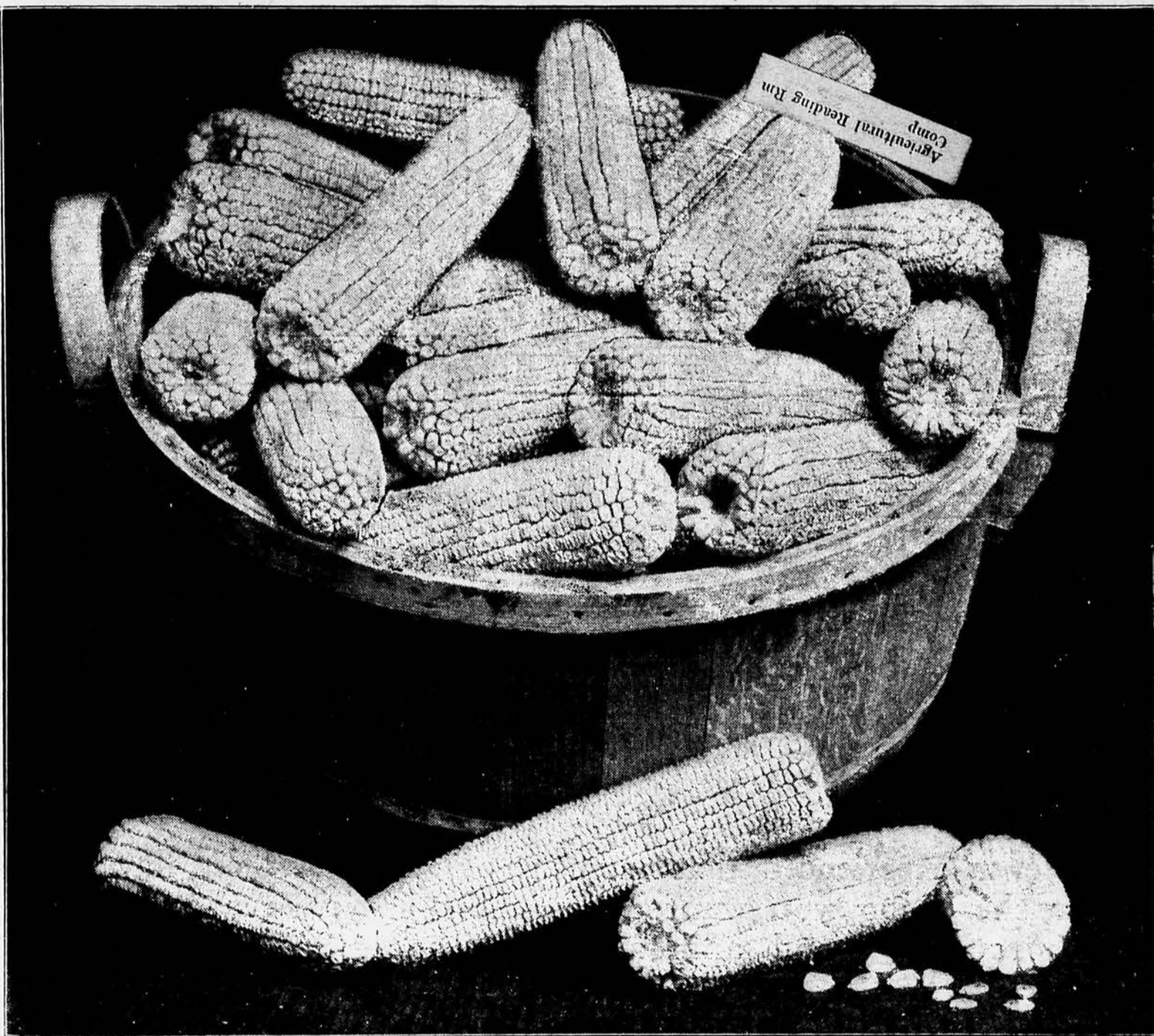


THE FARMERS MAIL AND BREEZE

Volume 42

February 8, 1913

Number 48



A Big Bushel of Kansas Improved Boone County White, Grown in Nemaha County. See Page 9

IN NEXT week's Mail and Breeze Alfred Docking, Riley county's preacher-farmer, and writer on agricultural topics will begin a series of occasional articles for the Mail and Breeze on farm life in England and Europe as he saw it last summer. He will also report on old country co-operative societies of which he made quite a study. Mr. Docking came back much impressed with the weekly market system of the English farmers which he thinks could be adopted to advantage. Kansas has no law authorizing the organization of co-operative societies, which fact will be made the basis of a statement in next week's issue by James Butler.

SEED, FRUIT AND GARDEN SPECIAL

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THE FARMERS MAIL AND BREEZE

AN AGRICULTURAL AND FAMILY JOURNAL FOR THE PEOPLE OF THE GREAT WEST



Volume 42
Number 48

TOPEKA, KANSAS, FEBRUARY 8, 1913.

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A SEED LAW NEEDED TO SAVE KANSAS FROM WEEDS

Editor's Note—The records of seed analyses made at the Kansas station prove that from 1 to 66 per cent of the seed being sown each crop season on Kansas farms is weed seed. It is an appalling showing. Kansas farmers are already in the grip of dodder and bindweed, the latter, to quote expert authority, one of the worst weeds known to man. Johnson grass, the scourge of the South and quack grass the mortal enemy of the eastern farmer, have been imported into Kansas and have obtained a substantial foothold on Kansas soil through shipments of unclean seed. And the mischief is increasing instead of decreasing. In bringing this matter to the attention of the legislature at the present time Prof. Roberts is doing Kansas the greatest service.

How much is lost to Kansas agriculture annually through sowing bad or impure seed, nobody can tell. Poor stands, weak crops and weed infestation are common. We know from the correspondence in our office that this annual aggregate loss is very large; that the sowing of poor seed and impure seed is due to two things: First to the desire of many farmers to get ahead of the game with nature by buying the cheapest seed in the market for sowing; second, to the fact that the seed trade in Kansas is entirely unregulated, so that unwittingly a buyer may sow down his farm with bad weeds, even though he may have thought he was buying good seed.



H. F. Roberts. What is the seed business of the state of Kansas? This is difficult to determine exactly. By "seed business" we mean all the seed bought by individuals in the state for sowing purposes, and which they have not themselves raised. In the aggregate this amounts to much more than the business of the seedsmen in the trade sense of the word. Farmers buy of one another, of feed stores, and of elevators, as well as of seedsmen.

As nearly as we can calculate it, the amount of money expended in Kansas for seed bought, and not raised on the home farm, is as follows:

Wheat, 2,000,000 bu. at \$1.50	\$3,000,000
Oats, 1,000,000 bu. at 75c	750,000
Sorghum (cane) 500,000 bu. at \$7	500,000
Alfalfa 50,000 bu. at \$9	450,000
Kafir, 200,000 bu. at \$1	300,000
Corn, 200,000 bu. at \$7.25	237,000

Written For Farmers Mail and Breeze
BY H. F. ROBERTS
Botanist Kansas Experiment Station

Here Are the Facts

For the last seven years seed of dodder has occurred in 14 per cent of the samples of alfalfa seed sent to the Kansas Experiment station for analysis.

Russian thistle has occurred in 19 per cent of all alfalfa samples during the last seven years.

It has been discovered that two-thirds of all meadow fescue or English bluegrass seed contains cheat and curled dock.

That about half our clover seed contains buckhorn.

That much of the Brome grass seed contains Quack grass.

That bindweed—one of the worst weeds known to man—is spreading over the state, chiefly through the seed wheat.

That the seedsmen's grades of "extra fancy" or "fancy" alfalfa, may contain dodder, Russian thistle, Sweet clover or Johnson grass.

And that no real idea of the true value of seed can be obtained from any of the seedsmen's grades.

Such are the facts, and these are the reasons why the state of Kansas needs a seed law.

Kentucky bluegrass lawns	68,000
Bluegrass pastures	51,000
Millet	170,000
Clover, 1,500 bu. at \$10	150,000
Garden seed	150,000
Flower seeds	150,000
Timothy, 2,100,000 lbs at 5c	105,000
Milo, 100,000 bu. at \$1	100,000
Cowpeas, 25,000 bu. at \$3	75,000
Broomcorn, 100,000 at 10c	10,000
Novelties	6,000
	\$6,372,400

There is not space here to go into details as to how these figures were arrived at. The writer has compiled the table with the assistance of the crop experts of the departments of agronomy and of the milling industry at Kansas Agricultural college, and believes it represents the facts closely. Let us say

that 6 million dollars in money is expended every year in Kansas for seeds bought for planting.

How much of this "makes good" and how much is total loss due to poor seed? How much is partial loss due to imperfect seed, poor germination, and the presence of weed seeds in the seed sowed?

How much loss in money, time, and labor (all of which is reducible to money) is due to sowing bad or impure seed, thereby getting a strong stand of noxious weeds which damage the land, and which cause, not only a poor stand and a weak crop of the seed sown, but leave weeds on the ground that have to be eradicated? How many thousands of dollars annually are lost through land sown to foul weeds that has to be plowed up, thrown into shape a second time and replanted?

The department of botany of the Kansas Experiment station has voluntarily maintained an office for seed analysis and seed testing for the last five years. Thousands of samples of all kinds of seeds have been tested free for farmers, seedsmen, and others. During this time we have handled a heavy correspondence with growers in regard to weeds found in their seed samples. Extracts from this correspondence the last two years will show the conditions that exist in this state at the present time, with the seed trade operating absolutely without any state regulation or supervision whatever.

LETTERS ABOUT BAD SEED.

From Charles S. Shephard, Bonner Springs, Kansas, February 2, 1909.—"I bought Red clover seed last year and received a mixture which proved to be clover and dodder, about equal parts. It has caused me a great deal of expense and annoyance, and I contemplate bringing suit for damages against the seller. Can you cite me any court report of a case of this nature?"

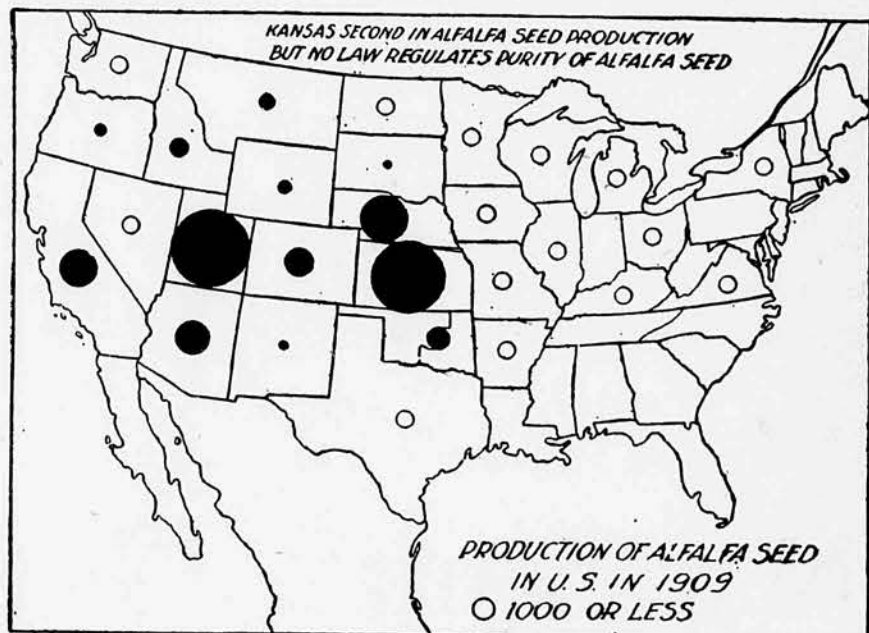
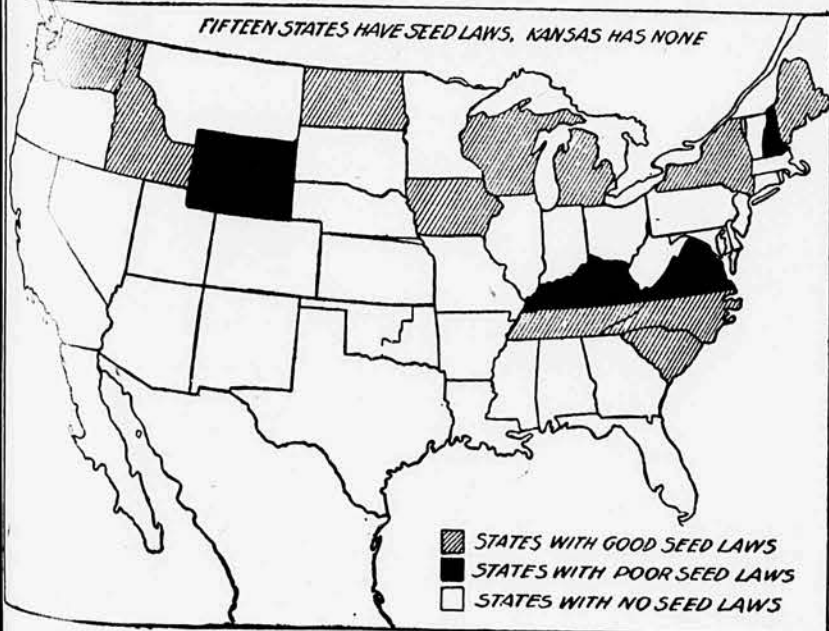
He was referred to the case of Depew vs. Peck Hardware company, Canandaigua, New York, mentioned in Bulletin No. 305 of the New York Experiment Station, Geneva, N. Y. The case was tried in the Ontario county court in June, 1906. The jury rendered a verdict for the plaintiff in the sum of \$377.42 with costs.

"Mr. Edward Larson of Vesper, Kan., bought of Concordia, Kan., 20 bushels of seed corn. All of this was planted during the time from May 5 to 20, on about 170 acres in one neighborhood, on bottom and upland ground. All the fields had to be replanted. Total loss estimated at \$300-\$400."

POOR SEED SOLD AS FIRST CLASS.

From James A. Downs, Lyndon, Kan., April 29, 1912.—"I am mailing you a small package of corn, which I want tested, as I cannot get it to germinate satisfactorily. On the 12th day of February I answered the following advertisement: "Seed corn, very best producers; Hildreth Yel-

(Continued on Page 13.)



The Farmers Mail and Breeze

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

Entered as second-class matter Feb. 16, 1906, at the postoffice at Topeka, Kansas, under the act of Congress of Mar. 3, 1879.

OUR 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 within a week of its occurrence, 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 Farmers Mail and Breeze."

SPECIAL NOTICE 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.



PASSING COMMENT by T. A. McNeal

A NEW PLAN. The other day a reader of the Mail and Breeze came into the office with a new suggestion. I am not prepared to say right offhand how this plan would work, but here it is. Mr. Gray, the originator of the idea, so far as I know, has given the matter a good deal of study. He believes that it would work.

He would have state bonds issued by the state in denominations running from \$1 to \$50 each, redeemable in from 10 to 50 years. The bonds would be negotiable and transferable from hand to hand like currency and could be received in payment of debts and taxes. They would bear one-half of 1 per cent interest and when a bond became mutilated to the extent that it would no longer pass current, it might be taken to the state treasury, destroyed and a new bond issued in its place.

When the bonds were presented in payment of taxes, the bearer—that is, the person presenting the bond in payment of his taxes—would be allowed the face of the bond together with whatever interest might be accumulated on the same at the time of presentation. The bonds would of course be legal tender only within the state. Mr. Gray's idea is to use these in payment for internal improvements such as the building of roads, the development of water powers for aid in irrigation, the conserving of surface waters and the like.

The first objection that presents itself to my mind is that this would probably be unconstitutional under that provision of our constitution that limits the debt of the state to 1 million dollars. This, of course, could be remedied by a constitutional amendment. The second objection that just now occurs to my mind is that as the bonds could be made legal tender only within the state and could not be passed in all probability outside, they might be discredited within the state.

I merely suggest these objections. As I have not given the matter careful consideration I do not want at this time to pass final judgment on it. It is worth thinking about at any rate. However, I do not want this plan to be considered as a substitute for a national currency based on the bonds of our municipalities.

THE OUSTING OF SENATOR STANTON.

I have not read entire the testimony in the case of the contest between Porter and Stanton which resulted in the unseating of Stanton and the seating of Porter, but I have read a good deal of it.

Here are some things that I think the testimony shows: It shows that there was considerable irregularity practiced in the election in several of the voting precincts of Crawford county. It shows that there were some votes cast that probably should not have been accepted. It does not show, however, that

there were enough of these probably illegal votes to change the result of the election. If all of them had been rejected Stanton would still have had a majority.

The irregularities also were not of a character that indicated an intent to defraud. Legal voters were not deprived of their right to vote so far as the evidence discloses. For example, in one case the election board moved from the place designated in the election proclamation to another hall presumably because it was a more comfortable place to hold the election. But apparently none of the voters of the precinct were deprived of their privilege as citizens by the removal, the aggregate vote being as large as usual in that precinct.

Some of the testimony was to the effect that a few voters took their ballots outside the booths to mark them, which was an irregularity, but there was no evidence that there was any corruption used in these cases.

My opinion is that Stanton was fairly elected and should not have been unseated. It might be urged that it was a political mistake to unseat him and I think it was, but I do not think that would be a good argument against unseating him. If Stanton was elected by fraud, then he should be unseated, no matter what the political effect might be, but I am not at all convinced that he was elected by fraud. On the contrary, I believe that he was fairly elected and that his unseating was wrong.

LET'S TAKE MORE INTEREST IN THE WAGE EARNERS.

Editor Mail and Breeze—We read with interest the many things planned for the betterment of conditions for farmers, such as "The Farm Adviser," the "Government Loans to Farmers," etc. You can pick up most any daily or magazine and see articles running over with ideas of how to better the condition of the farmer, but you will never see anyone championing the cause of the poor man who works on the section for \$1.25 per day; the poor clerk who works from daylight to dark at starvation wages; the poor merchant, who is in a class where a large per cent fail; the carpenter, who works about half the time, and many more in the wage earner and industrial class.

We have no fight to make on the farmers, and want them to have every advantage possible, but it is our interest in them that makes us think they are pointed out and catered to because they have the votes. In our community the farmers are all prosperous and are vying with each other as to who will raise the best crops and do the most good for all concerned, and we have reason to believe that the farmers of Kansas are generally prosperous.

The farm adviser, in our opinion, is all tommyrot and just another scheme to create more offices for men who have made a failure of their own business affairs, or for some slip of a boy from college, who could not dictate to our farmers for a minute. All a person has to do is to attend a farmers' institute to see how impracticable a farm adviser would be because of the different opinions and different results in one neighborhood from planting and cultivation of the same crops.

Our farmers are all right, and all they need is to be left alone by politicians who are always trying to feather their own nest, by making them believe that they need something more. J. M. BEST, Clinton, Kan.

Many Kansas farmers are prosperous. Some of them are not. Perhaps on the whole they are prospering as well as men in other lines of business; that is, the average of prosperity, especially among Kansas farmers is as good as the average in other lines, at least in Kansas. It is probably true also that a good many politicians do a good deal of talking about their great interest in the welfare of the farmer, because they want his vote.

But entirely aside from the selfish interest of scheming politicians there is a growing interest in the betterment of the agricultural business in this country. This interest is not based on the theory that the farmer individually or collectively is in an impoverished condition, or that farmers as a rule are stupid and incompetent, but because of a feeling that the average farmer ought to be more prosperous than he is now and might be if there was the proper sort of co-operation among the farmers of this country.

I think that it can be demonstrated that the average acre of land in the United States now being farmed might be made to produce twice as much as it produces now and at a greater profit to the farmer. I do not say that there is no farming land now producing up to its maximum capacity, but I do think that the land that is producing up to its maximum capacity is the rare exception.

Whether the farm adviser plan would prove to be a good thing for the farmers or not would depend entirely on two things; one would be the character of the farm adviser himself and the other the attitude of the farmers themselves. Of course if some inexperienced slip of a boy who had neither practical knowledge of farm conditions in the county where he was trying to do the advising, nor good hard sense, were selected, the money paid for his services would be worse than wasted, but it is idle to say that farmers have nothing to learn about the business of farming.

Every man who has ever worked on a farm knows that he had a chance to find out something of value to him every day both in the way of tilling his land and caring for his stock. He also knows, if he is not so egotistical that he believes he knows it all, that he can get valuable pointers from men who have made a careful study of farming methods, of soil culture, of stock breeding, etc.

Now, then, if the services of such a man could be obtained in a county, it is plain enough that his suggestions and practical demonstrations would be worth

more to the farmers of that county than the salary he might receive. In every other line of business in this country the service of the expert is more and more in demand. Men who have been in business for a long time and who have made a reasonable success at it are not ashamed to call in the professional expert and let him check up their business and suggest ways in which they can cut out needless expense and increase the efficiency of their plants.

Is it reasonable to suppose that farming, which in my opinion calls for the exercise of as much good judgment and experience in order to make a real success as any business in the world, is an exceptional Is it reasonable to suppose that every man who is willing to work can make a success on a farm? Is it reasonable to suppose that in this, the most important business in the world, experience, study and scientific knowledge count for nothing?

In every line of business there are men who pretend to be experts, who, as a matter of fact, are not. They profess to know, but don't know. Of course, their services are worthless, maybe even worse than that. The ignorant quack doctor likely kills more than he cures. The more you employ him the worse off you are. So it would be with the farm adviser. Whether he would be valuable or not would depend entirely on his knowledge and ability to apply it. A farm adviser who didn't know his business would be worse than none at all, but if he did know his business he would be worth a great deal more than he would cost.

And now in regard to the poor fellow who is working for a dollar and a quarter per day, or maybe even less. Mr. Best says that he never sees anyone championing his cause. No doubt his interests have not been looked after as much as they should be, but it occurs to me that I have read fully as much about the "poor laboring man" as I have about the farmer.

Most politicians are catering to the laboring man these days, at any rate in those communities where there are a great many who are working for daily or weekly or monthly wages. A great deal of this talk I will admit is buncomb and never materializes into anything of practical benefit to the wage earner, just as a considerable amount of talk about the "down-trodden farmer" is buncomb, but I think that the trend of the times is decidedly toward the betterment of the conditions of the laboring men and women; that is, the men and women who have to earn their living by working for wages.

Our own legislature is struggling with a minimum wage bill. By the time they get through with it it may not be of much practical benefit to the laboring class, but the purpose of the bill is to help the wage earner.

All over the civilized world the agitation is growing for better conditions for wage earners; shorter hours; better wages; better sanitary conditions; more safety appliances; insurance against accidents in industrial pursuits; employers' liability laws; old age pensions, etc. Just how much the wage earners will be benefited by such laws will be tested by experience, but the fact that legislative bodies in nearly every civilized country are passing such laws shows that there is somebody championing the cause of the poor man who works for day wages.

THEY ARE WRITING TO I AM GREATLY PLEASED BY THEIR CONGRESSMEN.

know that Kansas readers of the Mail and Breeze are taking hold of the suggestion made in the paper three weeks ago, and are writing to their congressmen urging the passage of a law by which municipalities and farmers' organizations as well as be permitted to deposit their bonds, with interest payable to the government, in the United States treasury, and have currency based thereon issued by the government.

Recently the farmers living in the neighborhood of Ransom, Kan., met in their schoolhouse and framed up a letter to send to their members of congress, a copy of which letter has been sent me and reads as follows:

To the Hon. George A. Neely, Washington, D. C. We, the undersigned, send you our opinion of the bill providing for government loans to farmers. We do not like, nor do we approve of the plan of the government issuing bonds to raise money to loan to us farmers. Now the plan we favor is this: Let the government make a direct issue of currency based on the securities that the farmer who borrows this money furnishes, namely, real estate. What better securities can you get to base an issue of currency on?

We would have the business conducted through the county commissioners of each county, of every state or territory. All applications for loans would be made to the county commissioners, who would act as a board of appraisers to determine how much money should be lent on a given tract of land. Loans approved by the county commissioners would be sent to the state land commissioner's office to be approved there, and from there it would go to the general government office to be recorded. Each county would be responsible to the state or territory for the actions of its commissioners, and the state or the territory would be responsible to the government for its actions, the land to the money was borrowed on to be responsible for the debt until it was paid.

The amount loaned on a tract of land shall not exceed 60 per cent of the appraised value of the land, and no loans shall be made to any except bonafide residents, tillers of the soil. Now with the above described system of loans we sincerely believe that money could be loaned to farmers at 2 1/2 to 3 per cent, and the money derived therefrom be used toward paying the expenses of running the government. Now we sincerely hope you will be able to obtain for us what we

Vertical text on the left margin, possibly a page number or index reference.

We earnestly ask you to support the Haugen Bill, as we believe every product should sell for exactly what it is worth.

Ransom, Kan., January 25, 1913.

Mr. McGie, of Ransom, who took an active part in getting up this meeting, writes as follows concerning it:

Editor Mail and Breeze—The above is a copy of the letter we sent to our congressman. We had a meeting at our schoolhouse and adopted the above plan of government loans to farmers, believing it to be the best plan as it would not entail an issue of bonds. We believe an issue of bonds to raise money for government farm loans would put us deeper in the mire than we already are. We believe a bond issue would place us more firmly in the grip of the moneyed interest than we are already.

Every man present signed the letter. We had 53 names signed to it. I understand other districts are having meetings at their schoolhouses and are adopting the same plan and getting all the signers they can and then mailing them to their congressman.

Now we believe the above plan is feasible and that we can get what we want if we insist hard enough. Now, kind reader, if you think the same as we do get busy, call a meeting at your little old red schoolhouse, get everybody out, adopt the same plan and all sign it and mail it to your congressman. Take a copy with you wherever you go, get everybody you meet to sign it, then mail it to your congressman. Let your congressman know that you expect him to work for your interest. Let's keep right after our congressmen until we get what we want.

WM. W. MCGIE.

In last week's issue I printed a form of letter at the suggestion of a number of readers, but on the whole I like the letter framed up by the Ransom farmers rather better than the one I framed myself. I trust that the readers of the Mail and Breeze everywhere who believe in this will get busy.

I do not think it will make much difference what the politics of your congressman may be, if he becomes convinced that the sentiment of his constituency is behind this he will favor it. If he does not, then mark him for defeat at the next election, no matter whether he calls himself Republican, Democrat or Progressive.

Get this matter clearly in your mind. It is not a very complicated proposition. It is to put your credit into liquid form of currency with which to do your business. It is simply a proposition to use your government as the holder of your securities on which currency will be issued. The government will guarantee this currency, make it legal tender and see that it is kept good and secure itself with the bonds of the municipalities and farmers' organizations if thought best. Personally I prefer that the distribution should be made through the municipalities.

What I want you to keep everlastingly in mind is the central thought that the people want to cut down the enormous and ever-increasing burden of interest. They want their money direct from the government instead of paying tribute on it to the banks. There are details to be worked out; for example, the retirement of the currency at such times as it will not be needed and the expansion of the volume at such times as it is needed. Do not worry too much over the details, but keep pounding away on the foundation principle of this plan.

NOT SATISFIED WITH THE CONSOLIDATED SCHOOL.

Editor Mail and Breeze—In the issue of January 25 I noticed a letter from H. Lichteig, of Richmond, Kan., opposing the consolidated school system, and your comment. As I have the misfortune to live in a consolidated district, I will say that in my opinion Mr. Lichteig's ground is well taken. In theory it may be all right, but in practice the consolidated school is a failure, or at least it has so proven here, where it has been tried for five or six years.

In the first place the cost of running a consolidated school is double the cost of running the four district schools of which it is composed, when they were run separately. In these progressive times there are very few who would complain of the expense if they were getting better school service, but there is where the whole thing hinges.

Now to commence at the beginning, we will start the children to school. I have two going, one 7 and one 9. My neighbor within a half mile has three, ages 9, 11, 14. All of these must be up, have their breakfast and five of them walk a quarter of a mile to the wagon station by 7 o'clock, if the roads are good, and if it is raining, or the roads are heavy, must be there by 6:30. Then there is a ride of 6 miles before them, which of itself would be unpleasant for a man, to say nothing about the children, especially in zero weather.

This is the condition of things on one route only. Multiply this by 3, the number of wagon routes in this district, and we have 18 children that must be on their way to school by 7 o'clock and return at 6:30 or 6. A working man's day, isn't it?

Now do you think that those children are able to apply themselves as they should and do good mental work, where there is so much physical exertion? If you do I must say that you are badly mistaken. I have a boy who is as studious as the average and has made his grade each term of school so far, who is apparently working harder than ever this winter, but I have my doubts about his making his grade this time. Don't think that the 18 scholars mentioned are the only ones who put in the long day, but they have the longest.

Now we will go to the schoolroom. The law specifies the subjects for each grade and coming from a graded school of course we had the children supplied with all the books. And what was the result? The first day the teacher tells them, "You don't need the music book." The next day, "Leave your drawing pad at home, we do not teach drawing."

Now I can see you grin, but what do you know about this from the second grade teacher? "Leave your arithmetic at home. I will give you all the arithmetic you need."

And now you will say, "That proves nothing against the consolidated school. That is the fault of the teacher or principal." But I tell you, no. Here is the trouble: One teacher cannot handle three or four grades and teach all the subjects any

better than she can handle the district school on the district plan. The only advantage of a consolidated school is to have a graded school, which is all right if it can be worked out, but it is too much to expect of children 7 to 9 years old to put in 9 or 10 hours a day either on the road or in the schoolroom.

That of itself is a very strong argument against the consolidated school, but the strongest argument I know of is the general dissatisfaction here where it has been tried until 7 out of every 10 would gladly go back to the district plan if they could get a decent per cent of their money out of the building they have.

Cherryvale, Kan.

The best proof of the pudding is in the eating and the experience related by Mr. Church does look discouraging. So far as the difficulties of getting the children to school are concerned, they will probably be overcome in time. The roads will be kept in better order and a motor wagon will take the place of the slower conveyance hauled by horses. A motor wagon ought to make the extreme distance of six miles easily in 30 minutes and if the children leave the schoolhouse promptly at say five minutes past 4, the ones having the greatest distance to travel would be at home before 5. In like manner the most distant of them could leave home at 8 in the morning and arrive in time for school.

Mr. Church does not mention the number of teachers in the consolidated school, but I cannot understand why any one teacher should have to handle as many as four grades. There were four teachers in the original districts. I would suppose that there would be three in the consolidated school. I assume that the consolidated school does not have more than nine grades. Having had some experience as a teacher a good many years ago in a country school, I could hardly agree that it is just as easy for a teacher to handle eight or nine grades as to handle three or four.

