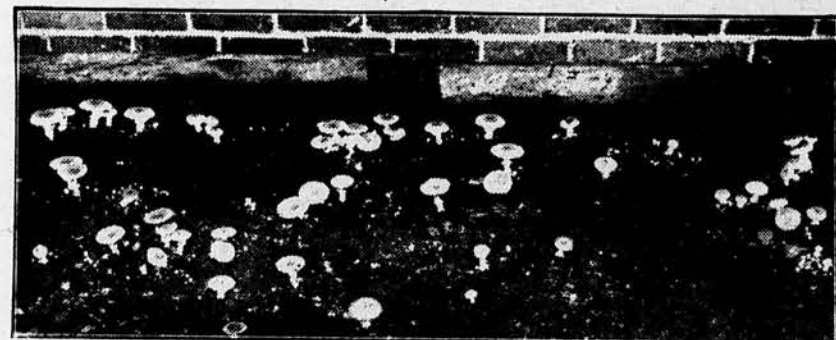
BY W. W. ROBBINS

There are a few cases of mushroom poisoning every season. In some instances the individual is only made sick, while in other cases the results are fatal.

It is difficult to lay down any hard and fast rules that can be used to distinguish between edible and poisonous mushrooms. In some cases, a species that may be harmless for one individual may cause serious digestive disturbances in another. There is, however, but one group of mushrooms that is deadly poisonous. This is the group of "amanitas."

There are several species of amanita, all of which are deadly poisonous. The deadly amanitas have white gills, a ring about the stem just beneath the cap and a cup or scales at the base of the stem. When in any mushroom there are present the three characters, namely, white gills, a ring about the stem, and a cup or scales at the base, it is a deadly species.

Having become familiar with these characters, one may feel sure there will be no serious danger in eating mushrooms. As has been stated, however,



A Corner in a Mushroom Cellar Where These Plants are Grown Artificially for the Profitable City Trade.

there are some mushrooms which, although not fatal, cause digestive disturbances, the degree of which varies with the individual.

Do not place any reliance in any of the many popular and traditional tests of poisonous or edible qualities. These tests are entirely worthless. The discoloration of a silver spoon, sinking in water, or brilliant coloration are no indications of either poisonous or edible qualities. Furthermore, the notion that poisonous mushrooms can be rendered harmless by boiling in water and then washing thoroughly in cold water is erroneous.

One easily can become familiar with a few edible kinds of mushrooms. Many

Twenty-five of the forty-eight states of the Union—more than half—are "dry" as the result of the last election when six states and Alaska voted out booze in spite of all the saloon prosperity leagues and brewery statisticians who proved by their figures that the absence of the saloon in Kansas had greatly reduced church membership and filled the reformatories with erring boys and girls. No more amazing campaign of falsehood was ever conducted than this desperate and despairing effort to stay the prohibition tide. At Omaha just before the election, the paid attorney of the saloon interest declared he had challenged Governor Capper to a joint debate on prohibition in Kansas and the governor had absolutely backed down. All of which Governor Capper learned for the first time when some one sent him a newspaper clipping a few days later and it was too late to overtake the lie.

of these spring up in lawns, dooryards, and along fences. One can feel safe in using all mushrooms having black gills which dissolve with age into an inky mass. These, of course, must be eaten before turning black, but usually several stages of ripening will be found in the same clump or group of individuals, so identification can be made. Among these black gill species are the "shaggy mane," with a more or less bell-shaped, creamy-white cap which becomes shaggy, and the "inky cap," growing in dense clusters. These two are common from spring to autumn and are among the

best of our edible forms. All of the puff-balls are edible, and excellent if eaten when the flesh is white and solid.

Fire Losses in Kansas

"Individual carelessness" is the greatest fire hazard in Kansas. It was responsible for 17 per cent of the fire loss in the state for a year. The losses last year from fires held to have been preventable amounted to \$304,840.

Defective chimneys and flues can be discovered before they cause damage, and fires resulting from such causes are preventable. But defective chimneys and flues lead the list, being responsible for damage amounting to \$100,709 during the year covered by the report of the national board of fire underwriters.

The report of the board separates fires into two classes—the strictly preventable and the partly preventable. Fires from lightning are listed as partly preventable. The report does not say so but the assumption is that the use of lightning rods might aid in preventing loss from lightning. Fires resulting from that cause produced a loss of more than 1/4 million dollars in the state—\$247,013.

The following table shows the money

and percentage loss in Kansas due to preventable causes—individual carelessness:

Defective chimneys	\$100,709	or 5.6%
Fireworks, firecrackers	3,143	or 0.2%
Gas	17,329	or 1.0%
Hot ashes	869	or 0.0%
Ignition of hot grease	495	or 0.0%
Hot or molten metal	74	or 0.0%
Matches	28,551	or 1.6%
Open fires	2,220	or 0.1%
Open lights	8,573	or 0.5%
Petroleum	22,337	or 1.2%
Rubbish	24,345	or 1.4%
Smoking	21,188	or 1.2%
Steam and hot water pipes	0	or 0.0%
Stoves, furnaces, boilers	75,000	or 4.2%
Total	\$304,840	or 17.0%

The loss given by the board due to partly preventable causes is fixed at \$678,380, or 37.9 per cent of the fire loss of the state for the year.

The following table shows the loss from each cause included in that class:

Electricity	\$96,810	or 5.4%
Explosions	29,400	or 1.6%
Exposure	161,178	or 9.0%
Incendiarism	44,231	or 2.5%
Lighting	247,013	or 13.8%
Miscellaneous	27,873	or 1.6%
Sparks from fires	36,786	or 2.1%
Sparks from machinery	7,762	or 0.4%
Spontaneous combustion	27,827	or 1.5%
Total	\$678,380	or 37.9%

"These figures teach their own lesson," comments the board of fire underwriters. "The only way to make Kansas really safe is to secure the intelligent and interested co-operation of the public."

At that Kansas makes a better showing than Missouri for the year. The losses in Missouri from preventable causes was 20.8 per cent as compared with 17 per cent in Kansas. Nebraska's showing was slightly better than that of Kansas. Its loss from preventable causes was 16.6 per cent.

Point of the Haunch is Broken

I have a 10-year-old mare that seems to have one of her hip caps knocked down. This makes her lame. What can I do for her?
M. W.

Animals sometimes break the point of the haunch when passing thru a doorway. The seriousness of this condition depends upon the extent of the break. If it is only slight, a complete recovery will take place in the course of three or four weeks. If it is more intense the recovery takes longer and it is frequently incomplete, that is, it will leave a shrunken hip and some lameness. There is no treatment other than keeping the animal tied up in a single stall. Sometimes a blister is applied, with the idea of making the part sore so as to limit movements.

K. S. A. C.

Dr. R. R. Dykstra.

Pull the Stumps



Clearland slick, clean and fast at low cost. Big money clearing land for others. The Hercules big Tree Book contains boiled down experience of 25 years of land clearing. Stumps pulled at three cents to five cents each.

Hercules Portable

Unlimited Guarantee. Solid steel bed plate, broad steel wheels. The marvel of the age. Get our special low introductory offer on this new machine that we can cover with an unlimited guarantee.

Write today **HERCULES MFG. CO.**
1280th St., Centerville, Ia.



Get Hercules Big Book FREE

Lice-Proof Nests



Car Owner Agents

Here's an opportunity to make \$20.00 to \$200.00 a week. We need Agents, County Managers and Territorial Distributors at once.

PARA-TEX

PUNCTURE PROOF INNER TUBES

are the fastest and easiest selling the necessary cover offered to the motorist public. Without a PUNCTURE. Write at once for complete details and our 30 DAY TRIAL OFFER.

Consolidated Rubber Mfg. Companies
45 CONSOLIDATED BLDG. DENVER, COLORADO

Build a Business of Your Own

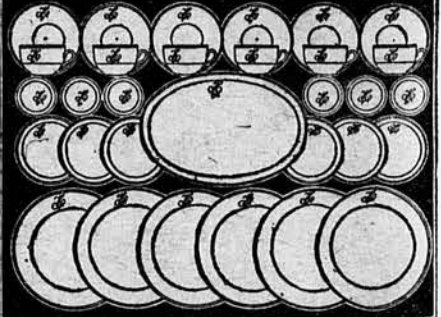
Cut Your Gasoline Cost

One oz. of Gaspartate improves—strengthens—4 gals. gasoline. Gaspartate gasoline burns thoroughly—all of the carbon burns up—none of it left as deposit. GASPARTATE makes gasoline oily—engine therefore works smoother.

Gives 50% More Power
"I HAVE USED your GASPARTATE nearly a year in my Winton Six, and I find it gives me greatly increased power and mileage and keeps my spark plugs, valves and cylinders free from carbon."—Philip Henrich, Henrich Restaurant, Chicago.

Trial Offer One Quart
Gaspartate prepaid, \$1.50, with guaranty: If not satisfactory, return empty can, and we'll refund your money. Send \$1.50 for trial can today or write for FREE circular.

GASPARTATE MFG. CO., Dept. 16 2221 Ogden Ave., CHICAGO



31 PIECE GOLD INITIALED DINNER SET FREE

For A Few Hours Easy Work. Every piece pure white, high grade china, blue edge and gold initialed. One of the richest looking, most stylish Dinner Sets on the market. Absolutely up-to-the-minute and of undisputable quality. Guaranteed not to crack. Will add beauty to any table. Get this set. Merely give away FREE 12 Beautiful Art Pictures 16x20 inches (sold for \$1.00 each in many stores) with 12 cans of White Cloverine Salve, which you sell at 25c each. Millions using it for cuts, eczema, catarrh, colds, piles, burns, etc. Send us the \$3.00 collected and the set is yours. We've been making these offers for 30 years. The Wilson plan is the easiest and absolutely square. No money required. Simply send name and address. Pictures and Salve sent promptly prepaid.

WILSON CHEMICAL CO. Dept. 935, TYRONE, PA.

Wheat Price Takes Sudden Drop

(Owing to the fact that this paper necessarily is 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.)

Germany's announcement that hereafter no restriction will be placed on submarine operations and that any vessels caught within a wide range of European waters is likely to be sunk without warning, and the subsequent severance of diplomatic relations between the United States and Germany, sent wheat prices down nearly 22 cents in Kansas City and about 25 cents in Chicago for May delivery last week, and caused general unsettlement in the grain trade. A substantial recovery followed the first severe break, but the market remained unsettled. Final prices were about 13 cents above the bottom, and 5 to 7 cents under the quotations a week ago.

With the severance of diplomatic relations between the United States and Europe another possible factor entered the situation; perhaps the additional protection of shipping afforded by the United States navy may facilitate the movement of grain to Europe.

Zero temperatures all over the grain area and very cold weather in the Northwest caused some curtailment in receipts, especially of spring wheat, but the total arrivals at five markets were a little larger than in the preceding week and only about 20 per cent less than a year ago. This primary movement is keeping up better than expected, tending to confirm a growing belief that supplies in the country are larger than official reports indicate.

Corn futures moved thru a range of 6 to 8 cents, closing yesterday about 2 cents lower than a week ago. The market moved in unison with wheat, tho in a narrower range. There was a good deal of export business during the week. England, in fact, seems to be more eager for corn than for wheat, and this fact is a strong sustaining influence in the market. Shipments out of the country last week were 1,195,000 bushels.

Additional advances in prices of livestock to new high levels served to strengthen confidence in corn values.

Quotations on wheat were: No. 2 hard, \$1.64 to \$1.73; No. 2 soft, \$1.64 to \$1.72; Corn: No. 2 mixed, 95½ to 96c; No. 2 white, 95½ to 96c; No. 2 yellow, 96 to 96½ c. Oats: No. 2 white, 56 to 57c; No. 2 mixed, 55 to 57c; No. 2 red, 61 to 64c.

New high record prices were made for livestock again last week, \$12.10 for hogs and \$14.55 for lambs. No prime cattle arrived, but the kind of cattle that was available sold higher than ever before. The hog market had a setback, owing to the announcement of the new German submarine policy, but prices generally held very firm.

Prices for cattle were stronger and gains of 10 to 15 cents were reported. The top price paid for native steers was \$11.15. Oklahoma steers sold up to \$11.10, a new high record. The far Western cattle, fed sugar beet products and hay, sold at \$9.25 to \$10.90. Reports indicated that about 75,000 such cattle will be marketed in Kansas City in the next 60 days from Colorado, Idaho and Utah.

Prices for cows and heifers were quoted strong to 15 cents higher, and all classes of butcher cattle sold readily. Veal calves sold up to \$12.75.

Demand for stock and feeding cattle was active and prices advanced 15 to 25 cents. Some 1,235-pound Western branded steers sold at \$10.90, a record price for feeders. Several bunches of 950 to \$1,100-pound steers brought \$10 to \$10.45, and most of the feeders sold at \$8.75 to \$9.40. Stockers brought \$7.25 to \$9.

It took only two weeks for hog prices to raise a dollar a hundred pounds, from \$11 to \$12.10. This is the record price for the local market, compared with any former year, by 95 cents. The market closed 15 to 25 cents higher than the preceding week. It is the opinion of commission men that the hog market will not be greatly disturbed by foreign complications. They assert that receipts from now on will diminish, and that corn fat hogs will be scarce in early summer months.

Lamb prices rose 35 to 50 cents. The top prices paid were \$14.55 for lambs, \$12.75 for yearlings and clipped lambs, \$11 for wethers and \$10.50 for ewes. Some feeding lambs sold at \$13.65.

Money in Cottage Cheese

BY MRS. DAISY ELDER

Little ways of making money for farm women sometimes turn up in the most unexpected manner. I entertained a few friends from town one hot summer day a few years ago and as I did not wish to be bothered with preparing luncheon while they were with me, I had everything ready in my iceless refrigerator before they arrived. Among other things was a platter of cottage cheese balls arranged on lettuce leaves and garnished with ripe sweet peppers. I never heard women so enthusiastic over anything else. I had a big bowl of cheese which I divided among them to carry home and at their insistence, engaged cheese to them regularly at 20 cents a pint seasoned or 15 cents dry.

I had only one cow at the time and

was getting about 2 gallons of milk daily. I soon had more customers than I could supply so I bought skim milk from a neighbor at 10 cents a gallon. I sent to Washington for several bulletins on milk and cheese and studied them well. I did not have time to deliver my wares so I notified my customers that my cheese could be obtained at the woman's exchange in town. A grocery would probably handle it where there is no exchange. They charged a commission of 20 per cent but I delivered the cheese in large quantities and did not have the bother of house to house trips or of many dishes. I delivered it regularly on Wednesday and Saturday afternoons and as the customers came for it the same day, it was always fresh. Often I had special orders and on these no commission was paid.

Two gallons of clabber makes 2 or 3 pints of cheese so for the five weeks when I had milk from only one cow my profits were \$2 a week. My family of four had all the milk they could drink during this time. I churned in a gallon glass churn every other day except on Tuesdays and Fridays when the cream was saved to mix with the cheese. I fed the whey to the chickens in a bran mash as there is a little food value left in the whey.

Begin in the Winter.

The winter months are the best time to market homemade cheese. The milk sours slowly then and is likely to become bitter and stale if left to sour naturally. I save a starter of sour milk every time and mix this into sweet skim milk. I then put it in a large stone jar on the back of my range where the temperature is about 96 degrees and let it remain until the bacteria which sour the milk get to working well. It should never be warmer than blood heat.

Great care must be used in making cheese. I have one method for winter and another for summer. I let the milk get very hot in cold weather but do not let it boil. As soon as the first small bubble appears I set it aside to cool. By cooling before straining the fat particles adhere to the curd and are not lost in the whey. I strain the milk thru a clean piece of cheesecloth until the curd is very dry, then place the curd in a mixing bowl, season with salt and pepper and beat it with a strong wire egg-whip until it is very fine grained. Then I add sweet cream and whip it until it is very smooth. Most persons prefer cheese whipped to a creamy consistency. For cheese patties to fry or for cheese balls I work the cheese very little, add the seasoning and mold at once.

Milk becomes very acid in a short time in the summer so I pour boiling water over the clabber until it begins to separate, then cool it and strain. If it does not taste perfectly sweet I rinse again with hot water and treat it as in the other method.

French cottage cheese is delicious. It is made from fresh clabber without heating by using a very fine sieve. As the whey drips out the curd assumes a custard-like consistency, and when drained as dry as possible, is served with sugar and cream or with fruit juice. An extra fine filling for summer sandwiches is made by adding 1 quart of crushed and sweetened strawberries to 1 pint of the French cottage cheese and whipping well. Buttermilk cheese is even better than that made from clabber and is more easily made as overheating does not injure it and it is very fine grained. The whey settles to the bottom and most of the whey may be poured off before straining.

Good bulletins dealing with milk and cottage cheese are Farmers' bulletins 413, 363, 487 and 166 which may be obtained from the United States Department of Agriculture. Bulletins 195 from the Wisconsin station and 210 from the North Carolina station also contain valuable information and recipes. Our own state has a very helpful bulletin with lessons on farm cheese making.

Not So Bad as That.

Her Mother—"Do you think Ferdinand is deceiving you?"

Mrs. Bridemore—"Oh, I wouldn't think that. But he frequently lies to me."—Puck.

Hens are much like people after all. In order to do efficient work they must have sanitary quarters, good food, and keep regular hours. Hens are easier to manage than people, tho, because they always are glad to co-operate with you if you give them a chance.

f.o.b. Detroit

Price \$125



T-R-A-C-F-O-R-D

The Tractor Universal

The new TRACFORD plowing attachment—one of the most sensational light tractor developments of the year—is now ready for you, and your Spring farm work.

By attaching the TRACFORD to any standard Ford chassis—old or new—you have a solution to the Spring plowing problem on the average American farm. Consisting of two steel tractor wheels, a separate axle which takes the pull of the plow, a special cooling device which is a valuable addition to any Ford, and a 9 to 1 gear reduction which gives maximum Ford power at average plowing speed, the TRACFORD enables you to convert your pleasure car at will to a profit-maker in the field.

Ford Power—Economy—Dependability

TRACFORD Simplicity—Strength—Durability

Announced early last autumn, the TRACFORD anticipated a nation-wide demand. This anticipation is now being born out by the overwhelming response from farm business men and demonstrations in their own vicinity have shown them that the TRACFORD is scientifically designed to multiply Ford power—to utilize Ford efficiency.

There is a TRACFORD dealer in your community who can give you as convincing a demonstration as you may require—who will take your order—and deliver your TRACFORD.

Write us direct and let us put you in touch with him.

"The Tracford Catechism" answers every technical and practical question you may want to ask. Send for it.

Hall Bros. & Reeves Motor Co.
Kansas City, Mo.

The Standard-Detroit Tractor Co., Mfrs.
1511 Fort St., West, Detroit, Mich.

Mail this Coupon TODAY.

Hall Bros. & Reeves Motor Co.
Kansas City, Mo.

Please send a copy of "The Tracford Catechism" to the following address:

Name _____

Town _____

State _____

R. F. D. _____

This KEROSENE LIGHT FREE

BEATS ELECTRIC or GASOLINE

Here's your opportunity to get the wonderful Aladdin Kerosene Mantle light for your home free. Write quick for particulars. This great free offer will be withdrawn as soon as our distributor starts work in your neighborhood. You only need show the Aladdin to a few friends and neighbors; they will want one. We give you yours free for this help. Takes very little time, and no investment. Costs nothing to try it.


Burns 50 Hours on One Gallon

common kerosene (coal oil), no odor, smoke or noise, simple, no pumping up, no pressure, won't explode. Lights and is put out like old lamp. Tests by Government and thirty-four leading universities show the Aladdin gives three times as much light as best round wick flame lamps. Won Gold Medal at Panama Exposition. Three million people already enjoying this powerful, white, steady light, nearest to sunlight. Guaranteed. And think of it! you can get it without paying out a cent. All charges prepaid. Ask for our 10-day Free Trial Offer and learn how to get one free.

MANTLE LAMP COMPANY, 282 Aladdin Building, CHICAGO, ILL.
Largest Kerosene (Coal Oil) Mantle Lamp House in the World

Men With Rigs Make \$100 to \$300 per Mo.

Our trial delivery plan makes it easy. No previous experience necessary. Practically every farm home and small town home will buy after trying. One farmer who had never sold anything in his life before writes: "I sold the first seven days."—Christ-visited bought. Phillips, Ohio, says: "Every customer becomes a friend and booster."—Remonding, Minn., says: "No dowsy talk necessary. Sell itself." Thousands who are coining money endorse the ALADDIN just days' free trial and given absolutely without cost when you become a distributor. Ask for our distributor's plan and learn how to secure an appointment and make big money in unoccupied territory. State occupation, age, whether you have rig or auto; whether you can work spare time or steady; when can start; townships most convenient to work in.



Mr. Live Stock Shipper

Johnny's calf grew into father's steer because father was feeding both Johnny and the calf. But father won't even get what Johnny got if he don't get GOOD SERVICE when he ships to market. LEE'S SERVICE is dependable. It means higher sales, better fills and more proceeds. Our shrewd salesmen, efficient yard and office help; our central location handy to the scales, gets MR. SHIPPER the extra margin, that in course of time, lies between success and "Over the Hill to the Poor House."

Free market letters. Free market papers. Free Consultation and Advice.

Lee Live Stock Commission Co.

Kansas City and ALL LEADING MARKETS

Win An Easter Surprise Package

Solve This Puzzle

Here are seven ponies in a pen. By drawing three straight lines you can put each one in a pen by himself. If you can do this we will send you as a prize, an Easter surprise package, containing 36 beautiful Easter novelties, seals, cards and stamps. This is one of the most artistic Easter packets put out. All you have to do is enclose four cents stamps in your letter to pay postage and cost of mailing. We will also send a certificate for 1500 Free Votes in our grand contest for a beautiful Shetland pony.

Fine Pony Given Away

Remember the Pony will absolutely be given away in the grand contest which we will tell you all about. Send your answer at once so you can be entered in the great contest. In case of a tie a pony will be sent to each person so tied. Full particulars by return mail in same letter with Easter packet.

THE PONY MAN Dept. 790 Des Moines, Iowa



Pull out the nail and Drive on

Royal Puncture Seal

Will Seal the Puncture Instantly

A small amount of Royal Puncture Seal injected into each inner tube through the valve stem will do this—and without injury to the tube—for Royal Puncture Seal is

A Rubber Preservative

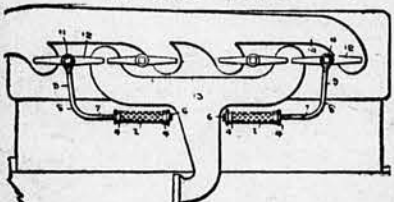
The report of a well known chemist says that Royal Puncture Seal contains nothing injurious to rubber but contains substances which do preserve rubber.

Order Royal Puncture Seal now and avoid the worries and expense of punctures during the year.

There is a pleasant and profitable business for an auto owner in each county to act as our distributor. Write today for open territory and full particulars.

Royal Puncture Seal Co.
609 Commercial St., Emporia, Kan.

Why Crank Your Arm Off



when you can start your Ford easily in the severest weather by the use of our Vaporizers. They can be attached in a moment's time by the removal of the manifold taps. A small amount of alcohol will immediately heat the manifold so that the motor will start on the first few turns.

Reduce Operating Cost

By the use of these vaporizers you can use one-half kerosene mixture in your fuel tank in warm weather.

These vaporizers are intended especially for Ford cars, but by slight changes can be attached to any car with a visible manifold. Price \$2.00 prepaid. Order today. Money refunded if not entirely satisfied. We want live agents everywhere to work on liberal commission. Pat. applied for.

Huffman & Workman, Ionia, Kansas

\$475.00 FOR THIS HOUSE



ALL LUMBER, MILLWORK, BUILDING PAPER, HARDWARE AND PAINT

for this 24x33 ft. five room house \$475.00. Many other designs at wholesale "mill-to-you" money-saving prices are shown in our house and barn plan book. Free on request.

FREE THIS WINTER

With every carload bought now at our low winter prices—a handsome kitchen cabinet free and rubber roofing to keep the lumber dry. Send us your material bill for free freight-prepaid estimate. Ask for fence post price list. We guarantee quality, and ship subject to inspection.

KEYSTONE LUMBER CO.

332-18 South Sprague St. Tacoma, Wash.

Better Mules for Kansas

There is an excellent interest in the breeding of better mules in Kansas. A high proportion of the mare owners in the state appreciate the importance of good jacks, and are willing to pay a fee high enough to make it commercially practicable to keep an animal with real utility value in the community. As a result the mule colts have much better quality than those of a few years ago.

Another thing that has aided in this improvement is the fact that there is a

insurance on an intelligent basis; the plants are being installed rapidly. There is a good appreciation of the importance of installing a plant carefully.

A big development has taken place along the Arkansas River and in Scott county. This is gradually spreading into all counties. It is indicating a bright future for farming in Western Kansas.

Cows are Tested in Kansas

Four cow testing associations now are in operation in Kansas. The first asso-



Champion Jacks in the Making at L. M. Monsees Limestone Valley Farm Near Smithton, Mo.

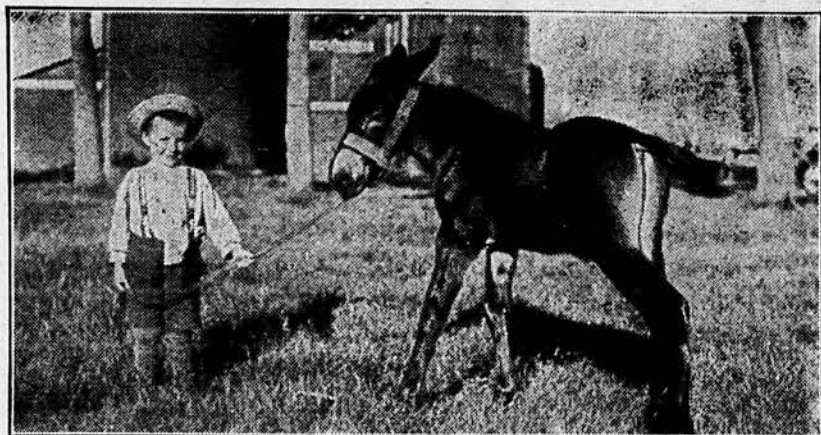
smaller use of scrub mares than formerly in raising mules. Many men used to think that "any old mare" was good enough to breed to a jack. Since then it has been pretty well shown that neither a scrub mare, stallion nor jack is profitable as a breeding animal. Therefore the quality of the draft animals in Kansas is being raised every year.

Boys, and Better Livestock

Boys who take an intelligent interest in livestock are not likely to leave the farm when they get older. If they learn to handle stock successfully they are likely to develop in a normal way,

ciation was organized in 1912 by the dairy department of the Kansas State Agricultural college, and local men at Abilene, Kansas. This association has been in operation for four years and has organized for another year.

The fact that farmers have kept this association running and have had such good results has made it possible to organize other associations. Three new associations were organized in January, under the direction of the dairy department of the college. The Mulvane association started January 1; the Sedgwick and Harvey associations, with headquarters at Wichita, started January 2; the Montgomery association started late in January. Following are the names and



Kansas is Winning with Both Boys and Mules. Can You Duplicate These Prize-winners on Your Farm?

and be much happier than if they lack this. Parents should see that their sons get this training

It has been noticed for many years that the leading livestock men of Kansas are much more successful in holding their sons against the lure of the city than men in other classes. Most of this probably has been due to the influence of well-bred animals on the growing boys; they have helped to bring out the better things of country life.

addresses of the secretaries of the various associations:

Al Howard, Mulvane, Kan.; F. L. Huxtable, Wichita, Kan.; W. W. Castello, Independence, Kan.; A. H. Diehl, Enterprise, Kan.

The Dairy Division of the United States Department of Agriculture supplies record books for the members of the associations free of charge. It is possible that there will be several more associations organized within the state in the next few months.

O. E. Reed.

Kansas State Agricultural College.

More Progress in Irrigation

There is a growing interest in irrigation farming. Farmers in Western Kansas are going into this form of drouth

Teach the boys how to hunt and trap humanely. They'll be better sportsmen and better men.



A Main Ditch on the Farm of E. E. Frizell of Larned; an Ample Supply of Water is Available if Rain Does not Come.

Heider

Made and Sold by
Rock Island Plow Co.

Nine Years of Actual Field Work

THE HEIDER 4-cylinder, 4 wheel tractor is the most profitable power plant you can have on your farm. A real one-man, all-purpose tractor. Proven by nine years of service in the hands of owners—on every kind of tillage, hauling and power work. Model C pulls three 14-inch plows under ordinary conditions; Model D pulls one less bottom. Does your plowing, discing, harvesting, threshing, hauling, etc.—takes the place of a gas engine on all stationary work. Throttles down to the most economical power on any belt machine—even a cream separator. The

Heider Tractor

Burns Kerosene or Gasoline

With its specially designed manifold the Heider burns either kerosene or gasoline.

Equipped with the famous Heider Friction Drive which means more power with less expense. The powerful, heavy-duty, four-cylinder Waukesha motor assures you the best power plant that can be put in a tractor—it is the lowest priced tractor made, when price is measured by service.

William Korreer, Bird Island, Minn., says: "The Heider I bought in March, 1911, has been in hard use winter and summer ever since on every kind of farm work. It is in good order and working today."

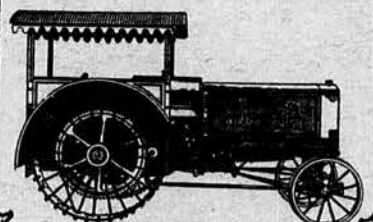
Let the multitude of Heider owners tell you about these tractors. New Catalog—with letters from users—will be sent to your address. Postal will bring it. Write today.

Built in Two Sizes

Model C—12-20 H.P. \$1095
Model D—9-16 H.P. 795

F. O. B. Rock Island, Ill.

ROCK ISLAND PLOW CO.
235 Second Avenue, ROCK ISLAND, ILL.



Come Farm in MINNESOTA

Send for 36 page illustrated Northern Minnesota Bulletin. Tells about the wonderful opportunity—literally millions of fertile acres of virgin cut-over land waiting for cultivation. Watered by thousands of lakes; unexcelled for dairying, cattle and hog-raising. Wonderful crops of corn and clover. And the cost is small. Upwards of \$25 per acre on easy payments.

Write Now for FREE Bulletin

giving full information regarding money-making farms along the Great Northern Railway in Northern Minnesota. Actual facts and figures about how farms here double and treble in value. Write for booklet. Address

E. C. LEEDY, Gen. Immigration Agt.
Dept 183 Great Northern Railway, St. Paul

Turning From Grain to Cows

I read with interest the article in the dairy department of your issue of April 29, concerning the results obtained by George W. Senneff, with his herd of dairy cows.

He has found, like thousands of others, that there is more direct profit in dairy farming than any other plan, and at the same time there is the value of the skim milk, the calves which are sold, and the keeping up of the fertility of the farm.

From a herd of purebreds, or good grades, with a purebred sire, it often is found by farmers in this locality that the price they get for the calves, the skim milk used for fattening calves or pigs, and the fertility returned to the farm, are worth as much as the direct income received for cream.

I have in mind particularly a farm in Marinette county, Wisconsin, owned by Robert and Lewis Augustine. They had done grain farming for a great many years, and had found that the soil gradually was being depleted of fertility. They were not well posted on dairy farming, but they decided they had to take up some form of farming which would return fertility to the land while yielding a good income for their work. They went into dairying, starting with good grades. The herd was headed with a purebred sire, and gradually they worked into purebreds. They have been at it six years now and milk a herd of 20 cows. Most of them are purebreds, and such grades as are left gradually are being replaced.

They have a direct income from the herd of 20 cows of \$200 a month. They receive this for cream sold to a nearby creamery. The skim milk is valued by them at about 30 cents a hundred pounds and is the main food used in fattening purebred Poland China hogs, which are marketed at 6 months old at a profit of about \$5.80 a hog.

Such little grain as is fed to these hogs is produced on the Augustine farm, and the grain production an acre is twice as heavy now as it was when they began dairying. They also get from \$50 to \$100 a head for the purebred calves sold from this herd, either male or female.

During the six years of dairying they have developed a number of very good animals, and the University of Wisconsin recently made A. R. O. tests of several of the animals. Flora Thorn DeKol Pauline III produced in seven days, 26.7 pounds of butterfat from 623 pounds of milk. This is the best record made by a cow in upper Wisconsin.

No special preparations were made for the test, and the representative of the university who made it, was certain that in the next test the cow easily would go over 30 pounds of butterfat in a week. Figured at an average value of 30 cents a pound this cow brings an income on butter a week of \$7.80. Her last calf weighed 120 pounds at birth. He is held at a value of \$100 at 2 months old.

Another record of interest made on the Augustine farm was 11 pounds of butterfat in one week by a heifer 1 year and 10 months old. This record was made 65 days after the heifer freshened, showing that a proper system of feeding will keep up the heavy flow of milk even in young stock.

By feeding balanced rations the Augustine boys succeed in having their heifers as large at 2 years as most farmers do when the heifers are 3 years old. All of their heifers freshen at 2 years old or less, and they get a full year of milk when the heifers of most farms still are consuming feed, but producing nothing.

With the growth of the ice cream business and soda fountain business, all dairy products will continue to bring prices as high as the present, and possibly much higher. The dairyman does not have to beg anyone to take his products, there always is a ready market at a good price. At the same time he is practicing a form of farming which means that his farm will always be fertile.

This is a new agricultural locality in some respects, and many farmers make fine successes in grain farming, fruit ranching, and other methods, but gradually they are all coming to see that there are bigger profits and better permanent results with dairy farming than any other method.

Marinette, Wis. Howard I. Wood.

Say you saw it in the Farmers Mail and Breeze.



"A Word to the Wise is Enough"

Benjamin Franklin

AND when you're buying tires follow Poor Richard's advice and say only the one word, "Firestone." This word is not only the name of a tire foremost in quality, it is the name of a man who is personally responsible for that quality, which means safety, comfort, mileage, for you.

The vital strength of Firestone Tires makes them oppose equally the tug of rough roads or the test of friction when you "let her out" on smooth stretches.

The Firestone Non-Skid Tread means extra rubber. Those angled letters not only hold the car true in slippery going and protect against skid, but there's "comfort value" in the added rubber piled onto the regular tread.

And because volume of sales (over 33,000,000 dollars last year) and efficient factory methods lower production cost, you get Firestone Tires at only average price.

Your dealer can supply you promptly. See him today. Copy of booklet "Mileage Talks" No. 29, mailed free on request. Write for it.

FIRESTONE TIRE AND RUBBER COMPANY
Akron, Ohio. Branches and Dealers Everywhere

Firestone

Drilling Wells is a Year Round Business

Drilling Water Wells is a profitable, healthful year-round business. There are wells all around you to be drilled. Don't you want to get into a money-making business for yourself? Write for particulars. Star Drilling Machine Co. 644 Washington St., Akron, Ohio



YOUR ENGINE SHIPPED TO DAY

Ed. H. Witte

DON'T wait 6 or 8 weeks. Wire me your engine order NOW! Get a High-Grade WITTE Engine. I can ship any size—2 to 22 H.P.—Kerosene or Gasoline—Stationary, Portable, or Saw-Rig—all ready to run. Ship today! Fully guaranteed for 6 years. Immediate shipment proves superior factory equipment, and a better engine, just as 30 years' WITTE success proves the superior quality of

WITTE ENGINES

No other similar factory can offer you the engine quality and service that I am prepared to give every WITTE engine user. If you don't know about WITTE engines, write for my FREE BOOK telling "How To Judge Engines." Gives valuable pointers gathered from over 30 years of practical engine experience—not guess work. Write today. Ed. H. Witte, Pres., WITTE ENGINE WORKS, 1541 Oakland Ave., Kansas City, Mo., 1541 Empire Bldg., Pittsburgh, Pa.



160 ACRE FARMS IN WESTERN CANADA FREE



Canadian Farmers Profit From Wheat

The war's devastation of European crops has caused an unusual demand for grain from the American Continent. The people of the world must be fed and wheat near \$2 a bushel offers great profits to the farmer. Canada's invitation is therefore especially attractive. She wants settlers to make money and happy, prosperous homes for themselves by helping her raise immense wheat crops.

You can get a Homestead of 160 acres FREE and other lands at remarkably low prices. During many years Canadian wheat fields have averaged 20 bushels to the acre—many yields as high as 45 bushels to acre. Wonderful crops also of Oats, Barley and Flax. Mixed farming as profitable an industry as grain raising. The excellent grasses full of nutrition are the only food required for beef or dairy purposes. Good schools, churches, markets convenient, climate excellent.

Military service is not compulsory in Canada, but there is an extra demand for farm labor to replace the many young men who have volunteered for the war. The Government is urging farmers to put extra acreage into grain. Write for literature and particulars as to reduced railway rates to Dept. of Immigration, Ottawa, Canada, or

Geo. A. Cook, 2012 Main St., Kansas City, Mo.

Canadian Gov't Agt.

"RUBY GORDON Or Back From The Grave"

By Libbie Sprague Phillips.

FREE



Here is a thrilling story of love, mystery and adventure that will grip your attention from the first word to the last! It is one of the greatest novels this famous writer has ever produced. Ruby Gordon, a poor orphan girl, becomes engaged to one of the young men in the town, who is the adopted son of a wealthy reclusive. The old gentleman took a great dislike to Ruby Gordon because she reminded him of his wife who had left him years before and had been lost at sea in crossing the ocean; he felt that she was his wife's spirit reincarnated, and forbade Lawrence, his adopted son, to marry her, and made so much trouble that the young man finally broke his engagement and married another, but it is not their fate to so easily evade Ruby Gordon, as you will discover when you get your free copy of this great book and read the story yourself! Ruby Gordon will surely find a warm place in your heart—she is one of those sweet pure characters every reader admires. We purchased a large edition and will send the book free and postpaid to all who send 50c to pay for a one-year subscription to our big home, farm and news weekly.

CAPPER'S WEEKLY, BOOK DEPT. RG-101, TOPEKA, KANSAS

Save Your Worn Tires

GET 5,000 MILES MORE

service by "half-soling" them with Steel Studded Treads the same as European Motorists have been doing for over 3 years. 30,000 American Motorists have done this in the last 8 months and are saving \$50.00 to \$200 a year in tire expense.

5,000 Miles Without Punctures is the guarantee you get with every Durable Steel Studded Tread.

We Deliver Free without a cent deposit, pay the express and allow you to be the judge

Special Discount offered to motorists in new territory on first shipment direct from the factory. Stop throwing away your worn tires—mail the coupon below for details—be sure and put in your tire size.

Get 5000 More Miles

MAIL THIS COUPON

The Colorado Tire & Leather Co.
264 Tread Bldg., Denver, Colo.
8-54 Transportation Bldg., Chicago, Ill.
720-642 Woolworth Bldg., New York City.

Without obligation send me free catalog, copy of guarantee, sample, and booklet "10,000 Miles on One Set of Tires."

Name _____
Address _____
My Tire Size is _____

STOCK LICK IT—STOCK LIKE IT



For Horses, Cattle, Sheep and Hogs. Contains Copperas for Worms, Sulphur for the Blood, Saltpeter for the Kidneys, Nux Vomica, a Tonic, and Pure Dairy Salt. Used by Veterinarians 12 years. No Dosing. Drop Brick in feed-box. Ask your dealer for Blackman's or write

BLACKMAN STOCK REMEDY COMPANY
CHATTANOOGA, TENNESSEE

Letz Alfalfa Grinder

The Letz Alfalfa Grinder, built especially for roughage crops, is the one grinder that will grind alfalfa fine as meal in one grinding.

MAKES FINE FEED

Grind your own Alfalfa, Clover, Pea Vines, Cow Peas, Cottonseed or any other roughage crop. Make your own appetizing stock foods and save 50 per cent waste in feeding roughage. Equally satisfactory for Snapped or Shelled Corn, Oats, Wheat, Rye, Screenings, Millet, etc. 10 days free trial. A valuable Feeding Book sent free upon request.

LETZ MFG. COMPANY
234 East St., Crown Point, Ind.

Free Catalog in colors explains how you can save money on Farm Truck or Road Wagons, also steel or wood wheels to fit any running gear. Send for it today.

Electric Wheel Co.
30 Elm St., Quincy, Ill.

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 Weekly50
Household Magazine25

Total value.....\$1.75
Our special price.....\$1.25
You save.....\$.50

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



The Life Story of Two Great Scouts Buffalo Bill and Pawnee Bill

A full and complete history of the renowned pioneer scouts, Buffalo Bill and Pawnee Bill. Replete with graphic descriptions of wild life and thrilling adventures. A record of exciting events in the West, massacres, desperate battles, extraordinary bravery, marvelous fortitude, astounding heroism, grand hunts and savage encounters, rollicking anecdotes, tales of sorrow, droll stories, curious escapades and incidents that make the melodrama of civilization's march to the West. The Book has 224 pages. Size 5 1/2 x 7 1/2 inches, forty illustrations. Fine cloth binding, stamped in colors.

You Can Get This Book Free

As long as our present supply lasts we will send this book free and post paid to all who send us two yearly subscriptions to Capper's Weekly at 50 cents each or given for one 2-year subscription at \$1.00. You will be highly pleased. Send your order today.

CAPPER'S WEEKLY, Book Dept. 4, Topeka, Kan.



The Lankford
HUMANE HORSE COLLAR

cures your horse while he works

Galls and sore shoulders reduce the efficiency of your horse—say his strength—down his spirit. Cure him without the use of medicine—while he does his heaviest work, with the Lankford Collar.

We guarantee a cure when properly fitted. Be careful and get the genuine Lankford Collar—made of best white sail duck, trimmed in extra heavy leather and stuffed with clean and downy curled cotton, medicated, which will not pack or harden. Also comes in special brown waterproof duck.

The Lankford fits any shape neck—easily put on or removed—always soft and pliable. Will not sweat. Hame straps attached. Prices \$1.25 and up. See your dealer.

Over 12,000,000 sold. Lankford Collars prevent galls and sore shoulders, as well as cure them. Get one today—one for each horse, but be sure it's a Lankford.

Buy a Lankford Send postal for copy and of our literature on Lankford Horse Collars.

Powers Mfg. Co.
Waterloo, Iowa

FREE Sandbo
Generator

FOR cold weather starting—beats manifold, thus vaporizing gas; gives warm mixture. Big saving, use cheap gas all winter. Always ready. Free with each—

SANDBO STARTER

More than 100,000 sold. Sold on 30 day's trial; positively guaranteed. 1917 model. Positive release in case of backfire. Price complete, \$14

Sandbo Starter Co., 59 Sandbo Bldg., Rock Island, Ill.

WHITE SWEET \$3.90 CLOVER 3 Per Bu.

BIGGEST MONEY-MAKER KNOWN—INVESTIGATE

The greatest forage plant that grows. Superior to all as a fertilizer. Equal to Alfalfa for hay. Excels for pasture. Builds up worn-out soil quickly and produces immense crops, worth from \$50 to \$125 per acre. Easy to start, grows everywhere, on all soils. Write today for our Big 100-page free catalog and circular about unhusked and scarified hulled sweet clover. We can save you money on best tested, guaranteed seed. Sample Free.

A. A. BERRY SEED CO., BOX 955, CLARINDA, IOWA

"How To Feed Silage" FREE

Send for 36-page birds-eye on handling silage—a chapter from "Modern Silage Methods." 1917 edition of this book 25c. 284 pages. Answers all silage or silo questions. Ohio Silo Filler Catalog FREE.

The Silver Mfg. Co., Box 348, Salem, Ohio

KEROSENE ENGINES
OTTAWA LATEST DESIGN

Durable, Powerful, Reliable, Massive. Built to last; to do hard, heavy work. Uses Cheapest Fuel. Pull 1 1/2 to 1/2 horse-power more than rated. 3 Months Trial. Easy Terms. Sizes 1 1/2 to 22 H.P. Easy to start. No Cranking. No batteries. 10 Year Guarantee. Most practical engine ever built. Engine book free. A Postal brings it.

THE OTTAWA MANUFACTURING CO.,
551 King Street, OTTAWA, KANSAS.

STEREOSCOPE AND 25 WAR VIEWS FREE

No home is complete without a stereoscope. War pictures seen thru this wonderful instrument appear real. Instead of looking at a photograph you look at the scene exactly as it is, only it seems to be a long distance from you. The views we send you will be your choice of either 25 Franco-British views or 25 German war views.

Special Free Offer Simply send us your name and address and we will mail you detailed description of Stereoscope and a list of titles of the great War Views and we will explain fully how you can receive the complete outfit Free and postpaid.

Capper Stereoscope Club, Dept. 6, Topeka, Kansas

Help in Better Farming

Farmers' bulletins are issued by the government on a wide list of subjects that apply to the conditions in the Middle West. Here is a classified list of bulletins that are of interest in this state. These are of value to both farmers and to classes in agriculture. They will be supplied free, if you mention the name and number, on application to the Secretary, United States Department of Agriculture, Washington, D. C.

- SOILS AND SOIL FERTILITY.**
- 406 Soil Conservation.
 - 342 Conservation of Soil Resources.
 - 257 Soil Fertility.
 - 245 Renovation of Worn Out Soils.
 - 77 Liming of Soils.
 - 44 Commercial Fertilizers.
 - 192 Barnyard Manures.
 - 278 Leguminous Crops for Green Manuring.
 - 266 Management of Soil to Conserve Moisture.
 - 187 Drainage of Farm Lands.
 - 371 Drainage of Irrigated Lands.
- FARM CROPS.**
- 229 Production of Good Seed Corn.
 - 253 Germination of Seed Corn.
 - 415 Seed Corn.
 - 414 Corn Cultivation.
 - 298 Food Value of Corn and Corn Products.
 - 466 Winter Emmer.
 - 534 Durum Wheat.
 - 395 Sixty-Day and Kherson Oats.
 - 121 Beans, Peas, and Other Legumes as Food.
 - 485 Sweet Clover.
 - 339 Alfalfa.
 - 372 Soybeans.
 - 289 Beans.
 - 318 Cowpeas.
 - 132 Insect Enemies of Growing Wheat.
- ANIMAL HUSBANDRY.**
- 619 Breeds of Draft Horses.
 - 170 Principles of Horse Feeding.
 - 179 Horseshoeing.
 - 612 Breeds of Beef Cattle.
 - 360 Dehorning Cattle.
 - 71 Essentials in Beef Production.
 - 22 Feeding of Farm Animals.
 - 106 Breeds of Dairy Cattle.
 - 363 The Use of Milk as Food.
 - 55 The Dairy Herd.
 - 42 Facts about Milk.
 - 63 Care of Milk on the Farm.
 - 351 Tuberculin Test of Cattle.
 - 292 Cost of Filling Silos.
 - 566 Boys' Pig Clubs.
 - 438 Hog Houses.
 - 205 Pig Management.
 - 379 Hog Cholera.
 - 614 A Corn Belt Farming System.
 - 676 Breeds of Sheep for the Farm.
 - 49 Sheep Feeding.
 - 96 Raising Sheep for Mutton.
 - 51 Standard Varieties of Chickens.
 - 530 Important Poultry Diseases.
 - 287 Poultry Management.
 - 236 Incubation and Incubators.
 - 200 Turkeys.
 - 64 Ducks and Geese.
- ORCHARDING.**
- 157 The Propagation of Plants.
 - 408 School Exercises in Plant Propagation.
 - 154 The Home Fruit Garden.
 - 113 The Apple and How to Grow It.
 - 181 Pruning.
 - 471 Grape Propagation, Pruning, and Training.
 - 255 The Home Vegetable Garden.
 - 127 Important Insecticides.
 - 218 The School Garden.
- FARM MANAGEMENT.**
- 242 An Example of Model Farming.
 - 272 A Successful Hog and Seed Corn Farm.
 - 292 Cost of Filling Silos.
 - 365 Farm Management in Potato-growing Sections.
 - 454 A Successful Farm.
- MISCELLANEOUS.**
- 54 Some Common Birds.
 - 185 Beautifying the Home Grounds.
 - 270 Modern Conveniences for Farm Homes.
 - 134 Tree Planting on Rural School Grounds.
 - 220 Tomatoes.
 - 198 Strawberries.
 - 324 Sweet Potatoes.
 - 35 Potato Culture.

especially around Ft. Scott, Independence and Mulvane.

Much of this growth has been based on Holsteins; this breed has been successful in Kansas. It seems that this growth is to be continued. Dairying is bringing a more profitable and satisfactory country life.

Flowers, and Country Life

The lawn around a country home always is improved greatly by the intelligent planting of flowers. They help to awaken an appreciation of the better things in country living. But little time



Beauty for All

is required to care for them, and they help greatly in increasing the happiness of the family.

In many cases the plants are already available; all that is required is better care to get good results. The kinds are a matter of personal preference; if one wishes new varieties he easily can learn where and how to get them from the seed catalogs. Kansas needs more of an effort in the developing of the beautiful in country life.

"Algy, I want you to buy me a book." "I am glad you are becoming literary, my dear." "Fudge! This article says one way to acquire a good carriage is to practice balancing a book on your head."—Louisville Courier-Journal.

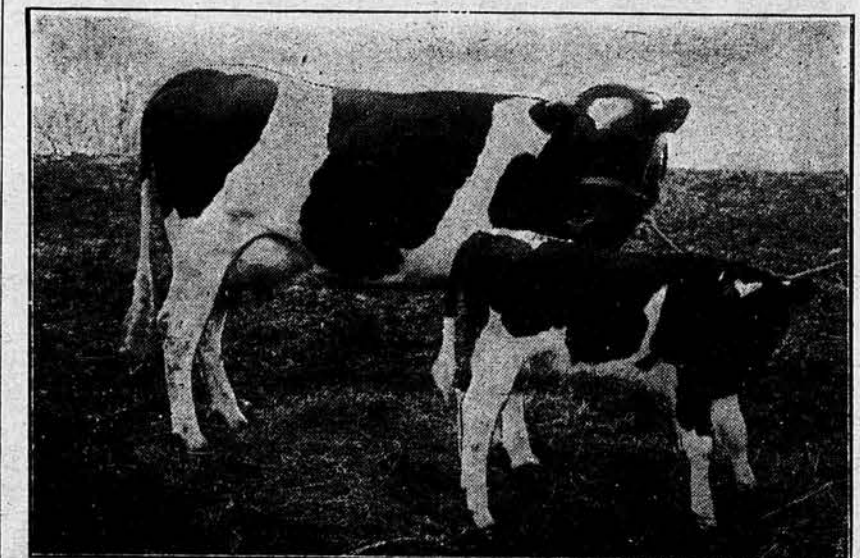
Angler (in deep water)—"Help! Help! I can't swim!"

Country Gentleman (on shore)—"I can't, neither, but I ain't hollerin' about it."—Harper's Magazine.

Cutting down the feed of the calf or colt is cutting down the profits of the owner.

Dairy Farming is Winning

The progress of dairy farming in Kansas is one of the most encouraging things in the development of agriculture in the state. Farmers who are in this business in an intelligent way have been very successful financially, which perhaps is the main reason for the growth of the business. This is true



Rapid Progress is Being Made in Improving the Quality of the Holstein Cattle in Kansas, Especially near Mulvane, Independence and Ft. Scott.

FARMERS' CLASSIFIED ADVERTISING

Rate: 6 cents a word each insertion for 1, 2 or 3 times. 5 cents a word each insertion for 4 CONSECUTIVE times. IT GIVES RESULTS.

Count each initial, abbreviation or whole number as a word in both classification and signature. No display type or illustrations admitted.

BABY CHICKS.

DAY OLD CHICKS, SEVERAL VARIETIES, booking orders. Jesse Younklin, Wakefield, Kan.

FOR SALE—50,000 THOROUGHBRED baby chicks, guaranteed alive 10 cents each. Colwell Hatchery, Smith Center, Kan. BABY CHICKS FROM PURE BRED Barred Plymouth Rocks, Ringlet strain, noted for quick growth and heavy laying. Chicks and eggs in season. Satisfaction guaranteed. Mrs. W. F. Cristman, Scottsville, Kan.

BANTAMS.

BANTAMS, WHITE DELLA LEWIS, LEBO, Kansas.

BRAHMAS.

MAAMOTH LIGHT BRAHMAS, EGGS \$1.00 per 15. A. M. Richardson, Altoona, Kansas.

BUTTERCUPS.

BUTTERCUPS, EXTRA LAYERS, HENS \$1. Roosters \$2 each. Etta Bidleman, Kinsley, Kan.

DUCKS.

WHITE RUNNER DRAKES, W. J. LEWIS, Lebo, Kansas.

RUNNER DUCKS, FRISCO WINNERS. Burt White, Burlingame, Kan.

FAWN AND WHITE RUNNER DRAKES 80 cts. Lester Pearls, Lyndon, Kansas.

ROYAL BLUE STRAIN ROUEN DUCKS, \$1.75 each. Eggs in season. James Cassell, Fremont, Neb.