However, the statements of Mr. Church are certainly worth considering. He is a man who writes intelligently and I rather suspect has at some time been a school teacher himself. Still, notwithstanding the fact that the consolidated school down there

Let's cut loose from the School Book combine. State publication is the way out.

—ARTHUR CAPPER.

has not been the success it was hoped it would be, it seems to me the objections mentioned can be overcome. I cannot help thinking that the consolidated school plan will sooner or later be generally adopted.

WANTS TO KNOW ABOUT OUR INHERITANCE LAW.

Editor Mail and Breeze—In your excellent paper I find that you make room for "Fassing Comments." So I infer that you will be as obliging in answering a question. In your state what share of the property does the law allow the wife, and in case of her death could said share be demanded by their children? What division of real estate held in her name could be made by them? Then in case the husband died first, would the demand for a settlement of the estate require the affirmation of one or all of the heirs? And will you give a simple procedure that will insure both the husband and wife the possession of their own in case of the demise of either?

Colorado.

J. A. S.

1. Under our law the wife is permitted to hold property separate and apart from her husband. If, for example, she owned a farm or other real estate prior to her marriage the title still remains in her name and she could dispose of it without her husband's consent.

2. Where the property is held in the husband's name at his death the widow is entitled to one-half and the children to the other half.

3. In case the property is held in the husband's name, in case of the wife's death before the death of the husband, he holds all of the property. The children would be entitled to no share until after his death.

4. If the wife held property in her own name and died without will before her husband, he would inherit half of it and her children would inherit the other half.

5. The law provides for the appointment of an administrator to settle estates where there is no will. It is not necessary that all the heirs, or any of them for that matter, unite in a request for the appointment of such administrator.

6. In case of the death of the husband the law provides the widow shall be appointed administrator unless she is incapacitated from performing the duties. As I said, in case of the death of the wife before that of the husband, there would be no administration unless she had property in her own name, in which case, in the absence of a will, the husband would be appointed administrator unless he also was incapacitated.

AGRICULTURAL YEAR BOOKS.

Senator Curtis writes that he has some 45 or 50 sets of Agricultural Year Books on hand that he will send to Kansas farmers on application so long as they last. There are 14 volumes in the set and they will be a valuable addition to any farm library or to a farm institute. If you want a set of these really valuable books send your request to Senator Curtis at once

Truthful James

"It irritates me at times," remarked Truthful, "to hear tenderfeet talk about the weather. Men who have spent their lives sitting around in warm offices will talk to old timers like myself about cold weather and warm weather and hot weather and blizzards they have seen. They make me weary. What they don't know about weather would fill a large book. If they had had some of the experiences I have had they might talk in a way that would interest me. In the past 40 years I have experienced all kinds of weather, but when I start in to relate facts they grin and intimate that I am a liar.

"Now, for instance, there was the blizzard of 1875. That was what might be called a real storm. I was holding a bunch of cattle on the Rattlesnake that winter. When the blizzard came a-whoopin' and a ragin' across the prairie it looked as if it was goodbye vain world. I drove the cattle, 500 head, down into a canyon to try to get some shelter. I finally got them bedded down in the canyon and then I huddled down right in the middle of the herd. The mercury dropped down to 47 below zero and then froze stiff. I don't know, of course, how much lower it would have gone if it had had a chance.

"There was just one thing that saved the lives of them cattle, and mine. As they breathed the breath rose to the top of the canyon and then it froze over. In half an hour there was a solid roof of ice over the top of the canyon made up of the frozen breath of them cattle. As they breathed the ice roof got thicker till it was 4 feet thick, just solid, frozen breath. That shut off the wind and made it just like being in a tight house.

"When I saw how it was I gathered some brush and kindled a fire, knocked a hole in the ice roof to let the smoke out and stayed there perfectly comfortable till the storm was over.

"The blizzard lasted three days. When I got out after the storm I commenced to realize how blamed cold it had been. I noticed something up in the air that looked like a bird. After a little, when the weather had warmed up, it fell to the ground and when I picked it up I found that it was a prairie chicken that had undertaken to fly against the blizzard and froze stiff in the air. And then the air froze around it and held it there 25 feet from the ground for three days.

"There are a lot of these tenderfeet who scoff at that story of the ice roof over the canyon formed of frozen cattle breath, which shows deplorable ignorance on their part."

"The winter of 1885-6 was another tough one. The grass and everything else that cattle could eat froze so that there was simply no feed. It was wonderful how some of the cattle did manage to pull through. I had a cow that wintered through on snow balls. Just snow balls, icicles and a few frozen osage oranges that she managed to pick up.

"Of course, she was somewhat run down when spring opened up, but fattened up when the pasture started in the spring. It turned out rather better than I had hoped for, though. As a result of living on snowballs and icicles all winter that cow gave down nothing but ice cream instead of milk all summer. We had ice cream three times a day and sold the rest in town.

"The cow was a good producer and she furnished ice cream for all the church suppers that summer in addition to supplying the house. But I got sort of tired of ice cream having it that way three times a day, so that I never have cared for it since."

Fables Up-To-Date

A man who was the father of a colicky infant was obliged to spend the night hours walking the floor carrying his offspring and tried to soothe it by a song. His wife, wakened from slumber in the next room, began to criticize him on the character of the music he was furnishing, saying that his voice lacked harmony.

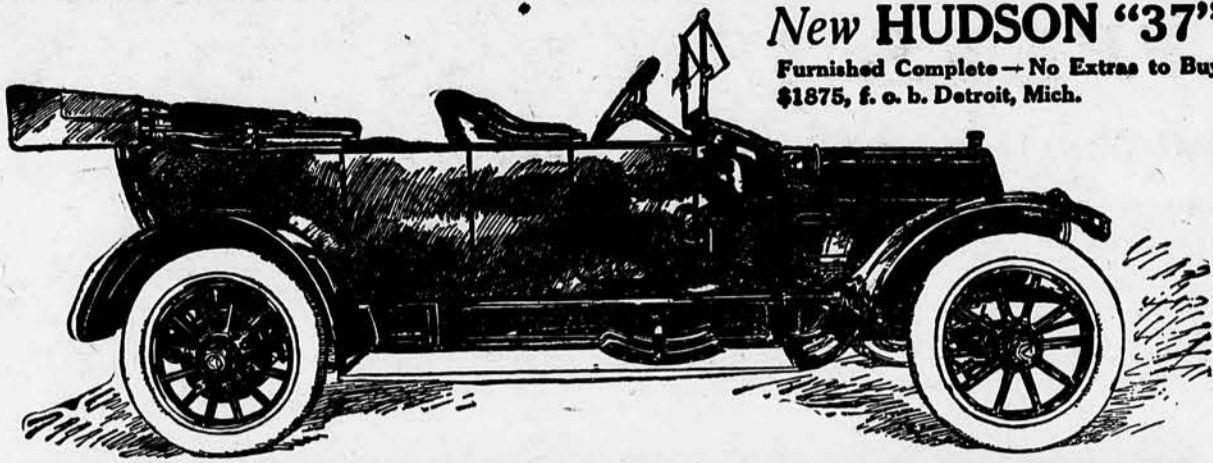
"This child," answered the weary father, "is not hankering for grand opera. What he wants is a noise that will fit his pain."

A fox, which was the smoothest politician among the animals, one evening spied a fat hen roosting on the limb of a tree and commenced to compliment her on her beauty and grace. He told her that she had never been properly appreciated and that he was organizing a movement that would give her the privileges and place in society to which she was entitled.

"There is that proud peacock strutting around posing as a leader in bird society and claiming all the honors," said the fox, "and yet he never was of any earthly use. It is time that he was displaced and you installed as the real leader. Come down and join my party and I will see to it that you are placed at the head of the push."

And the fool hen, caught by his flattery, came down.

A wise rooster sitting on another limb who overheard the talk put up by the fox, remarked as he saw him grab the hen and make off toward his den, "If it wasn't for the fact that there is a fool chicken hatched every minute, that fox would have been out of business some time ago."



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It is the four cylinder masterpiece of the largest engineering board in the automobile industry.

Howard E. Coffin built six famous cars, more than any other engineer. He never created a failure. He has always led in four cylinder construction. Yet even he could not have conceived so remarkable a motor car as has this great body of experts by combining their ideas.

They have built a simple car, one with several hundred fewer parts than the others in its class and simplicity is the keynote to low up-keep. You have noticed this if you have ever owned a car of complicated design.

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7580 Jefferson Ave., Detroit, Mich.

KANSAS AS A FRUIT STATE PAST, PRESENT, FUTURE

Written For Farmers Mail and Breeze
BY WALTER WELLHOUSE

Secretary Kansas Horticultural Society

Editor's Note.—Kansas grows the best Jonathan apples in the world. Whenever we get ready to grow them right and grow enough of them every year to make a count there will be no trouble about a market. Reading between the lines that is what Secretary Wellhouse intimates in this article. He also indicates there are overlooked opportunities in Kansas for peach raisers. He cites as proof that Kansas is beginning to take an interest in commercial fruit growing, that one Kansas county (Doniphan) shipped more than 1,000 cars of fruit last year. He advocates as an investment a fund to enable the Agricultural college to carry on the work of improving and breeding up Kansas fruits. It would be money well spent.

WE CAN JUDGE the future only by carefully scanning the past. Kansas has grown and is growing fine fruit, which when properly picked and packed, is in demand on the world's market. One solid train load of apples from a Kansas orchard



Walter Wellhouse.

was shipped to Baltimore, and from there sent to Hamburg, Germany by steamer. One Kansas county shipped during 1912 more than 1,000 car loads of fruit, of which more than 200 were strawberries.

We have considerable advantage in near markets. The man who likes fruit growing, and who will carefully select his soil and varieties, and practice up-to-date methods in cultivating, trimming and spraying, and who will display ordinary business ability in picking, packing and selling, will succeed, not only in growing good fruit, but in making money at it.

When the first commercial orchards were planted not much was known of combating injurious insects and diseases. Spraying was in the experimental stage. No dependable spraying machinery of sufficient capacity was manufactured. The commercial grower was compelled to design and manufacture his power sprayers. Today such apparatus of several manufacturers is so complete as to leave little room for improvement. Two orchards were inspected by the writer lately, that had been thoroughly sprayed, and in which the owners were packing 99 per cent No. 1 fruit. Other

orchards, not sprayed, ran largely to No. 2 fruit and culls.

The number of fruit trees has decreased somewhat in late years, because destroyed by insects, fungous disease and neglect, but where intelligent care has been given to orchards on suitable soils, and of proper varieties, increased yields and profits have been realized.

It has been the experience of the older states that fruit has been raised for the first four or five decades without much effort other than planting the trees and caring for them in a casual way before noxious insects and fungous diseases seriously interfered. This fruit history has been repeated in Kansas and it is now not possible to grow

There is, however, much land that will produce fine fruit in profitable quantities.

In 1861, when Kansas became a state, there was very little cultivated fruit growing on our soil. There were only a small number of fruit trees at the Indian Missions. The fruit borne by these gave but a slight indication of Kansas possibilities in fruit culture. Many pointed to the treeless prairies as showing that cultivated fruits would not grow in Kansas soil.

Lieutenant Pike, in his report of this country in 1806, said it could sustain a population for a few years only because of the scarcity of timber. Yet, along the watercourses where protected from prairie fires, the wild fruits

varieties succeeded beyond the expectation of most planters. The trees and vines grew well and produced large and handsome fruit abundantly. Noxious insects and fungous diseases, that now mar the fruit in neglected orchards, did not then annoy.

In 1869 our orchards were producing fruit of such quality that it was determined to make an exhibit at Philadelphia in competition with eastern fruit. Kansas fruit won a gold medal at this exhibition. By the early '70's there were many small orchards bearing, not only enough fruit to supply home needs, but quite a quantity was shipped to other states.

In 1876 the first commercial apple orchard, 117 acres in extent, was planted in Kansas, the first in the United States outside the state of New York. Many hundreds of acres have since been set in orchard fruits on a commercial scale. In 1878, when the first enumeration of fruit trees was made, there were found to be in Kansas orchards 5,076,475 apple, 196,624 pear, 8,307,940 peach, 319,290 plum, and 1,032,799 cherry trees. The largest number of trees in Kansas orchards as shown by the census was:

- In 1893 for apples, 12,408,050 trees.
- In 1894 for pears, 408,674 trees.
- In 1883 for peaches, 10,668,624 trees.
- In 1889 for plums, 1,222,078 trees.
- In 1892 for cherries, 1,950,291 trees.
- In 1890 one firm grew and sold very profitably 200 carloads of apples.

Many of the first pear orchards set were attacked and destroyed by blight before much fruit was produced, however, that grown was of such good quality that efforts were made to grow this fruit notwithstanding this fatal disease. Now there are many pear orchards which are vigorous and healthy. In 1912, probably one of the largest crops of this fruit ever produced in the state, was grown.

Seedling peaches planted in the first decade of the state's existence gave abundant crops, but were soon replaced by the more desirable budded sorts. Many luscious specimens have been shown at our fairs, and have gladdened the heart of the housewife at canning time. Although this fruit has sometimes been killed in the bud by the low temperatures of occasional winters, and been destroyed in the blossom by late spring frosts, yet, upon the whole, the growing of peaches has been satisfactory and remunerative.

It has been said, and generally accepted, that the early plantings of suitable varieties

KANSAS SHOULD PERFECT THE JONATHAN APPLE

TAKE our Jonathan apple for example. The tree is hardy and a strong grower, the fruit is nearly perfect, but if it could be taught, as it were, to bloom later, and with a stronger stem, hold the fruit longer it would be still more desirable. This is a work that should be carried forward continuously. Our State Agricultural College is doing good work in training our young men to properly plant and care for our future orchards, but it is thought by many fruit growers additional appropriations should be made by the state to enable the college to carry on the work of improving and breeding Kansas fruits. Kansas has led in other good works, why not this?

—Walter Wellhouse.

fine fruit without caring for the orchard properly. Some of our growers have not practiced nor profited by the widely disseminated knowledge of best methods to combat the enemies of the orchard, consequently their fruit has been of poor quality.

When the first plantings were made not much was understood of soil requirements. The production was so good that it was thought all Kansas land would grow fruit abundantly, but, in later years, this has been found to be true in a measure only. We have, as other states have, some soil that is not particularly adapted to fruit growing.

were found in many varieties. Wild plums, grapes, crab apples, persimmons, cherries, red haws, mulberries, elderberries, blackberries, raspberries, dewberries, gooseberries and strawberries were found by the early settlers.

The pioneers wished for something better than the wild fruits and began planting the grafted and budded trees of varieties grown in other portions of the country. Many of these did not flourish in our, to them, new climate. Gradually by investigation and trial, a list was evolved that has proved fairly satisfactory.

The early plantings of suitable varieties



WHILE NOT AS GOOD AS THE JONATHAN IN THE ESTIMATION OF MANY, THE WINESAP HAS NUMEROUS FRIENDS

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COMBINING SOIL SEED AND TILLAGE INTO GOOD CORN

How One Kansas Corn Raiser Does It BY J. T. BRISTOW

Written For Farmers Mail and Breeze

Editor's Note.—Mr. Bristow is a member of the well known Kansas family of that name and a cousin of the senator. This may account for his progressive record in agriculture. He is one of the slowly increasing band of corn raisers and corn breeders in the northeastern part of the state who may at no distant day beat the famous Indiana corn breeders at their own game. The bushel of Mr. Bristow's improved variety of Boone County White shown on the cover page of this week's Mail and Breeze strengthens the prophecy. It is believed the readers of the Mail and Breeze will find this account of Mr. Bristow's methods more than interesting.

KANSAS can and does grow mighty good corn—but she has only about half reached her corn-growing possibilities. Henry Field, Iowa's most noted corn expert, while judging the corn show at Atchison's last corn carnival told me the exhibit there—all Kansas grown—was among the best he had ever seen.



J. T. Bristow.

I have been invited to tell Mail and Breeze readers something about the bushel of big corn featured on the cover page of this issue, and of the writer's notions and experiences as a grower of high-quality corn in Nemaha county. Strong soil, purebred seed, and progressive methods of tillage is the combination responsible for the 80-bushel per acre field of corn from which this bushel was selected. This bushel will, in my judgment, measure well up to the best bushel of corn ever grown in Kansas, or anywhere else for that matter, and the picture is worth studying on that account. As may be observed it is not coarse and unshapely like so much of the big-eared corn, but it bears all the marks of good breeding, and carries as well a size that would make any farmer's heart glad.

This corn is a special breeding of improved Boone County White—the giant breed of all corn. It was selected from a field of this variety grown on my farm at Wetmore, Kan. It was grown on old, tile-drained, bottom land. Scientific methods of tillage were employed as nearly as possible. The ground was first disked and cross-disked early in the spring, cutting the old stalks and loosening up the soil to a depth of 4 to 5 inches in the two operations. The field was then plowed 7 to 8 inches deep and harrowed each day after the plow. The plowed ground was in part disked and harrowed again just before planting. The seed, purebred and of proved vitality, was graded to a size, and checked in with an edge-drop planter, 3 kernels to the hill, May 7-11. A beating rain packed the ground before the corn came up and the ground was harrowed lightly again to break up the crust. This harrowing unquestionably saved the stand. Although retarded by a week of cold wet weather the corn all came up and made a perfect stand, and notwithstanding its endurance of a rather severe spell of dry weather in July it made a grand good crop.

The corn was given four and five cultivations, the last two rather shallow—just enough to keep down weeds and stir the ground without "ridging" the corn. Much of this corn was too big to plow by June 27. The plan was to go through the field again with one-horse, five-shovel rigs, but owing to a severe windstorm which tangled up the tall corn this idea was abandoned after a few acres had been covered.

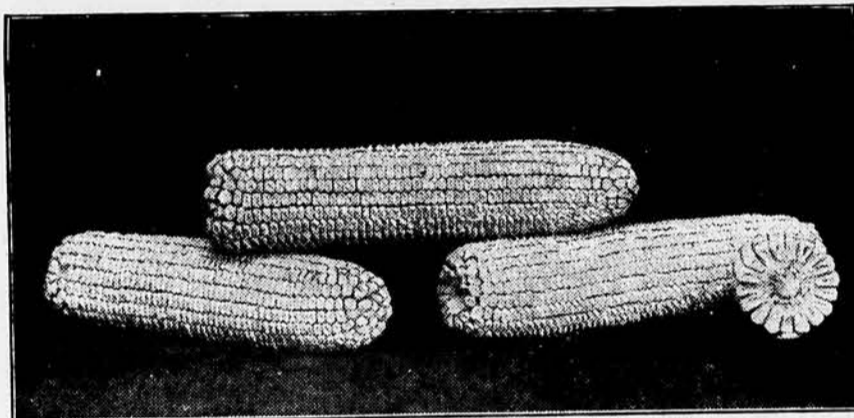
I believe that under progressive methods of tillage, as adopted on this farm, a good crop may be counted on any season. Even in the extremely dry year of 1911 this land under simi-

lar treatment yielded 55 bushels of good round corn to the acre. As compared with the multiplied results this method is not expensive. All the work in producing this crop was done by paid help—men with teams, by the month and by the day, and the labor cost was \$5.85 per acre. I paid 4 cents a bushel additional for husking and delivering the corn at my seed house in Wetmore, 1 mile distant from the farm.

My idea of good corn cultivation is to begin with the preparation of a good seedbed—make the ground mellow so that it will work easily—and then plow close to the young corn just as soon as the rows can be followed,

planting. A portion of one field not handled in this way showed a shortage in growth of a foot or more when the corn was waist high.

I thoroughly believe in progressive ideas in farming, but I can lay no claims to being a full-fledged scientific farmer. In fact I am in a sense no farmer at all. My position on this farm is to direct the work as I think it ought to be done, stay in the field to see that it is done right, and pay the bills. By this method of procedure, and the installation of a system of tile-drainage totaling nearly 5 miles in extent, I have turned this farm, which under the uncertain ways of tenants was anything but satisfactory,



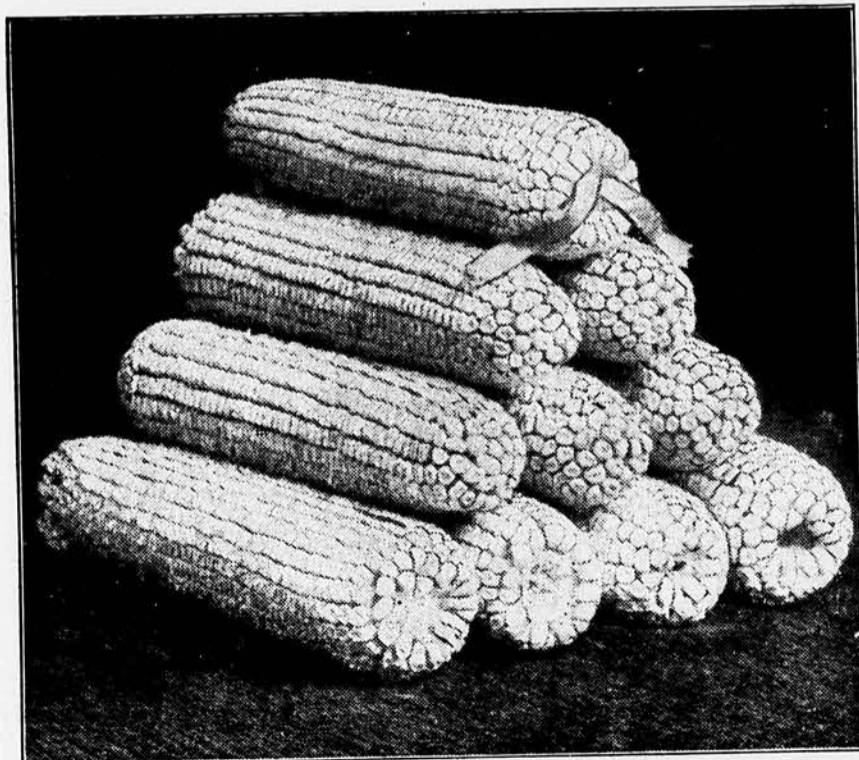
SUTTON STRAIN OF BOONE COUNTY WHITE GROWN ON THE BRISTOW FARM, NEMAHA COUNTY

and plow as often as possible and as long as possible. When I was a boy I sometimes cultivated the planter marks before the corn came up, when we had a particularly foul piece of ground to deal with. My father had plenty of boys and he often sent one out with me to ride the cultivator and drive the team while I handled the plow. If I had foul ground now I would follow this plan.

Thorough cultivation at the right time is, in my judgment, very important. When unfavorable weather delayed cultivation last season I put on extra teams at the earliest opportunity. I find also that it pays to disk and work the ground down well before

into a highly productive and profitable piece of ground. Sixty to 80 bushels of corn to the acre is now grown where only 30 to 40 bushels was grown before. If you have wet ground, by all means file it. It will warm up your soil and make your corn mature earlier and better.

I want to emphasize the importance of wellbred seed as a factor in obtaining satisfactory corn yields. As is generally understood, the fine varieties of corn we have today have all been bred up to their present high excellence from the very inferior corn found in possession of the Indians by the early white settlers of this continent. High bred corn as we have it



TEN MORE WHITE EARS OF THE SAME VARIETY

today may be relied on every time to respond generously under good treatment, but like all other creations governed by the laws of nature, if it is not kept up to a fixed standard, it will show a strong tendency to go back to its original state. To burden your high-priced land with degenerate seed is an unpardonable mistake. This is a point to be remembered when you want to grow that 100-bushel per acre crop for which we are all striving.

Seventeen years ago I fitted out my brother for farming on one of my places and secured for him from a reliable grower high-bred seed corn of a big white variety. The result was a crop of 75 bushels to the acre on upland the first year. After two years my brother left the farm and in the succeeding three years as many different tenants occupied the place. The same corn was kept on the farm during the five years and each tenant was allowed to go to the crib and select seed from the preceding year's crop to plant. At the end of five years you never would have guessed that it was the same fine type of corn that we had started with. Each tenant had followed different lines of selection, or more probably no definite lines at all, and thus they bred all the good qualities out of that corn without knowing it. Other farmers are now doing this same thing, unconsciously perhaps, but nevertheless markedly detrimental to the highest possibilities of corn production. I have in this way come to believe that it is a positive disgrace for any farmer to plant degenerate corn when good seed may be so easily had.

The corn breeder does not rely on selection alone to keep up the quality of his corn. He maintains a breeding plot where a record of the highest-yielding ears are kept and perpetuated, and made pure by a system of detasseling to prevent inbreeding.

Government figures place the 10-year average in the corn belt at 30.9 bushels per acre—a most unsatisfactory yield to the progressive farmer. On high-priced land, and with high-priced labor, there is little, if any, profit in growing 30-bushel corn. As the years pass and the natural fertility of the soil becomes exhausted, it is absolutely certain that more advanced measures must be more generally adopted to maintain a satisfactory average yield.

The reason for this low average is in my judgment two-fold—depletion of the soil and slack methods of tillage. The change from the old way to the better way is not always the easiest thing to do, but it is the correct thing to do. The average farmer, either through choice or financial circumstances, is impelled to try to get the most ready money out of his ground that he can each year under the conditions as they exist, without consideration of future possibilities or profits through the upbuilding of the soil and more thorough methods of tillage—which if generally adopted and put into practice would easily double the corn yield, with acres to spare.

I admit that on ground of which the natural fertility of the soil has been greatly reduced through continuous corn culture and other abuses, it is questionable if the returns would warrant the added expense of extraordinary tillage, but on naturally good ground, and on poor ground made good by the use of clover or other fertilizing agencies, there is absolutely no question about it. I am confident that most any farm in this section could be made to yield more corn on half the acreage at a reduced cost per bushel in growing it, and the other half of the farm could be put to other profitable crops.

My observation has been that farmers generally—owners and tenants alike—try to handle too much land. It is the case in this section of the state and I presume it is so elsewhere. The

(Continued on Page 13.)

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Leidigh's Answers TO FARM QUESTIONS

Conducted for Farmers Mail and Breeze by **A. H. Leidigh, Department of Farm Crops, Kansas Agricultural College.**

How to Plant Spanish Peanuts.

I have a 10-acre lot I wish to plant to corn and part to Spanish peanuts for hog feed next year. Is it necessary to hull the peanuts before planting? Can I plant them with a lister? I would plow the ground early and run the lister very shallow if I could get plates to plant the nuts properly. I am trying to figure some crop that I can turn my sheats on next fall. I have alfalfa and want something to fatten them.—**R. L. T., Smith county, Kansas.**

The best practice probably with Spanish peanuts in central-western Kansas is to soak the seed in the pod 24 hours before planting. You can plant in the lister, provided it is very shallow, but I do not think you can get a plate which will drop peanuts. Spanish peanuts are very successful in loose, warm, sandy soils, but they have not been much of a success in northern Kansas this last year. I would not advise you to attempt their production on too large a scale, as all things considered; I believe corn, milo, or Kafir and alfalfa are the standard crops to count on for the production of hog feed. I refer you to any of our well-known Kansas seed houses for seed of Spanish peanuts.

A. H. Leidigh.

Other Crops Better Than Vetch.

Will sand vetch do well in this part of the country? Can it be sown after oats and make large enough growth to plow under in fall as fertilizer? How and when is it sown to raise seed? Also for forage. Does it make as good a forage crop as cowpeas?—**H. C. G., Allen county, Kansas.**

We have raised sand vetch at this station. On account of the high price of the seed, the comparatively small yields secured, and also because other successful crops can take its place, we do not ordinarily recommend it highly for this state. It will require from 45 to 90 pounds of seed to plant an acre, and the price ranges from \$7 to \$12 per bushel. The forage produced by the crop is about as large as that of cowpeas or alfalfa, but it is difficult to harvest. You can obtain an excellent bulletin on Vetch by writing to the Department of Agriculture, Washington, D. C. You can obtain the seed from any of the well-known seed houses, advertising in this paper.

A. H. Leidigh.

Getting Sod Ready for Corn.

I have 75 acres of sod to break, some being heavy loam, covered with a dense growth of bunch grass. I want it for corn. When had I better break it? Is the middle of March too early? Is there any danger of ground souring if plowed early and triple sod cut and listed to corn?—**J. B., Kiowa county, Kansas.**

In your part of Kansas I should expect no bad results from plowing raw sod land at any time of the year when you can afford to do the labor. As a general proposition fall or early spring plowed sod land can be put into rough shape for corn by plowing from 1 1/2 to 2 inches deep, disking two or three times and then listing from 1 to 2 inches deeper than it was broken. Such land should not be planted to corn before May 1. The corn ought to be gone over at least twice with the two-row disk lister corn cultivator, and then cultivated just as if it were old land. If you turn under a heavy growth of bunch grass, it will be almost impossible to get this land into reasonably good shape in time for corn, but I believe it would be as desirable to get it into rough shape for corn and not be able to cultivate much. The only other way to do would be to burn all the bunch grass then get the land into a good state of cultivation. Why don't you try either Kafir or Milo on this land? If you get any dry weather they will greatly out-yield corn.

A. H. Leidigh.

How Put Kafir Land in Grass.

I have about 10 acres of ground I wish to sow to grass for pasture this spring. This ground is clean, having been in Kafir last season. How should it be prepared and what kind of seed should be sown?—**E. A., Coffey county, Kansas.**

Unless your land is in a high state of fertility, and you have considerable moisture this spring, I would not plant it to grass. Under ordinary conditions Kafir is not a very good crop to plant just

before grass. If you think that you must plant grass on this land this year, my advice would be to give it comparatively shallow preparation, plowing 4 inches deep as soon as possible, and I believe if I could plow 2 inches deep I would do so. I would then harrow and otherwise work this land down during February and seed to a mixture of:

- 10 poundsMeadow fescue
- 5 to 10 poundsOrchard grass
- 5 to 10 poundsKentucky bluegrass
- 6 poundsTimothy
- 6 poundsRed clover
- 2 to 4 poundsSweet clover

Seeding should be done according to your best judgment, but I would get the crop in about as early as I could in March if impossible to plant late in February. If you desire to use a nurse crop, plant about 1 bushel of oats with the above mixture. I am asking to have sent you under separate cover a bulletin No. 175.

A. H. Leidigh.

How Sweet Clover May be Seeded.

Will Sweet clover start in a pasture or does it have to have a plowed field? After it has once started will it come up from the root or does it start from seed every spring? My pasture is sandy land and the wild grass is easily tramped out. I would like to get some grass that will stay and make lots of pasture. I'm too far north in Oklahoma to find Bermuda a success.—**S. O., Grant county, Oklahoma.**

Sweet clover has been yielding from 1 to 3 tons per acre on the Experiment Station farm at Manhattan. It is described briefly on pages 389 and 390 of Bulletin No. 175 which we are sending you under separate cover. In addition to the information therein given the following may be of interest.