THOROUGHBRED ROUEN DUCKS AND drakes, reasonably priced. Wm. Volkening, Belvue, Kansas.

2 PEKIN DRAKES \$1.25 EACH. 2 ROUEN ducks and 1 drake for \$5.00. R. E. Davis, Holton, Kansas.

FAWN AND WHITE RUNNER DRAKES, state federation winners. Eggs in season. Mrs. J. F. Romary, Olivet, Kansas.

LANGSHANS.

PURE BLACK LANGSHANS, MARY McCaul, Elk City, Kansas.

GOOD BLACK LANGSHAN COCKERELS for sale. Price right. Alice Watkins, Brewster, Kan.

PURE BLACK LANGSHAN EGGS, 15-\$1.00, 100-\$6.00. Chicks 15 cents. J. M. Bond, Enterprise, Kan.

BLACK LANGSHAN COCKERELS FROM prize winners. \$1.50, \$2.50. Eggs in season. Mrs. O. L. Summers, Beloit, Kansas.

FARM RAISED PURE BRED WHITE Langshan cockerels, pullets, eggs. Buff Orpington drakes and eggs. Mrs. Geo. McLain, Lane, Kan.

WHITE LANGSHANS, EXCLUSIVELY 17 years from best strains in U. S. Eggs \$1.00 per 15; \$5.00 per 100. Mrs. Walter Smith, Tonkawa, Okla., Route 1.

LEGHORNS.

ROSE COMB BROWN LEGHORNS, MRS. Ida Standiford, Reading, Kan.

R. C. W. LEGHORN COCKERELS \$1.50 each. F. Cornell, Wakefield, Kan.

R. C. B. LEGHORN EGGS \$3.00-100. LARGE kind. M. M. Hayes, Fowler, Kan.

ROSE COMB BROWN LEGHORNS \$1.25 and up. Otto Borth, Plains, Kan.

S. C. BROWN LEGHORN COCKERELS \$1.00 each. Mrs. F. E. Tonn, Haven, Kan.

35 SINGLE COMB WHITE LEGHORNS, cockerels \$2.50 up. R. E. Davis, Holton, Kan.

SINGLE COMB WHITE LEGHORN COCKERELS, \$1 each. J. T. McBride, Blaine, Kansas.

SINGLE COMB WHITE LEGHORN COCKERELS, Reasonable. Clarence Lehman, Newton, Kan.

SINGLE COMB WHITE LEGHORN EGGS and baby chicks. Mrs. Anna Hege, Sedgwick, Kansas.

FOR SALE—S. C. WHITE LEGHORN cockerels (Young strain). Vira Bailey, Kinsley, Kan.

S. C. WHITE LEGHORN COCKERELS \$1.25 and \$2.00 each. Mollie McBride, Mankato, Kan.

CHOICE SINGLE COMB BUFF LEGHORN cockerels, nicely marked \$1.50. A. Wempe, Frankfort, Kan.

EXTRA FINE SINGLE COMB WHITE Leghorns, cockerels \$2-\$3. H. Vinzant, McPherson, Kansas.

S. C. W. L. HENS, MAY HATCH. Winter layers. \$11 per doz. Geo. E. Martin, Attica, Kan., Harper Co.

SINGLE COMB BROWN LEGHORNS. Thirty-one prizes Kansas state show 1917. William Roof, Maize, Kan.

GOLDEN BUFF LEGHORN COCKS AND cockerels, bred to lay stock. \$1 to \$5 each. Pearl Haines, Rosalia, Kan.

25 BROWN LEGHORN COCKERELS \$2.50 each; one-half yearling, one-half springs. G. F. Penker, Atchison, Kan.

SINGLE COMB WHITE LEGHORNS. Orders booked for eggs and baby chicks. Write A. Pitney, Belvue, Kansas.

THOROUGHBRED R. C. BROWN LEGHorns hens \$1.00 each. \$10 per dozen. Winifred Shepherd, Woodward, Okla.

PURE S. C. W. LEGHORN COCKERELS, Frantz-Ackerman strain. \$2. Eggs \$1.00 for 15, \$4 for 100. John Hern, Elmo, Kan.

S. C. BUFF LEGHORN COCKERELS \$1.50 up. Sired by state show winner. Laying strain. Mrs. C. H. Wickham, Anthony, Kan.

SINGLE COMB WHITE LEGHORN COCKERELS, Barron Welch, egg laying strain, \$1.00 up. Mrs. Will Wedd, Oak Hill, Kansas.

LEGHORNS.

FOR SALE—A FEW CHOICE SINGLE Comb Brown and White Leghorn cockerels and hens. H. N. Holdeman, Meade, Kan.

PURE SINGLE COMB BROWN LEGHORN cockerels \$2.00 up. Egg orders booked. Satisfaction guaranteed. Chas. Bowlin, Olivet, Kan.

200 SINGLE COMB BROWN LEGHORNS for sale. Both matings and utility stock, from \$1.00 up. G. F. Koch, Jr., Ellinwood, Kan., R. No. 3.

SINGLE COMB WHITE LEGHORNS, BRED exclusively seven years, prize winners in flock, eggs \$5.00 per 100. Lucy Kasenberg, Mt. Hope, Kan.

283 EGG LEGHORNS, ABSOLUTELY PURE Tom Barron stock. Choice cockerels sired by 283 egg imported cock \$3.00 each. Braunhurst Farms, Gridley, Kan.

S. C. W. LEGHORN, WYCKOFF AND English strain. Best pen \$2.00 per 15. Others \$6.00 per 100. Prepaid. B. F. Michaels, Osawatimie, Kansas.

L. D. GOOCH, SEWARD, KANSAS, WILL sell R. C. Brown Leghorn cockerels \$1.25 each. Would also like the address of some one who breeds Lincoln sheep.

"SUNNY SLOPE RANCH," HOME OF Grant's heavy laying Single Comb White Leghorns. Guaranteed stock, fertile eggs, lusty chicks. Chas. Grant, Elk Falls, Kan.

SINGLE COMB WHITE LEGHORNS FROM prize winning stock. Eggs \$1.00 to \$2.50 per setting. Baby chicks in season. A fine lot of cockerels for sale. Mrs. M. Kettering, Wichita, Kan.

PRIZE WINNING S. C. WHITE LEGHORNS at two state shows. Eggs \$2, \$3 and \$5 per 15. Eggs from flock \$5 per 100. Chicks. Send for free mating list. C. G. Cook, Lyons, Kansas, Box G.

FOR SALE—SINGLE COMB WHITE LEGhorn babies 10 cents, eggs 6 cents, from world's best breeders and layers that pay \$7 each per hen per year. Clara Colwell, Smith Center, Kan.

TIP TOP ROSE COMB BROWN LEGHORN eggs. One dollar for fifteen. Five dollars for 100, outside flock. Pen stock three dollars for 15. Seven dollars for fifty. J. E. Wright, Wilmore, Kansas.

SINGLE COMB WHITE LEGHORNS—Eugene Smith strain. Book your orders now for baby chicks, 15c each. Eggs \$1.50 per 15, \$6.00 per 100. Satisfaction guaranteed. G. E. Gutzman, Blair, Kan.

Farmers Mail and Breeze:

I put an advertisement in your paper; pullets and four roosters for sale. In four days I got 7 letters, Monday 7 letters, Tuesday 7 letters, Wednesday 16 letters. My chickens are all sold and it is breaking me up answering letters, just because I put a little advertisement in it.

WM. NORRIS, Sedgwick, Kansas.

February 1, 1917.

LEGHORNS.

SINGLE COMB WHITE LEGHORNS; EGGS, Fifteen, one fifty. Hundred, six dollars. Three pens first class pure white birds. Guarantee fertile eggs. Write for complete description. G. R. McClure, McPherson, Kan.

ENGLISH LEGHORNS, WE SELL EGGS and chicks reasonably. We have the largest flock of purebred English Leghorns (Barron strain) in Okla. Write for free booklet practical experience. Sunny Slope Farm, Morrison, Okla.

OUR S. C. BROWN LEGHORNS ARE LAYERS. Fertility guaranteed. Eggs 100-\$5. 50-\$3. 15-\$1. Detwiler Egg Farm, Jewell, Kan.

MINORCAS.

BUFF MINORCA EGGS FOR SALE. RED River Poultry Farm, Devol, Okla.

SINGLE COMB BLACK MINORCAS, STOCK, eggs and baby chicks. F. Kremer, Manchester, Okla.

SINGLE COMB BLACK MINORCA COCKERELS for sale \$2.00 each. Fred Speakman, Tyrone, Okla.

BLACK, WHITE AND BUFF MINORCAS. Breeding stock cheap. C. H. Bartholomew, Wichita, Kan.

PURE BRED S. C. BLACK MINORCA EGGS \$1 setting or \$5 per hundred. Claude Hamilton, Garnett, Kan., R. No. 6.

ORPINGTONS.

GOOD BUFF ORPINGTON COCKS UP TO \$5.00. O. A. Barnes, Overbrook, Kan.

BUFF ORPINGTONS, EGGS FROM WINNERS, 4 setting limit. Virgil Taylor, Holton, Kan.

BUFF ORPINGTON EGGS. \$1.25 to \$1.75 from prize winners. C. D. Haffa, Russell, Kan.

WHITE ORPINGTON COCKERELS, LARGE bone, \$1.50 and \$2.00. D. H. Hoyt, Attica, Kansas.

FOR SALE—FINE WHITE ORPINGTON hens. Write McKnight Bros., Cherryvale, Kansas.

PURE BRED S. C. BUFF ORPINGTON cockerels \$2.50 each. John Stumps, Bush-ton, Kansas.

BUFF ORPINGTONS, EGGS FROM GOOD stock \$5.00-100. Pleasant View Farm, Little River, Kansas.

CHOICE WHITE ORPINGTON COCKERELS, from extra good laying strain. Chas. Ramsey, Luray, Kan.

WHITE ORPINGTON COCKERELS, KELLERSTRASS strain direct \$2 to \$5. J. F. Denton, South Mound, Kan.

FOR SALE—WHITE ORPINGTON COCKERELS, large bone, two to three dollars. Mrs. Geo. Walker, Alden, Kan.

ORPINGTONS.

FINE WHITE ORPINGTON COCKERELS—some from winners—two to five dollars. Mrs. Helen Lill, Mt. Hope, Kan.

THOROUGHBRED WHITE ORPINGTON cockerels \$3.00. Excellent laying strain. H. C. Morton, Wellsford, Kansas.

S. C. BUFF ORPINGTON EGGS FOR SETTING, \$1.00 for 16. Orders booked now. Mrs. Nellie Lawyer, Grenola, Kan.

PURE BRED WHITE ORPINGTON COCKERELS \$2 and \$3. Eggs in season. Emma Wilson, Auburn, Kansas. R. No. 24.

WHITE ORPINGTON COCKERELS, ALDRICH strain. Three and five dollars. Zephie Ray, Motor Vehicle Route A, Lewis, Kansas.

CRYSTAL WHITE ORPINGTON COCKS and cockerels, Kellerstrass-Jackson strains, \$1.50 to \$3.00. Mrs. Robt. Turner, R. No. 3, Box 50, Anthony, Kan.

LIMITED NUMBER WHITE ORPINGTON cockerels, bred from Aldrich best 1916 matings. Eggs from 3 fine pens. Satisfaction guaranteed. H. M. Goodrich, 712 Topeka Ave., Topeka, Kansas.

OVERLOOK POULTRY FARMS, BUFF AND Black Orpingtons won 32 first and 29 seconds this past show season. Cockerels for sale. Mating list sent free. Chas. Luengene, Topeka, Kansas, Box 1491.

S. C. WHITE ORPINGTON EGGS FROM birds especially bred for heavy laying. healthy, vigorous and from highest class strains. \$1.50 fifteen, \$3.25 fifty, \$6 hundred. Prepaid express or post. J. H. Lansing, Chase, Kansas.

MY WHITE ORPINGTONS MATED NOW, for egg strain. Are winners too. 1st, 2nd pullet, Solomon; 1st pen, 1st cockerel, 2nd pullet Concordia, 1917. Eggs by settings only: \$1.75. Until May 1st. Mrs. J. C. Vincent, Jamestown, Kan.

PLYMOUTH ROCKS.

BUFF ROCK EGGS, WILLIAM A. HESS, Humboldt, Kansas.

PARTRIDGE ROCK COCKERELS, \$1.50. Clyde Rees, Emporia, Kan.

WHITE ROCK COCKERELS, \$1.50 EACH. James Jensen, Kinsley, Kansas.

BARRED ROCK COCKERELS \$1.50 EACH. F. C. Gerardy, Clay Center, Kan.

IF IN NEED OF BARRED ROCKS, WRITE me. Twenty-five years, breeder and exhibitor. Frank McCormack, Morrowville, Kan.

PLYMOUTH ROCKS.

WHITE ROCK COCKERELS \$3 EACH, two for \$5. Chris Sauder, Virgil, Kan.

PURE BARRED ROCK COCKERELS \$1.50 to \$3.00. James Kesi, Belleville, Kan.

FOR SALE—BARRED ROCK COCKERELS \$1. Mrs. Geo. Umbach, Spearville, Kan.

BARRED PLYMOUTH ROCKS, EGGS \$6.00 hundred. Mrs. J. B. Jones, Abilene, Kansas.

FINE RINGLET BARRED COCKERELS. Eggs. Chicks. Edward Hall, Junction City, Kan.

BARRED ROCK COCKERELS OF PURE breeding for sale. L. Thomas, Wetmore, Kan.

FOR SALE—BARRED ROCK COCKERELS \$2 each. Agnes Wilson, Grantville, Kan. Phone 400.

BRED-TO-LAY BARRED ROCK EGGS. Very reasonable. Maple Grove Farm, Billings, Mo.

WHITE ROCKS, NONE BETTER. EGGS \$2.00 per fifteen, delivered. Thomas Owen, Topeka, Kan.

BIG, THIRTY QUALITY BUFF ROCKS. Prices reasonable. Mrs. Lloyd Clark, Hazelton, Kan.

PUREBRED WHITE ROCK COCKERELS, \$1.25 each. Mrs. Geo. F. Garr, R. 3, Grenola, Kansas.

ROSE COMB BARRED ROCK COCKERELS \$3 to \$5. Pullets \$1.50. Vesta Knevels, Natoma, Kansas.

WHITE ROCK COCKERELS \$1 TO \$5. Also eggs and baby chicks. W. H. Slyyer, Minneapolis, Kan.

PURE BRED BIG TYPE BARRED ROCK eggs. 75 per 15. \$4.00 100. Mrs. Geo. L. Fink, Eddy, Okla.

BARRED ROCK COCKERELS, "IMPERIAL Ringlets," \$2.00 to \$5.00. Edw. Whipp, Concordia, Kansas.

CHOICE BARRED PLYMOUTH ROCK cockerels and pullets \$2.00 to \$3.00 each. E. Leighton, Effingham, Kan.

BARRED ROCK EGGS \$5, CHICKS \$10 per hundred. Parke Duff strain. Henry Cummings, Larned, Kan., R. 2.

BARRED ROCKS, COCKERELS \$2.50, ONE yearling cock \$3.00. Hens \$1.25. Pullets \$1.50. Ullsh Brothers, Peabody, Kan.

BARRED ROCKS—68 PREMIUMS. Topeka, Manhattan, Clay Center, Denver, Mattie A. Gillespie, Clay Center, Kan.

START RIGHT. GET TISDALE'S WHITE Rocks. Eggs \$2.00 per 15; \$3.50 per 30, parcel post. The Tisdale's, Joplin, Mo.

FINE EXHIBITION BARRED COCKERELS. Thompson strain. \$2.50 to \$5. Mrs. H. P. Dingus, R. No. 3, Mound City, Kansas.

WHITE ROCK COCKERELS RIGHT IN shape, size and color \$2 to \$4. From prize winning stock. Mrs. Chas. Parker, Preston, Kan.

"RINGLET BARRED ROCKS." WINNERS wherever shown. Write for mating list and prices. Mrs. C. N. Bailey, Lyndon, Kansas.

PLYMOUTH ROCKS.

DUFF'S BIG TYPE BARRED ROCKS. Stock all sold. Booking orders for eggs future delivery. Write for prices. Chas. Duff, Larned, Kan.

BARRED ROCKS, FARM RAISED, NICELY barred, yellow legs; they will please you. \$2.50 each. Write us what you want. Moore Bros., Cedarvale, Kan.

SUNNYDALE BARRED ROCKS BRED TO weigh and lay and win. fancy cockerels \$2.50, \$3.00. Eggs \$6.00 per hundred. Mrs. L. Underhill, Wells, Kan.

WHITE ROCKS BRED FOR LAYING AND Standard points, choice chicks, for sale, also few cock birds from \$2.00 to \$4.00 each. Frank Lott, Danville, Kan.

FINE LARGE BARRED AND WHITE Rock cocks and cockerels. 45 prizes last year. Write for prices and mating list. H. F. Hicks, Cambridge, Kansas.

THIRTY YEARS A BREEDER OF BARRED Rocks. Winter-laying strain. Valuable circular free. Eggs \$1 per 15; \$4.75 per 100. O. E. Skinner, Columbus, Kan.

BARRED PLYMOUTH ROCKS EXCLUSIVELY. Have some choice chicks, and pullets for sale at \$1.50 up. Satisfaction guaranteed. Gus H. Brune, Lawrence, Kan.

TOP NOTCH BARRED ROCK COCKERELS \$2 to \$5. Winners of the blue wherever shown. Guarantee satisfaction or money back. James H. Parsons, Quinter, Kan.

WHITE ROCKS SOLD ON APPROVAL, free range, snow white cockerels \$3 and \$5. First cockerel Hutchinson and Wichita shows. Good laying strain. I. L. Heaton, Harper, Kan.

LINDAMOOD'S BARRED ROCKS. BOTH dark and light matings. Prices for eggs five dollars per 15. Utility eggs five dollars per hundred. Send for circular. C. C. Lindamood, Walton, Kansas.

BARRED ROCK CKL'S \$2, \$3, \$5 EACH; mated trios \$8. Pens \$10, \$15. Large bone, clear color. Winners and layers. Returned at my expense if not satisfactory. J. M. Detwiler, Mitchell, S. Dak., R. 4.

"ROYAL BLUE" AND "IMPERIAL RINGLET" Barred Plymouth Rock cockerels and pullets. 300 for sale; both matings. Write for prices. Satisfaction guaranteed. A. L. Hook, North Willow Poultry Ranch, Coffeyville, Kan.

EGGS FOR HATCHING. FROM BEST laying strains of Barred Plymouth Rocks. Bradley Bros. and Parks 200 egg strains. \$3-15. \$5-30. Catalogue. Gem Poultry Farm, Haven, Kansas.

BARRED ROCK SPECIALIST. PRIZE winners: Hobart, 1st, 2nd, 3rd, 4th cockerel; 1st, 3rd pullet; 1st pen; 2nd, 3rd cock; silver cup. Gold Special, Okla. City, 1st pullet, bred pen. Egg orders taken now. A few choice cockerels and pullets for sale. Fred Hall, Lone Wolf, Okla.

RHODE ISLAND WHITES.

PURE BRED ROSE COMB WHITE LEGhorn cockerels \$1.00 each. I. S. Stull, Forbes, Mo.

SINGLE COMB RHODE ISLAND WHITES, Eggs \$6.00 per 100. Albert Schlickau, Haven, Kansas.

PITTSBURG WINNERS, EGGS \$1.50, \$2.00, and \$7.50 per 15. Hatch of nine guaranteed. Early hatch from winter layers bring winter layers. Sidney Linscott, Holton, Kan.

RHODE ISLAND REDS.

ROSE COMB RED CHIX IN SEASON, ORDER early. Lily Robb, Neal, Kan.

ROSE COMB RED COCKERELS \$1.50 TO \$2.00. John Nicholas, Argonia, Kan.

PURE BRED ROSE COMB COCKERELS \$2. Mrs. Alex Leitch, Parkerville, Kansas.

ROSE COMB RHODE ISLAND RED COCKERELS \$2 each. Wm. Treiber, Wamego, Kan.

A FEW ROSE COMB R. I. RED COCKERELS \$1.50 each. G. D. Willems, Inmah, Kansas.

CHOICE RED COCKERELS \$2.00. EGGS 100-\$4.00. Mrs. Henry Williams, White City, Kan.

DARK RED ROSE COMB RHODE ISLAND Red cockerels \$3.00 and \$4.00 each. Mrs. L. A. McGuire, Paradise, Kan.

PURE BRED SINGLE COMB R. I. REDS, eggs, \$1 for 15. \$5.00 per hundred. J. M. McKee, R. No. 1, Leocompton, Kansas.

ROSE COMB RED EGGS \$6.00 PER 100. Have bred Reds exclusively for past ten years. J. W. Luthye, Silver Lake, Kan.

ROSE AND SINGLE COMB STANDARD bred Reds. Six pens. Mating list free. \$7 per hundred. T. N. Marshall, La Cygne, Kansas.

CHOICE ROSE COMB RED COCKERELS from pen birds. Headed by extra fine cock \$2 and \$3. We guarantee satisfaction. F. Borden, Winona, Kan.

R. C. RHODE ISLAND REDS—BEST WINTER layers, eggs from selected birds. \$2.00 per 15. \$7.50 per 100. Prepaid. Mrs. A. J. Nicholson, Manhattan, Kansas.

R. C. RHODE ISLAND REDS, UNSCORED cockerels \$1. 2 old cocks scored \$4 each price each \$6. Scored cockerels \$2 to \$4 each. M. L. Fridley, Wamego, Kansas.

FOR SALE—STOCK AND EGGS, SINGLE Comb-Rhode Island Reds. Winners at Hutchinson and Wichita shows. Prices gladly furnished. Joe Brada, Great Bend, Kan.

ROSE C. RED EGGS FOR HATCHING from beautiful dark color, \$1.50 per setting, \$5.00 per hundred. Baby chicks 10c each. Mrs. M. S. Corr, Cedar Knoll Poultry Farm, Soldier, Kan.

ROSE COMB REDS, STATE SHOW winners for years. Eggs, choice yards, \$3.00 to \$5.00 per 15. Extra good farm range \$5.00 per 100. Free catalog. Mrs. Clyde Meyers, Fredonia, Kan.

ROSE AND SINGLE COMB REDS, EGGS for sale \$5 per hundred. Baby chicks \$12.50 per hundred, farm flock. Won many prizes at Kansas State show. Cedar Grove Farms, Lansing, Kansas.

ROSE COMB RHODE ISLAND REDS, EXCLUSIVE cockerels \$1.50 and \$2.50, large bone and good laying strain. Eggs \$1.50 and \$2.50 per 15. Mrs. W. H. Smith, R. No. 2, Box 37, Raymond, Kansas.

S. C. REDS BRED-TO-LAY EGGS FROM thoroughbred rich red large hardy hens hatched free range and heaviest winter layers, guaranteed. Setting \$1.00. Hundred \$4.00. Belmont Farm, Topeka, Kansas.

RHODE ISLAND REDS.

S. C. RED EGGS AND CHICKS. MRS. W. L. Maddox, Hazelton, Kan.

FERTILITY AND SAFE ARRIVAL GUARANTEED on low priced eggs for hatching, from high quality both combs Rhode Island Reds. Fourteen years breeding, mating list free. H. A. Sibley, Lawrence, Kansas.

SUCCESSFUL POULTRY FARM WHICH is raising Rose C. Reds exclusively will book your orders for spring delivery of eggs from pen No. 1, \$10.00 15. Pen No. 2 \$5-15. Pen No. 3 \$6 per 100, or \$1 per 15. Fertility guaranteed. Mrs. Roy Davison, Sabetha, 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.

FOR SALE: A LARGE NUMBER OF S. C. Rhode Island Reds, both sexes, from prize winning pens. Birds good enough for any show east or west. Price a matter of correspondence. Do not fail to get my new catalog and \$50.00 reward offer. J. M. Springer, Stillwater, Okla.

OVERWEIGHT ROSE COMB REDS. BRILLIANT color, heavy bone, long back. Splendid layers. Exceptional pen values. Ten pound males. Choice range flock eggs, 100, \$6.00. Strong fertility and safe arrival guaranteed. First twelve orders prepaid. Geo. F. Wright, Kiowa, Kan.

ROSE COMB R. I. REDS. HIGH SCORING cockerels up to \$5.00. My first pen is composed of prize winning pullets at Southwest Poultry show mated to quality bred cockerel. Eggs \$3.00 for 15—\$15 hundred. Range eggs \$1.00 for 15—\$6.00 hundred. Also Wild Mallard duck eggs in season. Let me book your order now. A. Brown, Pratt, Kansas.

SEVERAL VARIETIES.

COCKERELS, WHITE ORPINGTONS, White Wyandottes, Barred Rocks, Emma Ahlstedt, Roxbury, Kan.

AM BOOKING ORDERS FOR BARRED Rocks, Reds, White Wyandottes, baby chicks. 1144 Idaho St., Superior, Neb.

SINGLE COMB BLACK MINORCA AND Golden Wyandotte cockerels. Good ones. H. H. Dunlap, Liberal, Kansas.

WHITE WYANDOTTES, MAMMOTH PEKIN duck eggs. Frisco winners. Catalog free. Mrs. A. J. Higgins, Effingham, Kan.

FOR SALE, "WHITE CHINESE GESE," "Fawn White Runner ducks," "Pearl guineas." Mrs. P. Thompson, Agenda, Kan.

WHITE WYANDOTTE EGGS, 75-15; \$3.50-100. Pure White Runner duck eggs, \$1.00-15; \$4.50-100. Mrs. Alice Sellers, Mahaska, Kan.

COLUMBIAN AND WHITE WYANDOTTE cockerels \$1 and up. White Holland turkey tom \$4.50. Hens \$3.00. Bertha V. Chacey, Meriden, Kan.

CHOICE WHITE ROCK COCKERELS. White Rock eggs. Pure Bourbon Red turkeys. Buff Orpington duck eggs. Mrs. Chas. Snyder, Effingham, Kan.

EXTRA FINE S. C. BUFF ORPINGTON and S. C. White Leghorn cockerels, \$1.50 to \$5.00 each. Satisfaction guaranteed. F. E. Fisher, Wilson, Kansas.

2,949 COCKERELS, HENS AND PULLETS, 49 varieties—chickens, geese and ducks. Eggs in season. Sheds and trees. Aye Bros., Blair, Neb., Box 5. Free book.

TURKEYS.

MAMMOTH WHITE HOLLAND TOMS. Mrs. J. M. Taney, Lathrop, Mo.

WHITE HOLLAND TOMS \$5.00. HENS \$3.00. Mrs. R. A. Lewis, Timken, Kan.

BOURBON RED TURKEY TOMS \$4.00 each. Mrs. F. E. Tonn, Haven, Kan.

WHITE HOLLAND TURKEYS. TOMS \$4. Hens \$3. Miss Inez Gookin, Russell, Kan.

BOURBON RED TURKEYS. TOMS \$5. HENS \$3. Mrs. Bert Fick, McAlister, Kansas.

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

TOM TURKEYS, PURE BRONZE, FOR sale. H. E. Wilkins, Chapman, Kan., R. F. D. No. 3.

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

BOURBON RED TOMS, LARGE with splendid color. \$5.00 each. E. Lloyd Rodkey, Charleston, Okla.

MEYERS BOURBON REDS EXCEL IN size, color and markings. Three choice matings. Eggs \$3.00 to \$5.00 per 11. Free catalog. Mrs. Clyde Meyers, Fredonia, Kan.

WYANDOTTES.

FINE WHITE WYANDOTTE COCKERELS \$1.50. F. Patterson, Lyndon, Kan.

WHITE WYANDOTTE COCKERELS \$1.50. Mrs. R. T. Wright, Grantville, Kan.

BUFF WYANDOTTE COCKERELS, PRICES reasonable. C. Williams, Long Island, Kan.

PURE BRED WHITE WYANDOTTE COCKERELS \$1.50. Mrs. J. R. Antram, Galesburg, Kansas.

GOLDEN WYANDOTTE COCKERELS FROM prize winning stock. M. M. Donges, Belleville, Kan.

PARTIDGE WYANDOTTE PRIZE WINNERS, eggs, baby chicks. E. E. Grimes, Minneapolis, Kan.

GOLDEN WYANDOTTE COCKERELS, from egg laying stock. \$2.00 each. A. E. Roark, Scott, Kan.

PARTIDGE WYANDOTTES. PRICES reasonable and satisfaction guaranteed. Cline Lee, Elk City, Okla.

PARTIDGE WYANDOTTE COCKERELS for sale \$2 and \$3 each. D. E. Powell, R. F. D., El Dorado, Kan.

ROSE COMB WHITE WYANDOTTE COCKERELS \$1.00, \$2.00 and \$3.00 each. Mrs. Robt. Greenwade, Blackwell, Okla.

SHUFF'S BEAUTIFUL SILVER WYANDOTTES, cockerels \$2, \$2.50, \$3, \$4, \$5. Hens \$1.50, \$2.00. Mrs. Edwin Shuff, Plevna, Kansas.

SILVER WYANDOTTES. BLUE RIBBON winners. Bred to lay. Eggs \$2.00 and \$1.00 per 15. Chas. Flanders, Springhill, Kansas.

WYANDOTTES.

THOROUGHbred ROSE COMB SILVER Laced Wyandotte cockerels \$1.50 to \$2.00. Judson Adcock, Coldwater, Kan.

125 CHOICE PURE BLOOD WHITE WYandotte pullets and hens reasonable. Frank Reamer, Rt. No. 6, Holton, Kan.

WOOD'S SILVER WYANDOTTES, MALE and female are sold on a money back guarantee. Earl Wood, Grainfield, Kan.

WHITE WYANDOTTES, COCKERELS ALL scored \$3.00 to \$5.00. Eggs \$2.00 per setting. Mrs. Geo. E. Joss, Topeka, Kansas.

EGGS FROM LAYING STRAIN OF SILVER Wyandotte per 100-\$5.00, setting \$1.50. Henry L. Brunner, Rt. No. 5, Holton, Kan.

PURE SILVER LACED WYANDOTTE cockerels \$1.25 to \$2.50. Hens \$1.25 each. Early hatched. Mrs. Alvin Tennyson, Lamar, Kan.

CHOICE COLUMBIAN WYANDOTTE COCKERELS and pullets from prize winning strains \$1.50 up. J. H. Alexander, R. 3, Clay Center, Kan.

WHITE WYANDOTTE COCKERELS, PURE bred, large, pure white, first prize winners, \$3 to \$10 each. Hens and pullets. Mrs. Chas. Gear, Clay Center, Kan.

POULTRY WANTED.

WE ALWAYS PAY HIGHEST MARKET price for poultry of all kinds. Coops loaned free. Address Edw. E. Withey, Topeka.

PAYING FOR NO. 1 POULTRY: TURKEYS 24c. Hens 17c. Capons 22c. Ducks 14c. Guinea do. \$5.00. Coops free. The Copes, Topeka.

FERTILE EGGS WANTED. ROCKS AND Reds especially. From mature range breeders. Premium above market. Cases free. Largest Hatchery in Missouri Valley. Kansas Hatchery, 7720 Broadway, Kansas City.

PET STOCK.

FEMALE ESQUIMO DOGS AND BEES wanted. L. E. Becker, Concordia, Kan.

FIRST CLASS OPPOSUM, SKUNK AND coon dog. H. Ferguson, 21 and Virginia, Highland Park, Rt. No. 27, Topeka.

COYOTE AND RABBIT COURSING Russian wolf, stags, and grey hounds. Just arrived Russian wolf and grey hound cross pups at 6 weeks \$10.00 each. Also registered collies. Idle Hour Kennel Co., Guymon, Okla.

LIVESTOCK.

PRICED RIGHT, LARGE YOUNG BLACK Jack. J. S. Smalldon, Fairbury, Neb.

WANTED A GOOD AGED HEREFORD bull. Benton Bros., Oberlin, Kansas.

RED POLLED BULLS, NONE BETTER. D. F. Van Buskirk, Blue Mound, Kan.

FOR SALE OR TRADE FOR CATTLE, Imported Percheron stallion. O. E. Madinger, Wathena, Kan.

50 COWS, SOME FRESH AND OTHERS to freshen soon. H. Beggs, R. No. 1, Junction City, Kansas.

ONE GREY 8 YEAR OLD JACK FOR SALE, or trade for cattle. Write Elmer Harris, Medicine Lodge, Kansas.

FOR SALE—REGISTERED HOLSTEIN calves. Both sexes. No grades. W. G. Wright, Overbrook, Kan.

FINE HOLSTEIN BULL CALF THREE months old, light color. Pontiac breeding. G. E. Berry, Garnett, Kan.

WRITE FOR DELIVERED PRICES ON some fine registered Jersey bulls. Chester Thomas, Waterville, Kansas.

A FEW CHOICE HOLSTEIN BULLS ready for service, good butter records. H. N. Holdeman, Meade, Kan.

FOR SALE OR TRADE—1 GREY PERCHERON stallion, 1 black jack. Cheap. Robert Ritchie, Hamilton, Kansas.

GOOD MO. JACK TO TRADE FOR USED Ford car or good work team of horses or mules. Address W. F. Stone, Seibert, Colo.

4 REGISTERED JERSEY COWS and heifers for sale. Golden Lad and St. Lambert breeding. Priced to sell. W. F. Pyke, Marion, Kan.

PERCHERON STALLION COLTS FOR sale; one two years, one yearling, two weanlings, all blacks. F. J. Bruns, Clay Center, Kansas.

TWO FULL BLOOD HOLSTEIN COWS, one four years old, the other two years old, both of the King Segis strain. Leland N. McAfee, Rt. No. 8, Topeka, Kan.

HIGH GRADE GUERNEY BULLS, ONE yr. old sired by imported bull and from 15-16 dams. Good individuals. Can send photos. J. W. Carnagey, Belton, Mo.

PLAINVIEW POLANDS, BIG TYPE, IMMUNE. Bred sows and gilts. No culls. Also choice lot of fall pigs, either sex, prices reasonable. Plainview Hog and Seed Farm, Frank J. Rist, Humboldt, Neb., Box 8.

LIVESTOCK FIRMS.

SHIP YOUR LIVE STOCK TO US—COMPETENT men in all departments. Twenty years on this market. Write us about your stock. Stockers and feeders bought on orders. Market information free. Ryan Robinson Com. Co., 425 Live Stock Exchange, Kansas City Stock Yards.

FENCE POSTS.

FOR SALE—CATALPA POSTS, CAR LOTS. Ed. N. Sweet, Hutchinson, Kan.

FOR SALE: FIFTY THOUSAND OSAGE Hedge posts. H. W. Porth, Winfield, Kan.

LUMBER AND BUILDING MATERIALS.

LUMBER DIRECT FROM MILL TO THE consumer. Send us your itemized bills for estimate. Mixed cars our specialty. McKee Lumber Co. of Kansas, Emporia, Kan.

LUMBER AND SHINGLES AT WHOLESALE prices. Farmers' trade our specialty. Send us your bills for free estimate. Robert Emerson Co., P. O. Box 1156-F, Tacoma, Wash.

LUMBER, SHINGLES, SASH, DOORS, ETC. Complete house bills shipped anywhere. Examination allowed. No advance required. Grade and count guaranteed. Send estimate. Independent Co-operative Lumber Co., Lake Charles, La. "The Home of Long Leaf Pine."

SEEDS AND NURSERIES.

SEED CORN. W. R. HILDRETH, OSWEGO, Kan.

BROOMCORN DWARF. \$2.50 PER BUSH- el. L. S. Sanders, Atlanta, Kan.

CHOICE SHAWNEE WHITE SEED CORN. J. A. Ostrand, Elmont, Kansas.

RECLEANED GRADED RED CLOVER seed. Walter Brown, Perry, Kansas.

WHITE SWEET CLOVER, HULLED \$6 bu. Lester Pears, Lyndon, Kansas.

WHITE BLOSSOM SWEET CLOVER REASONABLE. John Lewis, Hamilton, Kansas.

SWEET CLOVER SEED 15 CENTS PER pound. Otis Coyle, Medicine Lodge, Kan.

STRAWBERRY PLANTS—\$2 PER 1000. 6000 \$9. List free. J. Sterling, Judsonia, Ark.

FOR SALE—SEED CORN AND JERSEY bulls. Laptad Stock Farm, Lawrence, Kan.

NICE CLEAN ALFALFA SEED \$8. 25C for sacks. J. T. Coleman, Sharon, Kan., R. No. 1.

CHOICE RE-CLEANED ALFALFA SEED \$8.00 a bu., sacks free. Emil West, Elk City, Kan.

CHOICE ALFALFA SEED \$7.50 PER BU. bags furnished. Frank Lanier, Belle Plaine, Kan.

SEED CORN—IMPROVED, HIGH-YIELD- ing varieties. Bristow Seed Corn Farm, Wetmore, Kansas.

DRY LAND ALFALFA SEED FOR SALE 1 1/2 cents per lb. W. B. Sheeder, Rt. No. 1, St. Francis, Kan.

BLACK HULLED WHITE KAFFIR SEED. Recleaned, tested and sacked \$2 per bu. Grover Lee, Pratt, Kan.

SUMAC AND SEEDED RIBBON CANE seed, extra good, recleaned, \$2.50 per bu. G. E. Irvin, Gage, Okla.

FOR SALE ALFALFA SEED 1916 CROP. For prices and samples, write G. A. Badger, Eureka, Kansas.

WHITE KAFFIR SEED, RECLEANED \$1.80 per bushel sacked. Clinton Adams Grain Co., Winfield, Kan.

CHOICE ALFALFA SEED, SAMPLES AND prices submitted on application. J. E. Barnesberger, Americus, Kan.

KAFFIR SEED, BLACK HULLED \$2.00 a bu. Can furnish car lots. Samples submitted. A. M. Brandt, Severy, Kansas.

FINE KANSAS SUNFLOWER SEED CORN. Reference Agricultural College, \$1.50 bu. Tom R. Williams, Valley Center, Kansas.

10 ELBERTA AND 5 CHAMPION PEACH trees postpaid \$1.00. Send now. Wellington Nurseries, Dept. A, Wellington, Kansas.

STANDARD BLACK HULLED WHITE Kaffir. Grown from hand picked seed. \$1.75 bu. sacked. W. L. Helser, Anthony, Kan.

CHOICE ALFALFA SEED \$3.40 BUSHEL. White blooming Sweet clover seed \$7.50 bushel. Samples free. Chas. Kelley, Kinsley, Kansas.

SEED CORN: BOONE CO. WHITE, COM- mercial, Kansas Sunflower. Tested, graded, guaranteed, \$2 per bushel. J. M. McCray, Zeandale, Kan.

PURE GOLDMINE AND BOONE COUNTY White seed corn selected. Graded \$2 per. Alfalfa seed \$7.50 per. Samples free. J. F. Feigley, Enterprise, Kan.

SEED CORN—3 STANDARD VARIETIES, none better. Kherson oats and clover seed. Plainview Hog and Seed Farm, Frank J. Rist, Humboldt, Neb., Box 8.

RECLEANED ALFALFA, WHITE, PINK and black dwarf kaffir. Prices and samples cheerfully submitted on application. Lott & Stine, Glasco, Kansas.

TREES, KANSAS GROWN TREES. 20 peach one dollar. Five dollars sets an acre. Get our prices before you buy. Sunflower Nurseries, Lawrence, Kansas.

SEEDS—COMPLETE STOCK GARDEN, field and flower, catalogue free. In market for grass seed. Wyandotte Seed Co., Kansas City, Kan., 435 Minnesota Ave.

KAFFIR STANDARD AND DWARF RED and cream dwarf maize. Orange and Golden cane all \$4.50 per 100 lbs. prepaid in Kansas. Claycomb Seed Store, Guymon, Okla.

BLAIR'S WHITE SEED CORN, ADAPTED to Kansas and Oklahoma. Heavy yielder, early and a drought resister. Free book. Aye Bros., Blair, Neb. Seed corn center of the world.

DWARF BLACK HULL WHITE KAFFIR. Drought resister. Under 100 lbs. 5 cts. 100 to 500 4 cts. Over 500 lbs. 3 1/2 cts. per lb. Graded and sacked F. O. B. Tyrone, Okla. J. W. Wartenbee.

TREES—SHRUBS—PLANTS—VINES— Seeds—Everything at lowest prices direct to you. All tree peddlers' commissions cut out. Free book. Wichita Nurseries & Seed House, 100 Shell Bldg., Wichita, Kansas.

TREES—SHRUBS—PLANTS—VINES— seeds—Everything at lowest prices direct to you. All tree peddlers' commissions cut out. Free book. Wichita Nurseries & Seed House, 100 Shell Bldg., Wichita, Kansas.

RED TEXAS RUST PROOF SEED OATS, recleaned and carefully graded. You buy nothing but oats. Grown here one year. They are fine. Let me send you a sample and prices. Warren Watts, Clay Center, Kan.

RED TEXAS SEED OATS FIRST CROP from seed direct from Texas. Recleaned and sacked .75 bu. Can save you money on seed corn, clover, timothy and alfalfa seed. Brown County Seed House, Hiawatha, Kan.

CLOVER—SWEET, WHITE BLOOM, FOR sale; my own raising; recleaned, fresh and fine; a limited amount. Get it now. While it lasts, \$10 per bushel, 60 pounds, f. o. b. cars, Wichita. J. O. Rea, R. 3, Wichita, Kan.

SEED CORN. PURE BRED REID'S YEL- low Dent, and Boone County White. Alsike, Mammoth and medium Red clover, Kherson and Iowa 183 oats, new crop timothy seed. Folder and prices free. F. M. Riebel & Son, Arbela, Mo.

WE HAVE 400 BU. RECLEANED DWARF Black Hulled Kaffir corn. We are offering at \$1.85 per bu. sacked and delivered at R. R. station. This seed is from seed bought at the Manhattan station two years ago. Wm. McNitt, Elk Falls, Kansas.

KAFFIR SEED, WE HAVE TWO CARS fine white kaffir seed that tests over 90% germination which we will sell while it lasts in 2 bu. sacks or over at \$1.85 per bu., sacks free. It will be hard to find good kaffir seed like this. If you need any better order quick. Brooks Wholesale Co., Ft. Scott, Kansas.

SEEDS AND NURSERIES.

ALFALFA SEED FROM HIGH PRODUCING fields. 370 bu. threshed from 40 acres. Quick to recover after each cutting. 95% germination, 99 purity test made by County Agt. Schnacke. Won 1st at our fair. Price \$8.00 per bu. New sacks 25c. Stockwell Farms, Larned, Kan.

EXTRA GOOD WHITE CORN GROWN IN Central Ford Co. in 1916 and carried over in the ear. Will remove tips and butts before shelling. If you want some of the most vigorous offered this season make sure of some of this. \$2.50 bu. 5 bu. or more \$2.25. M. V. Hess, Ensign, Kansas.

PURE BLACK HULLED WHITE KAFFIR corn raised from seed from Kansas State Agricultural college. 1916 crop well matured, \$2.50 per bu. 25 cents for bags F. O. B. Fancy alfalfa seed recleaned \$7.50 per bu. 25 cents for bags F. O. B. Send money order for amount wanted. I. Girod, Cambridge, Kansas.

SEEDS WANTED.

WE BUY WHITE SWEET CLOVER IN small lots if priced right. State quantity, quality, and lowest dollar. Standard Seed Co., Eureka, Kan.

LANDS.

FOR GOOD LEVEL WHEAT LAND WELL located, write A. L. Butts, Point Rocks, Kan.

1/4 SEC. BROKE, 7 MI. FROM SCOTT City, \$2400. Terms. D. E. Jones, Belleville, Kan.

FOR SALE—WELL IMPROVED FARM, liberal terms. R. R. 2, Box 30, Montezuma, Kan.

SUBURBAN TRACTS NEAR HUTCHINSON, Kansas. Easy terms. Sweet-Coe Impt. Co., Hutchinson, Kansas.

IF YOU WANT TO BUY OR SELL MORTON county, Kansas, land, write A. L. Butts, Point Rocks, Kansas.

IF YOU WANT TO SELL OR EXCHANGE your property, write me. John J. Black, Desk 9, Chippewa Falls, Wis.

PASTURE FOR RENT—FIVE EIGHTIES—four miles west of Waverly, Coffey Co. Apply to Robt. M. Carrons, owner, Washington, Pa.

247 ACRES, SOLOMON VALLEY, ALFALFA farm, well improved in Norton county. Write A. W. Winegar, Burlington, Colo., for further information.

FARMERS AND STOCKMEN—A GOOD 1400 acre Osborne Co. ranch for sale. For terms and particulars call on or write Harry Gravatt, Hunter, Kan.

IMPROVED 71 ACRE FARM 30 MILES southeast of Topeka, one mile from high school, \$60 per acre. Gall Louk, Owner, Michigan Valley, Kan.

MONTANA 640-ACRE HOMESTEADS—New towns, business opportunities. Send 25c for maps and information. Address U. S. Commissioner, Outlook, Mont.

GOOD RANCH AND AGRICULTURAL land cheap, northern Finney, southern Scott Co., near railroad; alfalfa district. Address Ward & Easley, Friend, Kan.

WANTED TO TRADE A GOOD RESI- dence in Stockton, Kan., on 1/4 section of good wheat land. Will pay the difference. Address J. B. Hubble, Stockton, Kan.

160 A. IN GRAHAM CO. 90 ACRES WHEAT, bal. pasture. Living water; 7 miles from railroad, 1/2 mile to school; 4 miles to Cath- olic church. Price \$3200. Ben Clouse, Murdock, Kan.

GOOD QUARTER WELL IMPROVED LAND 6 miles market, also 2 pure bred stallions, 2 Mammoth jacks for sale at bargain. Write for description. N. Legg, Cullison, Kan., R. R. No. 2.

SMALL MISSOURI FARM. \$10 CASH AND \$5 monthly; no interest or taxes; highly productive land; close to 3 big markets; write for photographs and full information. Munger, C-142 N. Y. Life Bldg., Kansas City, Mo.

BEAUTIFUL 80, 1 1/2 MI. COUNTY SEAT; all tillable; lots of fruit, fine water. Well improved. 25 alfalfa, 30 pasture. \$75 a. Perfect title; possession. Terms. No trades. Fully equipped if wanted. John Roberts, Lyndon, Kan.

FOR RENT—80 ACRES 6 MI. SOUTH OF Topeka, cash offer. What have you to trade for 12 acres mostly fruit? Water and soil fine, bumper crop every year. Potatoes made \$30 per acre 1916. Taylor Cooley, Grand Valley, Colo.

FARM FOR SALE BY OWNER: 200 ACRES rich land, well improved, well located, 5 room house, large barn, cattle shed, granary, other buildings. Fine water. Very healthy country. Corn, wheat, oats, clover, blue grass. Low price, easy terms. M. R. Bigler, Neosho, Mo.

FOR SALE—160 A. JOINING TOWNSITE Hazelton. All cultivated, half bottom land. Well improved modern house. Horse and cow barn, hay barn, garage, also barn and breeding lots. An extensive breeding business. A fine investment. Hugh Wible (Owner), Hazelton, Kan.

ARE YOU INTERESTED IN BUYING GOOD farm lands in a new and undeveloped country? Let us tell you about a country which, though new, still offers you most of the advantages of your home state. Where you can raise the same crops with which you are familiar and some perhaps that you have never attempted to grow. Where there is a diversity of soils, low prices and good titles. Where there are modern cities and towns, good schools and churches, good roads, telephones, electricity, etc. Where living conditions can be compared favorably with your home state. The Twelve Counties of Eastern Oklahoma traversed by the Missouri, Kansas & Texas Rail- way offer exceptional opportunities to the farmer seeking a new location in a country where he can purchase land at low prices, yet have all the advantages to which he is accustomed. Oklahoma was admitted to Statehood in 1907, since which time cities and towns have sprung up rapidly to the neglect of the farm lands. More good farm- ers are needed. The U. S. Weather Bureau says "Eastern Oklahoma is a distinctly agricultural country—agreeable for residence and exceptionally favorable for agricul- tural pursuits." Rainfall is well distributed through growing season—35 to 45 inches." We have dependable free literature telling all about it. Write today to Colonization Dept., M. K. & T. Ry., Room 1504 Railway Exchange Bldg., St. Louis, Mo.

LANDS.

YOUR CHANCE IS IN CANADA—RICH lands and business opportunities offer you independence; Farm lands, \$11 to \$30 acre; irrigated lands, \$35 to \$50; Twenty years to pay; \$2,000 loan in improvements, or ready made farms. Loan of live stock; Taxes average under twenty cents an acre; no taxes on improvements, personal property, or live stock. Good markets, churches, schools, roads, telephones; Excellent climate—crops and live stock prove it. Special homeseekers' fare certificates. Write for free booklets. Allan Cameron, General Superintendent Land Branch, Canadian Pacific Ry., 14 Ninth-av., Calgary, Alberta.

NEW FARM OPPORTUNITY IN ONE OF the greatest states in the Union. A new line of the Santa Fe is tapping a rich and fertile prairie section of Northwest Texas, where already many farmers have made good in a big way with wheat, hogs and live stock. Here, if you act now, you can get first choice—get in on the ground floor of a great opportunity. You can get in ahead of the railway—ahead of the people whom the railway will bring—ahead of those who act more slowly than you do. This is the chance of a lifetime for a man of moderate means. A certain number of thrifty far-seeing farmers can acquire good land at an astonishingly low figure and on long, easy terms. If you have confidence that a great railroad, like the Santa Fe, would only recommend what it considers a good thing, and because it wants to see new territory developed and wants newcomers to prosper and produce—then write me today for particulars about this district. Mild climate, social advantages, schools, churches, telephones, good roads. Everything there but enough men with their families. Will you be one of the fortunate first comers to reap the advantages of a section that has been minutely inspected by a Santa Fe agricultural agent and pronounced right? Write me now and let me send you a copy of the special illustrated circular we are getting out. C. L. Seagraves, Industrial Commissioner, A. T. & S. F. Ry., 932 Railway Exchange, Chicago.

FARMS WANTED.

WANTED TO RENT AN EQUIPPED GRAIN and dairy farm, good help and reference. Box 34, Rt. No. 5, Clay Center, Kan.

WANTED—TO LEASE A STOCK RANCH in West Central Kansas from 2000 to 3000 acres, with plenty of water. F. W. Sweeney, Stockton, Kan.

I HAVE SOME CASH BUYERS FOR SALE-able farms. Will deal with owners only. Give full description, location, and cash price. James P. White, New Franklin, Mo.

FARMS FOR RENT.

400 ACRES IMPROVED RANCH, ELK county, Kansas. \$800. Immediate possession. Write owner, E. L. Miller, 407 Jackson Ave., Kansas City, Mo.

BUSINESS INSTRUCTION.

FARMERS 18 OR OVER—GET GOVERN-ment jobs, \$75 to \$150 month. Vacations with full pay. Spring examinations everywhere. Education unnecessary. Sample questions free. Write immediately. Franklin Institute, Dept. W 51, Rochester, N. Y.

RAILWAY SCHOOLS.

NO STRIKE: 8 HOUR DAY. MEN EVERY-where. Firemen, brakemen, baggage men, \$120. Colored porters. Experience unnecessary. 796 Railway Bureau, E. St. Louis, Ill.

CREAM WANTED.

CREAM WANTED—THE INDEPENDENT Creamery Company of Council Grove, Kansas, buys direct from the farmer. Write for particulars.

FOR SALE.

SMALL MILLINER STOCK. PRICED LOW to sell by Feb. 24. Write X, care Mail and Breeze.

FOR SALE—15-30 OIL-PULL TRACTOR and Avery plow. Harry Dyck, Moundridge, Kansas.

FOR SALE—NEW MISSOURI HAY PRESS, 7 horse engine. Write M. Hollingsworth, Mound City, Kan.

FOR SALE OR TRADE—SIX BOTTOM fourteen inch case engine plow. Marvin Mowry, Luray, Kan.

IF YOU HAVE PROPERTY FOR SALE OR exchange write us. Real Estate Salesman Co., Dept. 4, Lincoln, Neb.

MANURE LOADER—REDUCED PRICE TO introduce, only \$40.00, fully guaranteed; scraper free for a short time. Anderson, Osage, Kansas.

FOR SALE OR TRADE—A \$4000 STOCK of general merchandise, 8 miles from railroad or trading point. Inland. Good trading place. No agents. A., care Mail and Breeze.

FOR SALE—ONE 16 HORSE POWER GAS-oline engine on steel truck. Good as new. Also double seated, rubber tired carriage for sale or trade. Make me an offer. H. W. McAfee, Topeka, Kan., Rt. No. 8.

HERE IS YOUR CHANCE TO GET A FORD touring car and make \$50.00 a week while getting it. Costs nothing to try. Write today giving three business references. Agency Manager, 426 Capital Bldg., Topeka, Kansas.