White Sweet clover is the variety we advise using. If intended for either hay or pasture it must not be allowed to get old and woody. When cut early for hay it yields well and makes a hay almost as rich as alfalfa. For quick results in improving soils it is also to be preferred to alfalfa. For other purposes if either Red clover or alfalfa can be grown, they will be found to be more desirable. If however, these crops cannot be grown because of climatic or soil conditions, then we advise the use of Sweet clover as the most valuable substitute.

Farmers Bulletin No. 485 on Sweet clover may be obtained upon request from the Secretary of Agriculture, Washington, D. C. Sweet clover may be started in pastures in all but our driest spring seasons, by scattering over the ground during the late winter. A better practice would be to harrow or lightly disk these pastures. For best results for hay do not cut too close to the ground. The plants live two years, and if kept reasonably well cut after producing a crop of seed it will die.

A. H. Leidigh.

Thickening a Stand of Alfalfa.

Last spring I sowed about 3 acres to alfalfa as an experiment. It was dry last summer but there was a fairly good stand with roots from 6 to 8 inches long. It is new ground and last year considerable crabgrass got into it. How may I get rid of this crabgrass and how and when may I put in more seed?—**C. C., Vinita, Oklahoma.**

Crabgrass in this state always comes up during the middle or late summer months. When the ground is covered the growth amounts to very little. On the other hand when there is no covering on the soil this grass will make a rank growth. It is an annual and cannot be considered dangerous except in very wet, hot seasons. You will find that it will disappear where the alfalfa is thick. It will of course, grow again in the thin places. It is usually somewhat difficult to thicken a stand of alfalfa. We have found one of the best methods to be to disk or run an alfalfa renovator over the field at the time the last crop is removed. Harrow the thin places thoroughly, scatter the seed and top dress with manure. If the old alfalfa makes much of a growth and has too much tendency to shade the ground or to use too much of the soil water it would be well to keep it clipped for some time. The seed should be applied during the month of September. It has a fair chance and is ready to make a rapid growth when spring comes and does not have to compete with weeds and the old alfalfa to the extent that spring seeding will. Of course, if the conditions are very unfavorable in the fall there would be no use in trying to thicken the stand at that time.

O. O. Churchill.

Oklahoma station, Stillwater.

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Seed Law Needed to Save Kansas From Weeds

(Continued From Page 3)

low Dent, Boone County White, Champion White Pearl. Carefully selected, shelled, sacked and graded. \$1.50 a bushel.

"I would like to know what your test is." Note.—Boone County White, 76 per cent germinated; Champion White Pearl, 50 per cent germinated; Hildreth's Yellow Dent, 30 per cent germinated.

From T. O. Gibbon Grain Company, Hartford, Kans., June 28, 1910.—"Please give me name and brief history of this plant. It is becoming very plentiful around here, being introduced by some clover seed shipped in here. Would a person sowing this seed have any recourse?"

Reply of station botanist to preceding letter—"The plant you send for identification is known as wild lettuce. It is a bad weed in the Eastern and Middle States, and is beginning to get in here. The only recourse you have is to sue for damages where you can prove actual damages. There is no state law under which a man can be prosecuted for selling bad seed. I would advise you when you buy seed in the future to send samples in advance to this department for analysis. We can then tell you whether there are any weed seeds in your samples."

French Weed Spreading Fast.

From T. Geyer, Leavenworth, Kan., May 27, 1911.—"Enclosed is a plant which is coming in my alfalfa and seems to be spreading quite fast. What is it, and how harmful is it likely to prove?"

Note.—Identified as French weed.

From Lillian R. Shaw, College—"On Wednesday while attending the meeting at Olathe, President Waters secured the enclosed specimen from W. M. Johnson, one of the farmers of Rosedale, Kans., and promised him that you would make a report to him regarding it."

Note.—Identified as French weed, a pest which is very troublesome in the northern states.

From T. J. McCreary, Highland, Kan., July 1, 1912.—"I am sending you a weed. I sowed some alfalfa seed this spring and this weed is all through it. They claimed the alfalfa seed was imported from Germany. I tested it and it tested 92 per cent. Is this a dangerous weed?"

Note.—Identified as Sweet clover.

Roquette in "Fancy Seed."

From J. T. VanPetten, Washington, Kan., September 2, 1912.—"I enclose a plant which has come up in my alfalfa field that I sowed with fancy seed. Please tell me if it will be injurious to the alfalfa. Will it pay to pull it out this fall? It is not thick."

Note.—Identified as Roquette.

From Robert Rayl, Dighton, Kan., August 28, 1911.—"I sowed about 70 acres of alfalfa last spring. In going through it today I find a peculiar weed, or vine. This vine, wherever it touches alfalfa or weeds, wraps around them and seems to grow right on them and kills the top of the plant. I cannot find where it ever grows out of the ground, but it takes root on anything it touches, and seems to sap the life out of whatever it clings to. I enclose a little of it wrapped around a Russian thistle. Have you ever had any experience with anything of this kind?"

Note.—The weed was dodder.

Weed Seed at \$13 Per Bushel.

From C. Chamberlin, Carbondale, Kan., July 6, 1910.—"I have taken your advice of last Saturday (given at Topeka), and forwarded you two samples of alfalfa seed. Please examine as soon as possible and reply."

Note.—Mr. C. paid \$13 per bushel for this seed which contained more than 2 per cent Sweet clover.

From Phil Heigle, Parkerville, Kan., August 8, 1910.—"In regard to seed analysis No. 1254, would like more of your advice. We are very anxious to sow 40 acres of alfalfa this fall, but it seems we cannot get good seed. I have sent you five samples and they do not seem to test very well. The last sample was supposed to be exceptionally good, so we got an option on 500 pounds at \$20 per hundred. Now what I want to know is, can we get better seed? If so, where?"

Note.—Sample No. 1254 at \$20 per hundred contained dodder, Sweet clover (2½ per cent), and mustard.

From E. E. Hazen, Secretary-Treasurer Kansas Sheep and Wool Growers' association, Hiawatha, Kan., August 3, 1912.—"I send you another sample of alfalfa, for analysis. Their price is \$12.50 per bushel, but it looks to me as though all of the cheaper seeds were no good. Do you not believe that your department could be of much service to us, if, whenever you get a good sample of alfalfa seed from parties who would guarantee it, you would write and inquire prices, and so be able to tell us where we can get good seed?"

All Contained Russian Thistle.

From E. E. Hazen, Hiawatha, Kan., June 20, 1910.—"You say it will pay me to use a better grade of alfalfa seed. That is what I am trying to do. I sent a sample a short time ago, of which only 65 per cent would grow. I am sending you two samples that look good to me. You need not germinate them. I will do that here. The Agricultural college should advocate a seed law. We are going to seed Kansas down with bad weeds that will cost us dollars to eradicate, and it is all unnecessary. I am of the opinion that if Manhattan favors a law of this kind the legislature will pass one, for you know the farmers know that something should be done."

Note.—The following were found in Mr. Hazen's six samples: No. 1220, Russian thistle and foxtail; No. 1221, Russian thistle and foxtail; No. 1225, Russian thistle and lambsquarter; No.

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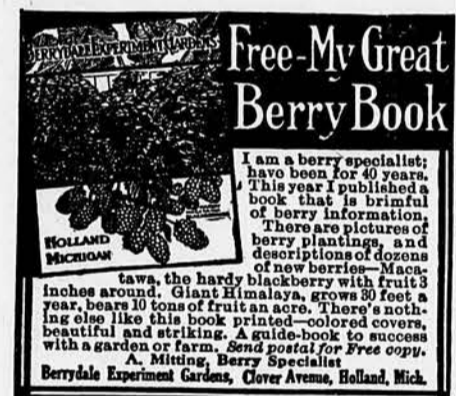
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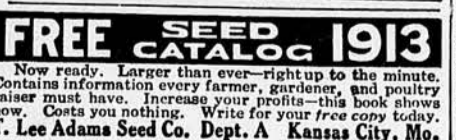
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1257, Russian thistle, Sweet clover and dodder; No. 1263, Russian thistle.

From W. B. Mann, Hewins, Kan., October 25, 1910.—"I am sending to you sample of alfalfa seed, of which I have sown about 100 acres this fall. Also I am sending under separate cover sample of the grass found growing among the alfalfa. Some of my neighbors tell me the grass is Johnson grass."

Note.—In this case the price of the seed was no guarantee of its purity. Fall sowing did not prevent a bad weed from getting well established. See the following letter:

100 Acres in Johnson Grass.

Reply of the station botanist to the preceding letter.—"I wrote you yesterday informing you that the grass you sent for identification was Johnson grass. Today I beg to send herewith on the back of the present letter, our analysis of your alfalfa seed. The alfalfa seed appears to be very good seed and pure, except for the presence of 4-10 of 1 per cent of seeds of Johnson grass. There were 60 seeds of Johnson grass in the entire sample of alfalfa seed which you sent. This would make 780 seeds to the pound, if the bulk of the seed contained the same proportion as the sample sent to us. Sowing the alfalfa at the rate of 15 pounds to the acre, you would get 11,730 Johnson grass seed sown per acre.

From W. B. Mann, Hewins, Kan., December 4, 1910.—"Yours of the 2nd at hand and contents noted. You wanted to know about the Johnson grass in the alfalfa. It is about evenly distributed all over the entire 100 acres, except a strip of about 3 acres sown with different seed, but on examination of the Johnson grass I find most of the smaller plants with only fine roots are dead, the roots also are dead, but the larger plants with the large underground stems, the tops are killed by the frost and freezing, but the roots are living and look fresh as ever."

Weeds in Sweet Clover Seed.

Charles Hayden, of Holton, Kan., sent our office a sample of Sweet clover seed for analysis. We found it to contain seed of buckhorn, dodder, black mustard, roquette, sour dock, wild carrot and other weeds. Mr. Hayden was immediately advised not to buy the seed represented by the sample. Following is the letter received from him, which speaks for itself.

Holton, Kan., December 9, 1912.—"Your favor concerning Sweet clover seed, analysis, No. 1822, is at hand, for which please accept thanks. I had ordered 300 pounds of this seed before receiving your report, but on calling dealer up on the phone this morning I learned that the seed had not been shipped. I feel under great obligations for your prompt report of analysis, which fortunately reached me in time to countermand my order."

From the correspondence above quoted it will be seen that there is abundant cause for complaint over the state, with respect to the market condition of agricultural seeds.

Other States Have Seed Laws.

Maine, Kentucky, Dominion of Canada, Iowa, Wisconsin, North Dakota, Tennessee, Wyoming, South Carolina, Virginia,

Washington, New Hampshire, North Carolina, Michigan, New York, Idaho—all these states have seed laws, most of them good, some of them poor. The movement is spreading over the United States, and it will not be long before every state in the Union will regulate its seed trade.

Following are some of the reasons given by a few of the principal states for the passage of their seed control acts.

Maine.—"In order that the farmer might be able to find out, if he so desired, what quality of seed he was buying."

Wisconsin.—"The constantly increasing number of native and introduced weeds to be found on Wisconsin farms has caused a rapid decline in the price of weed-infested lands, and created general alarm among farmers. Nearly all of our most noxious weeds have been introduced in many different ways: winds, floods, or shipments from Europe and Asia in importations of clover and alfalfa seeds. The purchase and seeding of grains and grass seeds which contain seeds of these weeds have been far the most prolific source of noxious weed distribution in the state. The introduction of obnoxious weed seeds from European and Asiatic countries with farm seeds will only be stopped when laws are made preventing the importation and sale in the United States of foul and adulterated seeds. Practically all European countries have seed control stations varying in number from 1 in Italy to 23 in Germany. Contaminated seed or seed of low vitality is exported. As there are no laws in the United States to prevent, most of this foul seed is shipped to this country to be sold as cheap seed to American farmers. Often this poor seed is mixed with a better grade and sold as "choice" and at a much higher price than it is really worth."

New Hampshire.—"This law was the outcome of the general agitation for a better

quality of agricultural seeds which is being made by those interested all over the country. A number of other states have enacted similar laws which have operated for the improvement of seeds in regard to both purity and vitality, and so satisfactory have been the results that indications are it is only a matter of time until we shall have federal legislation establishing seed control stations which shall have supervision of all seeds offered for sale in any state."

Virginia.—"It is a matter of congratulation that the interest of the executive department and legislative departments of our state government has become so keenly awakened to our agricultural interests, and the necessity for enlightened and progressive agricultural legislation. Along these lines with the other states in this all important movement. In nothing has more substantial good to our farmers been accomplished than the law passed at the last legislature known as 'The Agricultural Seed Law,' having for its object the improvement of the quality of our agricultural seeds and the elimination of impurities and weeds."

Why Kansas Needs a Seed Law.

The examples of the complaints that are continually coming in to the seed office of the Kansas Experiment station speak for themselves. There are certain seeds that should be absolutely prohibited from the trade. These are bindweed, Johnson grass, quack grass, Canada thistle, and Sow thistle. All of these are perennial weeds of the worst sort, the spread of which means the ruin of agricultural land. Dodder should be restricted to a minimum. At present it is impossible, without imposing unreasonable restrictions on legitimate business, to prohibit dodder absolutely. It should be admitted however, only on a minimum basis of say not more than six seeds of dodder to the ounce—a restriction the trade could comply with. Later, dodder should be absolutely excluded from all seed sold in the state.

Besides the weeds that should be absolutely forbidden, such noxious weeds as wild oats, chickory, dock, Russian thistle, foxtail, crabgrass, wild buckwheat, cheat, mustard, French weed, pepper grass, shepherd's purse, wild carrot, buckhorn, and broad plantain occur in our agricultural seed. These seeds should be guarded against. At present they may occur in any or all agricultural seed, and yet the purchaser may have absolutely no knowledge of the fact.

A seed law should be enacted which would require seeds to be labeled, and the label to state what, if any, of these noxious weed seeds are found in the sack or package of seed in question.

WORLD'S GREATEST SEED CORN—"GRAND CHAMPION" WHITE. TWO POUNDS FREE TO EACH SUBSCRIBER.

I am going to give free to my subscribers a limited quantity of the world's purest and best seed corn—"Grand Champion" White—grown from the bushel which was awarded first prize at the Omaha Corn Exposition, Omaha, Nebraska, and for which I paid \$280.00 cash.

I gave some of this seed corn to Mr. H. V. Cochran, one of the most expert seed corn growers in America, and the seed which I offer here was grown from the prize bushel and you will find it the equal of the original bushel, which brought perhaps the highest price ever paid for a bushel of seed corn.

The corn is a large pure white, deep grain, matures in less than 100 days and is an extra heavy yielder.

I have had this "Grand Champion" corn put up in one-pound packages, all ready for mailing.

As long as my supply lasts I am going to give it away on these very attractive offers: Two pounds of corn and a year's subscription (new, renewal or extension) to Farmers Mail and Breeze—for \$1.00. I will also give you two additional pounds for each new yearly subscription you send me, other than your own, at the regular rate of \$1.00 a year.

You pay nothing for this corn—it is mailed to you, postpaid, as a free gift for your own or your neighbor's subscription to The Mail and Breeze at the regular rate—2 pounds with each yearly subscription.

I have only a very limited quantity and can secure no more at any price when this supply is gone. Send your subscription or renewal at once. If too late, I will notify you and return your money. Address,

Arthur Capper, Publisher Mail and Breeze, Topeka, Kansas.

Fresh stable manure on the garden will usually do as much harm as good unless very fine. Old, rotted manure is the stuff for gardens.

SEEDS Best that grow. We sell direct to gardeners and farmers at wholesale. Big beautiful catalogue free. Write today. Box 82, SEDALIA, MO.

REAL SNAPS IN NURSERY STOCK

- 50 Concord Grape Vines, \$1.
- 12 Budded Cherry Trees, 2 to 3 ft., \$1.
- 16 Apple Trees, assorted 2 to 3 ft., \$1.

Free Catalog and 25c Due Bill on request.
Benson-Omaha Nursery, Benson, Neb., Dept. 5.

CLOVER CHEAP Now is the Time to Buy. Prices bound to be higher later. Buy before advance and save money. Write today for special low price and free samples of our Pure Iowa, Brown Now Crop Reclaimed Tested Clover and Timothy Seed. Have alfalfa, Alsike, sweet clover, all kinds grass seed. Write us now. A. A. BERRY SEED CO., Box 135, Clarinda, Iowa.

Seed Corn Reid's Yellow Dent, Boone County White. Strictly pure bred, grown on our own farms from extra choice seed. Quality, good as the best. We won 1st in Capper Corn contest for best single ear in state and 1st for best 20 ears at Missouri State Corn Show, 1912. Guaranteed to please you. Send for samples and prices.

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Greenwood County Nursery SPECIAL PRICES ON CATALPA SPECIOSA. General line of nursery stock including apple, peach, pear, cherry, plum, apricot, quince, grape vines, etc. Plants, roses, shrubs, rhubarb, asparagus, etc., also black locust. Certificates of inspection with each shipment. OUR 1913 CATALOG GIVES VALUABLE INSTRUCTIONS how to plant and care for trees, shrubs, fruit and ornamental trees. Write or drop postal today for this valuable catalog.

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E. W. MARTZ SEED CO., CRUNDY CENTER, IOWA.

RELIABLE TREES Complete assortment fruit, shades, ornamentals and lots of Forest Tree Seedlings, especially the true Catalpa Speciosa, Russian Mulberry and Black Locust. We save you agent's commission and pay the freight. Send for our new catalog and wholesale prices. It pays to buy direct from a reliable grower.

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Greatest Yielding Corn Direct from farm to you. If you write QUICK I can supply you with **High-Quality Seed CORN** The kind that will make your heart glad. Sold under positive guarantee. Supply limited. Home demand great. Going fast. Write TODAY for descriptive literature.

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SEEDS BY MAIL We pay postage and guarantee the quality. Just send your name today for our money saving catalogue of Field, Garden and Flower Seeds, Trees, Bulbs, Plants and Poultry Supplies. Our "Dependable" grades are the best obtainable. **SELECTED DRY FARMING SEEDS** WRITE TODAY.

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- 50 Concord Grapes, \$1
- 10 Budded Cherries, \$1

Hardy, vigorous stock is guaranteed. We quote all nursery goods at right prices—our reputation is based on shipping only a thrifty stock. Send for 25c Due Bill and Catalog, Free.

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Box J FAIRBURY, NEB.

SEED CORN ST. CHARLES RED COB WHITE CORN THE BEST CORN FOR ENSILAGE. Grown only in St. Charles county, Mo.; buy direct and get the genuine article. Write for prices.

LOUIS F. MARTEN, - St. Charles, Mo.

Fruit Growers Manual Free Shows how to plant and care for an orchard, when to spray, etc. Tells how to make \$400 per acre from cherries and \$300 from berries—\$500 from grapes and \$200 from Apples. I have an agency for apple trees, cherries, etc.—Grape Vines \$2 per 100. Forest Seedlings—Plum—Dulse—Seed Corn. I guarantee better trees for less money. Your money back if not satisfied. Prepaid postage. Get this free catalog at once.

D. HANSEN, The Nurseryman,
Box 13 Established 1880 Fairbury, Neb.

Hill's Evergreens Grow Best for windbreaks. Protect crops and stock. Keep house and barn warmer—save fuel—save feed. Hill's evergreens are hardy, nursery-grown—low priced. Get Hill's free illustrated evergreen book and list of Great Bargain Offers—from \$4.50 up per Thousand. 56 years experience. World's largest growers. Write.

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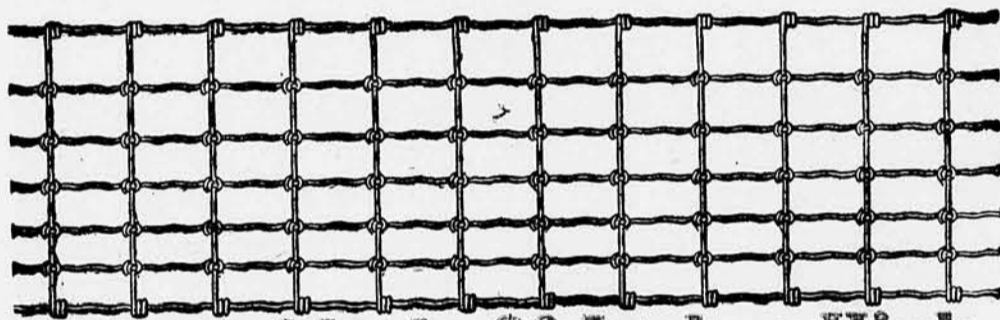
Save One-Half of Your Fence Money

Buy Direct From the Factory

Don't pay dealers and middlemen 50 to 100 per cent extra for fence. Buy direct from the factory and get **better fence, and save 5c to 20c a rod.**

I'll sell you one rod or ten thousand and **guarantee** you lower prices than any dealer or mail order man in the country. Only one profit—that's the secret—direct from the factory to you. We buy wire by the train load when the market is at the lowest point and give our customers the benefit of the saving. Our fence today ready to ship is costing us less than others are paying for the wire alone.

Look at This!



17 ¹/₄ c

6 ³/₄ Inch Mesh, 26 Inches High

every foot of Ottawa fence is sold under a **positive, iron-clad, money back guarantee.** If you don't like it **better** than your money—if **anything** you buy of us is not the **best value you ever saw** for the money **send it back** and we return your money by first mail. Ottawa fence is made from the highest grade of hard, tough, springy wire, **thoroughly galvanized, warranted to stand weather conditions anywhere.**

Guaranteed to Hold

The Ottawa non-slip tie is guaranteed to hold under any and all conditions. It is made by my own patented process, and I know what it will do. If it **ever slips** the least fraction of an inch, take it down, roll it up and send it back—I'll gladly return your money. I've made this same guarantee for years, and not a single rod has ever been returned. The Ottawa Tie **holds forever.**

Here Are Some Price Smashers

18-inch hog fence 11 1-2c rod	48-in poultry fence 24 1-4c rod	42-inch heavy field fence 23 9-10c rod
24-inch " " 14 1-4c rod	60-in " " 27 1-4c rod	50-inch " hog " 26 1-4c "

Big Fence Catalog **FREE**

If you want to buy fence, gates, windmills, stock tanks, pumps, or gasoline engines (1½ to 12-H. P.) at wholesale prices—cheaper than you can any other place in the country, write me today for our complete four-color catalog. It tells you all about our big factory line—saves you \$20.00 to \$100.00 every year. We make 78 different styles of fence, every kind on the market, 54 different gates—and gasoline engines at prices so low that you can't afford to be without one. Get this catalog. It's a **money saver.** Write for it today sure. Use the coupon, letter, or postal.

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Gentlemen: Please send me by return mail all postage charges prepaid, your big 4 color Fence Book with factory price list.

Name

Town

State

Corn Land Grows Strawberries

BY JACOB FAITH.

[Written for Farmers Mail and Breeze.]

THERE is no other fruit which gives as quick returns on the investment as strawberries. Commercially the strawberry is the most profitable crop in the fruit line, and for beauty, health and delicious flavor it is excelled by no other.

I have grown strawberries for more than 40 years, tested more than 100 varieties and have raised 400 bushels to the acre. Thirty and 35 years ago I sold strawberries at 25 cents to 30 cents per quart, and people would say, "They are a luxury and only for the rich." But this was true when

strawberry culture was not understood. Every home now can have fresh ripe strawberries for six or seven weeks by planting the early and late ripening varieties. Planting in early spring is best, say from the middle of March to middle of April.

Land that will produce potatoes and corn will grow strawberries, but the richer the ground and the better the cultivation the bigger the berries and the yield. Plow the ground well, harrow it level, mark off with corn planter. For small patches stretch a line to enable you to get the plants in rows, set 18 to 30 inches apart, using a spade or dibble

beginning with those that ripen earliest. The varieties known as "Perfect" have perfect blossoms and will fruit by themselves. Those known as "Imperfect" or pistillate varieties have to be fertilized with perfect flowering varieties every third or fourth year.

Excelsior—(perfect). Very early, ripens in May, medium to large in size, dark red and good shipper.

Crescent—(imperfect). Very productive, medium size, good plant maker, will endure much neglect. I have grown them five years in the same bed, and they will last two years without cultivation and make a fair yield.

Senator Dunlap—(perfect). Very productive, medium to large in size, very dark and red, a good shipper.

Bubach—(imperfect). Very large, one of the best for family use and home market, but too soft to ship.

Aroma—(perfect). Very large, glossy red, productive, the best late shipper. At Sarcoxie, Mo., and other places Aromas are grown by the carload. We have had Aromas a week after all other varieties were gone.

Eldorado Springs, Mo.



Jacob Faith.

Combining Soil, Seed and Tillage

(Continued from Page 9.)

fact that in extremely favorable years fairly satisfactory corn crops may be grown under slack methods of tillage covering large acreage is the incentive that moves them to try it over and over again. To put it the way one farmer has explained it to me, they choose this way because of the chance it offers for fair return on small outlay of labor, but



Every farm should have its strawberry bed for nearly every farm has soil adapted to its culture. They should be planted in rich loamy soil that is easily stirred but will hold moisture well.

to make the holes; move the handle to and from you, which makes a fan-shaped hole for the roots. If the roots are too long, cut off about 4 inches and set plants about 1/2 inch deeper than they grew in the bed. If the ground is dry, pour some water to the roots. Old plants that have borne fruit are worthless for planting.

Cultivate often and don't let the ground get hard or weedy. Let the cultivator pull the runners into the row and level off the ground. I use a prong potato digger for this purpose. The plants should not be closer than 4 inches apart in the rows. The first season after planting, if the blossoms are pinched off, the strength will go to make stronger plants for next year's bearing, instead of making a few berries the first year.

As soon as the ground freezes in the fall mulch about 1 inch deep. Prairie hay, half rotted, is best. Half rotted straw clear of wheat or cheat will do nicely. I have seen strawberries ruined by wheat and cheat at ripening time. Mulching is the last work strawberries need until picking. If mulching is too thick and tends to smother the plants, loosen and lift up so the plants can come through. Mulching will keep the ground moist and the berries clean, as well as preventing weeds from starting.

The long list of over 300 varieties now in cultivation puzzles the inexperienced planter. I will name a few varieties best adapted for our soil and climate,

the really good crop under this procedure comes too seldom to make the venture worth considering. The average farmer knows better, but he appears always ready to take one more chance—the gamble is still in him. If he can get a good crop on large acreage with a minimum amount of expense, he wants it. This practice is in my opinion one of the worst forms of gambling, and this one thing alone is costing Kansas and the corn belt states millions of dollars every year.

I am convinced also that the highest success in farming is to be had through rotation of crops, and I am changing over my ground as fast as practical to clover and alfalfa to be followed in turn with corn.

When and Why to Prune

What is the proper season for pruning fruit trees?—M. B. Hamlin, Kan.

February is a very good month to prune or it may be done any other time in late winter prior to the starting of the sap. Pruning at this season is done to get rid of old and surplus wood and to stimulate new wood growth. To stimulate fruit bearing pruning should be done in June.

The most convenient and cheapest of all disinfectants to use in the cellar is quicklime. It may be placed in dishes, in bins or cupboards, or scattered loose in dark, damp corners.



THE Mitchell is the best automobile for you, because it is the most efficient, powerful, reliable and convenient automobile ever offered to you at a moderate price.

You know that those are the four qualities your car must have; the Mitchell has them and many others that you will like.

The power and efficiency come from the new Mitchell T-head motor with the real long stroke—six and seven inches.

The reliability is guaranteed by the high standards maintained through 78 years of vehicle building. You have learned what the Mitchell name means—the best of workmanship and materials.

The unequalled convenience of the Mitchell automobile is due to the left hand drive with center-control, the electric starter and the electric lighting system.

Comfort is assured by the extra long wheel base; the deep upholstery and the French Belaise springs.

All Mitchell 1913 cars have left drive and center control; Bosch ignition; Rayfield carburetor; Firestone demountable rims; rain-vision windshield; Jones speedometer; silk mohair top with dust cover; Turkish upholstered cushions; Timken front axle bearings; gauges on the dash to show air pressure and oil pressure; gauge in gasoline tank showing amount of gasoline it contains; and a portable electric lamp which also illuminates the instruments on the dash.

All with T-head motor, electric self-starter, electric lighting system, and 36-inch wheels

	Motor	Wheel Base	Prices F.O.B. Racine
7 passenger Six	60 H. P. 4 1/4 x 7 in.	144 in.	\$2,500
2 or 5 passenger Six	50 H. P. 4 x 6 in.	132 in.	1,850
2 or 5 passenger Four	40 H. P. 4 1/4 x 7 in.	120 in.	1,500

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D. F. P. E.

Big Apples by Irrigation

BY SHERIDAN PLOUGHE.

Along with grain farmers and gardeners, fruit growers are waking up to the possibilities of irrigation in the sections where the distribution of rainfall is uncertain. Mr. Ploughe gives some striking facts and helpful information concerning this comparatively new aid to fruit growing in Kansas. It is a part of his address before the State Horticultural society.

JUDGE H. WHITESIDE of Reno county has a fine orchard, properly sprayed, trimmed, and cultivated. Last summer he irrigated his orchard. He sowed and I reaped, for I bought his crop of apples. In looking over his orchard before buying,



Sheridan Ploughe.

I counted little on the Missouri Pippins. They were small then (October 5) and I did not think they would grow much more, nor add much in color. But the irrigation of July and August showed here. The apples grew large instead of falling as they usually do. They got redder and redder and larger, and some of the finest Pippins I ever saw were gathered from that orchard. The percentage of No. 1's was raised from our estimate of October from 15 to 20 per cent to over 60 per cent. The number of bushels harvested was twice what would have been taken from the trees had they had no water.

Size Doubles the Price.

Increasing the size of an apple from 2 inches in diameter to 2 1/4 inches and the capacity of that apple to fill up the box at picking time is increased 27 1/2 per cent. Add another 1/4 inch and you have added 67 per cent to its capacity to fill up your box. You have raised the grade of the apple in the first instance from a cull to a choice, in the latter instance, from a choice to a fancy. You have increased the value in the first case from 20 cents a bushel to 50 cents, and when you add the last 1/4 inch, you have added another 50 cents to the value of your box of apples. You have done more than this. You have decreased the price per bushel of picking and packing. It takes longer to pick and much longer to pack a 2 1/4-inch apple than it does the apple that runs over 2 1/2 inches in diameter. A fancy apple sells itself, but it takes salesmanship of the highest order to get your price for the cheaper grade of goods.