RUMELY SEPARATOR SIZE 28-44, AD-vance "16" horse power steam engine, and lumber saw. All in good condition and for sale. Reasonable. Would consider part cash and part livestock. H. J. Malke, Rt. No. 4, Alma, Kansas.

FILMS DEVELOPED.

KODAK FILMS FINISHED BY EXPERI-enced photographers. Reed Studio, Norton, Kan.

ANY ROLL FILM DEVELOPED 5C. PRINTS 3 1/2 x 5 1/4 or smaller 3c. 24-hour service. National Photo Co., Omaha, Neb.

SITUATION WANTED.

I AM SEEKING A POSITION ON A KAN-sas farm as a housekeeper or to assist with the house work. I am compelled to secure employment for the support of myself and small son. If you are in need of competent help write to Mrs. Emma Smelser, Wheaton, Kan.

MALE HELP WANTED.

WANTED—MAN FOR GENERAL FARM work. Yearly home for right party. M. Ohmart, Hope, Kansas.

MOLER BARBER COLLEGE. OLDEST and cheapest. Men wanted. Write for free catalogue. 514 Main St., Kansas City, Mo.

MARRIED MAN TO WORK ON FARM. Will pay \$40 per month. House, garden and pasture for 1 cow. Send references. Leroy Pierce, Linwood, Kan.

SALESMEN WANTED FOR FRUIT AND ornamental trees. Experience unnecessary. Outfit free. Pay weekly. Carman Nursery Co., Lawrence, Kan., Dept. A.

WANTED 500 SALESMEN TO SELL MAGIC Motor Gas. One quart price \$2.00 equals 50 gallons gasoline. Not a substitute. Greatest product ever discovered. Large profits. Auto Remedy Co., 203 Chestnut, St. Louis, Mo.

AGENTS WANTED.

MAN TO WEAR FINE SUIT, ACT AS agent. Big pay, easy work. Banner Tailoring Co., Dept. 534, Chicago.

WE PAY \$80 MONTHLY SALARY AND furnish rig and expenses to introduce guaranteed poultry and stock powders. Bigler Company, X 608, Springfield, Ill.

PATENTS.

PATENTS. PICTURE OF PATENT OFFICE and 3-year calendar free. Fitz Gerald Co., Patent Attorneys, 816 F St., Washington, D. C. Established 1880.

PATENT WHAT YOU INVENT. IT MAY be valuable. Write me. No attorney's fee until patent is allowed. Estab. 1882. "Inventor's Guide" free. Franklin H. Hough, 532 Loan & Trust Bldg., Washington, D. C.

INVENT SOMETHING. IT MAY BRING wealth; free book tells what to invent and how to obtain a patent through our Credit System. Waters & Co. Succeeded by Talbert & Parker, 4215 Warder Bldg., Washington, D. C.

PATENTS SECURED OR ALL FEES RE-turned. Patents sold free! Our "Patent Sales Department" bulletin, and books, free! Send data for actual free search. Credit given. E. E. Vrooman & Co., 885 F, Washington, D. C.

PATENTS ON EASY PAYMENTS. SEND sketch for free search. Write for our new book on what to invent and how to protect your invention under our new easy payment plan. C. C. Hines & Co., 612 Loan & Trust Building, Washington, D. C.

MEN OF IDEAS AND INVENTIVE ABIL-ity should write for new "List of Needed Inventions." Patent Buyers, and "How to Get Your Patent and Your Money." Advice free. Randolph & Co., Patent Attorneys, Dept. 25, Washington, D. C.

PATENTS—WRITE FOR HOW TO OB-tain a Patent, list of Patent Buyers and Inventions Wanted. \$1,000,000 in prizes offered for inventions. Send Sketch for free opinion as to patentability. Our Four Books sent free. Patents advertised free. We assist inventors to sell their inventions. Victor J. Evans Co., Patent Attys., 825 Ninth, Washington, D. C.

MISCELLANEOUS.

CONTAGIOUS ABORTION PREVENTED by R. Harold, Manhattan, Kan.

LADIES. SEND 25 CENTS SILVER FOR silk tatted neck bow. Blue, lavender, rose, green. Miss Lillie Rumbuhl, Leslie, Mo.

TWENTY POUNDS CREAM MAKES twenty pounds butter. New way churning. Write Charlie Clemmons, Verden, Okla.

BUILD YOUR OWN CEMENT SILO. WE have two Polk system forms for building cement silos, for sale cheap; or will rent. Write us for prices. Oklahoma Cement Silo Co., Oklahoma City.

LIFE OF BUFFALO BILL AND STORY OF Wild West, written by himself; big book, well illustrated; tells his whole life; everybody wants it; liberal commissions, credit if desired; send 15 cents for sample book. George G. Clows Co., Philadelphia, Pa.

BIG BARGAIN FOR SHORT TIME ONLY. Send only 10 cents and receive the greatest farm and home magazine in the Middle West for six months. Special departments for dairy, poultry and home. Address Valley Farmer, Arthur Capper, publisher, Dept. W. A. 10, Topeka, Kansas.

Cold Weather is Hard on Wheat

The extremely cold weather the last few days of January and the first few days of February was hard on the wheat. A good snow or rain would please the folks in most of the counties in Kansas. Public sales are well attended.

Grant County—We are having fine weather for this time of year. Horses are doing well on grass. A great many horses and mules are being sold at fair prices. Cattle are in good condition. There is plenty of rough feed in the country and there is some grain. Corn \$1.—J. M. Kinsman, Feb. 2.

Greeley County—We are having nice weather at present. Stock is doing well. Farmers are eager to begin spring work. Ground is in excellent condition. Some new settlers are coming in. We have organized a County Union. Eggs 25c; butterfat 32c.—F. C. Woods, Feb. 3.

Cheyenne County—We had a good snow January 27. Farmers are busy hauling wheat, barley and corn when shippers can get cars. It has been very cold but stock is doing fine as there is plenty of feed. Wheat \$1.75; barley 80c; corn 80c; eggs 30c; butter 30c.—E. D. Kyle, Feb. 2.

Doniphan County—We have had no snow to amount to anything this winter. Soil is very dry and the extremely cold weather, 18 degrees below zero the last two days, is hard on wheat. Almost all hogs have been shipped out of the country. No cattle are being fed by farmers. Some drilling is being done for oil.—C. Culp, Jr., Feb. 2.

Sheridan County—It is bitter cold, but there is no snow. Wheat is badly in need of moisture. What little corn there was in the county has been gathered and is of fair quality. There is no corn to ship out. Roughage is scarce but the open winter is

a great boon. Wheat \$1.64; barley 92c; corn 95c; eggs 30c; cream 32c.—R. E. Patterson, Feb. 1.

Jefferson County—The winter has been unusually warm and there has been almost no snow. This saves feed and fuel, but may not be so good for wheat. Farmers have as near a vacation at this time of year as they ever have. Feeding and getting next year's fuel supply of wood is about all there is to do. A great many sales are being held.—Z. G. Jones, Jan. 30.

Elk County—The first three days of Feb-ruary have been the coldest of this season. So far farmers have taken advantage of the fine weather by cutting stalks and plowing. Some sales are being held. It is very dry and rain or snow is needed badly as stock water is getting scarce. Prairie hay \$8 on track; hogs \$11; corn \$1; eggs 30c; butter 38c; cream 35c.—Mrs. S. L. Huston, Feb. 3.

Sumner County—We are having one of the cold spells of the winter at the present time. There is no moisture with the cold weather or it would be worse. Horses and cattle are going thru the winter nicely so far. Hogs and cattle are selling at good prices. Wheat \$1.70; oats 65c; corn 95c; eggs 32c; butterfat 37c; milk \$2.25 a hundred; hogs \$11.80; flour \$4 a hundred; potatoes \$2.50.—E. L. Stocking, Feb. 2.

Woodson County—We have had extremely cold weather for a few days; 14 degrees below zero. This is ground hog day and it was clear until 2 o'clock and then cloudy the balance of the day. Much plowing has been done this winter. Stock did well this winter on account of the dry and fair weather. Hogs and cattle are bringing good prices, and there is a better demand for horses and mules.—E. F. Opperman, Feb. 2.

Logan County—The rapid change of tem-perature makes it very disagreeable for livestock as well as people. For the last few weeks we were having very warm weather and inside of 24 hours the mercury dropped to 12 below zero. Livestock seems to be getting along very well, and there will be plenty of rough feed. Wheat still is holding out but needs moisture. Potatoes \$2; butter 30c; corn \$1.10; eggs 35c.—R. McCormick, Feb. 2.

Ellsworth County—We are having zero weather at present. Wheat needs moisture. Farmers are short on feed. Hay and corn are in good demand. Stock is doing fairly well considering the dry winter. Public sales are well attended. Cattle are selling well. Roads are in fine condition; have been dry and hard all winter with no dust to speak of. A car of Holstein cattle has been shipped to Bushton to be sold at public auction February 7.—C. R. Blaylock, Feb. 3.

Smith County—It has been very cold the last few days. There has been no snow, and wheat will suffer especially on fall plowing where the snow blew off and the ground is dry. Wheat in stalk fields is in better condition. A great many cattle have been lost from stalk poisoning. Quite a number of cattle are on feed. Hogs are selling well. There is plenty of roughness to carry stock thru. Plenty of corn in the country and some is being shipped out. Stock cattle and horses are selling well. Hogs \$11 to \$11.25; alfalfa \$6 to \$10 a ton; prairie hay \$6; corn 85c; wheat \$1.65; oats 60c; potatoes \$1.50; milk cows \$65 to \$100.—Ernest Crown, Feb. 3.

A Small Potato Supply

Supplies of potatoes on hand for market in 19 important northern potato-growing states are estimated by the Bureau of Crop Estimates of the United States Department of Agriculture to be about 44 per cent smaller than a year

In a few years when a child is born out of wedlock, the shame will not all be borne by the woman. Dr. Lucy Waite's proposal to make the birth of an illegitimate child automatically the marriage bond and give the child a name, is receiving marked attention in many states. The proposed law will step in and declare that the girl who has been betrayed, is to be considered a legal wife as soon as she becomes a mother. This will make the chief culprit, the man, responsible. If he already is married, that is his trouble, he will stand accused of bigamy and become liable to the heavy punishment meted out to bigamists. In either case, the girl who has suffered for him will have a claim on his name and property. In this, justice will take a long step forward.

ago, 65 per cent smaller than two years ago, and 54 per cent smaller than the average holdings of the preceding five years.

If, for the purpose of comparison, the estimates in percentages of marketable stocks of potatoes on hand are applied to the estimates of total production, it shows, in the 19 states included—which produced 61 per cent of the total 1916 crop, and 66 per cent of the 1915 crop—a total of 50,938,000 bushels compared with 106,225,000 a year ago, 169,554,000 two years ago, and 129,941,000 bushels the average holdings of the preceding five years. These figures indicate a scant supply of old potatoes during the spring months.

Mention the Farmers Mail and Breeze.

Farmers Mail and Breeze Magazine Bargains



One Remittance and the Work Is Done

This is a splendid opportunity to order your favorite magazines and to renew your subscription to this publication. Best of all we have arranged so you can send us your order for all the publications you want in one order at greatly reduced prices. If you do not find your favorite club in this list, make up your own combination and write us for special price.

Capper's Trio

Topeka Daily Capital.....	\$5.00	All One Year for only
Farmers Mail and Breeze..	1.00	\$5.75
Capper's Weekly.....	.50	You save 75c

Bargain Offer No. 1

Farmers Mail and Breeze.....	\$1.00	All One Year for only
Modern Priscilla.....	1.00	\$1.80
Woman's World.....	.35	You save \$1.05
McCall's Magazine.....	.50	

Bargain Offer No. 2

Farmers Mail and Breeze.....	\$1.00	All One Year for only
McCall's Magazine.....	.50	\$1.40
Today's Housewife.....	.50	You save 60c

Bargain Offer No. 3

Farmers Mail and Breeze.....	\$1.00	All One Year for only
Today's Housewife.....	.50	\$1.50
Boys' Magazine.....	1.00	You save \$1.25
Household.....	.25	

Bargain Offer No. 4

People's Popular Monthly.....	.25	All One Year for only
McCall's Magazine.....	.50	\$1.55
Farmers Mail and Breeze.....	1.00	You save 70c
Reliable Poultry Journal.....	.50	

Special Club No. 50

Farmers Mail and Breeze.....	\$1.00	All One Year for only
Capper's Weekly.....	.50	\$1.25
Household Magazine.....	.25	You save 50c

Bargain Offer No. 5

Household.....	.25	All One Year for only
Farmers Mail and Breeze.....	1.00	\$1.50
Modern Priscilla.....	1.00	You save 75c

Bargain Offer No. 6

Farmers Mail and Breeze.....	\$1.00	All One Year for only
People's Home Journal.....	.50	\$1.45
Woman's World.....	.35	You save \$1.40
Every Week.....	1.00	

Bargain Offer No. 7

Farmers Mail and Breeze.....	\$1.00	All One Year for only
Boys' Magazine.....	1.00	\$1.95
Modern Priscilla.....	1.00	You save \$1.80
Home Needlework.....	.75	

Bargain Offer No. 8

Household.....	.25	All One Year for only
Farmers Mail and Breeze.....	1.00	\$1.30
Reliable Poultry Journal.....	.50	You save \$1.20
Green's Fruit Grower.....	.50	
Home Life.....	.25	

Bargain Offer No. 9

Farmers Mail and Breeze.....	\$1.00	All One Year for only
Woman's Home Companion.....	1.50	\$2.65
Delineator.....	1.50	You save \$1.60
Household.....	.25	

Free McCall Pattern

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.

NOTE—If you do not find your favorite club in this list, make up your own combination of magazines and write us for our special price. We can save you money on any of the magazines above providing they are clubbed with our publication. New, Renewal or Extension Subscriptions Accepted

— Use This Coupon —

Farmers Mail and Breeze, Club Dpt., Topeka, Ks. Gentlemen: Enclosed find \$..... for which please send the magazines listed in Offer No. to the following name for one year.

Name.....

Town..... State.....

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 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. Higley, Grainfield, Kan.

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

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

82 A. joining Burlingame. Electric lights, water works. \$5200. E. H. Fast, Burlingame, Kan.

FOR SALE: 160 acres near Yates Center. Kan. Improved. Worth \$60. Price \$40 per acre. L. C. Arnold & Co., St. Joseph, Mo.

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

FOR SALE cheap. 160 acre unimproved Hamilton Co., Kan., wheat land. Lays perfect. Write owner, W. O. Eaton, Torrington, Wyo.

100 A., 1 1/2 mi. Lebo, Kan., 80 cult., 20 bluegrass pasture. \$75 a. Mtg. \$2500. 6 1/2% Trade for mdse. Hedrick & Beschka, Hartford, Kan.

SMALL STOCK of general merchandise doing business at Ellis. Goods and fixtures invoice about \$1200. Will exchange for western land. Western Real Estate Co., Ellis, Kan.

KANSAS LAND FOR SALE. 1400 acres in Montgomery Co.; 240 acres in Chautauqua Co. 400 a. cult., 820 a. grazing land. Suitable for ranch. Priced right. C. E. Fralick, 1936 Parallel Ave., Kansas City, Kansas.

WHEAT selling \$1.50 a bu. Have 480 acres, all best of land, mile and half out, 300 in wheat, 1/4 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.

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.

480 ACRES, highly improved wheat farm, well located; 1/2 mile to good school, 4 miles to R. R. town. Price, \$12,500. G. W. Meyer, Hoxie, Kan.

640 A., smooth; good water; 30 bushels wheat per a raised on similar land in neighborhood. \$12.50 acre. Would divide. Other bargains in larger and smaller tracts. John Landgraf Land Co., Garden 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.

40 ACRES, all creek bottom; all in cult. but 1 acre. Well located, fair improvements. Bringing \$2 acre oil lease; drilling within 3 miles of land. Will sell on easy terms or take 1/2 good clear trade. Price \$100 a. Cottage View Stock Farm, Howard, Kan.

320 ACRES, five miles east of Woodruff, Kansas. 200 acres broke. Balance in pasture and mow land. Five room house. Good well and windmill. Running water on place. \$8500 price. \$3000 cash. Balance five years at six per cent. Address Woodruff State Bank, Woodruff, Kansas.

2640 ACRES best flint hill pasture, well fenced, watered. 2 sets improvements. 50 creek bottom alfalfa, 100 more cult. 3 miles town. The best ranch in Elk Co. Price \$23 per acre. Liberal terms. Also have other ranches that are bargains. W. T. Lewis, Howard, Kan.

280 ACRE FARM located 3 miles good town, Franklin County, in proven oil field, fair improvements 30 acres tame grass, 140 acres native meadow and pasture, remainder in cultivation, good orchard, well watered. A big bargain for immediate sale at \$50.00 per acre. Possession at once. Write for full description of this or any size farm you may want. Mansfield Land Company, Ottawa, Kan.

FOR SALE. 2600 acres, Finney Co., 6 mi. from Garden City, 1200 good smooth wheat land, 500 bottom land, fencing, improved, plenty water, 160 a. cuts 20 ton prairie hay a year. Price \$25 per a. 1/2 cash, bal time or will consider some trade. 160 acres, Sheridan Co., 3 1/2 mi. town, 125 under cult. \$22 per acre. 619 Rorabaugh Bldg., Hutchinson, 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.

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.

RETIRE AND RUN A STORE: Vegetable Green House, five room residence, store building, 4000 sq. ft. under glass, hot water heat. Two blocks from new school. Growing section of city. Six lots. Fine place to retire. \$5000. F. M. Deam, 312 Bittling Building, Wichita.

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

FOR SALE. 20 A. IN OSAGE CO. 1/2 mi. from town; half pasture, rest in cultivation; 5 room house, barn and out-buildings. Plenty of water and good orchard. Price \$1,000, \$400 cash, bal. long time. Claud Coons, Barclay, Kan.

LAND FOR SALE. 800 acres, fenced, 11 mi. of Coldwater. 5 room house, running water. 200 a. plowed, 100 a. bottom hay; bal. grass, \$22.50 acre; \$6,000 cash, balance easy terms 6%. Lytle & Kimpfe, Owners, Coldwater, Kan.

FOR SALE OR RENT

Two well improved stock and grain farms. 320 a. rent \$400; 160 a. rent \$300. John Deer, Owner, Neodesha, Kan.

WANT GOOD LAND CHEAP?

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

EASTERN KANSAS FARMS

50, 80, 160 and 240 a. Improved farms near Lawrence. We offer for 20 days at \$40 per acre. Good terms. Have several farms for rent. Hemphill Land Co., Lawrence, 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.

Lane County

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

Wichita Farm Bargain

160 a. 4 miles to Wichita. Rich loam, 9 room house, large horse and cow barn, 60 a. alfalfa. Price \$85. Half cash, bal. terms 5%. For this home, write today. H. E. Osburn, 227 E. Douglas, Wichita, Kansas.

CHASE CO. STOCK RANCHES

640 a. improved, 2 1/2 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. Boeck, Cottonwood Falls, Kansas.

ATTENTION MR. RENTER

160 acres with small improvement, only seven miles from town. 115 acres in cultivation, 90 acres in wheat. Possession March 1st, and wheat goes to purchaser. Price \$17.50 per acre. Write Niquette & Bosworth, Garden City, Kansas.

154 ACRES FOR \$1500.

Only 9 mi. Wichita; good black loam soil; 80 a. cult.; 40 a. meadow, 34 past., 9-r. house, barn, etc. Only \$1500 cash. \$500 year. Snap. R. M. Mills, Schweitzer Bldg., Wichita, Kan.

MUST SELL

420 a. Pawnee Co. improved good grain and stock farm. \$5,000 cash, bal 20 annual payments at 6% int. \$35 per a. E. W. Moore, Spearville, Kan.

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 5 1/2%. Possession March. Also other bargains. Parish Investment Company, Kansas City, Mo.

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.

ROOKS CO. FARM

200 acres, 4 1/2 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.

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 13 1/2 miles from Liberal. Write for full description and price if you want a snap. E. J. Thayer, Liberal, Kan.

BIG AUCTION LAND SALE

In Northeast Jewell County, Kansas

7 quarters of grazing and farm land will be sold at auction to the highest bidder in tracts of 160 acres each on easy terms. Sale will be held on

THURSDAY, FEBRUARY 15, 1917, on the land. Here is a chance to get a farm at your own price. Those who care to look over the land before the day of the sale will be shown over it at any time by calling upon B. J. Stoffer, Lovewell, Kan. For further particulars address Col. Denny, Auctioneer, Superior, Neb., or Wm. E. Dannefer, Clerk, Lovewell, Kan., or Robert Damerell, Owner, Red Cloud, Neb.

ARKANSAS

40 ACRES, improved, 38 cult. \$2000. 1/2 cash. Terms, Fair, Centerton, Ark.

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

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

79 ACRES, IMP., 45 A. Cult. \$2200.00. Moss & Hurlock, Siloam Springs, Arkansas.

310 A. IMPROVED. Joins city of Jonesboro. \$100 a. Chas. Thompson, Jonesboro, 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 cult., balance timber, 9 miles Charleston. \$3000; terms half. Goodbar, Charleston, 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.

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.

200 A. 6 mi. R. R. station; 60 acres in cult. Small imps. \$1500, 1/2 cash, bal. long time. Wallace Realty Co., Leslie, Ark.

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.

160 ACRES, 80 cultivation, bal. timber; water, house, barn, orchard; public road; no rocks. \$40 acre. 80 a. 25 cult. \$15 a. Robert Sessions, Winthrop, Ark. (On Ry.)

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.

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.

360 ACRES CHOICE LAND. No hills nor waste; no slashes nor washes. All tillable; all fertile. 240 acres in cult. 4 sets of improvements. Public road. R. F. D. 3 miles Conway, 4,500 people. State Normal, three colleges. \$25 per acre. Terms. Bahner & Company, Conway, Arkansas.

IF YOU WANT A GOOD FARM at reasonable prices, write for our list. Dowell Land Co., Walnut Ridge, 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.

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.

ILLINOIS

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

MISSOURI

FOR SOUTHEAST MISSOURI farms, write M. Leers, Neelyville, Mo.

120 ACRES, 60 cult. Improved. Good water. \$3400. W. W. Tracy, Anderson, Mo.

1500 ACRES. Modern, impr. Benton Co. \$25 acre. Corn Land Co., Springfield, Mo.

90 ACRES, 1 mile out, good improved; 50 acres cultivation. \$40 acre. Terms, \$600 cash. R. R. Moore, Collins, Mo.

60 ACRES IMP., Butler Co. 30 in cult., balance timber and pasture. Shattuck Real Estate Exchange, Poplar Bluff, Mo.

STOP! LISTEN! 40 a. valley farm \$950. Well improved. 10 a. timber land \$250. Good terms; free list. McGrath, Mtn. View, Mo.

240 A. STOCK FARM THAT WILL SUIT you. 100 a. tame grass, \$75 a. bottom. Running water; fruit, fine improvements. \$40 a. Terms. Baker, Mountain Grove, 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.

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

COLORADO

480 ACRES IMPROVED land 18 miles east of Colorado Springs. For further information write S. Kranz, Colorado City, Colo.

FOR SALE: Land in the rain belt in Elbert County. \$1 per acre down, \$1 per a. per year. Beans pay twice the price in one year. Send for literature. H. P. Vorles, Pueblo, Colorado.

LOCATIONS MADE, 640 acres H. E. aid of a competent surveyor. Our charges \$100. Fine land. Come quick. Geo. W. Bruce, Delta, Colo.

TWIN LAKES IRRIGATED LAND at unheard of prices. Relinquishments and cheap dry lands. Write today for prices. Grene & Dean, Ordway, Colorado.

CHEAPEST choice half section RELINQUISHMENTS in Colorado, farm and ranch properties. Write for bargain list. Terral Land Company, Springfield, Colo.

Farms and Ranches

I have the best farms and ranches in three best counties of East Colorado; climate, soil, water, crops, schools, opportunities. Write for facts. R. T. Cline, Brandon, Colo.

Your Opportunity

To buy a COLORADO IRRIGATED FARM will never be better than now. Our irrigated farms are located in the famous Ordway-Sugar City District, near Pueblo, Colorado, from one to 4 miles from main line of the Missouri Pacific, under the Twin Lakes Land and Water Company's System. Good, sandy loam, dependable water rights, climate healthful, country prosperous; good schools, churches and markets. Prices \$135 to \$150 per acre. Terms, \$10 to \$20 per a. cash, balance in ten equal annual payments, 6%.

We have several thousand acres of cheap land within 5 miles of the city of Pueblo, at from \$15 to \$30 per a. There are several artesian wells on this cheap land.

Write for our free book. Homeseekers excursions first and third Tuesdays of each month. Reference any bank in Pueblo.

B. H. TALLMADGE, 1st Nat'l Bank Bldg., Pueblo, Colo.

Pueblo, Colo., Jan. 25, 1917. We consider B. H. Tallmadge reliable and responsible. We can also strongly recommend the land under the Twin Lakes Land and Water Company's system, which he has charge of. It is one of the oldest irrigation systems in eastern Colorado.

THE BANK OF PUEBLO, W. B. Cook, Cashier, D. A. Randall, Vice President.

ALABAMA

LOCATE on the Gulf, Mobile & Northern R.R. Large or small tracts, suitable for alfalfa, general farming, truck, pecans, oranges and stock raising. New road, new country. Healthy, rapidly developing. Address H. H. Bolton, Immigration Agent, Mobile, Ala.

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.

WISCONSIN

30,000 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.

NEBRASKA

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

OKLAHOMA

EASTERN OKLAHOMA farms, ranches, oil lands. \$5 up. Black Bros., Stillwell, Okla.

32 A. 2 1/2 mi. business center McAlester. City of 15,000. 1/2 mi. \$30,000 ward school. 25 a. strictly first class dry bottom land. 12 a. cult. \$55 per a. Terms. Southern Realty Co., McAlester, Okla.

FINE 100 A. FARM, 2 mi. out: 80 broke, level, rich corn and wheat land. Good 3 room house, new barn, fruit, nice timber; spring creek, well. R. F. D. and phone. Only \$3800; time on \$1650. Free list and map. Perry DeFord, Oakwood, Oklahoma.

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

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

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.

SOUTH DAKOTA

SOUTH DAKOTA LANDS—On corn, alfalfa and grain land South Dakota gets as large an acre yield as states farther east where land is priced 2 to 3 times as high. The price raises every year and now is the time to buy. For state bulletins, address the Dep't of Immigration, Capital E-3, Pierre, S.D.