There is no year but what an artificial supply of water will help. July and August drain the resources of the trees. The growing apple demands moisture, and the leaves pump to their full capacity to supply this demand. The roots are taxed to supply the demand of the fruit and the leaves. If there is only enough water in the soil to keep the leaves growing, the fruit will stop growing and fall off.

Cost of a Pumping Plant.

The additional cost of an irrigating plant, to that which is already invested in land and labor in an orchard is a small item. It costs about \$60 to sink a well in our county. It is made by putting a galvanized iron casing 2 feet in diameter down into the ground. Thirty to 32 feet of this pipe are used. It is from 6 to 12 feet to water. To successfully irrigate there must be a sufficient volume of water to supply the pump. Eighteen to 24 feet of water in the 32-foot pipe will supply a rotary pump with a 4-inch section and a 3-inch discharge pipe. It will require a 5-horsepower gasoline engine to run one of these pumps. It will take 5 gallons of gasoline every 10 hours to keep the engine running. So the cost of pumping will be about 7 cents an hour, for gasoline and lubricating oil, and waste will hardly increase the cost to 10 cents per hour. Such an outfit will pump 250 to 400 gallons per minute, depending on the distance the water has to be lifted.

In one well we use to irrigate cabbage, potatoes, tomatoes and other garden produce, the lift of the water is about 6 feet. This well is the oldest on the place, gets better every year, as the pumping of the water is constantly drawing the fine sand from the ground around the pipe, leaving coarse gravel close to the

pipes, and this makes a reservoir of water outside the well. This well yields 400 gallons of water per minute, with a 5-horsepower gasoline engine.

Capacity and Cost Per Tree.

In our upland orchard, where we raise the water from 18 to 20 feet, the kind of plant I have described will irrigate 50 to 60 trees a day so that it will be impossible to walk over the ground without sinking to your shoe tops. It will

We have had a fine winter for chinch bugs, so far, also a fine winter for burning them. The Lord helps those who help themselves—to chinch bugs.

take one man to run the engine, and lay out the furrows, and watch the water in the ditches. The total cost for 10 hours of gasoline, man and horse would be probably \$3 or about 5 cents a tree. After the ground is thoroughly soaked, it should be harrowed to hold the moisture in nine years out of 10 and you will spend about 10 cents per tree per year for irrigation.

Each well will cost \$50 to \$60, depending on the nature of the soil that you

Cut Down Upkeep

By R. E. Olds, Designer

I have built cars for 26 years—60,000 of them.

But of all I have learned, nothing else compares with these ways for cutting upkeep—shown in Reo the Fifth.

The Final Cost

The buyer sees just the car's first price. But the vital thing is the after cost.

That may be little or it may be much. It depends on the builder largely. And the difference to you, in the course of five years, may be \$1,000.

How I Reduce It

One big item is tires.

In Reo the Fifth I cut this cost by using tires 34x4. They cost \$60 per set more than tires often used on a car of this weight. But they save many times that in tire bills.

I use in this car 15 roller bearings—11 Timken, 4 Hyatt. They cost five times as much as common ball bearings. But they do not break.

I use 190 drop forgings, at twice the cost of steel castings. But drop forgings don't have flaws.

Margin of Safety

Axles and driving parts should show very large over-capacity. I build them all to stand the tests for a 45 h. p. car. That leaves enormous margin.

I have all steel made to formula. Then I analyze each lot twice.

For testing my gears I use a crushing machine of 50 tons' capacity.

I use 7-leaf springs, two inches wide. And I test them for 100,000 vibrations.

Each engine is tested for 48 hours—20 hours on blocks, 28 hours in the chassis. I employ unusual tests.

Each car in the making gets over 1,000 separate tests and inspections.

Costly Items

I use a \$75 magneto to save ignition troubles. I doubly heat my carburetor, for low-grade gasoline. I use a centrifugal pump, not a syphon. That adds about \$10.

I use 14-inch brake drums. I give each body 17 coats, so the finish will endure. I use the best genuine leather in upholstery. Also the best curled hair.

I am using flush electric dash lights in place of the old-style lamps.

All these things are costly. Yet I supply them, through factory economy, in a wonderfully low-priced car.

A car without them is likely to cost five times as much for upkeep. There may be costly repairs, and frequent.

I never would buy a lesser car. Therefore, I never shall build one.

Our \$100 Control

Here is one feature worth \$100 which costs not an extra penny.

It's the Reo center control. All the gear shifting is done by moving one little handle only three inches in each of four directions. It is as simple as moving the spark lever.

The driver sits on the left hand side, as in the latest high-priced

cars. And this control lever is at his right hand.

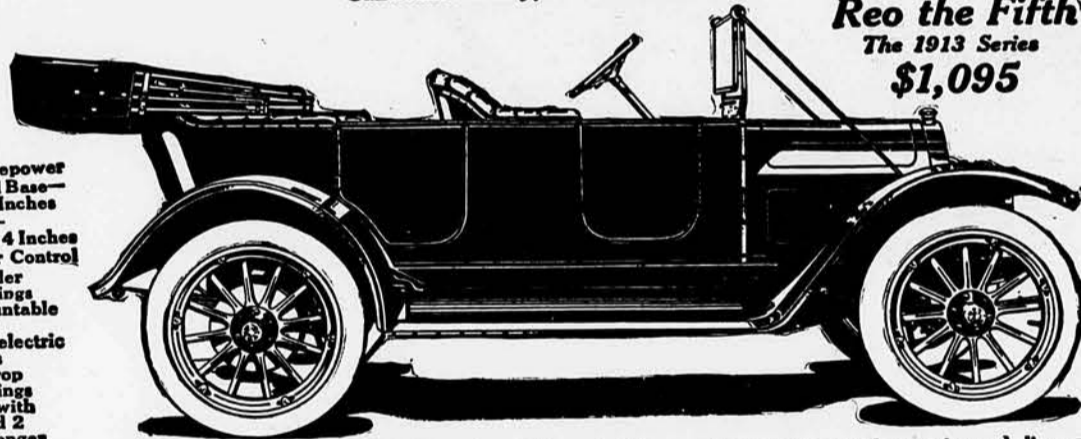
Both brakes are operated by foot pedals. There are no brake levers, so both front doors are clear.

A car in these days should have these modern features.

Sold by 1,000 dealers. Write for our 1913 catalog and we'll tell you the nearest show-room.

R. M. Owen & Co., General Sales Agents for Reo Motor Car Co., Lansing, Mich.
Canadian Factory, St. Catharines, Ont.

Reo the Fifth
The 1913 Series
\$1,095



- 30-35 Horsepower
- Wheel Base—112 inches
- Tires—34 x 4 inches
- Center Control
- 15 Roller Bearings
- Demountable Rims
- Three electric lights
- 190 Drop Forgings
- Made with 5 and 2 Passenger Bodies

Top and windshield not included in price. We equip this car with mohair top, side curtains and slip covers, windshield, gas tank for headlights, speedometer, self-starter, extra rim and brackets—all for \$100 extra (list price \$170).

encounter. A gasoline engine will cost about \$250. A pump will cost \$50 to \$60 and other expenses will put the cost of one well and engine at about \$500. The size of orchard that can be irrigated from one well depends on the lay of the land. There should be one well for every 10 to 15 acres of trees, as the loss of handling the water by evaporation and by over-soaking some parts and under-wetting others will easily pay for putting down an additional well. With a mounted engine it is but a half hour's work to pull the suction pipe and move the pump to another well.

Electric Motors Will Be Next.

If it is possible to do so, electric motors can very profitably be used instead of gasoline engines. Electric lines are being strung over the country so that we expect to substitute motors for engines. A 5-horse power motor costs \$75, as against \$350 for the same power gasoline engine. But where no electric lines are run, the mounted gasoline engine is the power to use.

If you can get the water, either from a stream or from the ground, don't wait until next July to think about irrigating. You don't wait till the fire starts

to insure your property. An irrigating outfit, where water is available, is the best insurance you can get on your orchard.

"ARKANSAS."

Arkansas is at the present and will no doubt forever remain the brightest jewel in the crown of Southern states. The population according to the recent government census has shown a remarkable increase. Arkansas conservatively estimated, is about one-third developed from an agricultural standpoint. While her forests contain more rare and valuable timbers than any of the other Southern states; realty values are lower, and cost of living is less than anywhere else on the American continent for the reason that everything necessary for the existence of man is produced within her borders. The tide of immigration is headed toward Arkansas. Realty dealers are reporting large sales of both improved and unimproved farm lands. Buy while the prices are low. We refer you to the real estate bargain pages or other pages of this issue. Look over the many bargains and write them your wants, always mention this paper when you write.

Kansas Fruits That Pay

They Range From Berries to Apples

BY E. G. HOOVER
Past President Kansas Horticultural Society
Written for Farmers Mail and Breeze.

SPRAYING, pruning, cultivation, with proper varieties and soils, will make almost any fruit, even pears, profitable in Kansas. I could cite many instances of friends and neighbors who have been very successful in fruit growing in this state, that would help the man who is floundering.



E. G. Hoover.

The apple is the fruit that may be depended on to pay and it will pay well when it receives proper pruning, spraying, cultivation. Just to show you what spraying did in 1912 toward making apples a paying crop I want to give a three-year record of our orchards at Wichita. This table shows it:

Grade	Bushels		
	1910	1911	1912
Extra Fancy	293	195	619
Fancy	3,450	967	4,786
Choice	5,981	777	5,912
Thirds	9,945	2,073	2,926
Made into Cider	8,947	507	2,587
Orchard Sales	28,616	4,519	25,347

The extra fancy grade represents apples 3 inches or more in diameter, of

Kansas and yet with a proper understanding of its habits, proper pruning, heading, and control of growth in late summer and fall, this fruit could be made to bear more regularly than it does at present. There is good money in peaches if you are near a market. Mamie Ross, Carman, Champion, Mt. Rose, Belle of Georgia, and Elberta, are good varieties.

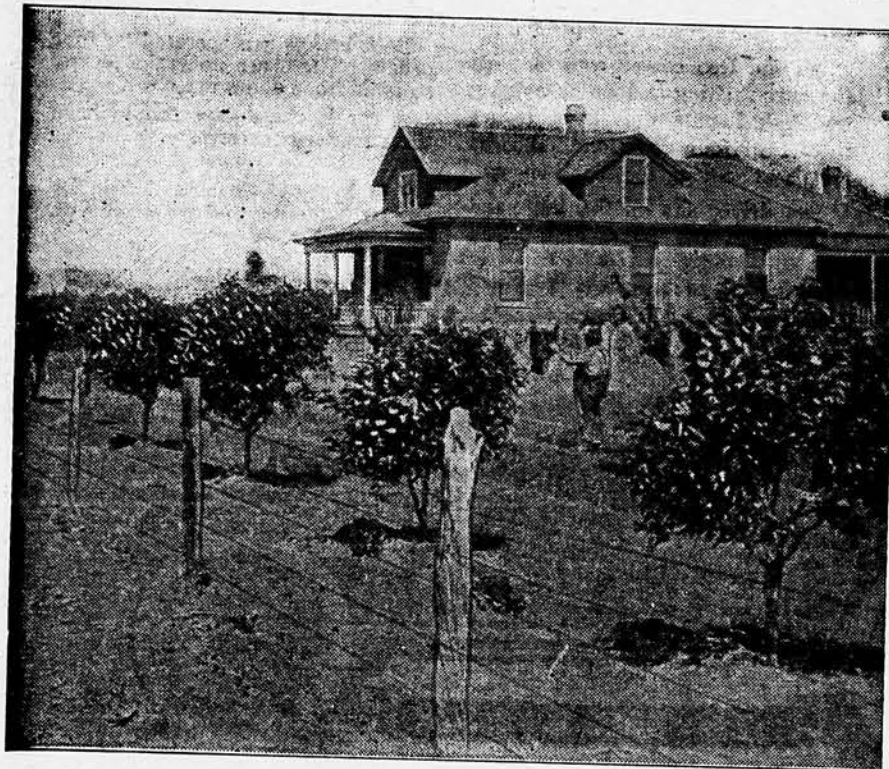
Plums will pay well where properly sprayed. Wild Goose, Burbank, Shiro, and others have responded readily to spraying that held down the curculio and rot.

Apricot growing pays in a way but only about twice in five years will they pull through with a crop. They are particularly good for canning and pies.

Cherries have been among the best money makers among all fruits but the slug and beetle have about annihilated the trees in this state. Only effective treatments for these pests tested and perfected by our experiment station, would induce people to plant heavily again.

The Good Small Fruits.

The grape is easily grown in Kansas and is a profitable fruit to raise when given the right soil, together with proper care and cultural methods. Campbell's Early, Moore's Early, Diamond, Niagara,



The apple is the fruit that may be depended upon to pay and it will pay well if it receives proper pruning, spraying and cultivation.

solid color for the variety, and free from all blemishes and worm marks. The fancy grade includes all apples of over 2 1/2 inches in diameter up to the extra fancy grade, 75 per cent of color, and free from all defacing blemishes and worm marks. The choice grade runs from 2 1/4 to 2 1/2 inches in diameter, with more than 50 per cent of color for the variety and no worm marks or defacing blemishes. The third grade or standard takes light apples of all grades, off shapes, those with worm marks where marks are dry, but no blemishes that will interfere with keeping qualities.

You will note that the seasons of 1910 and 1911 ran largely to the inferior grades, culls and vinegar apples, as compared with the crop of 1912. Injudicious spraying with lime-sulphur and spraying at the wrong time were responsible for this. Last year we used Bordeaux mixture and used it at the right time. The fruit from test trees left unsprayed last spring and summer was practically a total loss from blotch and codling moth. You will note that the vinegar works did not thrive in 1912 but look at 1910. Even that does not tell the tale for hundreds of bushels of the 1910 crop were unfit for any use.

The peach is the "in and out" fruit of

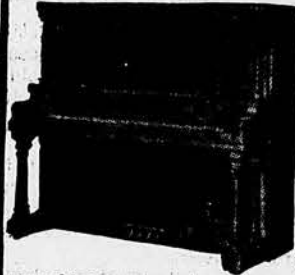
Brighton, Concord, Worden, and many others will do well here.

Strawberries are the earliest fruit of the season. They should be planted in a rich, loose, loamy soil that is easily stirred but will hold moisture well. A good place to plant strawberries is in your pear orchard as your pear trees are held back in blooming by the mulch. The berries will also look better and be fresher for being grown partially in the shade. Every farm should have its strawberry bed for nearly every farm has soil adapted to its culture or it can be made so by manuring.

Blackberry a Money-maker.

The blackberry is the best money-maker of the berry family if properly set out, pruned, cultivated, and taken care of. They like a soft loamy soil, and enough richness to feed them properly. Plenty of moisture but no wet feet, is needed especially during the fruiting season. The plants should be set far apart—about 8 feet between rows, and should be kept in rows not more than 2 feet wide. Each individual vine should have from 10 to 20 inches of room for its own sustenance. Keep weeds from starting by cultivation and maintain an earth mulch during the growing and fruiting

Cornish Sent To You For A Year's Free Trial



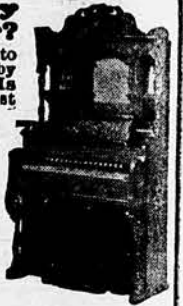
Why Shouldn't You Buy As Low As Any Dealer?

More than 250,000 people have saved from \$25 to \$125 in purchasing a high grade organ or piano by the Cornish Plan—why shouldn't you? Here is our offer. You select any of the latest, choicest Cornish styles of instruments—we place it in your home for a year's free use before you need make up your mind to keep it. If it is not sweeter and richer in tone and better made than any you can buy at one-third more than we ask you, send it back at our expense.

You Choose Your Own Terms

Take Three Years to Pay If Needed. The Cornish Plan, in brief, makes the maker prove his instrument and saves you one-third what other manufacturers of high grade instruments must charge you because they protect their dealers.

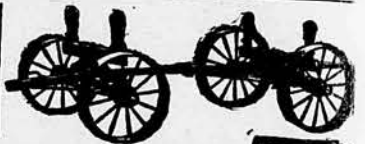
Let Us Send to You Free the New Cornish Book. It is the most beautiful piano or organ catalog ever published. It shows our latest styles and explains everything you should know before buying any instrument. It shows why you cannot buy any other high grade organ or piano anywhere on earth as low as the Cornish. You should have this beautiful book before buying any piano or organ anywhere. Write for it today and please mention this paper. **Cornish Co., Washington, N. J., Established Over 50 Years.**



Save Your Strength—Your Horses, Your Time and Big Money This Easy Way



Get facts now about these low-lift, handy wagons. Save man's work. Save all repair expense. Lighter draft, do not rut roads or fields even on wet ground. We also furnish wheels to fit ANY wagon. Climate can't affect our steel wheels. Spokes don't work loose from rim or hub. Let us prove it. Send postal now for free illustrated book. **Electric Wheel Co., 80 Elm St., Quincy, Ill.**



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Get This FREE Book NOW!

The Ozark farmer is making 5c a lb. profit from pork—are you?



No. 5:—The Ozark farmer enjoys an ideal climate for stock, free from malaria; where sickness is reduced to the minimum; where the purest of running water, fine drainage, mild winters, cool summers and the altitude, keep stock unusually free from the scourges which so often visit other sections.

James F. Crone, near Mountain Grove, spent \$32 for hogs a little more than a year ago, and from that investment has sold pork to the value of more than \$600; besides having meat for his family and 42 head on hand.

And think of the advantage in the Ozarks for dairying! Results speak louder than anything: E. T. Shelpman of Greene County, sold \$1232 worth of cream and butter in a year from 12 cows; T. P. Emmons of Oregon County, sold \$2,054 worth of milk from 20 cows; G. F. Holway, who makes \$10 per month per cow (and gets 65 bushels of corn per acre), says: "I find this country the best for farming and dairying, and I have been in nearly every State in the Union."

Even if you had to pay the same price for land in the Ozarks that is asked elsewhere, you could make greater returns from your investment there; but realize that right now you can get good land at \$12 to \$25 per acre. All in all, it's a proposition that ought to make any man want to know more about it now.

THERE are five reasons why Ozark farmers get 5 cents a pound profit from pork—and they are the same reasons why stock raising of any kind in the Ozarks is so much more profitable than in other sections.

No. 1:—The Ozark farmer has good grazing from April 1st to January 1st—nine full months. Only 3 months of winter (mild at that)—no long expensive winter feeding and very little shelter needed.

No. 2:—The Ozark farmer can produce pork at 2 to 2 1/2 cents per pound on cowpeas, alfalfa, peanuts, etc., which grow so well on these Ozark soils—only a little corn needed a few weeks before marketing, to make the flesh firm.

No. 3:—The Ozark farmer's city markets are so close by, that the net price offered him at his local market is greater than would be offered where the hogs would have to be shipped a greater distance.

No. 4:—The Ozark farmer is offered the highest prices prevailing anywhere—by the dealers in Kansas City, St. Louis and Memphis (price now around 8 cents).

A free book for you!

It's not the kind you can pick up anywhere. Double sized pages, 75 actual photo pictures of farms—some in full color. Written by a man who knows farming. Takes up the Ozark sections, county by county, and describes the farming conditions there. Also tells actual experiences of Ozark farmers. I haven't many copies of this book on hand; please drop me a postal to-day for your free copy.



FRANK ANDERSON, Director of Development, 1504 Frisco Bldg., St. Louis, Mo.



season. Watch for rust and keep it out by taking up the wilted vines which are the first outward symptom. One of our growers had returns last year from a 1 1/2-acre patch, amounting to nearly \$600. It is safe to say that \$400 of this was net profit.

Everybody can grow the gooseberry and there is money in them but it is necessary to first make a study of the markets.

Raspberries and dewberries are two fruits with which I am not so familiar but there is no question as to the money to be made in growing them. This is true particularly of the raspberry. My neighbor has a dozen Cardinal hills which netted him \$53 in a season, but the vines winter-killed.

In conclusion I should like to say Kansas has a horticultural society that is of great benefit to its members. Every fruit grower in the state who will join its membership and help along the cause of better fruit, will find it will help him greatly. Wichita, Kan.

Catalpas Grow on Corn Land

BY CHARLES A. SCOTT, State Forester, Manhattan, Kansas.

[Written for Farmers Mail and Breeze.]

Mr. Scott will be glad to answer questions or advise the readers of Farmers Mail and Breeze in regard to trees or tree planting. Address him at Manhattan and say you want an answer in Farmers Mail and Breeze.

IN REPLY to scores of letters asking about the hardy catalpa, I can only repeat what I have said a great many times. The catalpa is the most valuable and most desirable tree for post and pole production that can be planted in the eastern half of Kansas. It is adapted for planting on any land that will produce a crop of corn. The requirements of the two plants are practically the same so far as soil conditions are concerned. The larger the growth of corn and the heavier the yield, the larger the growth of the catalpa



O. A. Scott

The catalpa will always make its greatest growth in the deep, rich, moist soils found along our creeks and rivers. It grows successfully on land not more than 4 feet above water level. An occasional flooding is not objectionable to it except as the trees may be injured by driftwood. Some of the best growths in the state are found along little creeks where they are flooded from three or four to a dozen times a year. In one instance along the Kansas river a 4-year-old plantation of catalpas was inundated for 10 consecutive days without injury to the trees.

Land upon which the catalpa will not grow successfully is wet, poorly drained soil or very thin soil, underlain by gumbo or where the gumbo shows on the surface. Very light sandy soils with a sandy or gravel subsoil are also undesirable for the catalpa. However, it will grow successfully on comparatively sandy soil if there is a firm subsoil within 2 or 3 feet of the surface.

The catalpa speciosa commonly known as the hardy catalpa is the only species that is worth planting. Every planter should be absolutely sure he is getting the genuine speciosa. He can be sure of this only when he buys from reliable dealers who have given special attention to securing seed from trees that they know to be absolutely true to name.

Year old seedlings, 15 inches in height and upward are the most desirable size and the most satisfactory for extensive planting. As a result of a careful study I have come to the conclusion the most satisfactory spacing both in regard to ease of cultivation and in securing a satisfactory growth, is 3 1/2 by 7 feet. The rows should be 7 feet apart and the trees placed 3 1/2 feet apart in the row. This will require 1,800 trees per acre. By spacing the rows 7 feet apart it allows for growing a row of corn between the rows of trees the first season. This, in a measure, offsets the cost of cultivation and also utilizes the ground that would

otherwise be idle the first year. After the first year the trees will cast too heavy a shade to permit growing anything in the rows between them, but cultivation will be necessary.

Seven foot spacing allows the use of either the corn cultivator or the disk harrow between the rows. Intertillage during the second season is necessary because catalpas when 2 years old are too large to be straddled by a cultivator. Continuous cultivation until the trees are of sufficient size to completely shade the ground and keep down all growth of weeds is very necessary in order to prevent an excessive growth of weeds that will provide an abundance of cover for rabbits.

Rabbits are very fond of the bark of the hardy catalpa, and it is folly to set out a grove of trees without making

ample provision for protection against such injury, and the best protection is clean cultivation. Rabbits seldom frequent groves of young trees where there is not sufficient growth on the ground to provide cover for them.

Cultivation may be discontinued after the third year and the trees will need no further attention until they are of sufficient size to cut for posts or poles. This will be when they are from 12 to 16 years of age, depending upon the size of the material wanted and the character of ground on which they are grown.

Circular No. 20 of the Kansas Experiment station covers in detail the care and cultivation of the catalpa. This circular may be had on application to the director of the Experiment Station, Manhattan, Kan.

They All Want Waters

It isn't the longest resolutions that say the most. The Frankfort Farmers' Institute recently instructed its secretary, R. S. McGhie, to forward a copy of the following terse and unanimous expression of its sentiments "to the press" and the president-elect, Woodrow Wilson:

Resolved, That the Farmers' Institute of Frankfort, Kan., in session assembled, unqualifiedly recommend to President Woodrow Wilson, for his favorable consideration, the name of Hon. H. J. Waters, president of Kansas State Agricultural college, for a place in his cabinet as secretary of agriculture. We urge the appointment on account of his peculiar fitness and high standing as an authority on nation-wide agriculture.

The Mail and Breeze is one of the best papers that comes to our home.—R. J. Robinson, Vona, Colo.



Bill Galloway Says: "I Want to Send YOU One of My 1913 Model Spreaders Right to Your Farm—FREE!" Not One Cent to Pay—No Bank Deposit Thirty Days' Trial Absolutely FREE!

Just Send Me The Coupon—Do It To-day

DON'T send me a dollar—no, not one cent! Keep your money—let me take the risk. And I'll do it willingly. Just tell me—"Galloway, I'm willing to give your new 1913 spreader a good, fair trial at your risk." That's all I ask. You'll get the spreader just as quick as I can ship it. Test it any way you want to. Then decide whether you want to keep it on this amazingly liberal proposition or send it back and let me pay the freight both ways. I'll put it squarely up to you and I'll accept your decision without a word or question. Now let me tell you briefly

Why I Am Making This Offer:

use than you could by reading all the ads I ever wrote. So I'm just going to send you the spreader itself and let you be the judge. I want you to put it through every test you can think of. Take the toughest, tramped-down, unrotted slough-hay manure from the calfyard. If it's frozen, so much the better. Drive out into the field—get your team into a fast trot AND SLAM IT IN GEAR! Do that again and again, and AGAIN! Then, if you can find any fine, powdered manure, load it in and see how it handles that. Notice how easy it is to load the low-down body. See how easily two horses can do the work it uses up three or four horses to do with the big, horse-killing types. Examine the exclusive patented features. It's the only double-drive spreader on the market having power furnished by BOTH wheels alike to move the load and run the beaters. It's the only roller-bearing spreader. It's the only endless apron, force-feed spreader. This feature alone makes the Galloway worth \$25 more than any other spreader in the world. Notice how the pull between the wheels is brought entirely upon the reach, making it not only the lightest, but the strongest and most durable spreader known. Use the Galloway a whole month. If that isn't enough, say so, and I'll let you keep it for two or even three months. Then, if you can't honestly say—"Galloway, this is the best spreader in the world"—then I want you to ship it right back to me and I'll cheerfully pay the freight both ways, so that the trial won't cost you one single cent.

Now, I know that you can tell more about my spreader in a half-hour's actual use than you could by reading all the ads I ever wrote.

The Only Way Is the Galloway Selling Direct From Factory to Farm!

If you do decide to keep my spreader, after having had the free trial, I'll put \$25 to \$50 in your pocket right at the start. You don't pay any middlemen's profits—you don't pay any salesman or dealer to help you make up your mind. The whole deal is just between you and me—AND YOU ARE THE SOLE AND ONLY JUDGE.

Now, Here's Something I've Never Done Before:

to tell you how you can get your spreader PARTLY OR ENTIRELY FREE! There's no work, no soliciting, no canvassing—I mean exactly what I say. Can't tell more about it here, but I'll tell you all the details in a personal letter when you write me.

Here's the Kind of Letters I Get Every Single Day

Gentlemen—I received my spreader and came out home and got a neighbor to help me start it. We loaded a load of light manure and drove on solid ground. The machine went off without a hitch—just fine. So we drove back, and loaded a load of heavier manure and tramped it and drove to the field on a piece of soft plowed ground, and my team weighing 2225 lbs. just went right through with it. My neighbor said he could not see any difference in the draft when in gear or out. From what I have seen the No. 4 is as good as you say. Very truly, J. D. GRAY, Elk City, Kan.

Gentlemen.—The more we use the spreader the better we like it. One of the most attractive things about it is its light draft; two horses take it easily, loaded full up, over soft ground. Yours very truly, Wapaccama, W. Va. E. HERRIOTT & SON.

Send the Coupon Now! or a Postal or Letter

Get My Three Great Books FREE!

I want you to get my great book "A Streak of Gold" free. It's the only book of its kind in the world. It tells you how to make manure so valuable that it's just like finding gold on your farm. Explains how to produce manure; how to care for it, how to spread it. It's a regular fertilizing manual in clear, plain English. The regular price is one dollar, but I'll send it free. Then I'll also send my other two handsome big books and a complete explanation of my big 1913 offer.

Now write. Use the coupon or a postal or letter if you want to, but don't put down this paper until you've enclosed this great 1913 offer.

These Big Books FREE



Send this coupon today for FREE BOOKS

\$39.50 and up for Spreader Attachment

\$64.75 and up for Complete Outfit

We carry Spreaders in Stock at Chicago, Kansas City, Council Bluffs, Minneapolis and Winnipeg.



Wm. Galloway President WM. GALLOWAY COMPANY 209 Galloway Station, Waterloo, Iowa.

Name..... Town.....

R.F.D..... State..... We will also send you FREE our new 6-color, big, 144-page general merchandising book—giving 1,000 or more bargains in machinery, buggies, harness, furniture, rugs, draperies, etc.; everything you need for the home.

JAYHAWKER FARM DOIN'S

BY H. C. HATCH, GRIDLEY, KANSAS.

We like to get the experiences, views and opinions of "our folks" on any farm or livestock subject particularly if reasonable and likely to help some of us who may need the information. Your letters are always welcome. Subscriptions to Farmers Mail and Breeze or other good publications for best letters received. Address Editor Farmers Mail and Breeze, Topeka, Kan.

We would like to say a word in praise of the weather if we dared but every time we have said anything about the fine weather the weather has taken a change for the worse.

In feeding stock in such weather as we had up to today, January 26, 2 bushels of corn will do the work of 3 fed in such weather as we had one year ago. Gains are being made quite cheaply everything considered.

Last night we saw some figures in a daily paper. We assume they were true and if so, they show a state of affairs that will astonish many. To be brief, they showed that during the last year the cattle imported into this country exceeded both in number and value those exported. This does not look as though low cattle prices were very close at hand.

We used to chew the rag considerably with foreign countries, Germany especially, for excluding our meat products. Now it makes mighty little difference to us whether or not they take any of our meat. If they wish to eat dog and horse meat, all right. But never again will they get meat piled on the bargain counter as they did 20 years ago. The poorer classes in Europe did not eat meat years ago because the government kept American meat out; now they cannot eat it because it costs too much.

But before we jump onto Germany too hard for her foolish actions in keeping her poor from having enough to eat let us look a little closer at hand and we may see a nation that is foolish enough to keep its poor people from having good, warm woolen clothes. We never did believe in a protection that kept poor people hungry and cold.

One good thing about tankage is that it seems to make the hogs thirsty. A hog, in order to do well, has to drink heartily. If he drinks but little he cannot make good gains. Tankage is good feed, to be sure, but it has one fault, we would just about as soon skin a skunk as feed tankage on a windy day. In summer we will not try to feed it.