OREGON.

OREGON and opportunity. Cheap wheat lands, irrigated lands, stock ranches, good climate. Edmund M. Chilcote, Klamath Falls, Ore.

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. Surveys 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 14105, Lewiston, Montana

MICHIGAN

WRITE J. D. S. HANSON, Hart, Mich, for list farms in Co. where biggest crops grow. Fruit, grain, alfalfa, dairying.

WASHINGTON

FOR SALE: 59 acres orchard land at Wenatchee, Wash., 32 acres Apples, Pears, young trees, mostly in bearing; 1916 crop sold for \$5,000. 1917 should produce \$7,500. Will sell on a \$2,000 payment down, \$1,500 per year. Crops will pay for this in four years. No frost there after March till October. Apricots usually blossom about March 20. S. J. Wilson, 241 Summit Av., Detroit, Mich.

SALE OR EXCHANGE

ANYTHING in real estate—Sales or exchanges. J. W. Brown, Dealer, Springfield, Mo.

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

246 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.

BEAUTIFUL new six apartment flat, income \$3000 annually, want clear farm. Chester A. Nofftz, 637 Reserve Bank, Kansas City, 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.

REAL ESTATE BARGAINS—Good farms for sale and exchange. See us quick. Walton Land Investment Co., Springfield, Mo.

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

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

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.

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. 829 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.

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. 15—C. S. Butler, Cherryvale, Kan.
Feb. 22—M. H. Roller & Son and Bruce Saunders, Holton, Kan.
Feb. 22—G. W. Overly, McCune, Kan.
Feb. 24—Cornelius McNulty, Morrowville, Kan. Sale at Concordia, Kan.
Mar. 13—Kineman & Sons, Dighton, Kan.
Mar. 15—L. M. Monson & Sons, Smithton, Mo. Sale at Missouri State Fair grounds, Sedalia.

Hereford Cattle.

Feb. 22—C. F. Behrent, Norton, Kan.
Mar. 3—Combination sale, Manhattan, Kan.
Prof. W. A. Cochel, Manhattan, Kan., Mgr.

Holstein Cattle.

Feb. 14—C. A. Lewis, Beatrice, 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. Gillsman, 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 14-15—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. 12—W. E. Willey, Steele City, Neb.
Feb. 14—C. A. Lewis, Beatrice, Neb.
Feb. 15—T. W. Cavett, Phillips, Neb. Sale at Aurora, Neb.
Feb. 17—S. A. Nelson & Sons, Malcolm, Neb.
Feb. 19—Austin Smith, Dwight, Kan.
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. 22—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.
April 25—Fred G. Laptad, Lawrence, Kan.

Duroc-Jersey Hogs.

Feb. 14—Howell Brothers, Herkimer, Kan.
Feb. 16—J. C. Boyd & Son and Ira Boyd, Virginia, Neb.
Feb. 16—Earl Babcock, Fairbury, Neb.
Feb. 19—Seale & Cottle, Berryton, Kan.
Feb. 20—C. B. Clark, Thompson, Neb. Sale at Fairbury, Neb.
Feb. 28—Agricultural College, Manhattan, Kan.
March 9—W. T. Judy & Sons, Kearney, Neb.
Mar. 14—G. C. Norman, Winfield, Kan.
March 15—W. T. McBride, Parker, Kan.
Mar. 29—W. W. Otey & Sons, Winfield, Kan.
April 25—Fred G. Laptad, Lawrence, Kan.

Hampshire Hogs.

Feb. 26—A. H. Lindgren, Jansen, Neb.; sale at Fairbury, Neb.
Feb. 27—Carl Schroeder, Avoca, Neb.

Chester White Hogs.

Feb. 23—Henry Fechner, Higginsville, Mo.
Mar. 8—F. J. Scherman, Route 8, Topeka, Kan.

S. W. Kansas and Oklahoma

BY A. B. HUNTER.

H. W. Estes of Sitka, Clark county, Kansas, has a card announcement in the Short-horn columns of this issue, that should interest every farmer and breeder who is looking for a strictly high-class herd bull. Mr. Estes's offering includes nine head and they range in age from 12 to 30 months. These bulls are strictly right as to breeding, color and individuality and are priced worth the money when the quality of the bulls is considered. If interested write Mr. Estes and mention Farmers Mail and Breeze.—Advertisement.

George C. Tredick of Kingman, Kan., owns one of the richly bred herds of Holstein cattle in the state. Many of his cows are closely related to the world's champion record cow Segie Fayne Johanna. He has four daughters of Sir Johanna Fayne who carries 37 1/2 per cent of the same blood as the world's record cow. Johanna Concordia

Lyons, another one of his herd cows, carries a like percentage of this record blood. Mr. Tredick's present herd bull has the same grand sire as Segie Fayne Johanna. Mr. Tredick always has some high class young bulls for sale at reasonable prices.—Advertisement.

Olivier & Sons' Big Poland Sale.

Olivier & Sons, Danville, Kan., will sell at auction Friday, February 23, 50 big type Poland China bred sows and gilts; 35 of these are select, tried sows, most all large, young sows of proven breeding qualities. Fifteen bred gilts also go in the sale. They are unusual in both size and quality, and are not only daughters of prize winners but the kind that will produce prize winners. They are sired by, or bred to such great sires as A. Wonderful King, three times grand champion in 1916 and Logan Price, second prize aged boar at three state fairs 1916. If you want the cream of big type breeding read display ad in this issue and write today for catalog, mentioning Farmers Mail and Breeze.—Advertisement.

Big Poland Sale at Hutchinson.

A. J. Erhart & Sons, Ness City, Kan., will meet their customers half way by selling at Hutchinson State fair grounds instead of at Ness City, Kan. Their show and sale records both show they have the kind of Poland Chinas that not only win in the ring but are in demand. Their sale at Hutchinson last February showed the highest average of any sale in Kansas for 1916. They will sell this time a better lot of sows and gilts, numbers considered, by 25 per cent than last year and anyone who attends this sale and feels that the sale offering has been overrated can have a ticket back home for the asking. Be at Hutchinson, Kan., February 22, if you want the best big type Poland Chinas. Write today for illustrated catalog, mentioning Farmers Mail and Breeze.—Advertisement.

The Kansas National Show.

The Kansas National Livestock Show and Sale to be held at Wichita February 26 to March 3, inclusive, will be the biggest event of its kind ever held in Kansas. The recent stock show at Denver was the largest of the 11 shows held there and while the entries at Wichita do not close until February 15 the entries of Shorthorns far outnumber the number of exhibits at Denver. Cattle are coming from Ohio, Iowa, Indiana, Missouri, Nebraska, Oklahoma, Texas and Kansas. No less than nine herds are entered from Kansas. Seven states are represented with entries for the horse show, and an equal number are represented in the Hereford cattle entries. There will be an auction sale each day beginning February 26. The entries for the Hereford cattle are not complete but it is hoped that enough high class cattle will be entered to make an attractive sale. Robert H. Hazlett of Eldorado, Kan., will have on exhibition Bocaldo the 6th, grand champion Hereford bull at the International. A. B. Cook of Townsend, Mont., will show the undefeated grand champion bull of the Denver show. These two animals ensure unusual interest in the Hereford show. The show and sale will be held in the Wichita Forum, the modern municipal building costing \$200,000 and located in the central part of town. Entries for the Kansas National Livestock Show will close February 15. Interested parties should write at once for premium list and entry blanks. Entries to the sales close when the limit of 60 head in each breed has been accepted. Sale catalog mailed free upon request. For list of contributors to the sales note the display ad in this issue and for catalog, entry blanks and other information address Frank Kirk, Room 27, Livestock Exchange, Wichita, Kan.—Advertisement.

N. Kansas, S. Nebr. and Ia.

BY JOHN W. JOHNSON.

Ben Schneider of Nortonville, Kan., who owns one of the best bred herds of purebred Holstein cattle in Kansas, is changing his card ad in this issue of Farmers Mail and Breeze. The offering at this time includes nine bulls out of A. R. O. cows. Interested readers should write Mr. Schneider at once. Please mention this paper.—Advertisement.

F. C. Swiercinsky will sell 26 Poland China bred gilts at public sale at Belleville, Kan., February 23. These gilts are of February and March farrow and are bred to farrow when they are a little better than a year old. They are strictly big type breeding and will sell worth the money. Note the display ad in this issue and write for catalog.—Advertisement.

Chester White Pigs.

Henry Wiemers of Diller, Neb., is booking orders for Chester White pigs sired by Fairview Chief, second prize boar at Nebraska State Fair. Others by White Eagle O. K. Jr., champion of Missouri 1916. Some of the pigs are out of sows that won senior and grand championship at Nebraska State Fair 1914. This gives an idea of the kind kept by Mr. Wiemers. Write for more information and mention this paper.—Advertisement.

Poland Bred Sow Sale.

O. B. Clemetson's annual sale of Poland China bred sows and gilts to be held at Holton, Kan., Wednesday, February 21, is one of the tip top offerings of the season and very likely the last sale of bred sows that will be made in Northern Kansas this winter. The offering is sired by A. Kansas Wonder, Big Bob 2d, Futurity Rexall, Tecumseh Ex., Blue Valley Giant 2d and Chief Highball and out of as good herd sows as will be found in the West. If you want real brood sows with real merit as producers back of them attend this sale. Write today for the catalog and plan to attend the sale. Bids may be sent to J. W. Johnson in care of Mr. Clemetson.—Advertisement.

Choice Duroc Offering.

Howell Brothers, Herkimer, Kan., sell Duroc Jersey bred sows at farm (Tootle Ranch) Wednesday, February 14. That is next Wednesday and you should be interested if you need brood sows, especially Duroc Jerseys, as this is the last sale of the season and it is doubtful if there is another Duroc Jersey bred sow for sale in North Central Kansas at least. The Howell offering of 40 sows and gilts advertised in this issue of the Farmers Mail and Breeze is as good and the writer thinks a little

JACKS AND JENNETS.

FOR SALE—4 BIG JACKS, 3 JENNETS
The jacks are 4 and 5 years old, 15 1/2 to 16 1/2 hands, standard measure. They are all grandsons of Limestone Mammoth. F. W. POOS, POTTER, KANSAS

REGISTERED JACK Black with white points, for sale. Colts to show.
Dr. R. Grimsley, Allen, Kansas

Two Jacks One 3 years, 14 hands. One 2 years, heavy bone. Also 2 jennets, for sale.
H. C. GRANER, LANCASTER, KANSAS

REGISTERED JACK Black with white points, six years old, height 14 1-2 hands. Extra well built, sound in every respect, prompt performer. Colts to show. Bargains for quick sale.
C. E. Hale, Wathena, 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 15 1/2 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 mated jacks. Mares in foal from past season. Also Standard bred stallion. Would consider top draft stallion on some of this stock. All jacks eligible to reg.

Thompson Bros., Marysville, Kan.

JACK BARGAINS

Two Missouri bred jacks, 5 years old; Teddy Abraham III 51056 and Young Rattler 51058. Height 15 and 15 1/2 hands. These jacks are black with white points. Extra good head and ear; good bone, good dispositions and good performers. These jacks are bargains priced for quick sale.



G. G. DICK & SONS,
LaHarpe, Kansas

HORSES.

Cleveland Bay Stallion

Bay Tom 1246, for sale. Coming 5 years old; well broke to work; nice disposition; will make a 1600-lb. horse. Rich bay color. Sound as a dollar. Cannot use him on my own mares account related. Write soon for price. This ad will appear but once.
E. Pinkston, R. 1, Cedar Point, Kansas

Stock For Sale!

3 head of Standard bred colts; one brown filly 4 years old, stands 16 hands, weighs 1,200 pounds, has been tracked a little and shows lots of speed. Sire Pictolus Ellwood 50245, he by old Pictolus 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 filly, 3 years old, name Luta Miller, stands 15.1, broken to drive, has same sire. Dam, Estan Selotta, by Symbolizer 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

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)

Smallest Bible on Earth
This Bible is about the size of a postage stamp and is said to bring good luck to the owner. Sent free if you send 10c for three months' subscription to our big magazine.
HOUSEHOLD, Dept. B2, Topeka, Kan.

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 jack for sale. **J. E. DIFFENBAUGH, ABILENE, KANSAS**

PERCHERON STALLIONS One 9 years old, champion at Topeka; One 3, and one 2 years old, both prize winners. **JOHN A. PECK, TECUMSEH, KANSAS**. Phone, Watson, Kans. Will meet trains at Topeka by appointment

REGISTERED PERCHERON STALLION Also 3 jacks and 4 jennets for sale. Close prices for quick sale. **C. T. BERRY, Route 2, PARSONS, KAN.**

80 Head Percheron, Belgian, shire and Clydesdale stallions Illinois and Iowa colts, from \$250 to \$350. Big and rugged. I sell more horses than any firm in the west. **M. T. Bernard, Grand Island, Nebraska.**

For Sale Going out of the horse business and am going to sell 2 Percheron stallions. Both are registered. Both of these animals have proven to be sure foal-getters. They have the colts to show. Will also sell 2 dapple grey mares, wt. 3400 lbs., 6 and 7 yrs. old. Good ones. Both mares are bred to one of the above stallions, an imported horse, and are in foal. Here is a splendid chance for some enterprising farmer or stockman to get into the horse business with a No. 1 stuff. **JOSEPH BERGMAN, BAILEYVILLE, KAN.** Route 1. Seneca Phone 4F3.

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 ml. west of Kansas City. **AL E. SMITH, LAWRENCE, KANSAS.**

PUBLIC SALE

2 Miles East of **TONGANOXIE KANSAS, FEBRUARY 15.** I will offer in my sale 4 registered Percherons; 2 brood mares and 2 stud colts, one coming 2-year-old, 1 coming 1-year-old. **ELMER HICKMAN, TONGANOXIE, KAN.**

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, Kansas
Chase, Rice Co.

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 Avenue 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**

DUROC-JERSEY HOGS.

Taylor's World Beater Durocs

The large good kind of spring boars \$25 each. Booking orders for fall weaned boars \$12.50; also sow pigs \$14. Prepay express charges on weanlings anywhere in Missouri, Kansas or Oklahoma.

JAMES L. TAYLOR, OLEAN, MILLER CO., MO.

Missouri's Champion Herd of Durocs

BRED GILTS: Fine spring gilts by champion sires and out of champion dams and bred to champion boars. Write for prices. Every one guaranteed as represented.

CHAS. I. TAYLOR, OLEAN, MISSOURI

better than their former offerings which have always been good. The breeding and individual merit to be found in this herd is as good as will be found in any herd in Kansas. The great Elk Col. that sired 10 of the spring gilts and to which a goodly number are bred is a great individual and a wonderful breeder. Come or send bids to this sale. Bids sent to J. W. Johnson in care of Howell Brothers, Herkimer, Kan., will be carefully looked after.—Advertisement.

Dispersion Sow Sale.

Austin Smith's Poland China dispersion sale at Dwight, Kan., Monday, February 19, is a real opportunity for the breeder looking for a few choice gilts or tried sows that will actually strengthen his herd. Nine tried sows and 10 February gilts, all bred for early spring farrow will be sold. They were reserved for Mr. Smith's own use until he sold his farm recently. Two herd boars, one by old Gold Metal and the other by A Kansas Wonder and themselves tried sires of real merit. The tried sows and spring gilts are the big, smooth kind and as good as the writer has seen in a long time. Bids may be sent to J. W. Johnson in care of Mr. Smith at Dwight.—Advertisement.

Good Duroc Jersey Sale.

The W. W. Jones sale of Duroc-Jerseys at Clay Center, Kan., last Friday was a big success. Twelve tried sows averaged over \$80 and two herd boars and 20 fall boars and gilts sold for good prices. J's Good E Nuff went to R. P. Carpenter, Council Grove, Kan., at a bargain, \$59. Orton's Highland King went to S. J. Merten, Clay Center, at \$100. Mr. Merten also bought Improver's Model Lady at \$185. Phillip Albrecht, Smith Center, Kan., bought Orton's Highland Lady at \$155. W. R. Crow, Hutchinson, Kan., bought a splendid June gilt sired by Fear's Orion Cherry King. Fred Miller of Wakefield, Kan., bought Perfection Belle, a splendid tried sow at \$71. It was a great sale and indicated that the Duroc Jersey breeders were still interested in the best in the Duroc Jersey line. Phillip Albrecht & Sons, Smith Center, Kan., made a \$55 average the day before on 40 spring gilts.—Advertisement.

Hereford and Poland Sale.

C. F. Behrent, Oronoque, Kan., (Norton county) will hold his annual Hereford cattle and Poland China hog sale February 22, at the farm north of Norton. Free accommodations for visitors from a distance at hotels in Norton and free transportation to the farm sale day and return in the evening in time for outgoing trains. Offered in the sale are 10 registered bulls from 8 to 16 months old. Also some registered cows that will have calves at foot sale day. There will be some 3-year-old heifers and some choice yearling heifers. Also 25 high grade cows that are bred to the splendid grandson of old Beau Mischief that has done so much for Mousel Brothers' great herd. There will be 20 choice spring gilts, also some tried sows. All bred for spring farrow. Also a good spring boar and two fall boars. Go to Norton and attend this sale. Write for catalog.—Advertisement.

McNulty's Mammoth Jack Sale.

Cornelius McNulty, Morrowville, Kan., is proprietor of Grand View Jack Farm at that place. For 18 years he has bred jacks and this is his second annual sale at Concordia, Kan. This sale which is to be held in the big sale barn at Concordia is held there because of the better railroad and hotel facilities. Twenty jacks go in the sale ranging in ages from 2 to 8 years. The writer visited Grand View Jack Farm recently and was impressed with the importance of this sale. Listed in the catalog, which will be ready to mail February 1, is the great herd jack, Monster 6994, 16½ hands high and one of the great jacks of the West. The herd of jennets on Grand View Jack Farm is one of the strongest in the West and every jack in this sale except two was bred by Mr. McNulty. Every jack is black with white points and no offering of former years came up to the grand lot of young jacks, and jacks of serviceable ages, to be found in this sale. If you want to buy a jack and would like to make your selection from 20 big black mammoth jacks write for the catalog and plan to attend this sale.—Advertisement.

Big Combination Jack Sale.

M. H. Roller & Son, Circleville, Kan., and Bruce Saunders, Holton, Kan., announce their big combination sale of jacks and jennets to be held in Holton, Jackson county, Kansas, Thursday, February 22. Forty jacks and jennets will be sold in the big sale pavilion in Holton and it is without question one of the grandest collections of jacks and jennets ever offered at auction this far west. Included in the sale are the two champions, John L. Jr., Roller & Son's grand champion at the Topeka State Fair 1914-15, and Bruce Saunders' grand champion, Deacon Jr., Topeka State Fair, 1916. Mr. Saunders is closing out his jacks and the Rollers are selling close. M. H. Roller has bred jacks in Jackson county for 37 years and the jacks he has produced have always ranked among the best to be found anywhere. Bruce Saunders is a nephew of U. G. Saunders, the well known jack breeder at Lexington, Ky., a breeder of big Mammoth jacks, who has acquired an enviable reputation because of his ability to grow the kind that wins in the show ring and sells for the high dollar. Aside from the two champions are other jacks of serviceable ages that are great individuals and good performers. There are younger jacks and jennets. Illustrated catalogs are ready to mail. Address either Bruce Saunders, Holton, Kan., or M. H. Roller & Son, Circleville, Kan., and you will get one by return mail. Look up the ad in this issue.—Advertisement.

Braeburn A. R. O. Holsteins.

The Holstein bull, King Segis, early attracted attention as a showy individual, of exceptional prepotency, and of the unusual faculty of transmitting with equal certainty thru sons and daughters alike. He died when 6 years old, but left offspring enough so that 90 daughters have made A. R. O. records, and 80 sons have sired daughters that have already made A. R. O. records. His death before his get were doing business much, permitted the attention of the dairy world to be again divided between old veterans like DeKol 2d's Butter Boy 3d, Pontiac Korndyke, and King of the Pontiacs. As soon as his heifers began to



Percherons — Belgians — Shires

Imported and home-grown 4 and 5-year-old stallions, ton and heavier, 3-year-olds, 2-year-olds, yearlings. Produce of 62 imported mares and noted prize winning imported sires weighing 2,235 lbs. and 2,450 lbs. Ton stallions at farmer's prices. Near Kansas City. **FRED CHANDLER, Route 7, CHARITON, IA.**

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.**



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

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.

Jack Sale Sunny Slope Stock Farm

Beginning at 10 o'clock

McCUNE, KANSAS, THURSDAY, FEBRUARY 22

12 head of jacks from 2 years to aged jacks, 14 to 15½ hands high. Black with white points. Good bone, body, head and ears. These jacks are my own raising. Sired by Bradley's Sunlight and Kentucky Yelberton, both big Kentucky jacks. Kentucky Yelberton's dam took 4th premium at the St. Louis World's fair in a bunch of 30 and his sire took first premium at the Kentucky State fair for the best jack and 1st premium for best jack with three colts and his grandsire sired the champion yearling jack at the St. Louis World's fair.

8 head of jennets from yearlings up to aged jennets. Aged jennets from 14 to 15 hands. Black with white points. Will sell 2 driving mares and 2 good ponies. Will offer for sale one registered Percheron mare coming 4 years old and a registered Percheron stud colt coming 2 years old, an extra good one.

G. W. OVERLY, McCUNE, KANSAS

Auctioneers: Col. J. T. Macom, B. F. Boland, H. W. Lowe, J. M. Tomson, G. W. Bell, W. E. Gaddis and J. C. Bogard.

The Kansas National Livestock Show and Sale

and the Annual Convention of the Kansas Livestock Ass'n.

at Wichita, Week of Feb. 26th

6 Days of Pure Bred Livestock Sales

Monday, Feb. 26, at 9 A. M. 60 Poland China and Duroc bred sows herds in the Central West, including 10 famous show animals from the herd of Crow & Sons, Hutchinson, Kan.

Tuesday, Feb. 27, at 9 A. M. 60 head of selected Herefords. The champion Hereford bull of America will be on exhibition.

Wednesday, Feb. 28, at 9 A. M. 60 selected Shorthorns including pure Scotch and Scotch top, consigned by Theo. Martin, Bellevue, Ia., Park E. Salter, Augusta, Kan., Homan & Son and F. P. Wilson, Peabody, Kan., John Regier, White-water, Kan., James Baxter & Son, Clay Center, Kan., and others.

Thursday, March 1, at 9 A. M. 60 high class Percherons consigned by W. S. Corsa, White Hall, Ill.; J. C. Robison, and Bishop Bros., Towanda, Kan.; W. R. Neal, Caldwell, Kan.; Ira Rusk, Wellington, Kan.; J. O. Cedarholm, Lindsborg, and J. H. Armstrong, Emporia, and others. Sale includes Isola, three times grand champion at state fairs and mares bred to him; also stallions and mares sired by the famous champions, Carnot and Casino. J. C. Robison writes that he will sell 10 of the best mares he ever sold in one sale. Enough said.

Friday, March 2, at 9 A. M. Coach horses, trotting bred horses and jacks; sale includes stallions, mares, racing prospects and developed race horses, French and German Coach, some extra good 16 hand jacks, weighing 1200 lbs.

Saturday, March 3, at 9 A. M. Sale of 60 dairy cattle.

We positively guarantee the Kansas National Livestock Show will be the largest event of the kind ever held in Kansas. The best Shorthorns, Herefords, Percherons, Poland Chinas and Durocs in America will be here. Write at once for premium list and entry blank to show and sale. Catalog mailed free February 20.

The Kansas National Livestock Show Ass'n.
By F. S. Kirk, Gen. Mgr.
Room 27, Livestock Exchange, Wichita, Kan.

When writing to advertisers please mention Farmers Mail and Breeze.

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**

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**

DUROCS of SIZE and QUALITY Herd headed by Reed's Gano, first prize boar at the State fairs. Spring boars and gilts, from the champions Defender, Superba, Crimson Wonder and Golden Model breeding. **JOHN A. REED & SONS, Lyons, Kansas**

Private Sale, Boars and Gilts A choice lot of fall pigs, either sex. Also one of my herd boars. Priced to sell. Address **A. E. Sisco, R.R. 2, Topeka, Kansas**

Immune Duroc Boars Herd headed by farmer's kind, bred close to grand champions on both sire and dam side. Priced reasonable and satisfaction guaranteed. Write today. **G. B. Woodell, Winfield, Ks.**

Duroc-Jerseys Johnson Workman, Russell, Kansas

TRUMBO'S DUROCS Bred gilts all sold; a few fall boar pigs all immune. Price \$15. Satisfaction guaranteed. Write today. **WESLEY W. TRUMBO, PEABODY, KAN.**

Choice Duroc Gilts, Bred 30 spring gilts, bred to Illustration II Jr., for March and April farrow. These are sired by Crimson Wonder Again Jr., G. M.'s Crimson Wonder or G. M.'s Defender. The best lot I have ever raised. Priced to sell. **G. M. SHEPHERD, LYONS, KANSAS.**

Bonnie View Stock Farm Duroc Jerseys and Holsteins **PUBLIC SALE FEBRUARY 19th.** 20 Holsteins and 15 bred sows. Write for catalog. **SEARLE & COTTE, BERRYTON, KANSAS.**

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.**

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. W. SCHWAB, CLAY CENTER, NEBRASKA.**

BANCROFT'S DUROCS Guaranteed immune. Bred gilts, guaranteed safe in pig. September pigs, either sex. **D. O. Bancroft, Osborne, Kan.**

Duroc Bred Sow Sale Smith's Sale Pavilion, Fairbury, Neb., Feb. 20 30 head, mostly sired by the 750 lb. boar **COL. A GANO**, by Col. Gano and bred to **UNEDA SURPRISE**, by Col. Uneda. Small advertisement but big hogs. Here is where you should get real bargains. Write for catalog. Mention this paper. **C. B. Clark, Thompson, Neb.** Col. Waddell, Auctioneer.

POLAND CHINA HOGS. 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**

Immune Bred Sows and Gilts 30 extra choice ones, mostly bred to the great young boar, **NEBRASKA WONDER KING**, grandson of the 1100 lb. King of Wonders. I am making very attractive prices and will ship on approval. Also 125 fall pigs at low figure, can furnish pairs not related. **Plainview Hog and Seed Farm** Frank J. Rist, Prop., Box 11, Humboldt, Neb.