A neighbor who has recently sold his farm went to the auctioneers to get a date for his sale of farm property. He found that between now and March 1 they had only two dates open. This certainly means a lot of sales. They are caused by many things. Farms are being sold, many have quit farming and are moving to town and many renters are going farther west. There seems to be a demand, however, for everything that is offered for sale at about the highest prices ever paid.

The human race seems to move west and never, in any numbers east. Practically everyone who moves from here goes west. A very few go back east and most of them come back again. In time we should think the Pacific coast country would get filled up with people but just now it appears that more than half the folks who leave here go to that section. Pretty soon Oklahoma will cut loose with a 10 year series of good crops like those she had from 1898 to 1908 and then the emigration will be to Oklahoma.

In regard to the matter we spoke of a short time ago, of millers selling to farmers as cheap as to dealers, we have had a number of letters both from the miller's and farmer's side. We have nothing to say about the profits of milling, for we know nothing whatever of the cost. What we had in mind was the fact that one miller sold to farmers, who raise the wheat, as cheaply as he did to dealers. Why should not all millers do this? Is not the man who raises the wheat as much entitled to favor as the man who only sells the product? We

have no desire to take away the miller's profit but ask why he cannot treat the main man of the chain as well as he does the least one.

The plowing outfit bought by our neighbors this fall seems to work well. The engine pulls the five plows easily on high gear but the company advised them to use the low gear in plowing. As a traction engine it seems to have plenty of power and they hauled 8 tons and 1,500 pounds of hay to town this week in one jag, going up one pretty steep hill, too. The pulling part is just a matter of getting a foothold for the engine and that is easy this dry winter.

The Blue Sky law of Kansas is a mighty good one and should be strengthened if possible but the man who will consult his banker in regard to investments will never have need of its provisions. We can only wonder at the men who will take the word of a stranger, and a stranger who is after their money at that, in preference to going to their banker for advice. In the business of investing money, in anything outside or land and farm property, the banker is in a position to know the value of the investment better than the farmer and if you will consult him you will find him ready and willing to help you all he can. We do not think we are far out of the way when we say that had the people of Kansas taken the advice of their bankers on all their investments during the last 10 years the amount saved to them would have paid all the expenses of the state government during that time.

There must be a mighty good profit in handling horses these days, judging from the number of horse buyers there are riding through the country. Hardly a day passes but that one drives in to this farm wanting to buy some of the horses we are depending on to do our spring's work. A farmer is foolish to sell off his good mares just because a high price is offered. If he wants to raise good horses in the future he must have good ones to start with. Selling good horses is like selling good farms; it will cost all you receive to get more and then likely they will not be as good. The old Scriptural text: "Hold fast to what is good," is as true today as when it was written.

The time when we had to run to town for repairs for machinery should be nearly at an end. Under the parcels post practically all repairs can be mailed as anything goes under 11 pounds and that will catch nearly all machine parts that are liable to give out. Instead of having the dealer ordering by express to his place of business he will now order it sent direct to the farmer. It will be laid down at his door for about half the old express rates. We sent this week to Kansas City a small shaft, the postage on which was 22 cents. The postal clerk said that the express rate on the same shaft would have been 45 cents. We think the farmers will find the parcels post another of their great helpers, worthy to rank with rural mail delivery and the telephone.

During the preceding week we had the chance to look at an abstract of a piece of land that had been patented by the government some time in the early 60's. Just about 45 years ago the tract of land which included the one we mention was sold. It consisted of 960 acres and the price paid was an even \$1,000. As showing how money has been made in Kansas land we might take this particular piece as an illustration. We may suppose that the use of the land during these years has paid expenses and taxes, which it certainly has and many times over. At the price this land sold for the other day had the original owner kept it for the 45 years he would have

made more than 100 per cent on his original investment every year. We have an idea that the future land owner will not have a chance to make such a rate of interest and that if he registers an average advance of 2 per cent a year for the next 10 years he will be doing well. We cannot expect more unless the price of all farm products advances considerably above the present price and that can hardly be expected.

We have a 15-acre field already plowed which we intend to sow to some grass mixture this spring. The idea is to have something to pasture. On this we shall sow a mixture of Red clover, timothy, English bluegrass and some alfalfa. We have all the seed except timothy which we shall have to buy. In pricing it yesterday we found that it was very much cheaper than it has been lately. The dealer said he had a lot on hand for which he had paid \$3 per bushel but that since he bought, the price had gone down and that we should now be able to buy for \$2 or at most, \$2.2 per bushel. We had thought of sowing the grass seed along with oats but on account of chinch bugs have about given up the oat sowing idea and will go it alone on the grass seed.

The Need of Humus.

The waste straw on the farm, and other forms of farm refuse that contain properties for the enrichment of the land should be returned to the soil at the earliest possible convenience after the crop has been harvested. It is a hard and tedious task to scatter straw by hand. It should be spread evenly over the land, and this can be done only by machinery, to get the best possible results. In hap-hazard farming the slow and laborious method of spreading straw by hand probably will prevail, if the necessary work is done at all, but the modern farmer, who realizes that time saved in labor is true economy will not depend on manual labor to do what a straw spreader and horses can do not only better, but faster than by any other method.

There is a money value in wheat straw that can be saved to the farmer by spreading the straw over his acres and afterwards plowing it under to enrich the soil. Besides containing a certain amount of the three principal plant food constituents which are nitrogen, phosphorus and potash, straw adds humus to the soil and makes available the rich store of plant food already there. Humus is rich in nitrogen, the important building material out of which the gluten in wheat and grains is constructed. When the humus decreases, the nitrogen also decreases and is lost out of the soil as well.

Humus aids the soil in retaining moisture and to withstand the evil effects of drought. Straw matter plowed under aids the soil in resisting the passage of water to the surface, where it is lost through evaporation. While increasing the moisture-holding capacity of land, humus also possesses the power to liberate phosphoric acid, which in this form becomes very valuable as plant food. Some one has said that "he is a wise farmer who can see and appreciate that the silent forces, by timely direction and control, may be made to minister to his wants and to change toil to healthful, inspiring, intelligent work."

Soil blowing on thin, sandy, or over-cropped land can be prevented by spreading straw to cover new seeding and young wheat. Straw won't blow or drift, but has a tendency to anchor itself and holds the wheat. Many farmers have saved their entire crop in this way, besides leaving a mulch which conserves moisture and furnishes fertilizer value.

To maintain the original fertility of the soil is not a hard matter, but to increase the fertility it is absolutely necessary to use every means possible and to utilize all the forces at hand.

The "silent forces" of straw, manure and other vegetable matter plowed under will aid in giving a bountiful harvest to the farmer who plows and plants and harvests with his brains.

PARCELS POST JOBS OPEN.

Railway Mail Clerk Examinations everywhere May 3rd. Write Franklin Institute, Dep't. L175, Rochester, N. Y., for list of all government jobs open.—Advertisement.

PROFIT

If you could invest in a machine today—and be sure that its proper use would increase your returns from the oats harvest \$7 per acre—from winter wheat harvest \$6 per acre—from spring wheat \$3 per acre—over and above what you have been getting, remember, you wouldn't hesitate before investing.

Well, that's exactly the kind of profit you can make if you buy a HAWKEYE Grain Grader and Cleaner. On 100 acres of oats some of its users have cleared \$700 more—on 100 acres of winter wheat \$500 more—on 100 acres of spring wheat \$300 more. The

HAWKEYE

Grain Grader and Cleaner

is the surest money-making machine on the market. It grades corn and all grains and grass seeds so you can plant good seed for big, profitable yields. It cleans thoroughly—two machines in one—guaranteed by the manufacturer to do all we claim for it, to satisfy you, to make money for you.

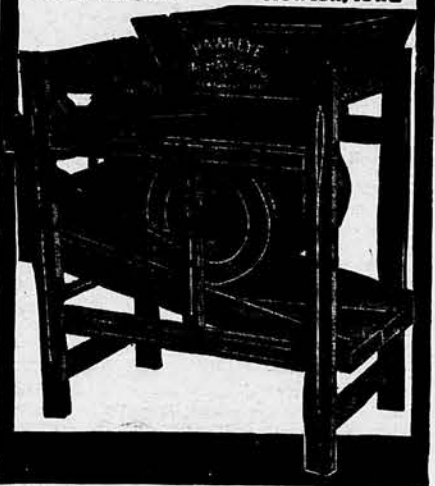
Don't go into another season without owning a HAWKEYE, so you can use it to improve the quality of your seed and the quantity of your yields.

Plant corn graded by the HAWKEYE and you'll have three good kernels in every hill 97 times out of 100—and an ear on every stalk when corn harvest comes.

Look into this proposition. Ask your dealer to show you the HAWKEYE and write us quick for full particulars so you can have one of these machines this year.

The Maytag Co.

360 North St. Newton, Iowa

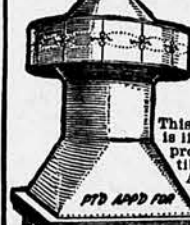


How to Keep Barn Air PURE

Send Name For Free Book NOW

More money for you this year if you give your stock plenty of good, pure air.

Saves money by increasing health of stock, makes food go farther and do more good! Get the best—the



KING AERATOR

This galvanized steel ventilator is light, durable and lightning-proof. Practically indestructible. Send for the book today.

Galvanized Steel Cupola Company
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A Book of Great Value to Every Farmer FREE

This book is the greatest time and labor saver ever offered the American farmer. It is also a great money-saver and money-maker. It shows you how to accurately and instantly figure out any problem that may come up—how to figure estimates, wages, taxes and interest on any sum of money, any number of days, at any rate—tells bushels and pounds in loads of grain; correct amount at any price; weight and prices of livestock; contents of cribs, wagons, bins, etc. It is a "lightning calculator" always ready when you want it. Bound in red cloth covers, 128 pages, pocket size. One copy of this famous book free to all who send 25c for a year's subscription to our well-known home and farm monthly, VALLEY FARMER Dept. 11, TOPEKA, KAN.

Gardening With a Windmill

BY S. F. DICKINSON.

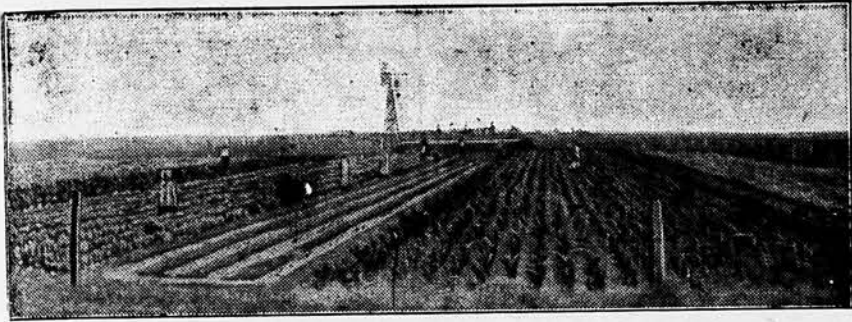
[Written for Farmers Mail and Breeze.]

LAST spring I dug a 6-inch well, 102 feet deep, and built an earth reservoir 30 by 60 feet and 2½ feet high. The well, windmill, and pump cost \$176, while the reservoir was built in 2½ days by three men and two teams. We fenced an acre of ground adjoining and planted this to onions, beans, parsnips, sweet potatoes, cucumbers, tomatoes, cabbage, lettuce, peas, beets and musk melons.

From this acre of ground we sold \$103 worth of vegetables. We put up 200 quarts of tomatoes, 20 gallons of cucumber pickles, 55 gallons of sauerkraut, and have 200 head of cabbage pitted. Two families have had all the vegetables from this garden that were wanted and many more were given away when there was no market at the

and east. Except after heavy rains, the mill runs night and day in summer, and the plants grow amazingly. Five furrows extend across the garden and from these laterals are run between the beds. We do not let the water come in direct contact with the plants.

We work up the garden as early as March 1, if possible, raking it off smoothly just as we want it for planting. About the middle of March, onions, radishes, and lettuce are planted, in rows about a foot apart. About a week later we put in peas, turnips, beans, cabbage, and tomatoes. We have found cabbage and tomatoes planted in this way will do just as well and mature just as early as if planted in hotbeds, and the plants are stronger. Egg plant and cauliflower may also be planted at this time. Carrots, salsify, parsnips, celery, peppers, spinach and kohlrabi, may be planted any time after this. About the first week in April we plant cucumbers,



A 1-acre garden in Lane county that grew \$103 worth of vegetables last year besides supplying two families through the year. The irrigation plant is seen in the distance.

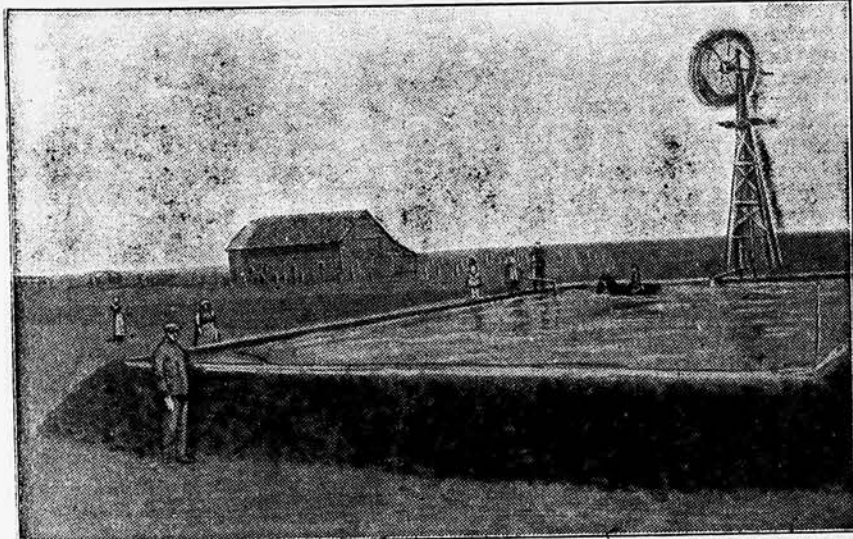
time they matured. We still have 50 bushels of onions to dispose of. Could we have sold all that were raised, the returns from onions alone would have amounted to \$250.

This acre of ground has been farmed every year since 1886 and only once during that time did it receive manure. This was our first experience in irrigating and we made several mistakes. We didn't level the ground beforehand so there were low places where the water would settle. We also tried to make the water run too far between rows. Then, when the horse plague struck us, we forgot all about the garden for four weeks. In this connection I might men-

tion that the plague took 17 of our best horses, six in one day. This winter we enlarged the reservoir so that more water can be stored. We have also put in some fish. We expect to raise more than \$300 worth of garden products this year. By close estimation I find that the vegetables used for our own table more than paid for the work done on the garden through the whole year.

Never leave a foot of ground idle as it only furnishes a place for weeds to start.

We make plantings of early and late varieties of most vegetables so as to have them fresh through the summer and a small strawberry patch furnishes us with all the berries we want. It is wonderful what an amount of vegetables and berries can be raised on a



Reservoir of Mr. Dickinson's garden irrigation plant in Lane county, supplied from a 6-inch well, 102 feet deep. It is also used for a fish pond.

small plot of ground that can be irrigated. Mrs. Grace Thoman. Bunker Hill, Kan.

Enjoy Mail and Breeze in York State. S. D. Reisinger, Nichols, N. Y., writes he finds the Mail and Breeze as good for him in Nichols, N. Y., as he did when he lived in Kansas. He adds, they (the New Yorkers) all enjoy reading "our good old common sense writing."

If a college never did anything except teach boys to bathe and get their hair cut and shine their shoes and be decent American citizens it would be worth more than a million a year to the state, declares the Industrialist. Yea and furthermore, a college that can teach a boy to do that can teach him anything.

We are well satisfied with the results and will enlarge the plant with another well in the near future. The mill we now use has a 12-foot wheel with a 3-inch cylinder and a 2-inch pipe. Alamota, Lane county, Kansas.

What a Busy Farm Garden Can Do

[Prize Letter.]

Mr. Editor—Our garden plot is 100 feet square and lies just north of our windmill, the land sloping to the north

Declare a Chinch Bug Day on your place and get after 'em right.



Protect Your Crops

By Doing Away With Dangerous Air Spaces

Many a fine crop has been shortened, yes ruined, because of air spaces left between topsoil and subsoil when plowing. That's why farmers everywhere are discarding ordinary plows and using the "C.T.X." You, too, will realize the economy and advantage of using the Rock Island "C.T.X." Universal as soon as you know all about it.

Why Air Spaces Prove Fatal

Ordinary plows leave air spaces between the topsoil and subsoil. This is because the slice, instead of being turned clear over flat and being thoroughly pulverized, is crimped up and the dirt falls back in the furrow. It isn't turned completely over. Then, when a dry spell comes, the crop begins to burn and die, for the moisture from below is cut off completely.

If the topsoil lay flat on the subsoil and there were no air spaces, moisture would come right up from below, just as kerosene comes up the wick of your lamp. Thus, during a long siege of dry weather, when no rain falls for weeks and weeks, your crop suffers but very little, because it will draw on the moisture from below.



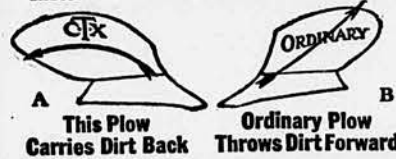
AIR SPACE—Ordinary



NO AIR SPACE—"C.T.X."

How the Rock Island "C.T.X." Universal Plow Ended Air Spaces

Now, the Rock Island "C.T.X." Universal has a very peculiar bottom—corkscrew-like in shape. A perfected, patented shape that is proving a boon to the user. Instead of throwing the dirt backward and



This Plow Carries Dirt Back Ordinary Plow Throws Dirt Forward

FREE CATALOG

Proper plowing is the basis of all farming. You, as a user of plows, should learn what the Rock Island "C.T.X." Universal and you can judge for yourself, for your own knowledge and experience will show you why you can't afford to use any other. Write these words on a postal: "I am interested in plows." Then sign your name and address and mail to

ROCK ISLAND PLOW CO., 234 Second Ave., Rock Island, Ill.

upward, this bottom sends the dirt backward and DOWNWARD. (The arrows in the pictures below show how dirt travels over an ordinary bottom and over the Rock Island Universal bottom.)

Thus, no dirt is spilled into the furrow and each slice is so thoroughly pulverized and so completely overturned, that your topsoil lies right against the subsoil. No air spaces between. All this sounds very simple, yet it has taken years of experience and study to realize what it really means and how to avoid it. It's the last big step to perfect plowing.

A Truly Universal Plow

Nor is the solving of the air space problem all that this plow has done. For here is a truly universal plow—the only universal plow in all the world.

You can work this plow in any field on your farm and do perfect work in tame sod, in old stubble, in trashy cornfields, in meadows, just any place. Makes no difference whether it's gumbo, heavy clay, sandy loam or mixed soil. Every slice will be turned over flat; all trash will be completely buried. Every furrow will be clean; and the dirt will be pulverized more completely than you ever thought possible, saving you at least one harrowing.

Do you wonder that the Rock Island "C.T.X." Universal quickly became such a sensation?

Do you wonder that, to keep up with the multiplying demand, it has taxed our factory and workmen to the utmost? That we have had to increase our factory output over four times?

Do you wonder that men who see this plow perform are discarding their old plows and using "C.T.X." simply from an economical standpoint? It's a fact.

The Price Is Reasonable

Notwithstanding the unusual demand for this plow and the fact that we own and control all patents on a plow that really has no competitor in results, we have not raised the price.

It requires greater care and is more expensive in construction, but enormous production enables us to get lowest possible factory cost so that it costs you practically no more than an ordinary plow.

Its great value to you is in the results—the increased crops—the saving in work and the far greater satisfaction and longer life.

Proper plowing is the basis of all farming. You, as a user of plows, should learn what the Rock Island "C.T.X." Universal and you can judge for yourself, for your own knowledge and experience will show you why you can't afford to use any other. Write these words on a postal: "I am interested in plows." Then sign your name and address and mail to

Stannard's Processed Crude Oil Kills Lice and Cures Mange.

One application of my Processed Crude Oil will do more to rid your stock of lice and cure them of mange than three applications of any other preparation on the market, for the reason that it kills the nits as well as the lice, and remains on your stock for so long that it thoroughly cures them of mange. Put up only in 52 gallon barrels, and sold for \$5.00 per barrel. Why pay \$1.00 per gallon for a dip when you can get the best for less than 10c per gallon? My PURE CRUDE OIL is an excellent lubricant for all kinds of farm machinery and for painting farm tools to keep rust off. \$3.50 per barrel of fifty-two gallons. See my advertisement of refined oils at wholesale prices in next week's issue. Address **C. A. Stannard, Box M, Emporia, Kan** cash with order.

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Big Money in Auto Business

Travel, get good pay, run garage or auto livery. FREE illustrated book tells all. You can learn in a few weeks at home or in our shops. Write for information today.

KANSAS CITY AUTOMOBILE SCHOOL

Largest and Best Equipped School in the World. (Conducted by CLIFF HOGAN.) 2102 East Fifteenth Street, KANSAS CITY, MO.

FREE WATCH, RING AND CHAIN

We give to anyone a highly engraved, stem wind 6-yr. guaranteed watch, proper size, also 3-stone sparkling ring, for selling 20 jewelry articles at 10c each. Order jewelry now; when sold send \$2.00 and we will send you watch, ring and handsome chain.

DALE WATCH CO., Dept. 97, CHICAGO

The man on the EMERSON Plow raises, with his feet alone, the 14-inch gang and added weight of the big man making 500 pounds.



Emerson Foot-Lift Plow

Here are three sweeping, provable claims for the EMERSON Foot-Lift Plow; easy handling, light draft, durability. There are many other points in which the EMERSON is supreme, but the three named are the real test of superiority. When you get them all in one plow, you have the perfect plow. And you do get them all in the EMERSON.



A Boy Can Run It Easily

The levers on the EMERSON are so powerful that a small boy can handle it "like a top." The EMERSON hitches close to the team—the load is on the wheels. This means the lightest draft possible. The first foot-lift plow made. The EMERSON frame is single-piece steel—heavily braced. It's the most durable—built for long, complete service. Don't buy a plow with your eyes shut! Investigate! Get the best.

This is the perfect foot-lift—the one that makes the EMERSON the most easily handled plow in the world.

Emerson-Brantingham Implement Co.
392 Iron Street (Incorporated) Rockford, Ill.
Largest Line of Farm Machinery in the World

Plows, Harrows, Pulverizers, Listers, Spreaders, Planters, Drills, Cultivators, Mowers, Hay Tools, Baling Presses, Corn Shellers, Gas Engines, Farm Tractors, Steam Traction Engines, Threshing Machines, Road Rollers, Wagons, Vehicles.

Write us for Plow Booklet or on any other farm implement. Address

Blessings of the R. F. D.

Of all the works of Uncle Sam,
Beneficent and wise—
The mighty irrigation dam,
The conquest of the skies,
The money coined sound and true,
The seeds he scatters free—
There's none that holds a candle to
The R. F. D.!

The R. F. D. with lengthened arms,
Extends its kindly way
To little isolated farms
From cities far away,
Through country lanes it reaches out,
Beyond the upland sea;
And, ah, its travel-feet are stout—
The R. F. D.!

The blessed little box of tin
Beside the winding road,
What treasures may be stored therein
From out the postman's load!
The barefoot children caper down
And crowd about to see,
Ah, better than the joys of town—
The R. F. D.!

The long and lonely country days
Are lightened by the mail,
And cheery hopes and better ways
Spring in the postman's trail,
And farm and city, understood,
More happily agree,
God bless the bond of brotherhood,
The R. F. D.!

—Amos R. Wells.

Market Gardening in Kansas

BY CHARLES P. RUDE

Market gardening and fruit growing are more and more being depended on to furnish an adequate return from land near the larger towns and cities. No other farming pays as well. Mr. Rude's article is the kernel of a paper read before the State Horticultural society. He gives some sound advice based on his own experience.—Editor's Note.

Good seeds and proper planting alone will not insure a good crop. The kind of soil demanded by each vegetable must be studied. Cabbage, for instance, wants a rich but not too light a soil. Sweet potatoes want a light soil and the poorest we have. Early tomatoes want a rich soil but the later and larger vining types need a thinner soil. Early beets thrive best in a rich loam, later ones on sandy soil that is somewhat thin.

Radishes, except the very early kinds, do not require rich ground. Other well known garden crops such as egg plant, squash, beans, peas, asparagus, rhubarb, onions, carrots, turnips, and parsnips will stand a high degree of fertility in the soil. Fertilizer in the form of stable manure can be had for the hauling almost anywhere and it is too big a source of profit to be neglected. I think we could all profitably take lessons from the eastern gardeners who year after year take more from their old, wornout soils than we do from our good Kansas dirt.

Little need be said about cultivation for every good farmer appreciates its value. But with the gardener it has a double value because of the tender crops with which he works. Do not try to economize on tools. Have plenty of them and see that they are taken care of when not in use.

We gardeners in the West still have a great many things to learn in methods of marketing. No matter how we may like our work it takes dollars and cents to foot the bills and leave a profit. We cannot hold for better prices like the farmer, except in few instances.

Getting products on the market ahead of the other fellow is the thing that counts and some things must be moved in a hurry to avoid a falling market. It never pays to dispose of inferior goods by mixing with a first-class article. A bushel of potatoes means 60 pounds and is priced accordingly, while a basket of nice ones may mean almost any amount.

The appearance of the market wagon, team and driver, and the way the different vegetables are arranged on the wagon, have a good deal to do with success in marketing. Arrange your products so that all can be seen and taken off as wanted, and if the weather is warm and windy, protect them to keep them fresh.

Every gardener should have a few glass sash for starting early vegetables. Muslin may be used for glass if some extra care is given in lighting and ventilating the bed.
North Topeka, Kan.

Profits From a Tomato Patch

[Prize Letter.]

Mr. Editor—With me the most important garden crop is the tomato. I like to have the ground for the patch plowed in fall or winter so as to get rid of as many insect pests as possible. I do not sow many seeds, but use the prunings

of my first plants to start the later crops. I find I can get earlier and larger fruit by pruning and throwing the whole strength of the plant into the fruit rather than the vines. I keep the young tomatoes pinched back to only two or three fruit bearing clusters. These big, early tomatoes are the kind demanded by the fancy trade and they bring the greatest profit.

I have found the Extra Early June will mature 10 days earlier than any of the other early kinds. I believe it is the best market tomato we have today. Last season from a plot of ground 36 by 120 feet, I sold \$65 worth of tomatoes.

After pruning the early plants I set out the trimmings for my later crop and they make the finest kind of plants for this purpose. I have a home canning plant and use the late crops for canning for market. Such a plant is a great money maker, for it enables the grower to dispose of his entire product, much of which might otherwise be a loss.

I like the Mail and Breeze fine and hope other readers will tell of their successes at gardening in this great paper. Let us all write more of our crops and the results we obtain.
Flora, Ind. W. H. Kobel.

May Cedars be Transplanted?

We intend to ship some cedar trees from here to Saline county, Kansas but have been told it will be useless to try to transplant them. What is your advice and what size of tree will best take root and grow after transplanting?—G. W. D., Enid, Okla.

The native Red cedars of Oklahoma can be transplanted with reasonable assurance that they will grow in Kansas if they are given the proper care. The Red cedar of Oklahoma is identically the same as the Red cedar of Kansas.

Take up only small-sized trees, those ranging from 6 or 8 to 18 or 20 inches in height, the smaller ones preferred. Take them up with as many of their roots as possible, puddle the roots as soon as they are taken out of the ground to prevent injury by exposure. Keep the trees shaded until ready to pack them. Pack the roots in moss or wet leaves or straw. Wrap them so as to keep the air from them during trans-

If your neighbor sees you are busy burning chinch bugs on your farm, 10 to 1 he will follow your lead.

sit, leaving the tops open so as to allow a free circulation of air to prevent heating. Pack in small bundles.

Ship by express as soon as packed to avoid delay en route. When received at their destination, they should be stored in a cellar or some cool shaded place until they are to be planted. Do not open the bundles until ready to plant. In case the roots may be dried at the time they are received, sprinkle water over the outside of the bale, but do not open the bale. When ready to plant, prepare a bucket of puddle and dip the roots in this and carry them to the planting site in the puddle, taking them out only when ready to set them.

Plant on a cool moist day. Dig the holes just before planting, set the roots in fresh moist earth and cover them with the same, taking great care to make the holes large enough to receive the roots in their natural order. Tramp the soil firmly about and over them, so as to bring the roots and soil in close contact.

As the evergreens suffer more on account of drying winds, than from any other one source, it is always desirable to protect them from the sun and wind by driving one or two boards in an upright position at the southwest and west sides. If only a few trees are to be planted, as in yard planting, a box or keg with both ends knocked out can be set around the trees. This protection should be maintained for at least two months. Charles A. Scott, Forester.
Kansas Experiment Station.

The West's Best Farm Paper.

I think the Mail and Breeze the best farm paper in the West, also like T. A. M.'s comments very much, think they are almost always right.

James Pierce.
Chapman, Kan., Box 430.

A little powdered chalk prevents diarrhea among the chicks, as also does chopped up raw onions, or camphor in water.

HACKNEY AUTO PLOW

EVERY farmer realizes the importance of "quick action" at seeding time and knows that delays at that particular time are very costly. The whole crop may be ruined through not being able to secure help or the sickness of or an accident to the horses.

The Hackney Auto-Plow solves all such problems satisfactorily. It will not only do the Seeding when the soil is in the best condition, but also the

PLOWING, DISCING, HARROWING, HARVESTING, THRESHING, ROAD GRADING, WOOD SAWING, FEED GRINDING,

and all other work where power is required. It is a strictly ONE-MAN machine, a tireless worker night or day, rain or shine, and there is no "hold-up" by the hired man" for the farmer who has a Hackney Auto-Plow. Its successful performances in all parts of the country, in all kinds of soil, and under all sorts of conditions proclaim it the greatest labor-saving device for the farmer ever invented.



Write today for our catalog, photos of machine and testimonial letters from users.
Hackney Manufacturing Co.,
575 Prior Avenue,
St. Paul, Minnesota

PARCELS POST

THE GREATEST EVENT OF THE CENTURY

New Nation-Wide Parcels Post System Opened for Business January 1, 1913

What Do You Know About It?

Do you know that you are able to mail anything from a bird cage to a pitchfork? Do you know that you are able to mail anything from an egg to a dressed chicken? Every family in the United States is in need of a Parcels Post Zone Map! And it is important that you secure only the BEST and OFFICIAL Map.

We Have Arranged to Furnish It

We are now prepared to offer our friends and readers the most complete chart ever issued. It consists of six Large Pictorial Pages—28 by 36 inches—with map of the World and the Panama Canal, Parcels Post map of the United States complete and a separate Parcels Post map showing **Distance and Zone Scale**, which will enable you at a glance to know the distance and rate from your town to any other point in the United States. It has the **Universal Guide or Zone Finder** adapted for use in any town. It is the largest, clearest map of the United States for Parcel Post reference.

Desiring to give our patrons more for their money than they ever received be-

Facts About the New Parcels Post

The new parcels post went into operation January 1, 1913.

Perishable articles such as butter, lard, fruits, berries and dressed fowls may be sent short distances.

Eggs for local delivery when packed in containers may be sent. When packed separately they may be sent any distance.

Fresh meats may be sent only in the first zone (50 miles).

The following may not be sent: Intoxicating liquors, poisons, matches, explosives, fire-arms and live poultry.

Books and printed matter are included in third class and may not be sent.

The weight limit will be 11 pounds.

To find the size limit: Take a piece of string 72 inches long and wind it once completely around the parcel and then across the top lengthways. If the ends of the string reach the sides of the parcel it comes under the limit.

The country is divided into eight zones and each zone into units. From any unit parcels may be sent to any office in the first zone, or up to 50 miles in any direction, for 5 cents for the first pound and 3 cents for each additional pound up to 11.

The second zone includes postoffices from 50 to 150 miles. The rate is 6 cents for the first pound and 4 cents for each additional pound.

The third zone is from 150 to 300 miles; rate, 7 cents and 5 additional.

The fourth zone is from 300 to 600 miles; rate, 8 cents and 6 additional.

The fifth zone is from 600 to 1,000 miles; rate, 9 cents and 7 additional.

The sixth zone is from 1,000 to 1,400 miles; rate, 10 cents and 9 additional.

The seventh zone is from 1,400 to 1,800 miles; rate, 11 cents and 10 additional.

The eighth zone is all over 1,800 miles; rate, 12 cents and 9 cents for every additional pound.

fore, we are including with the Parcels Post map our new and wonderful **HORSE CHART**.

This wonderful **ANATOMICAL CHART** is fully illustrated in colors. The various internal organs are shown as well as the effect different diseases have on them, and then, best of all, the remedy for the disease is given. If you have this chart and your horse becomes sick, you can tell what the trouble is and what the remedy is.

When you think that **thousands of horses**, valued at **millions of dollars** died in Kansas and adjoining states last year you will understand why we are anxious to place this wonderful chart in the hands of all our readers.

This Great Combination Chart Cannot Be Bought

FARMERS MAIL AND BREEZE will give it to you FREE OF CHARGE. Send Two Dollars to pay for a THREE-YEARS' SUBSCRIPTION (New or Renewal) to FARMERS MAIL AND BREEZE and the Chart will be sent you Free of Charge. Send order and remittance to

Farmers Mail and Breeze, Topeka, Kan.

What Farmers Are Thinking

You are cordially invited to air your opinions in this column, but the Mail and Breeze reserves the right to condense such statements as far as possible to give other contributors a chance to say something. Short, crisp expressions of opinion on matters of interest or consequence to farm folks are welcome. All contributors must take their turn.

Wife's Right to Will Property.

Mr. Editor—Two young people start out in life with little or nothing to begin with. They work together, accumulate some property and rear a family. In case of death the wife has no way to leave her interest of the common property to her children. The man in time may marry another woman who may not help add anything to the property, yet she is entitled to one half the property of the man. This law needs changing. The woman should only have a half of what she and the man made after they were married and the heirs should have what they helped to produce while at home with their parents.

Charles L. Simpson.

Haviland, Kan.

State Worm Destroyer Needed.

Mr. Editor—I have as yet failed to find what I call a real worm destroyer in hogs. With alfalfa pasture seven months in the year and corn around 50 cents a bushel, hogs would have to go below \$5 to keep us from making a fair profit if we could keep them free from worms. I believe it is time farmers were arousing themselves to the fact that worms are claiming half the profits in our hog business. If through the farm papers, enough farmers would ask the Agricultural college to employ an expert to find a real worm destroyer, I am sure our legislature would appropriate sufficient funds for this purpose just as it did in finding a poison that would clean out the prairie dogs.

Zeandale, Kan. B. K. Walters.

How Choose Farm Advisers?

Mr. Editor—You say in a recent editorial, "It seems to me if the county farmer adviser was carefully selected, a man of practical knowledge and experience, that his services would be worth to the farmers of the county many times what would be a reasonable salary."

I do not remember of having seen any other comment from you on the subject of the county farm adviser. Will you kindly state in the columns of the Mail and Breeze how, in your opinion, such adviser could be "carefully selected," and in what way he could be of practical use to the farmers?

If I read signs correctly the matter of the farm adviser is one which is coming up to be acted on before long, and I think we should have more light on the subject.

Lee R. Hudgens.

Linda, Kan.

[Since this was written the Mail and Breeze has presented its own views and those of others on this subject.—Ed.]

Let Home Merchants Have a Buyer.

Mr. Editor—The merchants have been complaining about people sending their money to mail order houses. The parcel post can and should bring a new system for the merchants in buying their goods. It is not our merchants that we are complaining about, we like to see our home towns successful, it is the wholesale house's system with a regiment of drummers that should be cut out. Our merchants could sell as cheap as the mail order houses if they would do their buying as mail order houses do it. Have a man who knows how to buy. This man could buy goods for a great number of merchants that have their business on the same railroad. Most goods can be bought that way direct from the factory. This would make living cheaper and we can buy at home. Let our merchants do their part and we will do ours.

Fred Schneider.

Sylvan Grove, Kan.

Doesn't Like to Burn the Stalks.

Mr. Editor—I have been a reader of Farmers Mail and Breeze for a good

while and I find it to be a little the best farm paper I have ever read. T. A. McNeal can't be beat. His fair way of reasoning is doing a mighty good and he is generally about right when he says a thing. We agree with Hatch most of the time and always read this writeup first, for it is interesting and he is always giving us some good ideas. But you had an article lately I didn't like, entitled "It's a Real Chinch Bug Scare." If we farmers are compelled to cut our stalks, rake them in piles and burn them we would be robbing the ground and make a good lot of expense besides and the bugs would still be there, or a good per cent of them. I believe we ought to scatter all the straw, cut our stalks and leave them on the ground, burn the roads, fence corners, etc., but not the trash or corn stalks in the field any more than we would burn our alfalfa fields after we have left the late fall

Now it is the chinch bugs that are defenseless. Next summer the situation will be reversed.

growth to protect the plants, even though we all know there are lots of hoppers in the alfalfa fields. Let's get the bugs some other way.

Penalosa, Kan. F. U. Dutton.

[It is sometimes necessary to make a choice of evils. Extreme remedies are warranted at this time in dealing with the threatening scourge of chinch bugs. George A. Dean, entomologist of the Kansas station, says cornstalk and wheat stubble need not be burned over because the few bugs the stubble is harboring will probably perish before spring.—Ed.]

Sheep Are Taxed—Dogs Go Free.

Mr. Editor—The sheep growers of Kansas seem to be a timid, modest bunch, probably because they are rather few in number. For the first time they are now asking the legislature for a suitable dog tax law that will protect the sheep raising industry of Kansas. I have been raising sheep long enough to know that the sheep industry will never amount to much in Kansas until we have some such law. On account of the depredations of dogs, farmers are simply afraid to risk buying sheep.

My sheep are taxed but my neighbor's dogs are not taxed. My sheep raise me two crops a year, a crop of wool and a crop of mutton. The wool pays for the maintenance of the entire flock. The neighbor's dogs raise nothing but more dogs. They are always a dead expense and generally a public nuisance. They will not stay at home; they spread hog cholera; they scare passing teams; they kill pigs and sheep. Surely there can be no valid objection to taxing farm dogs. If we get such a law there will be others who will prefer wool and mutton to dogs.

Belleville, Kan. A. R. Snapp.

Why Taft and Roosevelt Failed.

Mr. Editor—I noticed some comments recently in the Mail and Breeze from a standpat Republican. He seems long on prophecies but poor on interpretation of them. While only a few by special privileges have prospered the Republican party made promises through Roosevelt in 1904 to fool the people and keep the Democrat plague out of the White House. Just as soon as Roosevelt got to business he loaded up his artillery and directed it at the favored few, but it was loaded up with thunder, not lead, and when he fired into the trust camp it spread the Steel trust over their competitors and consumed them. The noise satisfied the common people, but the plague still threatened the party so he gave the people Taft. Taft made the same old promise to lower the tariff but did not do it. He loaded the same old gun with the same old wad, but left out the thunder. He fired several shots in the same old camp and inflated the stocks of several trusts—Standard, Tobacco and others, but in leaving out the noise he spoiled it all, for it did not satisfy the people at large. So they sacrificed Taft and also their first born—Teddy.

Moral—Like Pharaoh they broke too many promises.

L. D. Reid.

Norcatour, Kan.

Would Hurt Poor Farmers.

Mr. Editor—I am not qualified to say what effect the single tax would have in the large cities, but I do feel qualified to say what effect it would have in

Stop "Soil Blowing"

Protect new seeding—save young wheat—furnish humus for the soil—utilize your straw. If the wind blows your soil and buries or blows out your new seeding—spread straw.

Straw contains valuable fertilizing properties, such as phosphorus, nitrogen and potash. It is worth \$2.50 a ton for plant food, furnishing a large amount of organic matter, and placing the ground in better physical condition. Better crops are assured every farmer who places back a part of the toll he takes from the land.

The Simplex Straw Spreader

saves its cost in 3 days' use. Saves three-fourths of the work of spreading straw, and handles old stack bottoms as well as new straw. Can be attached to any header-barge or hay frame in a few minutes. Easy to put on or take off. Easy to operate. Strongly built, can't clog, won't break. Works equally well on windy or calm days. Light draft.



Special FREE TRIAL Offer!

To the first ten men in every township who write for my proposition, I will send a Simplex Spreader on 10 days FREE TRIAL. Don't wait, but write at once, if you have straw to spread.

Simplex Spreader Manufacturing Co.

312 W. 10th St., Kansas City, Mo.

Prof. A. M. Ten Eyck, Fort Hays Experimental Station, Kansas, writes: "Straw is beneficial also as a mulch to conserve the moisture and give the young wheat protection from the violent winds and drifting soil."

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"It's Portable," made of the best Corrugated Galvanized Steel with an all-steel frame. Guaranteed. Protects the Sows and Saves the Pigs!

A warm, dry, sanitary, ventilated house. Made in three sizes. Pays for itself every season. Will last for years.

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Easy For ALL To Win Prizes In Great Subscription Contest Just Started by Kansas Weekly Capital

It may seem too good to be true, but it is true just the same! Somebody is going to receive this big touring car as an absolute free gift on May 1, 1913. Our first big 1913 Subscription Contest on the Kansas Weekly Capital has just opened and will close promptly at 12:00 o'clock noon on Thursday, May 1st, 1913, and the 5 contestants having to their credit the largest number of points will be awarded the \$950 Automobile and 4 other Grand Prizes. The object of this contest is to get subscriptions to the WEEKLY CAPITAL, the well-known news weekly and home and family paper published by Arthur Capper at Topeka, Kansas. Every one-year subscription at 25 cents counts 25 points, every 3-year subscription at 50 cents counts 75 points, and every 6-year subscription at \$1 counts 150 points—in other words, you get 25 points for every year's subscription.

Earn \$15 to \$25 Every Week—Enter YOUR NAME NOW and Get 1000 Points FREE!

In addition to the 5 Grand Prizes we allow a cash commission of 40 per cent to every contestant—you keep 10 cents out of every 25-cent subscription, 20 cents out of every 50-cent subscription, and 40 cents out of every \$1 subscription. This 40 per cent cash commission feature is the most liberal inducement ever before offered on any contest on any paper! It positively removes every chance of loss. It ought to be easy for you to earn from \$15 to \$25 a week or even more in this interesting work. We will supply every contestant with an unlimited quantity of a beautiful Art Calendar. These calendars would probably retail for at least 25 cents, but we allow you to give one free to every subscriber. Just to put real life into this contest right at the start we are going to award 1,000 points free to all who clip and send in the accompanying coupon within 20 days. When we receive your coupon we will send sample copies of the paper and full information regarding the big contest. Send coupon now! Address

Mgr. WEEKLY CAPITAL CONTEST, Dept. 200, Topeka, Kansas

MANAGER WEEKLY CAPITAL CONTEST, Dept. 200, Topeka, Kansas.

Dear Sir—Send me full information regarding your big Auto Contest, give me 1,000 points as per your offer, and enter my name as a contestant.

Name

Address

This Coupon Good for 1000 Points.

Must Be Used Within Next 20 Days.

my own township where I was born and have lived nearly 71 years. Adams county, Illinois, is without any large towns. In the township is owned about \$10,000 worth of autos. A few of the farmers own oil wells in Oklahoma, a few own large tracts of rice land in Texas, a few large tracts of wheat land in Minnesota and Canada. It also happens that these men have better stock and more of it also fat bank accounts.

If we have single tax it is very clear the taxes on all the land in the township must be raised, including mine, and a lot of other fellows who have no autos, nor oil wells in Oklahoma, nor rice lands in Texas, nor wheat lands in Minnesota and Canada, but who do have notes at the bank drawing interest with great regularity. If the single tax would not be to the advantage of the rich farmers and against the poor ones, I should like to have Mr. Jorgenson or Mr. McNeal or some other gentleman kindly explain why it would not, and I will ask no more questions.

W. R. Sykes.
Baylis, Ill.

Things a Farm Adviser Might Do.

Mr. Editor—Recently I noticed an unfavorable criticism of the proposed system of farm inspection in this column of the Mail and Breeze. It is so evident and so universally known that expert supervision produces the highest degree of efficiency, that it is amazing to be confronted by such an argument as the one mentioned. Expert supervision of schools has accomplished wonders. Let us see if there is anything which can be done by farm inspection toward further systematizing our agriculture. How many farmers in this state have a sufficient knowledge of chemistry to analyze the soil and tell what crops can be raised to the best advantage? Now don't take this as a slam, Mr. Farmer, for how many clerks could make a success in the mercantile business without the supervision of the head of his department? How are farmers to decide which breed of cows is best adapted to his needs without experiment, systematized records and experience? Unfortunately these are frequently very expensive. "The essential difference between man and monkey is man's ability to profit by the past experiences of his fellow men." Then why not in this, as in other matters, co-operate, and furnish the funds for a few men to carry out these experiments for our benefit and make known to us the results of their labor, while we are engaged planting corn, feeding cattle, or slopping the hogs.

McPherson, Kan. E. Almquist.

Wide-Tire Roads on the Coast.

Mr. Editor—I left Kansas 24 years ago for Oregon. They were using the narrow tire here then and after an absence of 24 years last February I came back and find we are in the same old narrow rut. About 18 years ago in Oregon the farmers began using the 3 and 4-inch tire. They levied a tax on every narrow tire and gave the wide tire a \$2 premium or rebate. I think that would work well in this state. I spent 21 years in Oregon and Washington where it rains about nine months out of the year, and I teamed over all kinds of roads—mountain roads, level roads, rock and corduroy roads. Last summer and winter I traveled through California and Arizona. I drove more than 1,500 miles, 500 miles over a sandy barren desert from Phoenix, Ariz., to Los Angeles. From Los Angeles I was on oiled roads. I made this trip in a 3½-inch wide-tire wagon. I have used a wagon on most every kind of road that one can think of and the wide tire gives better results in every respect. Where the wide tire goes you will find a smooth, well packed roadbed. I admit on a grade they shove or push out a little more mud to the side of the road, but wherever it slides it leaves a smooth surface and does not cut out a rut. The narrow tire keeps sinking deeper in the same track.

I believe with the grader first, then the road drag and wide tire we can greatly improve our roads. I am for giving every owner of a wide tire a reduction in his taxes and levying a tax on the narrow tire. Then see how long it will be before the wide tired wagon is universally used. What do you think, boys? Let's keep the iron hot.

F. H. Lawrence.

Valley Center, Kan.

Tone

That's where the Victor-Victrola is pre-eminent

You might be able to build a cabinet that outwardly would resemble a Victor-Victrola. You might even copy the inside construction and details, if they were not protected by patents. But there is no copying the superior Victor-Victrola tone-quality.

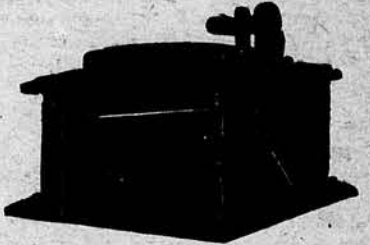
That represents years of patient experiment—with various woods, with different proportions, with numerous vibratory surfaces—and it is simply astonishing how slight a variation in size, in shape, in position, seriously affects the pure tone quality.

No, the Victor-Victrola tone can't be equaled! Even though the eye could take in every detail of construction, there is still that same indescribable "something" which makes the Stradivarius supreme among violins, which gives to the Victor-Victrola the wonderfully sweet, clear and mellow tone that has established this instrument as pre-eminent in tone quality.

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Write for the handsome Victor catalogs, showing the different styles of instruments and portraits of the world's greatest artists who make records only for the Victor.

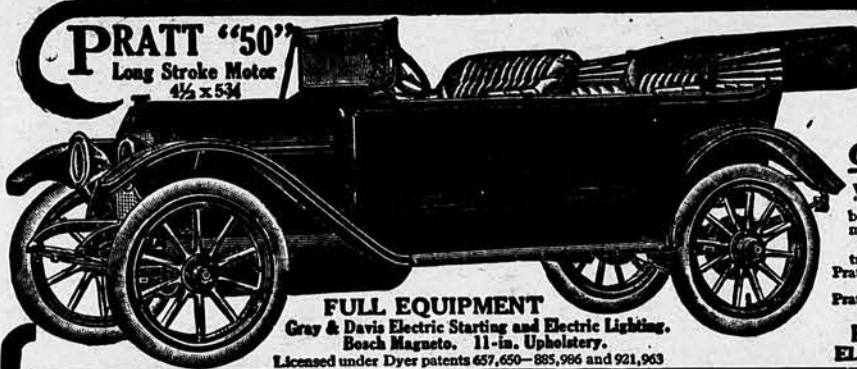
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Always use Victor Machines with Victor Records and Victor Needles—the combination. There is no other way to get the unequalled Victor tone.



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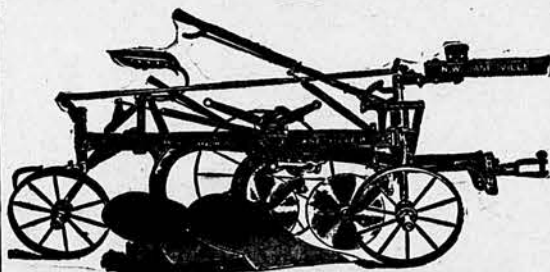
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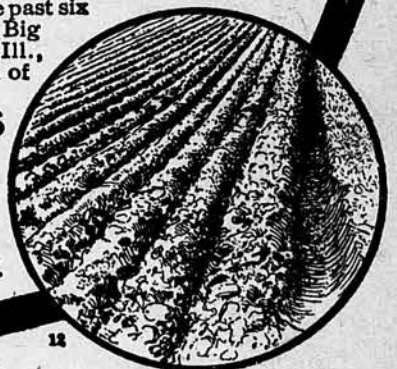
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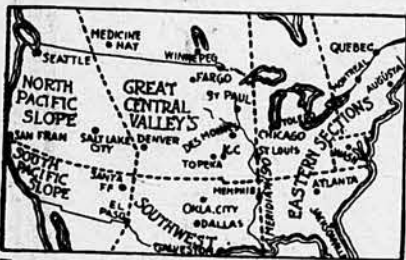
FOSTER'S FORECAST

(Copyright 1912 by W. T. Foster.)

To Farmers Mail and Breeze:

Washington, D. C., Feb. 8.—Last bulletin gave forecasts of disturbance to cross continent Feb. 9 to 13, warm wave 8 to 12, cool wave 11 to 15. In central valleys and west ward this storm will be of no great importance but as it nears the Atlantic coast it will gain force. Temperatures will average moderate but the cold wave following will be more severe than the cold waves of this winter have averaged.

Next disturbance will reach Pacific



(For Better Understanding of the Forecasts.) Broken lines separate map into eight great valleys including the Northwest and Southwest, and Eastern Sections including the Lakes, the Northeast the Southeast weather districts, named North Pacific Slope, South Pacific Slope, Great Central and Washington. The dividing line bisecting St. Louis is meridian 90.

coast about Feb. 13, cross Pacific slope by close of 14, great central valleys 15 to 17, eastern sections 18. Warm wave will cross Pacific slope about Feb. 13, great central valleys 15, eastern sections 17. Cool wave will cross Pacific slope about Feb. 16, great central valleys 18, eastern sections 20.

This storm wave will bring one of the principal warm waves of the month and may cause that feature popularly known as the Feb. thaw. It will be followed by a great fall in temperatures and the coldest weather of the winter in northern sections.

Fifth storm wave of Feb. will reach Pacific coast about 18, cross Pacific slope by close of 19, great central valleys 20 to 22, eastern sections 23. Warm wave will cross Pacific slope about Feb. 18, great central valleys 20, eastern sections 22. Cool wave will cross Pacific slope about Feb. 21, great central valleys 23, eastern sections 25.

This disturbance will be of more than usual force west of meridian 90 and will become a fierce storm as it nears the Atlantic coasts.

Growing Tomatoes For Market

BY ANTON OPPERMAN.

[Written for Farmers Mail and Breeze.]

IN MY 23 years of experience of growing tomatoes for market I have found that they can be grown successfully on almost any soil. The ideal soil is a light, sandy loam, and especially ground on which timothy or clover or other grasses have been growing. When such cannot be had, they will thrive best on soil that is lightly dressed with light, old, well rotted stable manure every other year. The manuring should be done in the fall, when it must be plowed under, in order to rot out all the ammonia it may contain.

Tomato ground must never be fertilized with cow manure, as this acts like poison to tomatoes. It is also liable to make the soil too heavy and cold and to cause black rot and blight. Hard, insufficiently worked soil, will also do this. Over-manured soil will produce a rank growth of side branches or suckers, which rob the fruit of its necessary nourishment and cause most of the blossoms to fall off before their time.

In our latitude the gardeners sow their extra early tomatoes in hotbeds about the first part of February. The hotbeds are kept at a temperature of between 65 to 75 degrees. On sunny days the sash frames are raised, to let out surplus heat and let in fresh air. Keep the plants steadily growing from the time the seeds germinate. When about 2 inches high, they are transplanted to newly heated hotbed and set about 3 inches apart each way. When these crowd each other, they are again transplanted into other hotbeds, under which the artificial heat has

died out, or in cold beds. The last transplanting is done about the end of March or the first part of April. In about three weeks, the glass frames are removed, and the plants left growing in the boxes, to be weathered for several weeks. They are covered only on cold nights, when there is danger of frost.

Early tomatoes are planted May 1-10 in well prepared soil. The rows are 4 feet apart, and the plants set 2 1/2 feet apart in the row if two stalks are to be tied up on sticks. Where only one vine from each plant is to grow they are planted 18 inches apart. They ought to be planted in rows 4 feet apart and 3 1/2 feet apart in the row, when grown on the ground.

Sticked tomatoes are the most profitable, because they are not exposed to the burning sun, and do not rot from contact with the ground. They can also be cultivated longer and more thoroughly. In about 10 or 12 days they must be thoroughly hoed and then stuck. After the side branches, or suckers, are about 2 inches long, they must be trimmed out, and the vines that are allowed to grow must be tied up the first time. Use the cultivator whenever the soil has become settled by rain or continuous dry weather.

The vines must be tied up three different times. The last tying is done at the top end of the stick. After this is done, the vines must be cut off beyond the sixth bunch of blossoms. I have found that for stucked tomatoes the Imperial, Magnus, White's Excelsior, Livingston's Beauty and Peach are the best varieties.

It is always best to use pedigreed seed, that has been grown in another part of the country. Seeds replanted on the

Fight 'em, swiipe 'em, burn 'em, smite 'em. Discourage the chinch bugs before they discourage you.

same ground are very liable to bring forth imperfect and poor crops. A good average crop of tomatoes grown on sticks will yield between 400 and 500 bushels to the acre. St. Louis, Mo.

Four Big Papers For \$1.10

The Mail and Breeze is enabled to make the biggest clubbing offer it has ever had, and for only \$1.10 will send all four of the following papers for one year each:

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THE KANSAS WEEKLY CAPITAL, the oldest and best weekly newspaper in the entire Southwest.

THE MISSOURI VALLEY FARMER, a big monthly farm and agricultural paper which should be read by every farmer. No liquor advertising is printed in any of these papers.

Remember, all four of these big papers will be sent to one address or to four different addresses if so desired for only \$1.10. If you are a subscriber to any one of these papers your time will be advanced another year. You will be supplied with the best class of reading matter for a full year. Don't fail to mention the names of these papers in sending in your order. Send your order to the MAIL AND BREEZE, TOPEKA, KANSAS.

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Topeka, Kansas



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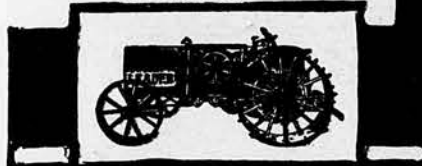
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The Damage Depends on Weather

BY G. A. DEAN Entomologist, Kansas Experiment Station.

Will the Hessian fly damage wheat in spring as much as in the fall? Will fly eggs in a dead wheat plant hatch out? Will the condition of the weather in spring affect the amount of damage done?—M. N., Atchison, Kan.

The damage to wheat next spring from Hessian fly will depend considerably upon the climatic conditions. However, the chances are favorable for far more damage in the spring than it did last fall. During the later part of March and continuing through the first two or three weeks of April, the "flax-seeds" that are now found near the crown of the plant will give up flies that will lay their eggs on the blades of the growing wheat. The reddish maggots which hatch from these eggs will make their way down into the plants as in the fall, with the difference that the wheat, being older, the joints above which they come to rest and feed will be higher on the plants. Here they will feed and grow, and just about the time the wheat is becoming well headed, they will so weaken the stalks as to cause the wheat to crinkle and lop over.

Most of the flaxseeds in the dead wheat plants will transform into flies. If the weather conditions are such in the spring as to cause a good healthy growth in wheat, the flies will naturally not do the injury they would in case the plant is retarded in its growth. Practically nothing can now be done to check the ravages of this insect, but in order not to have a repetition of the fly, I would suggest the following treatment be put in operation for next year's sowing:

This Will Check the Fly.

Disk the stubble just as quickly after harvest as practical, the sooner the better. This will conserve the soil moisture and render later plowing easier. It will start the volunteer wheat and the weeds and will cause the fly to emerge earlier.

Plow 6 inches deep three or four weeks after harvest in such a thorough manner that all stubble and trash will be thrown in the bottom of the furrow and covered by the whole thickness of the furrow slice.

Work the ground down into a compact seedbed in such a manner that the stubble will be covered with several inches (4 inches if possible) of well compacted soil. This will prevent the escape of the flies from the covered stubble, and will cause the wheat to germinate and make proper growth in the shortest possible time.

Sow on or immediately after the fly-free sowing date.

If wheat does not follow wheat, prepare the best possible seedbed and conserve the moisture to the greatest possible extent. Sow on or immediately after the fly-free sowing date.

As the result of four years of experimental sowing in different parts of the state, the average indicates October 3 as the fly-free date for Atchison county, Manhattan, Kan.

Corn "Shrinks" Nearly Half

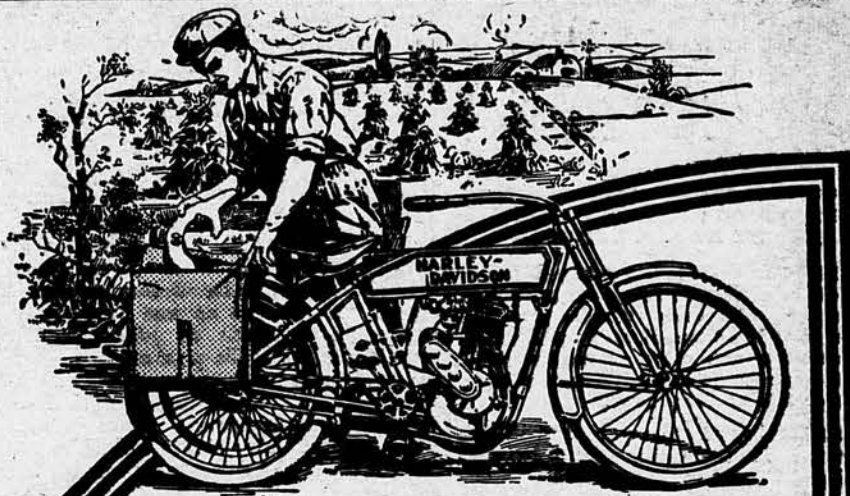
Mr. Editor—When I began to harvest my corn, I took several ears to know the weight at gathering time; then I weighed these ears at stated intervals after that, as follows, the decreased weight showing the loss of weight by evaporation:

- Weight of ear on Aug. 20, 480 grams.
- Weight of ear on Sept. 20, 440 grams.
- Weight of ear on Oct. 20, 336 grams.
- Weight of ear on Nov. 20, 340 grams.
- Weight of ear on Dec. 20, 301 grams.
- Weight of ear on Jan. 20, 295 grams.

The water contained in the cob and in the kernel in six months was reduced to nearly 40 per cent of the starting weight. Consider 1 ton of seed, or 2 or 3 tons of seed kept in a close place without ventilation. This ton of ears of corn is 40 per cent of water and 60 per cent of dry matter. With that amount of water in the cob, the temperature may be such a degree that the moisture rots the kernel. Z. D.

The prize ear of corn in Iowa, this year, sold for \$32.50. That is about \$2,500 a bushel, comments the Industrialist, but how much is it by the kernel, or better still, by the ear?

The Mail and Breeze, the best farm paper out.—T. B. Ralston, Lebanon, Kan.



To Town and Back for a Cent

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It will place the country for miles around at your and your children's command. It is the best "keep the boy on the farm" factor ever produced. It never tires, costs nothing when idle, and is always ready in case of emergency. It is also a great horse saver.

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Scientific cotton- and corn-cultivation means bigger yield and better crops. And the implement to get the results is the Planet Jr Horse Hoe and Cultivator.