Freedom Stock Farm Big Type Brood Sow Sale on the farm near Belleville, Kan., Feb. 23 26 Poland China gilts of last February and March farrow, bred in April and May. All bred to King's Rival 77819, by Smith's Long King, by Long King's Beat. The 1000-pound kind. Also 8 spring boars and one outstanding fall yearling boar, by Bob Orange. 2 Shorthorn bulls coming 1 year old, 2 Shorthorn heifers, coming 2 year olds, in calf. All hogs vaccinated. Write for catalog. **F. C. Swiercinsky, BELLEVILLE, KANSAS** Auctioneer—Col. John Brennan.

come in milk they started such hitherto unheard of records as 24 pounds of butter in a week for Junior-2s, 29 for Junior 3s, and so on. And now that his sons' daughters are also making records, they are turning all eyes again to King Segis. Of his daughters, nine have already made records above 30 pounds; and seven sons have an aggregate of thirty 30-pound daughters. The 50-pound cow just announced is by a son of King Segis; the still more recent 46-pound senior-4 year old is by another; an earlier 40-pound Junior-4, by still another. One son has sold twice for \$25,000; and two sons of another son are commonly referred to as the \$35,000 and \$50,000 bulls. All of which H. B. Cowles of Topeka, says boosts his Braeburn herd because Walker Copia Champion, present senior herd sire, is grandson of both DeKol 2d's Butter Boy 3d and of King Segis.—Advertisement.

Nebraska and Iowa

BY JESSE R. JOHNSON.

Earl Babcock writes that the offering for his February 16 sale is coming on fine and calls special attention to the tried sow, Ruby No. one, in catalog. No. 2, a Golden Illustrator gilt, is also extra good. Ask for catalog of this sale and mention Mail and Breeze.—Advertisement.

Frank J. Rist of Humboldt, Neb., has picked out 30 good Poland China sows, bred for spring farrow, and will sell them privately. Desiring to place the private sale buyer on the same footing as he would be if attending a sale Mr. Rist advertises to ship on approval.—Advertisement.

C. B. Clark, Thompson, Neb., is advertising a sale of registered Duroc Jersey bred sows to be held in Smith's sale pavilion at Fairbury, Neb., February 20. The offering is mostly sired by a son of Col. Gano, and bred to Uneda Surprise. Frank Kaiser of Daykin consigns a few head of good ones. Write for catalog and mention this paper.—Advertisement.

J. C. Price of Lincoln, Neb., who has a reputation for things accomplished, has met with unusual success in holding Shorthorn sales. His next sale will be held at South Omaha, March 14 and 15. He could use a few more good cattle for this sale and any of our readers who have Shorthorn cattle that are in condition to sell will make no mistake in consigning them to this sale. For further information concerning this matter address J. C. Price, Lincoln, Neb., and mention this paper.—Advertisement.

Poland and Holstein Dispersion. Remember the big Poland China and Holstein cattle dispersion sale that C. A. Lewis of Beatrice, Neb., is making on Wednesday, February 14. Some of the best big type Poland China breeding known goes in this sale and the grade Holsteins will all be fresh or close sale day. Jesse Johnson will handle bids for parties unable to attend.—Advertisement.

Last Call Nelson's Dispersion. This is the last call for the S. A. Nelson & Sons' big dispersion Poland China sale to be held at Malcolm, Neb., near Lincoln on Saturday, February 17. The Nelsons are cataloging a great line of tried sows, including daughters of Big Timm and other noted boars. Remember Nelson's Special leaves Lincoln over Burlington and returns in evening after sale. Jesse Johnson will handle all bids for parties desiring to buy and unable to attend.—Advertisement.

Boyd's Big Durocs at Auction. The best opportunity of the winter to buy big, growthy, smooth Duroc Jersey bred gilts will be at J. C. Boyd & Son's sale to be held at Virginia, Friday, February 16. The Boyd type can't help but please. Two-thirds of the offering have been bred to the great boar Crimson Model, a grandson of Crimson Wonder Again and his dam, by old Ohio Chief, was a grand champion sow. If you can't be there send buying instructions to Jesse Johnson in Boyd's care at Virginia.—Advertisement.

Lionberger's Poland Sale. One of the Poland China sales of the winter that must not be overlooked is the Chris Lionberger sale to be held in the sale pavilion at Humboldt, Neb., Monday, February 19. Mr. Lionberger is selling a great line of big Poland China bred sows and gilts bred to great boars. If you haven't seen catalog of this sale write for it and mention this paper. Jesse Johnson will attend sale and take care of bids for parties unable to attend. Send such bids in Mr. Lionberger's care at Humboldt.—Advertisement.

Big Price Poland Sale. Remember Uncle Tom Cavett's Poland China bred sow sale to be held in the sale pavilion at Aurora, Neb., Thursday, February 15. This will be one of the great offerings of the winter and breeders wanting the best should be represented at this sale. Eight head of choice yearlings sired by the \$1,000 Big Price go in the sale and a big per cent of the offering will be bred to Cavett's Big Price 2d, the best son of Big Price. Breeders interested in this sale and unable to attend should send bids to Jesse Johnson, in Mr. Cavett's care.—Advertisement.

Nebraska Horse Breeders' Sale. C. F. Way, secretary, Nebraska Purebred Horse Breeders' association, advises us that additional entries have increased the number of horses to be sold to 125 head, divided as follows: Percherons, 54 stallions and 27 mares; Belgians, five stallions and 10 mares; French draft, five stallions and seven mares; one coach stallion and seven Shetland ponies. This promises to be the greatest sale of purebred draft horses ever assembled for a sale in the state of Nebraska. For catalog write C. F. Way, secretary, First National Bank Building, Lincoln, Neb. Mention Farmers Mail and Breeze when writing.—Advertisement.

Schroeder's Big Hampshire Offering. Carl Schroeder, one of the largest and most successful Hampshire breeders in the West, will hold his annual bred sow sale at the farm adjoining Avoca, Neb., on Tuesday, February 27. He will have an offering that should attract the friends of the

POLAND CHINA HOGS.

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**

Albright's Private Sale of more quality, big type Poland China bred gilts and Sep. pigs, either sex, is now on. You can't beat them. Write today for prices. **A. L. ALBRIGHT, WATERVILLE, KAN.**

FAIRVIEW POLAND CHINAS Full values offered in 50 fall pigs, sired by Miami Chief and Ware's Blue Valley. For prices and description, address **P. L. WARE & SON, PAOLA, KANSAS**

Outstanding Poland Chinas A few wonderful fall boars and gilts, great herd stock or great fit for next fall shows. They are the best big type breeding. Prices reasonable and satisfaction guaranteed. Address **JOE YOUNG, Richards, Mo. JOE SHEEHY.**

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**

POLAND CHINA HOGS.

Poland Chinas Big Type Spring and summer pigs. Sired by Jupiter, Champion of three states. **ENGLEMAN STOCK FARM, Fredonia, Kan.**

Early Fall Boars and Gilts Bred gilts all sold. One spring boar. Extra good. All immune. Ask today. **W. A. McINTOSH, COURTLAND, KANSAS**

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.**

Jumbo Bob Blood At Auction

40 BIG Poland China Immune bred sows in annual sale at Chester, Neb., Feb. 27. Popular big type blood lines and bred to worthy sons of Caldwell's Big Bob, Expansion Sure and McGath's Big Jumbo. Write for catalog now. **VON FORELL BROS., CHESTER, NEBRASKA.**

Norton County Breeders Association

Norton County Fair, August 29, 30, 31, Sept. 1, 1917 H. A. JOHNSON, President
SAMUEL TEAFORD, President CARL BEHRENT, Secretary
FRED STROHWIG, Secretary

For Quick Sale 12 extra choice spring Poland China Boars. Big type and good all over. 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 Last fall Gilts for sale. Write for prices. **PETER LUFT, ALMENA, KANSAS.** **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. Poland, Almena, Kan.** **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. Lippett & 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** Purebred stock sales and big farm sales solicited. Write or phone. **NORTON, KANSAS** Address as above. **L. J. Goodman, D. V. M. Lenora, Kan.** Hog vaccination a specialty.

Dispersion Sale

Austin Smith's Polands

Nine tried sows, 10 February gilts, 21 August gilts and two herd boars. An unusual opportunity to buy the cream of one of the strongest herds in the West.

Dwight, Kan., Monday, Feb. 19

Mr. Smith has just sold his farm and is making this sale to close out everything and retire for a while, at least. The offering is without doubt one of the best in breeding and individual merit to be made in Kansas this winter.

The two herd boars, **Good Enough**, by old Gold Metal and **Expansion Wonder**, by A Kansas Wonder go for what they will bring.

The nine tried sows are big smooth ones, reserved because of their great producing qualities and they represent the best blood known to the breed. Two yearling sows are by a full brother of **Big Joe**, Fesenmeyer's great boar.

The 10 February gilts will weigh around 350 sale day and are as choice as any that will be sold this winter.

All farm machinery, hay, grain and 400 bushels of red seed oats will be sold. The Poland Chinas will be sold afternoon. Dwight is on the Rock Island in Morris county. Catalogs ready to mail by February 10. Bids can be sent to J. W. Johnson in care of Mr. Smith at Dwight, Kan. Address

Austin Smith, Dwight, Kansas

W. A. Fisher—Auctioneer.

J. W. Johnson—Fieldman.

LIVESTOCK AUCTIONEERS.

Jas. T. McCulloch, Clay Center, Kan. References: I am selling for every year. Write for open dates.

FLOYD YOCUM LIVESTOCK AND REAL ESTATE AUCTIONEER ST. JOHN, KAS.

Rule Bros., H. T. & R. D., Ottawa, Kan. Livestock sales a specialty. Write for dates.

W. B. Fisher, White City, Kan. Pure bred stock sales. Write, Wire or Phone. Address as above.

Lafe Burger, Wellington, Kan. LIVESTOCK AUCTIONEER Ask any Breeder. Write or wire as above.

Be An Auctioneer

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.

W. B. Carpenter, Pres., Missouri Auction School, 818 Walnut St., Kansas City, Mo.

SHEEP.

REGISTERED SHROPSHIRE RAMS Yearlings and two square built, hardy bucks with weight, bone and heavy fleece. Quick shipping facilities and priced cheap. 412 head. Near Kansas City. Howard Chandler, Charlton, Iowa.

BERKSHIRE HOGS.

BERKSHIRE PIGS Best of Big type English. Either sex, \$15 each. Crated and papers furnished. **R. J. LINSOTT, HOLTON, KANSAS**

HAMPSHIRE HOGS.

PUREBRED HAMPSHIRE PIGS from tried sows, \$15.00 each. The best blood lines. **R. T. WRIGHT, Grantville, Kan.**

REGISTERED HAMPSHIRE 150 gilts and 100 boars, all ages. Cholera immunized. Satisfaction guaranteed. **C. E. LOWRY, Oxford, Kan.**

Shaw's Hampshires 150 registered Hampshires, nicely belted, all immunized, double treatment. Service boars and bred gilts. Satisfaction guaranteed. **Walter Shaw, R. 6, Wichita, Kan.**

CHESTER WHITE AND O. I. C. HOGS.

CHESTER WHITE HOGS Fashionable breeding. Excellent quality. Prices reasonable. **E. E. SMILEY, PERTH, KAN.**

For Sale, O. I. C's. A few service boars, July gilts and fall pigs, priced for quick sale. **A. G. COOK, LURAY, KANSAS.**

EXTRA GOOD O. I. C. BOARS 100 to 150 lbs. each—best of breeding. **Harry W. Haynes, Grantville, Kansas**

O. I. C. Summer Boars and fall pigs, at very reasonable prices, to make room for my spring pigs. **F. C. GOOKIN, Russell, 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.**

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 of CHESTER WHITES All bred stuff sold to Capper Pig Club Boys. Fall pigs for sale. **K. I. C. Hogs. ARTHUR MOSSE, LEAVENWORTH, KAN.**

CHESTER WHITE PIGS SHIPPED C. O. D. I am booking orders for spring pigs sired by prize winners. Free, 24 page catalog with photos. Also the difference between Chester Whites and O. I. C's. My herd boar, a prize winner, for sale. **Henry Wiemers, Diller, (Jefferson Co.) Neb.**

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. E. SILVER CO.,** 548 Heights Temple Bldg., Cleveland, Ohio

breed from everywhere. He sells 56 head, 30 head of which are big mature, tried sows. Most of the tried sows were sired by Messenger's Choice, a son of the noted grand champion, Messenger Boy. The gilts were sired by Cherokee Pattern, first prize boar at leading western state fairs last fall. Herold and Cherokee first. They are bred to the last boars mentioned and Blythdale Schroeder, a boar that is nearly related to General Tipton, one of the greatest boars of the breed. Write at once for catalog and mention this paper. Interested parties unable to attend sale may send bids to J. W. Johnson in Mr. Schroeder's care at Avoca, Neb.—Advertisement.

Lindgren's Big Hampshire Sale.

A. H. Lindgren, the big Hampshire breeder of Fairbury, Neb., is advertising a bred sow sale to be held in Smith's sale pavilion at Fairbury, Neb., Monday, February 26. The offering will be unusually high class both in breeding and individually. Mr. Lindgren started breeding a few years ago by selecting foundation stock from some of the best breeders in the country. He has been building up right along and at this time has a herd of correct type Hampshires that carry the blood of such noted sires as Paulsen's Model, the boar that sold for \$800; Messenger Boy, the boar that has won 15 times as grand champion over his own breed and five times over all breeds; Compeer; General Allen; Capt. Jack and Buy Me, all grand champions. Readers of this paper who want to study Hampshire blood lines should write at once for catalog and mention this paper. Parties unable to attend the sale can send bids to Jesse Johnson in Mr. Lindgren's care at the Merchants hotel, Fairbury, Neb.—Advertisement.

Boesiger's Durocs in Demand.

The Dave Boesiger Duroc Jersey bred sow sale held at the farm near Cortland, Neb., was attended by a big crowd of breeders from Nebraska, Iowa, Missouri and Kansas. The offering was one of the very best of the season and while an average of \$97.50 was made, it was plenty low as compared with other sales of the winter. The demand was especially strong for sows bred to the herd boar, Kern's Sensation. Miller Brothers of Cumberland, Ia., topped the sale at \$290, buying a spring gilt sired by Widdies Wonder and bred to Kern's Sensation. E. M. Kern of Stanton, Neb., was the next highest priced buyer, taking another spring gilt bred to Kern's Sensation for \$190; H. A. Deets of Kearney, Neb., paid \$100 for a spring gilt and Arthur Patterson of Ellsworth, Kan., secured a bargain in the tried sow Uneda Lassie, at \$175. The following breeders made purchases at \$75 or more: F. G. Brown, Waverly; Charles Gillum, Waverly; F. M. Lucky, Redfield, S. D.; C. B. Clark, Fairbury; Charles Buell, Roca; D. M. Rindenger, Pickrell; McKelvie & Barns, Fairfield; George Briggs & Sons, Clay Center; H. N. Stilley, Farnam; A. J. Regier, Henderson; Griffith Brothers, Mound City, Mo.; E. W. Brown, Raymond; R. L. Hurst, Falco, Mo.; F. A. Snoffer, Loup City; J. T. Whalen, Cortland, and Paul Williams, Princeton.—Advertisement.

S. E. Kan. and Missouri

BY C. H. HAY.

Fred G. Laptad of Lawrence, Kan., will hold his next semi-annual sale of Durocs and Polands April 25. He expects to sell 20 head of Polands and 20 head of Durocs. Practically all are early fall pigs. These sows have all had the double treatment and are doing exceptionally well. In the classified columns of this issue you will find Mr. Laptad's seed corn ad. He has a fine lot of extra choice improved Golden Beauty and Iowa Bloody Butcher.—Advertisement.

Full Values in Polands.

"Full values offered in 50 fall gilts," is the way P. L. Ware & Sons start their advertising copy in this issue of Farmers Mail and Breeze. "Full values" is the principal factor in every business transaction made by the Wares. They breed a useful type of Poland Chinas and sell them at reasonable prices. The pigs they are offering at this time are sired by their herd boars Miami Chief and Ware's Blue Valley. We especially recommend this herd to the readers who want the utility type of Poland Chinas. Please mention Farmers Mail and Breeze when writing.—Advertisement.

Choice Hampshire Pigs.

R. T. Wright of Grantville, Kan., starts a card ad in this issue of Farmers Mail and Breeze in which he is offering Hampshire pigs. These pigs are sired by his herd boar Kaw Valley Chief, a Kentucky bred boar and one of the top boars in the big association sale last August. He was said to be the best junior yearling that ever entered a sale ring. He was shown at several shows last fall and did remarkably well considering that he was not in show shape. If interested in good Hampshires, write Mr. Wright and mention Farmers Mail and Breeze.—Advertisement.

Overly's Jack Sale.

G. W. Overly will sell jacks and jennets at Sunny Slope Farm, McCune, Kan., February 22. The offering will include 12 jacks and eight jennets. The jacks range in age from 2-year-olds to aged jacks. They are from 14 to 15½ hands high. The jennets range from yearlings up to aged jennets and are from 14 to 15 hands high. All stock, black with white points and all Mr. Overly's own breeding. They are sired by Bradley's Sunlight and Kentucky Yelberton, representing Kentucky State Fair and World's Fair prize winners. Note the display ad in this issue and write Mr. Overly for further particulars.—Advertisement.

Big White Hog Sale.

The biggest white hog sale in the Missouri Valley this winter will be that of Henry Fehner of Higginsville, Mo. The Fehner offering will consist of 50 Improved Chester White sows and gilts. All are immune, and are safe in pig to some of the best boars that could be obtained. The sale will be held in town in a good warm pavilion, February 23. The Fehner herd was founded several years ago with a number of sows and gilts which were either champions or the direct descendants of champions. Mr. Fehner devotes his entire time to the development of the herd and has not spared the cash to bring it to its present high standard. The two boars to which most of the sows to be sold are bred are

GUERNSEY CATTLE.

MAPLE GROVE GUERNSEYS REG. BULLS AND FEMALES—All ages for sale at all times, rich in high testing, heavy producing and A. R. blood lines. Prices reasonable. **F. J. GREINER Box 206-B Billings, Missouri**

GALLOWAY CATTLE.

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. Gullbert, Owner, Wallace, Kansas.

SHORTHORN CATTLE.

PURE BRED DAIRY SHORTHORNS Double Marys (pure Bates) and Rose of Sharon families. Offer: 3 year old herd bull, A snap. **R. M. ANDERSON, BELOIT, KAN.**

OUR HERD BULL

Abbotsford Lad 2, 385841, 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**

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.

S BALDWIN S SHORTHORNS

Baby bulls, \$75, registered. Also a good young double standard, service bull for \$150. All bulls guaranteed. Nothing but dark reds. Good milkers and feeders. Bred from prize winners at state fairs. Also some first class baby Duroc boars and gilts at \$15 and \$20, with privilege to return if not satisfactory by paying express one way. **R. W. BALDWIN, CONWAY, KAN.**

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.



THE FARMERS COW

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.

Howell Brothers Fourth Annual Sale



Col. Jesse Howell, in charge of the farm.

40 Head Duroc-Jersey Bred Sows and Gilts

On "Tootle Ranch"

Herkimer, Kansas

On Grand Island R. R.

Marietta, Kansas

On Union Pacific R. R.

Wed., Feb. 14

9 Tried Sows—3 Fall Gilts—28 Spring Gilts

This offering represents the breed's most popular blood lines. A large per cent being sired by champions and grand champions, including such noted boars as Model Top, Perfect Colonel, Gold Nuggett (by Otey's Dream).

There will be ten spring gilts sired by our great Elk Colonel and these gilts should command the attention of those looking for herd material.

The offering will afford a diversity of breeding—being sired by sixteen different boars—and bred to five sires. Ten being bred to the sweepstakes boar Elk Colonel, and fifteen to Illustrator's Joy, the others to other herd boars. Most all are bred for March and April farrow.

Write for catalog, which gives full information as to the offering train service, accommodations, terms of sale, etc.

HOWELL BROS., HERKIMER, KANSAS

John W. Johnson will represent the Mail and Breeze. Auctioneers—Col. L. R. Brady, Manhattan, Kan., Col. F. B. Wempe, Frankfort, Kan. Clerk—A. Mayhew, Marysville, Kan.

SHORTHORN CATTLE.

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 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.**

Registered Shorthorn Bulls

Large, rugged fellows; ages, from 12 to 30 months. Nine head; five roans and four reds. Sire, Baron Pride 371007 a 2000 pound bull. Satisfaction guaranteed. **H. W. ESTES, SITKA, Clark Co., KAN.**

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. 16 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.

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. Also a few cows and heifers. Good breeding and plenty of quality. Inspection invited. Write for further information. Address **E. A. Cory & Sons, Talmo, Kan.** (Pioneer Republic County Herd)

\$50,000 IN SHORTHORN PRIZES

This association has appropriated for 1917 approximately \$50,000 for prizes at state fairs, interstate fairs, livestock shows, state and interstate association shows and sales from New England to the Pacific Coast and from Canada to the Gulf. Pick your show thing now and begin preparation for these contests, that you may claim a share of the prize money. 1916 was the biggest Shorthorn year in the history of the breed and 1917 bids fair to far exceed it. **American Shorthorn Breeders' Ass'n.** 13 Dexter Park Ave., Chicago, Illinois

SHORTHORN BULLS

Yearling bulls, reds and roans got by Scotchman and Master Butterfly 5th, our pure Scotch herd bulls, weighing better than a ton each. Inspection invited. We price bulls to sell them. Address **W. F. Bleam & Sons, Osborne Co., Bloomington, 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**

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.**

Eagle Archie, a champion of Missouri, for which he paid \$500, and a very promising youngster purchased at a good figure from J. H. Harvey of Maryville, Mo. Mr. Fehner is getting out a fine catalog giving breeding and descriptions of this offering and he will be glad to send it to all who write. When writing please be sure and mention this paper.—Advertisement.

\$50,000 for Shorthorn Prizes.

The American Shorthorn Breeders' association appeals in a substantial way to Shorthorn breeders everywhere to participate in the prize contests at fairs and shows throughout the country. It is a large amount of money that has been set apart by the association for prizes and it is widely distributed and applied to so many classes that Shorthorn breeders everywhere are encouraged to respond. Certainly no year in the history of the Shorthorn breed witnessed such a broad expansion as the year just closed and all indications point to a still greater achievement in the matter of furthering the popularity of the Shorthorn during the present year. The inclination in all sections to replenish the cattle stock and obtain a better class of seed for the purpose insures a growing demand for a good while to come. Apparently the day of the cheap sire has gone by.—Advertisement.

Publisher's News Notes

Good Seed Corn.

S. G. Trent of Hiawatha, Kansas, winner of the corn prize at the Panama Pacific exposition has some of the best Reid's Yellow Dent and Boone County White seed corn this year he has ever seen in all his many years of growing seeds, and is so confident of it that he is selling it on an absolute guarantee of satisfaction or your money back. See his ad in this issue and order your supply today before it's all gone. Better be safe than sorry.—Advertisement.

Peerless Fence.

The Peerless Fence Co., 208 Michigan street, Adrian, Mich., has built a fence that has withstood the test of time. For 17 years this concern has been manufacturing a wire fence that stays put and lasts indefinitely. Many American farmers are already acquainted with this fence and know of its wearing qualities, but there are some farmers who have not had the good fortune to test it out. The Peerless people but out a fence and gate boom that will be sent free for the asking. Why not send a postal today and get your copy?—Advertisement.

Wichita's Farm Power Convention.

Those interested in power farm machinery should avail themselves of the wonderful educational advantages of the 15th annual Interstate Thresher and Tractor show to be held at Wichita, Kan., February 22, 23 and 24. Almost every conceivable form and make of steam, gas and oil tractors, road machinery, threshers, plows and accessories will be on exhibition. Over a million dollars worth of machinery will be on display and every mechanical department will be free to all with two free nights of entertainment and the greatest get together meeting of threshermen and farm machine people ever held in the Southwest.—Advertisement.

Trap Nests Lice Proof.

In another column will be found the advertisement of Knudson Galvanized Steel Lice-Proof Poultry Nests. We have in our hands one of their little folders in which is a number of testimonials from our subscribers and those of other mediums, praising these nests; declaring they are not only entirely lice-proof, but that they would not be without them for anything. The manufacturers say that more than 60 per cent of their orders are for additional nests from old purchasers, and that 50 per cent of these order more the second time than the first. They are guaranteed to give satisfaction or the purchase price will be refunded. We urge you to send your name and address to Knudson Manufacturing Company, Box 127, St. Joseph, Mo., and get their new folder. You will certainly miss something if you don't.—Advertisement.

Tell More About this Mule

I have a mule that has gone blind. Her back and hind legs are stiff. She has been worked some, and has been running in the pasture with the horses. She is fed kafir bundles and prairie hay. **W. C.**

The symptoms submitted in this letter simply indicate that the animal is blind and that she has some stiffness in the back and hind limbs. These symptoms are characteristic of no specific disease. Blindness may be the result of many different causes and these causes may produce various changes in the eye, and in various parts of the eye, which would make the animal go blind. The stiffness in the back and hind limbs may or may not be related to the blindness. There is no way of arriving at an accurate diagnosis from the symptoms contained in the letter. **K. S. A. C. Dr. R. R. Dykstra.**

The Welcome Paper

We like the Farmers Mail and Breeze, and will all be glad to see it come to Nespelem every week. It has been received weekly with pleasure in our home for about five years. **M. A. Helmick.**

Nespelem, Wash.

Said the Spinster to the Man.

"They say," remarked the spinster boarder, "that the woman who hesitates is lost."
"Lost is not the proper word for it," growled the fussy old bachelor at the pedal extremity of the table. "She's extinct."—Philadelphia Ledger.

HOLSTEIN CATTLE.

Registered Holstein bull calves for sale, from good cows. **Wm. C. Mueller, Hanover, Kansas**

HOLSTEIN CALVES high grade Holstein calves either sex, 3 to 4 weeks old, \$20, crated for shipment. **BURR OAK FARM, Whitewater, Wis.**

CHOICE HOLSTEIN CALVES 10 heifers and 2 bulls, 5 weeks old, nicely marked. \$20 each crated for shipment anywhere. **EDGEWOOD FARM, WHITWATER, WIS.**

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. 3, LAWRENCE, KAN.**

Braeburn Holsteins A R. O. bull calves from eight months down. **H. B. Cowles, Topeka, Kansas**

Sunflower Herd Holsteins Nothing for sale at present. Am holding all my stock for my big two days' spring sale in which I will sell 150 head of the most popular A.R.O. breeding. Watch this paper, for later announcements. **F. J. SEARLE, OSKALOOSA, KANSAS**



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.**

Clyde Girod, At the Farm.