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No. 8 works equally well for tobacco, potatoes, and similar crops. It is adapted for hoeing, plowing, cultivating, furrowing, dicing, scraping, and laying by. Can be fitted with plow and disc attachment, and all steel wheel—new this year. Substantially built. Fully guaranteed. Will last a life-time.

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Shell your own Corn and your neighbor's too

Take in what you've been paying out for corn shelling—and much more—by shelling your own and your neighbor's corn. Get 1 to 3 cents more per bushel for your corn by shelling it cleaner and grading it one or two grades higher. Shell your corn any day you have the time—days when you have no other pressing work.

The REEVES Power Corn Sheller

will soon pay for itself and return you handsome yearly profits. Makes quick work, shells over 1,000 bushels per hour. Shells cleaner, because it has the most advanced type of suction fan. Will stand many years of the hardest use. Built on the cone cylinder type—has long ribs, chilled to stand hardest wear. The cob carrier swings to right or left or out ahead, throwing cobs clear of the machine and wagons. Let us prove to you how you can make big money this year, and also get higher prices for your own corn by shelling it clean.

WRITE FOR CATALOG explaining the superiority of the Reeves Sheller in detail.

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Largest Line of Farm Machinery in the World
Plows, Harrows, Pulverizers, Listers, Spreaders, Planters, Drills, Cultivators, Mowers, Hay Tools, Balling Presses, Corn Shellers, Gas Engines, Farm Tractors, Steam Traction Engines, Threshing Machines, Road Rollers, Wagons and Vehicles.

Dairy Farming

CONDUCTED FOR FARMERS MAIL AND BREEZE BY A. G. KITTELL.

This department aims to be a free-for-all experience exchange for our folks who keep milk cows. We are glad to hear from you often. A Mail and Breeze subscription and other prizes awarded each week for helpful or interesting letters or bits of dairy news.

Slow turning of the separator will lose more fat in the skimmilk than fast turning.

Giving the daily ration of milk in three feeds is better for the new calf than the same amount in two feeds.

Every other source of income on the farm may fail but the cream check keeps on coming.

January was an easy month on the dairyman this year. But he had it coming to him after last winter's experience.

If you have a good cow, or herd of them that are making good records, let us hear about it. Your way of getting these results also will be welcome.

Whether well fed in stables or not, cows like something to pick on through the day and corn fodder is good for this purpose.

Putting oilmeal, corn meal or other ground feed in the calves' milk is a good way to give them indigestion or constipate them. It is best to feed it dry.

Fresh cream added to the batch soon to be churned will not add anything to the quality of the butter. All of the cream will be better for ripening at least 24 hours.

A Shortgrass Butter Record.

[Prize Letter.]

Mr. Editor—We read the letter of Mr. Coats, of Altoona, Kan., in a recent Mail and Breeze and think we can go him one better, considering the cows we have and amount of feed consumed. We are milking seven cows, five of whom are heifers that came fresh during April, May and June. The other two cows were fresh the middle of December. We are feeding 7 quarts of whole milk to calves but still made 70 pounds of butter from January 1 to January 20. We have regular customers for this butter and get 30 cents a pound. For roughness these cows have Kafir stover and barley hay.

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Read about this most famous construction, learn how it makes big extra silo profits. Keeps silo door closed all the time—prevents silage freezing in winter and drying out in summer. Opens and closes easier than barn doors. Easy climbing ladder, 7 inch foothold. Get our book telling all about the Hinge Door

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Beef and dairy products are the biggest profit makers for the farmer. By feeding your cattle from an Indiana Silo you increase your milk flow and fatten your feeders at lowest cost. It adds 50% to the value of your corn crop and pays for itself the first season.

Write for booklet. Address nearest office

INDIANA SILO CO.
Anderson, Ind. Des. Moines, Ia. Kansas City, Mo.
879 Union Bldg. 379 Indiana Bldg. 379 Silo Bldg.

Their grain feed is a mixture of 2 parts Kafir chop and 1 part barley chop. The old cows get 1 gallon at a feed and the heifers 3 quarts.

Offerle, Kan. Mrs. George Bright.

Western Holstein Men Organize.

Representative Holstein breeders of Kansas and Missouri met at Kansas City on January 22 and formed an organization that is to include Holstein men of all states of the Middle West. Every prominent Holstein breeder of the two states named was present or was heard from, expressing a desire to join the new association. It is the plan of the organization to hold its annual meetings alternately at Manhattan, Kan., and Columbia, Mo., during farmers' week in each city. Annual dairy shows and sales are contemplated and community cow testing associations will be encouraged. The president of the organization is George C. Mosher, Vale, Mo., F. A. Hornbeck, of Kansas City, Mo., is secretary.

Separating Small Milkings.

Do you think it would pay to get a cream separator when I only get from 3 to 4 gallons of milk a day, asks J. C. H., Kay county, Oklahoma.

Answering the question, R. C. Potts, dairyman of the Oklahoma station, says: I believe that it would be advisable to buy a small size machine, however, conditions differ largely on different farms, and the matter of buying a cream separator is largely a question for each individual to decide for himself. I would think that a machine for \$65 which has a capacity of 335 pounds of milk per hour would be sufficiently large for your use and such a machine carefully operated and properly handled should last from 8 to 10 years. The following arguments in favor of the cream separator may be of interest to you:

By the use of the cream separator more and a better quality of cream can be obtained.

Skimmilk of a higher feeding value on account of its better quality is also secured.

The skimmilk from the warm fresh milk is better for feeding to your young calves and pigs.

Less time and labor is required in handling the milk and various dairy utensils, also in obtaining the cream.

The increase in value of the amount and quality of butter fat obtained by the use of the cream separator over the old method of skimming will amount to approximately \$10.00 per cow per year.

Details of Separator Care.

[Prize Letter.]

Mr. Editor—If anyone is troubled with a leaky separator perhaps it would be possible to remedy it as we did ours. For a long time we thought the threads on the bowl and bowl top had become worn and were letting the milk out. We finally found that the point of the lower end of the bowl spindle had worn away just enough to lower the skimmilk tubes so that some of the skimmilk was thrown below the skimmilk cover. From there it ran down into the frame. We took the machine from its base and raised the adjusting plug found underneath and have had no trouble from leaking since. Perhaps there are some readers who do not yet know of this remedy for leaking. Be sure the steel balls are in place when the machine is put back on the base.

Many people use too much oil on their separator. It makes the machine and floor unsightly to have the oil ooze down and get all over the frame and the floor. We have used our separator for eight years and still have as much as several tablespoonsful of the quart of oil that came with the machine. No other oil has been used on it. After forgetting to shut off the oil in the sight feed cup several times we quit using it and now oil the spindle with the oilcan each time before running the machine. Too generous oiling will not necessarily lengthen the days of usefulness of machine. A few drops each time on the parts not provided with oilers will keep a separator running smoothly and will save much time in keeping it clean.

We consider our separator well worth the money, in fact would not go back to the old way for three times what it cost. It saves cream when we get a small amount of milk and saves time and labor when we get large quantities.

Mrs. Mary Cornwell.
Oberlin, Kan.

\$26,500,000.00 Hog Cholera Losses In 6 Months

The above is a conservative estimate of the stupendous sum lost by American farmers during the first six months of 1912 from hog cholera alone! (Not including the enormous loss from hog worms.) Now, men, let's make a mighty, united effort to put an end to this terrific slaughter—this awful waste of money. We can do it if we work together. I know we can do it. I have the remedy that has been proved will prevent hog cholera, put your weak hogs on their feet, rid them of worms, make them strong, hearty, fat and healthy. My remedy.



Merry War Powdered Lye is very simple and inexpensive to use and results have been proven. In an interview, which was so important that it was given a full column on the front page of the Fort Dodge, Ia., Messenger, on November 7th, 1912, Mr. Collie Bowers, a prominent hog raiser in that section, says: "Last Fall I had lost twenty-six young pigs, when I was told to get some MERRY WAR POWDERED LYE and feed it with swill. Every one of the eight or nine pigs that were then sick recovered and I had no more trouble. This Fall all the same sickness started after I began feeding this year's crop. I started the Merry War Lye treatment and the pigs got well. My brother used the Lye with his pigs and saved all the sick ones. Earnest Stromberg heard about the treatment and came to our house in the night to learn how to use it. We told him and he drove to Fort Dodge in the night and got a grocer up to get the MERRY WAR POWDERED LYE. His pigs all got well."

You can easily prevent an outbreak of cholera among your hogs, for again I say to you that MERRY WAR POWDERED LYE is the safe preventive of that dread swine disease. You can tell your neighbors about it just as Mr. Bowers in this interview is telling his farmer friends about it. You can in this way help to put an end to this needless and enormous money loss. Will you do it?

There Are No Substitutes Go to your nearest dealer today and get a few cans of MERRY WAR POWDERED LYE. Don't accept an ordinary, old-fashioned lye as a substitute. To use such a lye would be but a doubtful and perhaps a dangerous experiment. MERRY WAR POWDERED LYE is the specially prepared lye that is safe to feed to hogs—that is not an experiment. Insist on the genuine. Its wonderful merit has been proved by its experience. Price only 10c per can (120 feeds). It is convenient to buy in case lots, 4 doz. cans, \$4.80. If your grocer, druggist or feed dealer can't supply you, write us stating their names. We will see that you are supplied; also send you, free, a valuable booklet "How to Get the Biggest Profits From Hog Raising."

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Dept. 10 St. Louis, Mo.

Now You Can Do Power Farming On Any Size Farm

Here is the Baby Avery Tractor that makes Power Farming a paying proposition now on small size farms. It pulls 3 to 4 plows and plows 10 to 12 acres a day. Weighs less than 7500 pounds. Develops 12 Traction 25 Belt H. P. Burns gasoline or kerosene. Sold at an unusually low price—only \$1,200.00 F. O. B. Peoria.

For a medium size farm you can get a 20-35 H. P., pulls 5 to 6 plows, turns 15 to 18 acres a day, weighs less than 11,500 pounds and sells for \$2,000—or a big farm size 40-80 H. P., pulls 8 to 10 plows, turns 25 to 30 acres a day, weighs only 20,000 pounds and sells for \$2,650.00.

AVERY "Light-Weight" Tractor and "Self-Lift" Plow

Free Book About Power Farming Gives definite facts from the experience of users to prove that an Avery Power Plowing Outfit plows for half or less what it costs with horses. Tells all about the "Light-Weight" of Avery Tractors that makes them a success where the heavy weight tractors fall down. Explains why Avery Tractors are the simplest tractors built, which makes them easy to handle and keep in running order. Describes the wonderful Avery "Self-Lift" plow that does away with the plowman, saving all his wages and board besides the hard work of lifting hand lever plows. Also explains fully about the Avery Mutual Benefit Selling Plan of Low Prices, Sold on Approval Terms and Strong Guarantees.

Write at once for my new complete 1913 Avery Tractor and Plow Book with Power Farming Facts and full information about Avery Tractors and Plows and Avery Mutual Benefit Selling Plan. Address: **AVERY COMPANY, 1009 Iowa Street, PEORIA, ILLINOIS** Also manufacturers of Avery Steam Traction Engines, "Yellow Fellow" Grain Thrashers and Gasoline Farm Trucks.

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Our selling plan is the fairest and most liberal ever offered on farm tractors and plows. You can buy an Avery Tractor and Plow Outfit at a low price. You can buy it on approval. Test it out right on your own farm. Don't keep it unless it proves up right and all we claim it to be. And after you have decided that it does all this, and have accepted it, we continue to back it up with strong guarantees. Of course we couldn't sell on such a plan unless we knew positively that Avery Tractors and Plows are absolutely reliable. There's no reason why you can't be saving money and hard work by Power Farming with an Avery One-Man Outfit, just like hundreds of others are already doing. Write and learn all the facts.

The Thrilling Story of the Wreck of the Titanic

The Most Appalling Marine Disaster in the History of the World!

The steamer Titanic, largest and most luxurious vessel in the world, on her first ocean trip, crumples her steel prow against an iceberg and in four hours the great floating palace sinks with 1600 persons aboard. Numbered among the victims were some of the world's multi-millionaires and men identified with the world's greatest activities.

1600 Human Lives LOST! And \$35,000,000 LOST!

Mothers and children were torn from husbands and fathers; sisters were separated from brothers, and forced to view their untimely deaths—that is the harrowing tale of the sinking of the Titanic. But there is also the valorous side of this tragic story—Following the chivalry of the sea in caring for the women and children first, is a story of self-sacrifice and heroism such as no page in history records, and is a glorious tribute to twentieth century civilization. The whole story is told by survivors in this authentic book which is lavishly illustrated with full page pictures showing the scenes of the sinking of the Titanic and the work of rescue. A big book of 320 pages—in cloth binding.

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When You Are ready to investigate the silo question, won't you write—and let us tell you of the quality in the



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The silo entirely different from all others.
Wood or tile.
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This remarkable record made by C. L. Hurd, Walnut, Okla. shows the possibilities of ensilage feeding. It proves that the Champion Silo is best in material, construction, improvements and a real profit maker worth investigating.

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THIS OFFER IS NO CATCH. It is a solid proposition to send, on trial, fully guaranteed, a new, well made, easy running separator for \$15.95. Skims hot or cold milk; making heavy or light cream. Designed especially for small dairies, hotels and private families. Different from this picture, which illustrates our large capacity machines. The bowl is a sanitary marvel, easily cleaned. Gears thoroughly protected. Western orders filled from Western points. Whether your dairy is large or small, write us and obtain our handsome free catalog. Address:
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FREE Cowboy Watch Fob



Here is the most unique, popular novelty of the year—a nifty little leather holster and metal gun, an exact duplicate of a "45" Army Colt's, with bright polished barrel and cylinder, black handle. Gun 2 1/2 in. long. Holster 2 1/2 in. long, genuine leather, tan color. Makes a neat appearing and serviceable watch fob or can be worn on belt as ornament. Worn by men, women, boys and girls. The one real western novelty. Sold in big cities at a high price. Send 10c to pay for 8-months trial subscription to our big farm and home magazine and receive the COWBOY WATCH FOB and GUN free. Address:
VALLEY FARMER, Dept. Fob-14, Topeka, Kan.

What Would Forty Cows Do?

BY O. E. REED
Dairyman, Kansas Agricultural College.

Will you please give me some figures on what I may expect from 40 fairly good Kansas cows on a 120-acre farm? I have a 200-ton silo, 40 acres of good alfalfa, and sell the milk at \$1.80 per 100 pounds. Would it be more profitable to sell cream and raise pigs on skim milk than to sell the whole milk as stated?—J. T. C., Sedgwick, Kan.

This inquiry is rather a difficult one to answer. I could not attempt to tell you how much profit you could expect from 40 average Kansas cows for several reasons. In the first place, I do not know what you would mean by a fairly good Kansas cow. In the second place, we know that the profits from a dairy depend so much on the individual cow, the feed, and the care that is given her.

The average Kansas cow produces something like 120 pounds of butter per year, and putting this on the milk basis means that the average production would be almost 3,000 pounds of milk in a year. Forty cows such as the average will not make very pleasing returns; in fact, they would just a little more than pay for their keep when the milk is sold at \$1.80 per 100 pounds. Your 200-ton silo would hold enough silage for feeding 40 cows for about 9 1/2 months. Forty acres of good alfalfa would more than furnish you enough hay for your herd for the entire year. With feed such as this on hand it would not be business like for one to feed it to the cows such as the average cow of Kansas. But the herd cow should average something around 6,000 pounds of milk a year, and by proper selection, breeding, and feeding, it is possible to build up a herd in a very few years that will make this average.

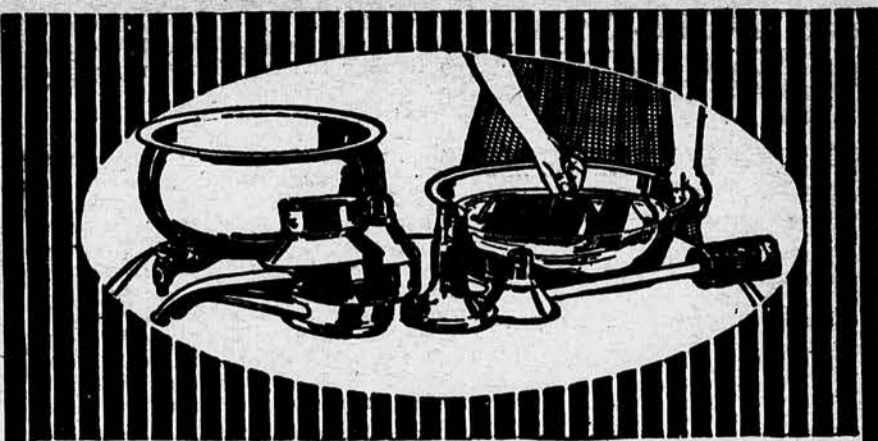
It would undoubtedly be more profitable to sell your milk at \$1.80 per 100 pounds than to sell the cream and feed the skim milk to the pigs. Skim milk would be worth about 35 cents a hundred as a hog feed, and 100 pounds of milk would contain possibly 4 pounds of butter fat, which would, if sold at the average price of butter fat, 25 cents per pound, bring you in \$1. This would mean that by selling the cream and feeding the skim milk you would obtain approximately \$1.35 per 100 pounds for the milk. If you can get this price the year around, it is a better money making proposition than the selling of cream.

Very often when dairymen sell their whole milk, they try to depend upon buying cows to keep up a supply of milk, and say that they cannot afford to feed the calves on milk when they can get \$1.80 per hundred, and comparing this cost with the selling price of good cows that are sold on the market today. We have shown by experimental results that with milk at \$2 per 100 pounds one can raise a heifer calf until she is 2 years of age, at which time she will freshen, for approximately \$48.72. It would be very difficult to buy a cow of this quality, provided she had a good sire, for anything like this figure. Where whole milk is sold, enough of it should be kept at home and separated to feed the calves. Manhattan, Kan.

Kansas Cows to New Mexico.

O. B. Clarke, of Albuquerque, N. M., a reader of the Farmers Mail and Breeze, stopped off at Topeka last week on his return trip from Kansas City, in search of a car load of young dairy cattle. With the assistance of Mr. Howard, Livestock editor of the Mail and Breeze he found 40 head of heifers, 30 Holsteins and 10 Jerseys. Ira Romig furnished most of the Holsteins, Kidd Brothers, of Shawnee county, a few and Frank B. Crocker the Jerseys. There is a great scarcity of purebred dairy stock in Kansas and prices are steadily advancing. These youngsters brought \$10 to \$15 per head more than they would have brought a year ago. Mr. Clarke is combining orcharding with dairying. A part of his farm is under irrigation. Still he realizes that he needs the fertility improvement which can only be had with livestock, and the dairy cow seems to fit in with his environment best. Mr. Clarke will sell his cream to a local creamery and the skim milk will be used to develop purebred Poland China pigs, descendants from foundation stock bought in Kansas. Alfalfa does well in Mr. Clarke's country but corn, on account of the cool nights, is often caught by early frosts. The silo is to overcome this drawback.

A good place for wood ashes is around the pear trees.



DE LAVAL Cream Separators ARE EASIEST TO WASH

The construction of the De Laval bowl is such that it can be completely taken apart for washing.

The discs, bowl parts and tinware have no tubes, crevices, holes or corrugated surfaces such as are found in other machines and which are very hard to clean.

The De Laval discs are washed as a single piece and the whole machine can be thoroughly

CLEANED IN FIVE MINUTES

There is no part of the De Laval bowl which cannot be easily reached and seen, so that the operator can always tell whether or not every part has been properly cleaned.

The ease with which the De Laval can be thoroughly washed and kept in a sanitary condition is one reason why creamerymen prefer De Laval to other separator cream, and is likewise one of the reasons why butter made from De Laval cream has scored highest at the National Dairy Show for over 20 years.

The new 78-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 De Laval catalog also mailed upon request. Write to nearest office.

THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

\$2 The Price You Get for About 8-lbs. of Butter Puts This Big SEPARATOR in Your HOME

Then the machine itself will earn the other easy payments before they are due. You have the machine to use twice a day on your farm. You get one-fourth to one-third more cream—have fresh, warm skim milk for the calves, pigs and chickens—make work easier for the women folks and before you realize it this big money maker is all paid for out of your extra cream profits. You don't feel the cost at all, especially at our low factory-to-farm prices of only \$24 and up.

NEW BUTTERFLY

\$24 and up New Butterfly Cream Separators are sold direct from the factory to you. No agents' commission—no dealers' profits to pay. No interest—no extras. You save half. For example—\$24 (payable only \$2 down and \$2 a month for 11 months) buys the New Butterfly Junior No. 2—light running, easy cleaning, close skimming, durable. GUARANTEED. A LIFETIME. Skims 25 quarts of milk per hour. Made also in four larger sizes up to No. 5 1-2, shown here. Free colored folder tells which size you need.

30 DAYS' FREE TRIAL—LIFETIME GUARANTEE
We ship any machine we make on 30 days' FREE TRIAL—allow you to use it on your own farm—test it in every way. If you are not fully satisfied, send it back at our expense and we will refund all you have paid, together with freight charges both ways, so you will not be out one penny. You can't afford to miss this opportunity to get a great separator at the \$2.00 and we will cover it TODAY. You take no risk. Write for FREE CATALOG FOLDER and Factory Price List TODAY.
ALBAUGH-DOVER CO., 2275 Marshall Blvd., Chicago, Ill.

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SHOULD BE CONTRACTED FOR BEFORE CONSTRUCTION CAN BE STARTED. EARLY BUYERS SAVE MONEY.
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Will Shoot 350 Times Without Reloading

AUTOMATIC REPEATER Works Like a WINCHESTER

BOYS—here is the Air Rifle you have always wanted—a real repeater that loads automatically just like a Winchester or a Marlin. Nearly 3 feet long, yet weighs only 2 pounds. Uses B B shot and shoots 350 times without reloading. Will kill, at long range, crows, hawks and all kinds of small game, such as squirrels, rabbits, etc. Barrel and all working parts made of high-grade steel, handsomely nickel plated; stock of finely polished black walnut. This splendid Rifle is just what you need for target practice and to take with you on your camping trips. No powder—no danger—yet it will shoot almost as hard and as far as a regular .22 caliber cartridge rifle. It is the safest and most powerful air rifle ever invented.

SEND NO MONEY! Just your name and address, and we will mail you, free and among your friends on our grand 25-Cent Combination Offer. Then send us the \$2.00 collected and we will ship you absolutely free and express charges prepaid, this 250-Shot Repeating Air Rifle to pay you for your work. Remember, you RISK not one penny as we take back pictures if you cannot dispose of them. We guarantee to refund the \$2.00 if you are not more than delighted with your Rifle after you receive it. Don't delay. Address at once.

BOYS' RIFLE CLUB, Dept. 13, Topeka, Kansas

FARM Power

CONDUCTED FOR FARMERS MAIL AND BREEZE BY E. B. CHALK.

Questions answered about gasoline engines, automobiles, and engine troubles. Give full information about trouble symptoms, kind, type, and make of engines. An answer by mail if self-addressed stamped envelope is enclosed.

Both Cylinders Spark at Same Time.

I have a Buick two-cylinder auto with a Reemy magneto. When the rear cylinder sparks the front cylinder sparks also, and the front cylinder sparks when it should and when the rear cylinder sparks. I should like to know what is wrong with it.—A. L., Kimball county, Nebraska.

You will find the rear cylinder sparks when the front one does, if you will examine the engine while it is being turned over by hand. All of the 2-cylinder magnetos do this, for the reason that they do not have a distributor. There is no distributor, or timer, for the high tension current, as the spark will do no harm in the cylinder that is not supposed to fire. In the 3-, 4-, or 6-cylinder machine, if a spark were admitted in the cylinder, it would cause

get so warm on account of road friction and for that reason should be pumped up to their full capacity. In the summer time if the tire starts out with 50 pounds of air pressure, the road friction and the heat from the road dust will soon run the pressure up to 60 or 70 pounds, but at this time of year if you start with 50 pounds pressure you will be apt to have the same amount when you get back if you do not have a puncture and nothing will ruin a tire as quickly as running it only partly pumped up. The manufacturer usually stamps on the side of the tire the pressure the tire should have and I have found tires will give better service if these directions are followed. Most makers recommend that a tire be run on 60 pounds pressure for a 3-inch tire, but I usually carry 55 in the summer when the weather is hot as I find that the expansion of the air due to heating will bring the pressure up to the required amount in a few miles but in the winter time it is best to start with the full 60 pounds. More tires are ruined by rim cutting, due to lack of pressure, than are hurt by too much pressure.

A couple of months ago we heard much about synthetic rubber and many papers predicted cheap tires. One pair



A 40 BHP oil tractor plowing, packing and harrowing at Gate Okla. A tractor of this size is adapted for doing general farm and field work on farms of 200 to 400 acres.

a "back fire" and keep the engine from running. As the 2-cylinder magneto will work just as well with the spark occurring in both cylinders at the same time, the distributor is left off in order to make them cheaper.

How to Start a Cold Engine.

Poor batteries and the kind of gasoline we get these days make the engine hard to start when it is cold. An ounce of gasoline poured in the intake of the carburetor or mixing valve of the engine will do more good than 17 turns of the starting crank when the engine is cold. While it is more trouble, the gasoline will do the work just as well if a spark plug is removed and the gasoline poured directly into the cylinder. Some drivers carry a bottle of ether and use a small quantity in the carburetor. While it will do the work, it is considerable bother as the stuff must be kept in an air-tight container or it will all evaporate.

If an oil can with a small spout is used, gasoline can be kept in it for a considerable time without much evaporation. The best method is to keep an oil can filled with gasoline in some convenient place near the engine and fill the priming cups or pour the gasoline in the carburetor. In this way the primer is always handy and this is a decided advantage over carrying the primer in a bottle.

In really cold weather it will sometimes be necessary to warm the intake pipes and the surest way is to use warm water. If a piece of rag is wrapped around the carburetor or intake manifold and warm water poured on the rag it will soon warm up enough so that it will even start in the coldest weather.

One thing a person should be careful about, is trying to warm up an engine with any kind of fire.

Tire Pressure in Cold Weather.

With cooler weather you should remember the tires on your auto will not

of tires was made of this artificial rubber. While equal in wearing qualities to the natural product, it was found a set of four tires would cost \$20,000. If you need new tires, it will hardly pay to wait for the artificial rubber to make them cheaper.

Auto Comfort in Winter.

The wind shield is really of more service in the winter than in the summer and at the price they are now selling will prove a good investment to the man who intends to use his auto all winter.

All of the new up to date cars are equipped with foredoors or front seat doors which make the car more comfortable in cold weather. Many drivers of old cars, with front seat entrance open, have made doors of canvas or curtain cloth which are fastened to the dash by tacks and are buttoned to the driver's seat with carriage knobs or curtain fasteners. While these are bothersome to fasten, they make the car enough warmer to pay for the extra trouble.

Where the engine is under the hood and the front entrance inclosed removing the toe board and allowing the hot air from the engine to come up in the body will help to make the car warmer.

Thinner oil and grease should be used in cold weather, the thick grease that is used in the summer will be inclined to get so stiff that it will not lubricate properly and where the mechanical oiler is used the oiler will not furnish as much oil as it will in the summer.

Dry cells that are used for ignition purposes should be kept from freezing as a frozen cell will not furnish electricity and this is one of the things that cause hard starting.

A cell that has been frozen can be made to furnish current by thawing it out, but it will never be as good as one that has not been frozen, for the crevices in the cell cause it to have an internal short circuit.

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Taking Things as They Come.

It ain't no use to grumble and complain;
It's just as cheap and easy to rejoice;
When God sorts out the weather and sends
rain,
Why rain's my choice.

In this existence dry and wet
Will overtake the best of men—
Some little skiff o' clouds 'll shet
The sun off now and then
But maybe while you're wonderin' who
You've fool-like lent your umbrell' to,
And want it—out'll pop the sun,
And you'll be glad you ain't got none!

It aggravates the farmers, too—
They's too much wet, or too much sun,
Er work, or waitin' round to do
Before the plowin' done,
And maybe, like as not, the wheat,
Just as it's lookin' hard to beat,
Will ketch the storm, and jest about
The time the corn's a-jintin' out!

These here cyclones a-foolin' 'round—
And backward crops—and wind and rain,
And yit the corn that's wallered down
May elbow up again!
They ain't no sense, as I kin see,
In mortals, such as you and me,
A-faultin' nature's wise intents,
And lockin' horns with Providence.
—James Whitcomb Riley.

Disking to Hold Moisture

AS ADVOCATED BY CAMPBELL.

These diagrams show how soil moisture is lost, also its conservation through disking, as advocated by H. W. Campbell, of dry-farming fame, who believes proper tillage will double the yield.



HARD AND CRACKED OPEN.

This view represents hard, cracked open soil that has not been tilled, showing how clod formation takes place and the depth at which moisture can escape from the ground.



TOO MUCH AIR SPACE.

This view represents ground plowed, showing the air space between the turned over slice and the ground beneath. The air space prevents a firm and compact seed bed from being made and stops capillary attraction with sub-soil.



DISKED AFTER PLOWING.

This view is plowed ground disking. Note that the air spaces still exist. This is what happens when corn stalk ground is plowed without first being disking. Corn stalk roots and other trash prevent the ground from becoming compact and firm.



DISKED BEFORE PLOWING.

This view is ground disking before it is plowed. The mulch of dirt breaks up capillary attraction so that moisture cannot escape from the top of the ground. This permits what moisture there is in the ground to come close to the surface.



DISKED BEFORE AND AFTER.

This view is the disking surface shown in ground disking before it is plowed. Disking the ground before it is plowed leaves a mulch of fine dirt which fills up the air spaces left between the furrowed slice and the ground beneath, thus making the foundation for a firm and compact seed bed.



DISKED BEFORE AND AFTER.

This view illustrates disking before and after plowing. When the ground is treated in this manner the seedbed becomes compact and firm in a much shorter time and forms a means of capillary attraction. This treatment puts

the ground in such condition that a farmer is not taking any chances whether the season be wet, dry or normal.

Production Leads Population

NO FOOD SHORTAGE YET.

Recent investigations made through the consular service of the department of state, and other sources, show conclusively that in the last 10 or 15 years substantial increases in the prices of agricultural products have occurred in every important country of the world; that the phenomenon of recent so-called high cost of living is world-wide in its scope. Also, that the world's production of the staple food products has been increasing and at a rate faster than the increase of population. The world's per capita consumption of agricultural products in the last few years has probably been larger than at any former period, says the report.