F. W. Robison, Cashier Towanda State Bank.

Holstein Friesian Farm, Towanda, Kan.

Breeders of Purebred Holsteins

We offer special attractions in choice young bulls, ready and nearly ready for service, both from tested and untested dams at prices within reason. Have some attractive baby bulls also, choicely bred. Let us furnish you a bull and improve your herd. Several young females from 6 months to 5 years of age, sired by high record bulls and from A. R. O. dams, up to 28.1 pounds butter in 7 days. A number of these females have A.R.O. records themselves, from 15 to 26 pounds, 7 day butter records.

IT WILL PAY YOU TO SEE OUR OFFERING

of choice extra high grade, young cows and heifers, all springers, in calf to purebred sires, large developed females, good udders, nicely marked and the right dairy type at prices that challenge comparison for Holsteins of their breeding and quality. A visit to our farm will convince you. Keep us in mind before purchasing. Wire, write or phone us.

GIROD & ROBISON, Towanda, Kansas



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.**

ABERDEEN ANGUS CATTLE.
ANGUS CATTLE 150 young bulls and heifers ready to ship.
Berkshire Hogs
SUTTON & PORTEOUS, Lawrence, Kan.

Aberdeen Angus Cattle
 Herd headed by Louis of View-point 4th. 150624, half brother to the Champion cow of America.
Johnson Workman, Russell, Kan.

FOR QUICK SALE
 43 high grade cows, 4 to 8 years old. 1 high grade bull coming 4. All cows will bring calves. Some with calves at foot now. **FRANK A. VOPAT, LUCAS, KANSAS.**

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.)

15 Registered ANGUS BULLS

Age 8 to 12 months, also my four year old herd bull, Embree, No. 167382. Also recleaned Sudan grass seed for sale.
W. L. Maddox, Hazelton, Kan.

Hereford and Poland China SALE

At farm near
Oronoque, Kansas
Thurs., Feb. 22



10 Registered Bulls
 in age from ten to sixteen months, sired by Principal 17th. Mischief Mixer and Choice Good, one of the Mousel stock bulls.

25 High Grade Hereford Cows
 with calves at foot and bred to the recorded bull Grover Mischief. 10 yearling heifers and some steers and calves four to ten months old.



20 Registered Poland China
 bred gilts and a few boars, sired by Blue Valley Look and Big King.

5 big Draft HORSES and 50 bushels of **SEED CORN.**

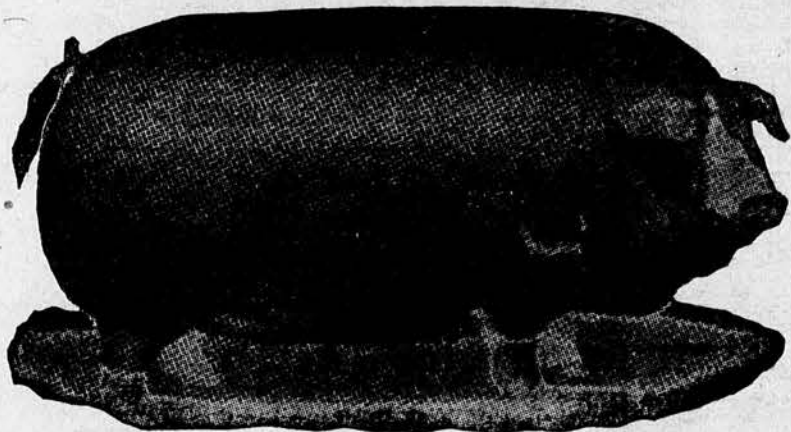
Write now for catalog and mention **Farmers Mail and Breeze.**

Carl F. Behrent,
 Oronoque, (Norton Co.,) Kansas
 Jas. T. McCulloch, Auctioneer.
 J. W. Johnson, Fieldman.

Olivier & Sons' Big Type Poland China Sale

Danville, Kansas, Friday, February 23

35 Big Type
Tried Sows. All
 young and the
 cream of the
 breed.



15 Summer and
Fall Gilts. Out-
standing indi-
viduals. No
 herd we have
 seen can dup-
 licate them.

BIG TYPE WITH QUALITY.

These sows and gilts have both size and quality and have been selected for their breeding qualities. They are sired by, or bred to such sires as A Wonderful King (grand champion of three state fairs in 1916), by King of All and out of the 400-pound sow, Wonder Jumbo 4th, and Logan Price (2nd prize aged boar at three state fairs, 1916), by Chief Price Again and out of a daughter of the 800 pound Big Orange. These sows and gilts are all bred and guaranteed in pig to such noted sires. If you want the kind that are by prize winners bred to prize winners and the kind that will produce prize winners, send today for a catalog and study the breeding of this offering. Address

OLIVIER & SONS, Danville, Kansas

Auctioneers—Cols. Snyder, Burger, Groff and Price. Fieldman—A. B. Hunter.

The Most Important Event Among Draft Horse Circles in the West.

The Nebraska Pure Bred Horse Breeders' Association Sale



125 Head **Percheron—Belgian—**
Shire **STALLIONS, MARES AND FILLIES**
7 SLENDID SHETLAND PONIES

ON THE
STATE FAIR
GROUNDS

Lincoln, Neb., Thursday and Friday
FEBRUARY 22-23

A SAFE SALE

Clean Horses From Clean Farms—Sold Under Clean Surroundings

Herd headers of genuine merit, brood mares that are high-class and great prospects in colts are the features of the offering. They have been fitted for the sale under natural conditions—not pampered—and will appeal to the practical buyer of breeding material.

The annual meeting of the Association will be held at the Lindell Hotel, Wednesday, February 21, at 7:30 p. m. The annual banquet will be held at the same hotel the following evening, Thursday, February 22, at 6:30 p. m.

Under the Auspices of the

Nebraska Pure Bred Horse Breeders' Association

H. J. McLAUGHLIN, President, Doniphan, Neb.

C. F. WAY, Secretary-Treasurer, Lincoln, Neb.

For Catalogs Address the Secretary.

COLS. Z. S. BRANSON, CLYDE HAYHURST, W. J. THOMPSON and DAN J. FULLER, Auctioneers.
JESSE JOHNSON, Fieldman.

HEREFORD CATTLE.

Spring Creek Herefords

Some young bulls for sale. Older bulls and females all sold.
S. D. SEEVER, SMITH CENTER, KAN.

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.

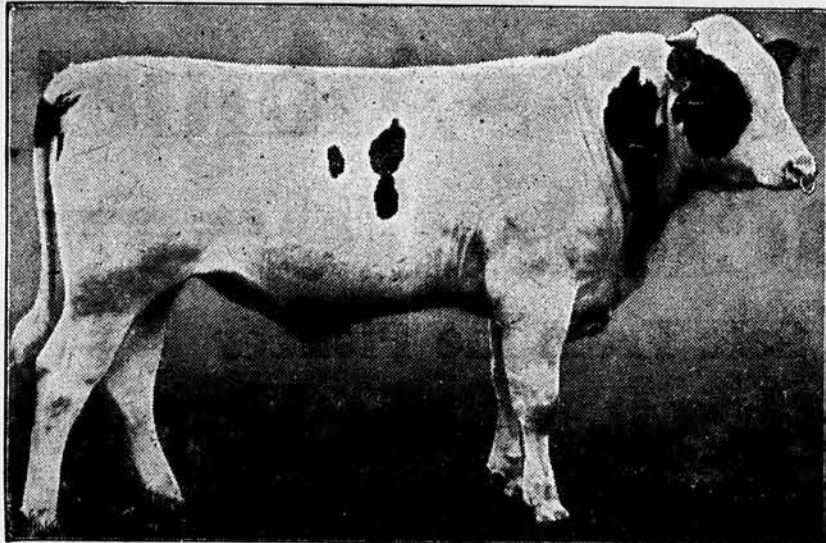
When writing to advertisers be sure to mention **Farmers Mail and Breeze**



HEREFORD CATTLE DISPERSION

at private sale. 23 head including the herd bull, Rex 488218, three years old and got by Laredo Boy and bred by Carl Miller. Eight cows in their prime of usefulness and bred to Rex. Six yearling and two year old heifers. Three bulls coming two years old. Three bulls that will be yearlings in the spring. Come to Athol, Kan., and phone us. Address

J. A. Tombaugh & Son, Athol, (Smith County,) Kansas



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

RED POLLED CATTLE.

FOSTER'S RED POLLED CATTLE Write for prices on breeding cattle.
C. E. FOSTER, R. R. 4, Eldorado, 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. Hallowell & 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.

POLLED DURHAM CATTLE.

FISHER'S POLLED DURHAMS

For Sale: A splendid bull, year old in Nov. Roan and eligible in the Polled Durham book. Also bull year old in April. Address E. E. FISHER, STOCKTON, 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.
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

Midway Stock Farm Poland Chinas

Annual sale. The best lot of tried sows ever offered in Jackson county at auction. Combining size, quality and finish.

Holton, Kan., Wed., February 21

45 Head Tried Sows, Fall Yearlings and Spring Gilts 45

Five tried sows that have proven their usefulness by raising spring and fall litters last year. The great sow Model Girl, two times grand champion at the Jackson County Stock Show, is among them.

The fall gilts are big, roomy prospects, as good as any to be sold this winter, while the spring gilts are all selected tops.

The offering is sired by A Kansas Wonder, Big Bob 2d, one of Big Bob Wonder's best sons, Futurity Rexall, Tecumseh Ex., Blue Valley Giant 2d and Chief Highball, and out of daughters of Major Zim, Blue Valley Buster, A Kansas Wonder and Exalter's Rival.

Bred to Metal King, a spring yearling by King John, by Long King's Equal, Clemetson's Big Bob, by Big Bob 2d, dam Miss Hutch, by Exalter's Rival and O. B.'s Wonder, by King Wonder, by King Of All.

I will also sell five husky young boars sired by Metal King out of dams by A Wonder, Jumbo and Major Zim.

Bids sent to J. W. Johnson in my care will be handled right. Catalogs ready to mail. Address

O. B. Clemetson, Holton, Kansas

Auctioneers—R. L. Harriman, Clum Pool, V. E. Addy,
Fieldman—J. W. Johnson.

Fifth Annual Bred Sow Sale

The Kansas State Agricultural College will sell Poland Chinas and Duroc Jerseys, Friday, February 16, 1917, Manhattan, Kans. Write for catalog.

MULE FOOT HOGS.

200 Immune Mulefoot Hogs, all ages, sired by champion males. Hereford Cattle. Catalog free. C. M. Thompson, Leola, Ind.

JERSEY CATTLE.

Registered Jersey Bulls. Excellent Breeding. Percy Lill, Mount Hope, Kansas

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, Kan.

Choice Registered Jersey Bull Call
Sire Pugs of Brondale 100000; dam, Marlon's Boneta, 302680. Priced right. ANDREW KOSAR, Delphos, Kan.

Registered Jersey Cattle Sale

Topeka Fair Grounds, March 8.
20 registered Jersey cows and heifers, also 30 registered O. I. C. swine. Write for catalog.
F. J. SCHERMAN, R. 8, TOPEKA, 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

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

Big Combination Jack Sale

Deacon Jr.



40 Head 25 Jacks and 15 Jennets

All black with white points and all registered.

Holton, (Jackson County,) Kan.

Thursday, February 22

The Show Herd of M. H. ROLLER & SON, including John L Jr., champion state fair, Topeka, 1914-15 and the show herd of Bruce Saunders, including Deacon Jr., champion of state fair, Topeka, 1916.

John L. Jr.



These two champion jacks are representative of the high standard of the 40 jacks and jennets that go in this sale to the highest bidder regardless of price. Plan to attend this sale and write for illustrated catalog at once. Mr. Saunders is closing out his entire herd and Roller & Son are selling very close. Included in the sale are two Percheron stallions, two and three years old sired by Inclus, champion of the leading shows in 1911. Sale in big sale pavilion in town. Good railroad facilities. Ask your R.R. agent. Good hotel accommodations. Catalogs ready to mail

Address either

BRUCE SAUNDERS, Holton, Kan., or M. H. ROLLER & SON, Circleville, Kan.

Auctioneers—R. L. Harriman, C. Pool, V. E. Addy.

Fieldman—J. W. Johnson.

Cornelius McNulty's Annual Jack Sale



Typical of the
Grand View Kind.

A Draft Sale From the Pioneer
Grand View Jack Farm
Morrowville, Kansas

To better accommodate customers from all over the country I am selling in the big comfortable Sale Barn, at

Concordia, Kan., Saturday, Feb. 24

For 18 years I have bred jacks and it is with real pleasure I invite the jack and mule fraternity of the West to my 2nd annual draft sale of jacks.

20 Big Mammoth Jacks Go In This Sale

Ranging from two to eight years old. All are black with white points. All were bred by me except two. They are real herd jack material and all registered or eligible to registry. All are acclimated and in good growing condition but not highly conditioned. The guarantee made on each jack will be as good as a government bond. Catalogs ready to mail.

Address **Cornelius McNulty, Morrowville, Kan.**

Auctioneers: R. L. Harriman, G. B. VanLandingham, Dan Perkins. J. W. Johnson, Fieldman.

(Mention the Farmers Mail and Breeze when asking for catalog)

Nebraska's Leading Hampshire Bred Sow Sales

ATTEND BOTH AT ONE EXPENSE

Lindgren's Immune Hampshire Sale

Smith's Sale Pavilion Fairbury, Nebr.,

Monday, February 26

50 Head Of as good breeding as the herd books can show **50 Head**



10 Tried Sows 35 Spring Gilts
4 Choice Young Boars

Females bred to four great sires. Many are bred to the outstanding young fellow **Poulsen's Star 72nd**, a son of the \$800 Poulsen's Model. Others are bred to **Keswick Leader**, a son of the fifteenth time grand champion, Messenger Boy. This boar is included in sale. Others are bred to a son of the great boar **Cherokee Pattern** and some to an outstanding son of Keswick Leader. Many of the gilts were sired by Keswick Leader and older stuff carries the blood of the best known sires of the breed. Write at once for catalog and mention this paper. If you can't come send bids to Jesse Johnson in my care at Merchants Hotel, Fairbury, Neb. Parties attending sale stop at above mentioned hotel.

A. H. Lindgren, Jansen, Nebr.

Auctioneers: Cols. Thos. E. Deem and C. W. Smith.
Fieldman, J. R. Johnson.

Schroeder's Immune Hampshire Sale

Avoca, Nebr.,

Tuesday, February 27

56 Head Bred to the best boars of the breed. **56 Head**

30 Tried Sows 15 Fall Yearlings
11 Spring Gilts.



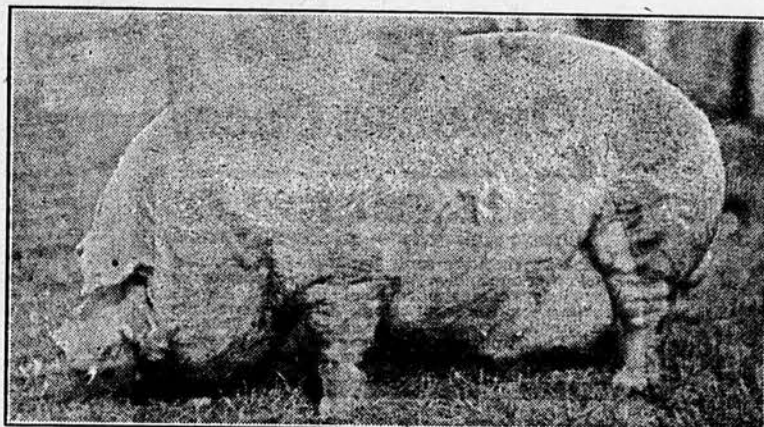
A big per centage bred to Harold, brother to Lookout Lad, grand champion at the National Swine Show the past year. Many are bred to Blythsedale Schroeder, closely related to the great General Tipton. Others are bred to Cherokee 1st, a son of Cherokee Lad. Gilts mostly sired by Harold and Cherokee 1st. The sows nearly all sired by Messenger Choice, son of the grand champion sire, Messenger Boy. Others by Cherokee Pattern, the boar that won first at Iowa and Nebraska State Fairs the past fall. I have bought foundation stock from the best herds in America. Write at once for catalog and mention this paper. Parties unable to attend should send bids to J. W. Johnson representing this paper. Free entertainment. Trains met at Avoca and Weeping Water.

Carl Schroeder, Avoca, Nebr.

Auctioneers: Cols. Thos. E. Deem and Rex Young.
J. W. Johnson, Fieldman, for this paper.

Missouri's Greatest White Hog Sale, Higginsville, Mo., Feb. 23

50 Head
of Improved
Chester White
Sows and Gilts



Eagle
Archie

one of the boars in service.
He is also a sire or
grandsire of a number
of the gilts.
We paid \$500 for this boar.

These sows and gilts are of the best breeding, are good individuals and are in good condition. Some are bred for early litters others will farrow about time grass is ready for pasture. The sale will be held in town in good warm pavilion. Splendid R. R. service.

ALL ARE IMMUNE. CATALOGS SENT ON REQUEST. WRITE TODAY.

Henry Fehner, Higginsville, Missouri

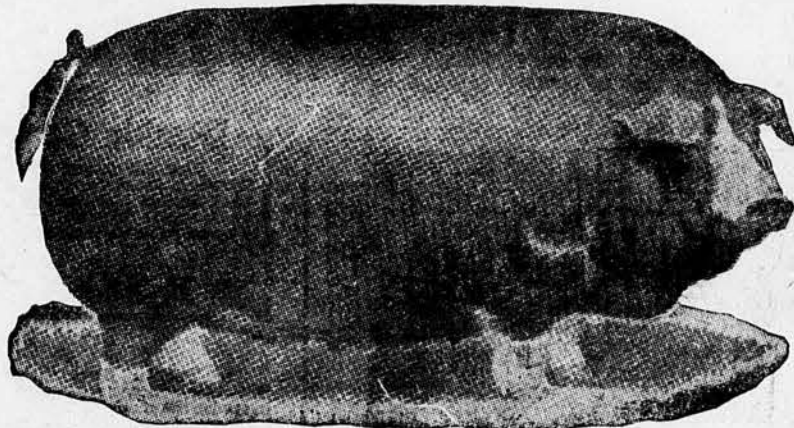
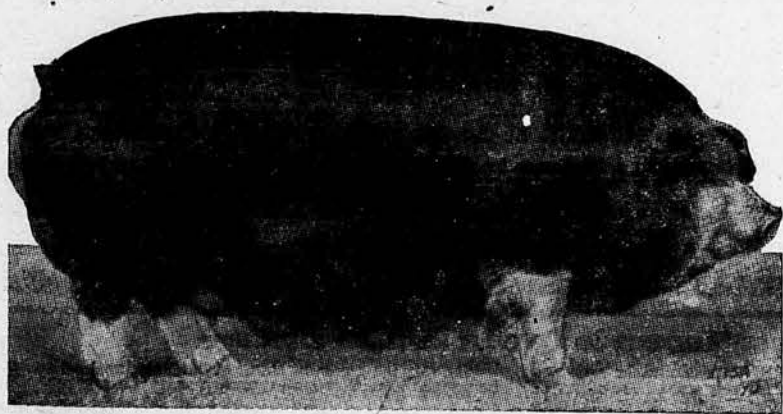
C. H. Hay, Fieldman. Col. Thos. E. Deem, Auctioneer.

Mail bids should be sent to C. H. Hay, fieldman for this paper.

Erhart & Sons Sell Poland Chinas

Hutchinson State Fair Pavilion

Hutchinson, Kansas, Thursday, February 22, 1917



63 Head The Greatest Lot of Large Type Hogs I Ever Offered.
Every Sow and Gilt Bred to Our Great Herd Boars.

15 tried sows, 20 fall yearling gilts, 25 spring gilts, 3 boars—herd headers. Included will be a large part of our last season's show herd. Five of these fall gilts are the best we ever raised; a number of our best sows also go in this sale.

They are sired by, or bred to such sires as the grand champion Big Hadley Jr., Orphan Big Gun, Jumbo Hadley, Mo. King, Giant Wonder and Big Ben and other sires of like large type note. If you want larger and better Poland Chinas you cannot afford to miss this sale. Hourly interurban cars Wichita to Hutchinson and return. Write today for catalog. Address

A. J. ERHART & SONS, Ness City, Kansas

Auctioneers—Snyder, Price, Burger, Groff.

Fieldman—A. B. Hunter.

Here Is The First Opportunity Millions Have Hoped For!

SHARPLES AT TREMENDOUS

Price Reduction!

For Quickest Sales - Immediate Delivery
No Matter Where You Live!

Write Us
or
Order at Once!

P. M. SHARPLES

Highest Authority - 35 Years' Record

He made the first cream separator in America. Has sold over one million Sharples Cream Separators to best judges of separator values in the world. Always at one price. Never cut before. All Sharples owners are Sharples boosters for original Genuine Tubular "A." Right principle. Highest quality and prestige. His word is as good as a government bond.

His Letter Here Tells Why He
Picked HARRIS BROS. CO.
for This Great
Public Service

Low, Easy-
to-Turn
Sharples
Crank
Handle

Ball-Bearing
Makes This
Extremely
Easy to Turn

Regular SHARPLES Guarantee to You Forever

With each Genuine Sharples Tubular "A" Cream Separator purchased of HARRIS BROS. CO. you get our regular *Guarantee* forever against defects of material or workmanship. Defective parts replaced FREE of charge at any time. This, our unlimited Guarantee (copy on request), given through 35 years to over 1,000,000 satisfied owners.

SHARPLES SEPARATOR COMPANY.

Really the Most Wonderful Opportunity of All Cream Separator History

On This First and Only Tremendous Cut-in-Prices Offer, Thousands of Farmers and Dairymen Will Now Quickly Take This Entire Lot of Original and Genuine SHARPLES Tubular "A" Cream Separators.

For Immediate Delivery. ACT AT ONCE. Don't Risk the Disappointment of Failing to GET ONE. Over One Million SHARPLES in Most Satisfactory Use.

Biggest Money-Making Owners Would Have No Other. YOU, Too, Should Have a SHARPLES.

NOW, at last, positively the best *Fixed-Feed* Cream Separators in the world—the Genuine SHARPLES TUBULAR "A"—can be yours at CUT prices for any capacity. Save \$20 to \$40 on the regular price here if you take our unqualified 30 days' FREE trial at once.

Prove the wonderful greater value to you of a SHARPLES or NO SALE. This 30 days' trial and use won't cost you a penny. If not perfectly delighted and satisfied we take it back then and pay charges each way. Money back at once without question.

Prove this by making more money out of your cream for a month FREE—prove by the extra dollars that even a month's trial will put in your pocket—what a far better, most satisfactory, all-round, lifetime, durable, time saving, easy to operate and keep clean Separator this genuine SHARPLES TUBULAR "A" really is.

On account of the limit of our stock of these Genuine Sharples Tubular "A" Separators our prices are subject to quick acceptance.

Double Guarantee—HARRIS BROS. CO.'S With SHARPLES'

For 25 years SHARPLES' Guarantee Forever has Proved the Highest Protection for Separator Buyers—Satisfaction and Savings. For twenty-four years HARRIS BROTHERS CO., owners of the CHICAGO HOUSE WRECKING CO., has sold its Guaranteed Products at the Lowest Prices Direct-to-Users. Their original methods of purchase and sale has been the saving of millions of dollars to Farmers and Dairymen.

On Easy-Time Payments

30 Days' FREE TRIAL - Satisfaction or Money Back AT ONCE

Facts Known to Over a Million Users—

The Tubular Bowl of the SHARPLES is found in no other Separator. (Broadly patented and exclusively used here only.) It has twice the centrifugal force of any other bowl—due to the tubular shape.

There is only ONE PIECE to wash—not the dirty labor of handling the "bucket bowls" with their 30 or 40 disks to clean twice daily in other separators. This is one of the reasons why Sharples has always been the favorite separator with the farm women.

In fact if it were not for the SHARPLES Patents the market years ago would have been flooded with cheap imitations of the TUBULAR Principle, which no one else can offer you. You probably know that.

The very long, narrow shape of the Tubular Bowl accounts for it being the *closest skimming separator* on the market. CREATES DOUBLE THE SKIMMING FORCE OF ANY OTHER BOWL. On Durability—Thousands of Tubular "A" SHARPLES separators have not cost one dollar for repairs in 15 years' service.

Only half as many parts as other separators—each part DOUBLY WELL MADE—rigidly inspected many times, on workmanship and materials of highest grade.

Absolutely Honest Ratings of Capacity of every SHARPLES never will fool you on price, per capacity—or on your skimming time, or on the cleanest skimming records, per capacity—in the world. Watch out for this. Write Direct to

HARRIS BROTHERS CO., Dept. FA 57, CHICAGO

Note—Reader: You will easily understand that this wonderful offer will bring us tremendous numbers of orders (direct from this page by mail). Only by months of planning could even such a large and experienced direct-to-user concern as Harris Bros. Co. Guarantee Prompt, Immediate Deliveries.

Note: Hundreds will order direct from this page. The publishers of this paper have known us and SHARPLES for over a quarter of a century.

No
High
Lift-
ing

of milk or
backache-
ing work
with this
SHARPLES

Here We Show
You Our Exclu-
sive Offer at

Tremendous
Price
Reductions
on All
Capacities

No.	Cap.	Lbs.	Regular Price	Our Price
2	300	55	\$55	\$32.75
3	400	65	\$65	40.00
4	500	75	\$75	45.00
6	700	90	\$90	52.50
9	950	110	\$110	70.00

Honest
Ratings
Guar-
anteed

FREE

Catalogs Explain. We can't
tell all in this limited space

THE SHARPLES
TUBULAR "A"
1916-17 CATALOG

Harris
Bros. Company

Dept. FA 57, Chicago, Ill.

Send me at once (without obligation) all Photo-Booklets, SHARPLES Tubular "A" Cream Separator Color-Illustrated Big Catalog, Easy Terms, 30 Days' FREE Trial Offer, Double Guarantees and quote all Reduced Price Offers—FREE.

Name

Address

Town

R. F. D. No.

State

(I milk _____ cows)

TEAR OUT-MAIL TO DAY
NOW BEFORE TOO LATE

Immediate, Prompt Deliveries to You No matter where you live, for SHARPLES Tubular "A" Cream Separators on hand now—shipped F. O. B. at once from Chicago, Ill. Kansas City, Mo., Fargo, N. D., Harrisburg, Pa., St. Paul, Minn., Dallas, Tex., San Francisco, Cal., Omaha, Neb., Portland, Ore.