The population of the civilized world, excluding China, has been increasing at the rate of about 1 per cent a year. But the annual increase in the world's production of staple products in the last 15 years has been much greater than that. For wheat it is about 2.4 per cent, for corn nearly 2.8 per cent, or 78 million bushels a year. The total so-called world's corn area is about 145 million acres, or about 15 per cent smaller than the state of Texas.

Some Odious Comparisons

ALSO SOME EXCUSES.

A table of the comparative per acre yield of corn in various states was given in the November crop bulletin of the U. S. department of agriculture. Here are some of them:

Ohio	36.8 bushels
Indiana	36.4 bushels
Illinois	35.9 bushels
Michigan	32.2 bushels
Wisconsin	33.4 bushels
Iowa	32.7 bushels
Nebraska	28.1 bushels
South Dakota	27.3 bushels
Kansas	23.0 bushels

Land in Ohio has yielded, during a period of 10 years, an average of 50 per cent more corn than land in Kansas. In Ohio, Indiana, Illinois and several others of the older states, the soil is popularly supposed to have been worn out to some extent, yet they all get more corn per acre. For one reason they get more moisture than we do and get it later in the season. Possibly, too, they do not farm as much ground per man. Then they have not a dry-farming belt in which yields are smaller to affect the average. Kansas, however, does not rank up with Nebraska or South Dakota, states which have dry-belts much like her own, but their soils are younger. Excuses of course can be found, yet the fact remains Kansas can get more corn per acre and better corn per acre than it does.

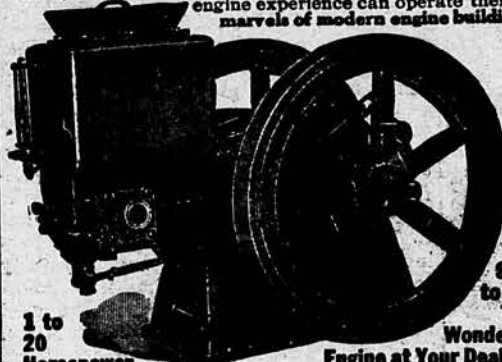
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I H C tractors are made in every approved style, and in 12, 15, 20, 25, 30, 45 and 60-horse power sizes. I H C general purpose engines, for use on the farm and in the shop, mill and factory are made in 1 to 50-horse power sizes. The I H C local dealer will give you catalogues and full information. See him, or write

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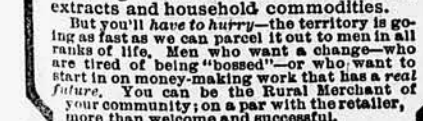
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INGVALD GRUDEM, Pipestone, Minn.
Remember—what one man has done, another man can do. What Mr. Grudem succeeded in doing, is also open to you.
The line is so good, so reliable in every way that it makes friends everywhere it is tried—so the women folks all wait for the Ward representative.
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Don't lose this chance for independence—for a fine live work that will mean big money. Investigation costs nothing, and you may live to bless the day you made the start. Remember—we furnish goods free to start—Do it now.
Dr. Ward's Medical Company, 58 Washington St., Winona, Minn.

the advantages to him of co-operative buying. One important cause of the high cost of living is the un-economic way we buy and sell. When we were producing more food stuff than we could consume, there was no particular reason for economy. Our wasteful system grew up when the markets of the world were fairly slushed with food. Food has become scarce and we still continue these wasteful methods. Formerly, the village or town lived largely off the surrounding country, then the local market was the farmer's chief market. The town and country were inter-dependent. Now the farmer ships what he has to sell to a central market like Kansas City, Chicago, or New York. What the town man eats and wears is shipped from a central market like Kansas City, Chicago or New York. Now, the town and country are independent. It is said that Troy, New York, receives its Milo supply from New York City, with a favorable season and a bountiful harvest in Kansas, and Wisconsin.

The consumer buys in small lots, usually over the telephone and insists upon immediate delivery. He has gotten over the habit of buying in quantities. Formerly the winter's supply of apples, potatoes, onions, etc., were laid in in the fall. Now they are purchased as needed from day to day, usually in quantities not to exceed a peck. This practically prevents the possibility of the farmer selling such to the consumer. He hasn't the time to deliver in daily and small quantities. The remedy is to be found in inducing the consumer to buy in large quantities and this is feasible if a substantial saving can be effected. In establishing local co-operative stores, the farmers may take orders and deliver for all the members of the association. (To Be Continued.)

Alfalfa by Well Irrigation

BL J. W. LOUGH
Editor's Note—Pictures of Mr. Lough's immense crops of alfalfa have appeared from time to time in the Mail and Breeze and afford abundant proof of the credibility of his statements with regard to the possibilities of irrigation from wells in the shortgrass country.

For ages and ages this western land has lain here in dry storage never drenched or washed out by beating rains. I believe it is the richest soil on earth and when once the underflow is brought to the surface and applied to the soil it will be almost impossible to place a value on the land from the standpoint of its possibilities in crop production. I have been engaged in irrigation here for three years and have demonstrated these things to my own satisfaction. I have two wells in operation that afford ample water for 400 acres of alfalfa. These plants cost me \$6,000 each but could now be duplicated for \$3,500 each. I have grown four crops of alfalfa in one season. But there was uphill pushing at first. I have worked hard and had many headaches and hardships on account of inexperience but now consider that I have come out on top and am being paid tenfold for all my trouble.

To show how quickly buffalo sod could be transferred into an alfalfa field I broke some sod on May 1, 1912, double disked it and seeded it to alfalfa on May 8. I followed the seeding with water and got a perfect stand. It grew rather unevenly and on July 8, when it was from 6 to 10 inches high, I clipped it and followed with water again. On August 10 I cut it a second time. It was then fully 18 inches high. E. E. Coffin of Scott City, and C. M. Niquette of Garden City estimated the yield to be a good ton per acre. I cut a third crop fully as good on September 25. This may be hard to believe but it is a fact nevertheless. On May 25, 1911, I sowed a piece of alfalfa that made 5 tons per acre last year.

Many a man not acquainted with the facts will say he couldn't afford to pump this water as it would be too expensive. But what would this expense amount to in comparison with the crops produced under irrigation as against those raised under dry farming methods? The cost of irrigating will not exceed \$3 per acre through a whole season and in years of good rainfall this will be cut down a half or more. We can realize at least \$50 per acre each season. I need not tell you how this compares with profits in dry farmed crops.

Scott City, Kan.

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With each book we also send free a beautiful colored picture of Queen—oil painting effect—suitable for framing.

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745 Adams St., Chicago, Ill.



New England Does Grow Big Corn

HERE ARE THE FACTS.

Mr. Editor—In a recent issue of Farmers Mail and Breeze the editor of the "Farm Doin's" column made a few ironical remarks about the purported big crops of corn grown in that region of the United States where the hills are tall and where they harvest a crop of cobblestones every season. The writer sarcastically inquires, "Why, if they can grow such crops of corn, they are all the time buying corn from the West."

That is easy. They haven't the room. A Vermonter visiting in Ohio insisted that they grew just as much corn per acre as we do in Ohio. I could not believe it until I saw it growing but if they can get a triangular patch of 3 acres into one piece they think they have a big field. These little strips and corners lying between hills are wonderfully fertile. They plant their little 8-rowed corn 3 feet apart each way, give it the best of care and get an immense yield. While the stalks seldom grow more than 4 or 5 feet high the foliage is immense and most of the stalks bear more than one ear.

Last season they held a great corn growing contest in New England. There were six prizes offered and the average yield of the winners was 99 bushels per acre. The six yields ranged from 90 to 123 bushels per acre. The winners represented four states: Maine, Vermont,

3 Minutes Sharpens Dull Axes

"It took just 3 minutes to put very dull ax in perfect order," writes J. A. Budan, of Newark, Del. Thousands more like this. DIMO-GRIT, the new artificial diamond sharpening wheels, quickly sharpens plow points, saws, axes, sickles, snags, knives, and all farm tools at a saving of work, time and money.

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has metal frame, enclosed shaft drive, dust-proof bearings, runs easy as sewing machine, 25 times faster than grindstone, 10 times better than emery, will not draw forge, milk boiler, 3 1/2 gal. rip saw, lathe, drill, etc., furnished in 10 standard sizes, fully guaranteed. Write for free book on tool grinding and liberal free trial offer.

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16 Beautiful Pictures FREE

I want to make you a present of this beautiful set of 16 four-colored, gold bordered pictures. Each of these beautiful pictures is a masterpiece, and their tender sentiments will touch a responsive chord in every heart. Each picture is different. Many religious pictures, such as "Rock of Ages," "The Lord's Supper," "An Illustrated Prayer," and other equally as beautiful subjects. Also pictures of fruits, animals and farm scenes, all in many colors. The views are wonderfully true to life. In addition to the 16 pictures I have a great big surprise gift offer that I want to send you.

These pictures are very beautiful. I cannot give you an adequate conception of them without you seeing the pictures yourself. That is why I want to send you a set almost free. All I ask is you show the pictures to a few of your friends, and send me five cents in stamps to help cover postage, packing and handling charges. Sign coupon below if you want the 16 pictures and surprise gift offer.

Garrett Wall, 716 Lucas Ave., St. Louis, Mo.:

Please send me at once, absolutely free the 16 pictures, also your wonderful surprise offer. I enclose five cents in stamps to help pay postage and mailing charges on the pictures.

Name

Address

Good intentions won't burn chinch bugs nor keep them out of the corn next summer.

Massachusetts and Connecticut. The most stringent rules were observed in the contest, the land and yields being measured and sworn to by disinterested men.

I know this gives Kansas farmers spasms, because in speaking of bushels of corn these eastern farmers sometimes mean bushels of ears. Let me relieve the editor of "Farm Doin's" by saying that the foregoing yields mean shelled corn all the way through. Eastern farming looks like mighty small business to Kansas farmers but this corn contest shows the possibilities of corn growing among the granite hills of New England. "New Englander."

Huron county, Ohio.

10 DAYS FREE TRIAL

We ship on approval without a cent deposit. Freight **PAY A CENT** if you are not satisfied after using the bicycle 10 days.

DO NOT BUY a bicycle or a part at any price until you receive our latest art catalog illustrating every kind of bicycle, and have learned our standard prices and marvelous new offers.

ONE CENT in all. It will cost you nothing will be sent you free postpaid by return mail. You will get valuable information. Do not wait, write it now.

THREE Complete - Brake rear wheels, lamp, springs at low usual prices.

Head Cycle Co. Dept. C11 Chicago

American Beauty Art Calendar F-R-E-E

Attractive Premium Offer to Weekly Capital Readers

We are now distributing among our readers, free of cost, one of the most beautiful art calendars ever made. We have offered beautiful calendars in the past, but this is by far the most beautiful that we have ever before been able to offer. The calendar measures 8 1/4 inches wide by 3 feet long, and the magnificent design, lithographed in 14 colors, is the work of one of the most capable portrait artists in America. The coloring is exquisite and true to life.



The picture is that of a very beautiful girl, daintily gowned, looking through a large panel bordered with American Beauty roses. The finished picture is put through what is known as the "roughing process" which gives a wonderfully accurate reproduction of real canvas.

A calendar for every month of the year 1913 is printed on the back of the picture, and there is no advertising on the picture side to mar its beauty in any way. The calendar is tinned and fitted with a metal hanger at the top and has a daintily covered pasteboard tube at the bottom which prevents the calendar from curling up and making it unnecessary to mar the picture in any way by using pins or tacks.

You must see this masterpiece of art in order to fully appreciate its unusual beauty. It is an art work which we believe would retail at a very high price in any of the art stores. As long as the supply lasts we are going to send these calendars free and postpaid on the following liberal offer:

OUR BIG 10c OFFER

One calendar free to all who send 10 cents coin or stamps to pay for one new 3-months' trial subscription to the Weekly Capital. This offer is made for new subscriptions and is good for 20 days only. Better send for your calendar at once. Address Weekly Capital, Calendar Dept. 13-R, Topeka, Kansas.

Use This Coupon

Weekly Capital, Calendar Dept. 13-R, Topeka, Kan. I enclose 10c to pay for one new 3-months' trial subscription to Weekly Capital. You are to send one art calendar free and postpaid.

Name

Address

6 Beautiful Narcissus Silver Tablespoons FREE

To Match Our Teaspoons

Extra Special 20-Day Offer To Mail and Breeze Readers!

Here is a chance for every housewife who reads the Mail and Breeze to secure absolutely free a set of 6 of our famous Narcissus Silver Plated Table Spoons. During the past 5 years we have given away thousands of sets of these beautiful table spoons, but never before have we been in a position to make such an attractive offer as we are now making to the women folks who read the Mail and Breeze.

Owing to our large purchases we have secured a price on these spoons which we believe is about one-fourth the price any local dealer would ask for the same grade of goods.

We have searched through the silver plate markets of the world and have never been able to find, at anything near the same cost, goods of such remarkable wearing qualities and of such beautiful design as this justly famous Narcissus set.

Full Standard Length and Weight

These are not small sized dessert spoons which are usually offered as premiums. These spoons are all full standard table spoon size, 8 1/4 inches long—handle 5 1/4 inches long, bowl 3 inches long and 1 1/2 inches wide. They are silver plated and handsomely engraved and embossed in the beautiful Narcissus design, same as the Narcissus teaspoons which we have been giving away for more than two years. Bowl is highly polished and the handle finished in the popular French gray style. The Narcissus design extends the full length of the handle on both sides. The gray finish of the handle contrasts with the bright polished bowl and produces an effect that is decidedly pleasing.

We could send you hundreds of enthusiastic letters from those of our readers who have received these spoons on other offers we have made in the past. We know they will please you, too—and if they don't you can send them back within 5 days and we will cheerfully refund every penny of your money.

Here Is Our Offer:

For the next 20 days, or as long as our supply lasts, we will give one set of 6 Narcissus Table Spoons free and postpaid to all who fill out the coupon printed below and send \$2 to pay for a three-year new, renewal or extension subscription to Farmers Mail and Breeze.

We will send one set free and postpaid for three one-year subscriptions to the Mail and Breeze at our regular rate of \$1 per year. One of these subscriptions may be your own renewal, but the other two must be new subscriptions.

If you want to be sure of securing one of these beautiful sets before our offer is withdrawn clip out the coupon and send it in today. Address

FARMERS MAIL AND BREEZE, TOPEKA, KANSAS.

Use This Coupon Now!

Publisher Mail and Breeze, Topeka, Kansas.

I am enclosing herewith \$2 to pay in advance for a three-year subscription to Farmers Mail and Breeze. You are to send me as a free premium, postpaid, one set of 6 full size Narcissus Silver Plated Table Spoons.

This is a (new) (renewal) (extension) subscription.

Name

Address

(If you send 3 one-year subscriptions use a separate sheet of paper for the 3 names.)

Stop Bird Slaughter in Kansas

Mr. Editor—My definition of a sportsman would be, "a person of wealth and leisure who spends a good portion of his time shooting glass balls until he becomes so expert that no quail, prairie chicken, woodcock, or other bird can escape his murderous fire."

There are few people in Kansas who would come in this class called sportsmen, perhaps not more than 1 in 100. This being true what right has this hundredth man to have laws passed in his favor at the expense and to the detriment of the other 99? The farmers of Kansas are suffering the loss of millions of dollars each year through chinch bugs, grasshoppers and weed seeds, a loss that would otherwise be materially cut down if our song and insect eating birds were left to propagate unmolested. Two weeks is all the time the expert marksmen needs to annihilate all the birds that may be reared in a year.

The only effective law that will stop these outrages is to prohibit the slaughter of useful birds entirely. This matter is of vital interest to the farmers of Kansas. We need this law in Kansas and it should be made so that it may be effectively enforced. When a man is found hunting with a gun and dog let that be prima facie evidence he is violating the law. Your sportsman does not hunt birds without the aid of a dog.

Hill City Kan. A. J. Rice.

A Leader Among Farm Journals.

Mr. Editor—The Mail and Breeze is certainly a leader among farm papers.

Harry K. Larsen.

R. 2, Hope, Kan.

South Carolina and some other states are boasting that they can grow more corn to the acre than can be grown in Kansas and Iowa. To the 1-acre, it is true. But not to the million acres.—Industrialist.


3 MACHINES IN 1

A perfect seed bed is as important as to sow or plant. The Western Pulverizer, Pack and Masher makes a perfect seed bed and leaves a loose mulch on top to retain the moisture in one operation. It will double profits on crops. Made in 3 sizes. 1 and 3 sections. Sold direct to you on one year's trial. Prices, \$22.00 and up.



WE WANT every farmer and landowner to have our illustrated circular. It describes the machine, its principle and advantages over all others. It gives testimonials from many farmers proving that it will do on wheat, alfalfa and other crops. It contains valuable information on how to prepare the soil for better results. Send for this circular today, whether you want to buy or not.

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Hastings, Nebr.
Box 212



There is no question as to the money saved and extra yield from land that has been tiled. Let us send you the proof by your fellow farmers who have drained their land. Booklet mailed free, "Hints on Farm Drainage," "Methods and Results of Draining Land," by **HUMBOLDT BRICK MFG. CO.** HUMBOLDT, KANS.

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But He Dug.

He wanted a job, and like everyone else, He wanted a good one, you know; Where his clothes would not soil and his hands would keep clean, And the salary mustn't be low. He asked for a pen, but they gave him a spade, And he half turned away with a shrug. But he altered his mind, and seizing the spade—he dug.

He worked with a will that is bound to succeed, And the months and the years went along, The way it was rough and the labor was hard, But his heart he kept filled with a song. Some jeered him and sneered at the task, but he plugged Just as hard as he ever could plug; Their words never seemed to disturb him a bit—as he dug.

The day came at last when they called for the spade, And gave him a pen in its place; The joy of achievement was sweet to his taste, And victory shown on his face. We can't always get what we hope for at first, Success cuts many queer jigs; But one thing is sure—a man will succeed—if he digs!

—Louis E. Thayer.

Two Good Late Forage Crops

BY DAVID BRODIE, U. S. Department of Agriculture.

Mr. Editor—In the Southwest the early varieties of both cowpeas and soybeans may be successfully sown for hay or pasture as late as July 20. Both crops are equal or superior to clover in feeding value and are relished by every class of stock on the farm. Cowpeas will make from 1 to 3 tons per acre. New Era is one of the earliest varieties, maturing seed in 60 to 80 days after sowing. Other early varieties are Early Blackeye and Michigan Favorite. Whip-poorwill, while a little later, is a more vigorous grower and a general favorite for hay or pasture.

In Missouri and Kansas a cowpea crop can be grown after an early grain crop has been removed. New Era is one of the best varieties for this purpose. The most satisfactory results are secured by seeding on well prepared ground in rows 27 to 30 inches apart, at the rate of

An acre of unburned bunch grass contains "seed" for 1/2 billion chinch bugs —if you want to raise that many.

about 1/2 bushel per acre. Keep the rows cultivated. If seeded broadcast at least 1 bushel should be sown and the crop harrowed in. Cowpeas sown in standing corn at the last cultivation will furnish a large amount of pasture, and this method of handling the crop is recommended.

Soybeans are more productive of seed than cowpeas and are equally as rich in feeding value. The hay is valuable for dairy cows, brood sows and young stock. Seed in rows 24 to 32 inches apart, at the rate of 1/2 to 3/4 bushel per acre on well-prepared ground and cultivate the crop. Ogemaw is one of the earliest varieties, maturing seed in 70 to 90 days. Extra Early Dwarf and Early Yellow mature in about the same time. Ito San is a medium early variety and a good seed yielder. Hollybrook is still later and a heavy producer of forage.

Dr. Mayo Found the Tick Remedy

Those who were readers of the Mail and Breeze 8 and 10 years ago will remember Dr. N. S. Mayo, at that time head of the Veterinary department of Kansas Agricultural college and a frequent contributor to the columns of the Mail and Breeze. A recent bulletin from the U. S. bureau of animal industry gives Dr. Mayo credit for the intro-

duction into the United States of the arsenical dip solution for the destruction of the southern cattle ticks. Doctor Mayo devised the solution that is now used, with slight modification, while chief of the department of animal industry of the Republic of Cuba. The arsenical solutions have displaced all other dips for the destruction of cattle ticks and have proved a great boon to the southern cattle growers.

Argentina's Wheat Crop Large

The total production of wheat in Argentina, Australia, and New Zealand, this season is 321 million bushels, or 130.7 per cent of the production in these countries last season.

Treat and Train Your Own Horses

Prof. Gleason's Big Book, Given Free To Mail and Breeze Readers, Shows How To Prevent and Cure Most All Livestock Diseases and How To Break, Tame and Train Wildest Horses.

This is an announcement that should interest every reader of the Mail and Breeze who owns a horse or livestock of any kind. Professor O. W. Gleason's great veterinary hand-book is admittedly the most authoritative work of the kind ever published. It contains more than 500 profusely illustrated pages dealing with the cause and cure of practically every disease known to horses, cattle, sheep, poultry, swine, and dogs, with tried out, proved remedies for each disease.

Realizing the need for knowledge such as this book contains we have purchased a large edition from the publishers and are going to distribute the entire lot on a very liberal and very attractive free gift offer among the readers of this paper.

It is impossible in this limited space to name even a very small part of the hundreds of subjects covered in this great book. Gleason's Veterinary Hand Book is based largely upon the works of Robert McClure, M. D., V. S., one of the most uniformly successful veterinarians this country has ever produced. The methods of treating diseases of horses and other domestic animals are based upon the result of actual practice, not mere theory as is the case with most veterinary books.

Among the many important chapters are Causes of Diseases, How to Observe Diseases, Treatment of Diseases, Cerebro-Spinal Meningitis, Disemper, Dysentery, Eye Diseases, Fistula, Glanders, Internal Diseases, Kidney Diseases, Poisons, Stomach Diseases, Bowel Diseases, Worms, etc., etc.

These are but a few of the hundreds of important subjects covered in Part One of this great book. Special chapters are devoted to the cause and cure of practically every disease known to all livestock.

Part Two contains Prof. Gleason's Famous System of Horse Breaking, Taming and Training. Gleason's marvelous skill in training and treating horses is known throughout the entire world and he is considered the world's greatest authority in this field.

By a special arrangement direct with the publishers we are able for a limited time to offer "Gleason's Horse Book" absolutely free—postage prepaid—to all who send \$1.00 to pay for a one-year new, renewal or extension subscription to our big farm weekly. Send your name and \$1.00 at once. MAIL AND BREEZE, Dept. H. B-200, Topeka, Kan.

Crowded quarters are often responsible for egg eating.

How Keep Down Living Expenses?

THE MAIL AND BREEZE wants to publish the personal experiences of its readers who have found a way or ways to reduce or lower expenses—be the way or ways ever so humble. No idea or suggestion is of too little consequence.

How shall we keep down or lower expenses?
Will a family garden help?
Can we manage better?
Can we buy to better advantage by buying in quantities?
Should we put up more of our own supplies, such as meats, canned goods, etc.
Give your experience, suggest some plan or way that has helped you. Your name will not be published if you wish it withheld.

A year's subscription to the Topeka Daily Capital is offered for the best letter of this kind received before February 15, a year of the Mail and Breeze for each of the next two. Address letters to Expense Editor, the Mail and Breeze, Topeka.

From Childhood to Old Age Kimball Pianos Are Pleasing in Tone



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Mrs. Piano Buyer Before making the purchase of a piano for your home and children we are sure you will want to see our catalogue—you will want to know about our new plan of selling and distributing our pianos direct from our factory and from our various factory distributing points. Write us today for our **Money Saving Plan and Free Catalogues**

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Kimball Pianos possess many important exclusive features, such as our *hermetically sealed metal covered pin block—the heart of the piano—impervious to dampness, unaffected by heat or cold, strings scientifically treated to prevent rusting, and other valuable features that give the Kimball that *hermion* voice and most splendid music quality.*

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There are very few persons who are not lovers of good music. Unfortunately there have been but a limited number that could produce it, but now with a Kimball Player-Piano in the home, the young, the old and even the feeble "indoor" people can play and reproduce the "Grand Opera" or play any and all of the old time songs or popular pieces.

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Fill out the coupon below and send to us today and get FREE our handsome booklets and the Musical Herald, containing two pretty songs, words and music—also valuable piano information, our prices and terms. WRITE TODAY.

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You may send me Free and postpaid your book showing Hansen's Gloves. I am most interested in the styles for following purpose:

Mention what kind of work, driving or sport.

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Town.....
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THE GLIDE '38-42' is right up-to-the-minute. Has all the new features that a car should have, regardless of cost. You'll be proud of a GLIDE in any company.

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Demountable Rims. Goodyear Non-Rim-Cut Tires. 118-inch wheel base.

The GLIDE pays a *bigger service dividend* on your investment than any other car.

Write Now for 1913 Bulletin describing and illustrating the GLIDE '38-42' in detail, in both two and five-passenger styles. Get your pencil out *right now* and drop us a postal before you forget.

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If the GLIDE agency is open in your territory you may have it NOW on advantageous terms. Later you'll not be able to get it on any terms. Once a GLIDE dealer, always a GLIDE dealer. It's an asset a man doesn't give up. Write today.



Fully equipped \$1690
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GENUINE DAMASK Table Linen Set FREE

This beautiful and durable table set consists of one Table Cloth and six fringed Napkins, full standard size as stated above. Made of genuine German Damask that is absolutely guaranteed to wear and retain its color and appearance after washing. The illustration falls far short of doing this magnificent set justice. It is pure white center with delicate tinted borders. A set that any woman will be very proud of.

Send No Money We are giving away a limited number of these beautiful sets to those who are willing to give us a few moments' time. We are introducing a new line of superb Enamelled Art Pictures—the most beautiful line ever offered. They're big value at 25c each. We allow you to offer two pictures and a year's choice reading all for 25c. If you want to earn the free Table Set send name and address and we will mail you 20 pictures. Distribute these at 2 for 25c, including a year's reading. Send us the \$2.50 collected and we send you the table set absolutely free and prepaid. Send your name and address today. A postal card will do.

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FREE Six Beautiful !! MONTHLY-BLOOMING ROSES !!

Here is the most attractive Free Premium offer ever made! It is an offer which should bring 50,000 new subscriptions to our popular farm magazine during the next few weeks. Everyone loves flowers and the one special favorite of all is the Rose. In order to make this by far the most attractive and most winning offer ever advertised, we have secured a superb collection of six of the most beautiful roses to be found in America. They are not cheap, common varieties—they are the rarest and most famous plants ever offered. They are well-rooted, strong and healthy—guaranteed to give satisfaction or money cheerfully refunded. We head this big-value collection with



The "Blumenschmidt"

The Latest and Most Beautiful Rose Discovery! This latest and most beautiful variety is alone worth more than the small sum we ask you to send on this special offer. In this newest Rose creation we offer you an improved and glorifying, monthly blooming plant, with flowers of pure citron-yellow, outer petals edged with the slightest tint of rose. A variety of most vigorous growth and winner of many premiums at horticultural shows.

In all, Six Different Colors: Red, White, Silvery-Carmine, Golden Yellow, Pink and Crimson. The other Roses included in this most exceptional offer are all first quality plants, carefully packed and sent prepaid at proper time for planting. They are as follows: The wonderful new CRIMSON BEDDER; the HELEN GOULD, a magnificent, velvety, pink everbloomer; the BETTY, a remarkably fine shade of golden yellow; the MME. JENNY GULLIMOT, finest silvery-carmine rose ever offered; the WHITE MAMAN COCHET, snowy white, with rich, full flowers. This liberal offer is made solely for the purpose of advertising our big farm paper, The Mail and Breeze. Here is our offer. We send all the above collection of six fine roses with One Year's subscription for only \$1.00. Order at once before they are gone. Address

FARMERS MAIL AND BREEZE, Rose Dept., 801 Jackson St., TOPEKA, KANSAS

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THE MOLIER COLLEGE, 514 Main St., Kansas City, Mo.

The Talk of Increased Yields

WHAT'S BACK OF IT.

The average farmer doesn't take kindly to the doctrine of increasing yields for fear it will lead to lower prices. For a time this might be the effect if every farmer tried to double his yield per acre, and succeeded. But not one in 10 men makes the effort now, possibly not one in 50. Yet the time is coming, is not far distant, when this will be the chief endeavor of every western farmer.

In the meantime if the average farmer doesn't wish to double his yield of wheat on the 30, 60, or 100 acres he devotes to the crop, why not let him get at it this way: Let him use the better methods, but cut down his acreage in wheat in proportion to the increase he can develop in yield. This would be better farming all around, give him more of a chance to rotate his wheat ground, increase the efficiency of his soil and improve his own skill in farming.

Back of this movement for increasing yields, which is favored by the railroads in their natural desire to create more business along their lines, are some facts like these: Along with the sundry and various shortages, now generally acknowledged, a shortage of farmers is looming up as a little more than a possibility—the most perilous shortage of all. Meanwhile the population, which has to be fed and clothed, is increasing by something more than a million a year, our importation of farm products is continually increasing, and our exportation of such products shows enormous decreases.

Think it out for yourself, these are the signs of the times and they indicate that the day may not be so very remote, when, by the will of the majority of the people of the United States the farm

Every chinch bug singled this winter means 500 less to feed next summer.

products of South America will be admitted to our markets duty free, by way of the Mississippi, that the American nation may be fed. Therefore why not get ready to hold the home market as long as we can, use better methods in marketing, and reap the reward of better prices sure to be realized when farming is made more of a business than it is now?

Rebuilding an Old Wagon Gear.
 [Prize Suggestion.]

Mr. Editor—I had an old farm wagon running gear with spokes dished and fellows broken that had been standing around useless for years. Out of this I have made a low wheeled wagon that is handy and convenient and for which I find many uses. I cut off the spokes of the front wheels so as to make each 20 inches in diameter while the rear wheels were cut down to 24 inches. First I had a blacksmith cut and weld the tires to these sizes and then I laid them over the wheels and marked each spoke where it was to be cut. The spokes were cut 1/8 inch longer than marked so the tire would fit tight when cold. Then I heated the tires and put them on the wheels while hot, but not red hot. I cooled them with water at once, then drilled a hole through the tires over each spoke. A screw was put in at each spoke to keep the tire from slipping and the job was done. No fellows are needed for such a wheel. In marking the spokes for sawing it is well to mark the position of the tire on the wheel so as to make it fit after spokes are cut off. I had a 20-foot box on this wagon last winter for feeding cattle and it worked fine.

Hays, Kan. Ed. Kraus.

From An Oklahoma Reader.
 Mr. Editor—We enjoy the Mail and Breeze very much. William Merritt.
 R. 5, Lawton, Okla.

Good looking fruit on top of the basket will get you new customers, but only honest quality lower down will keep them.

SAVE-THE-HORSE
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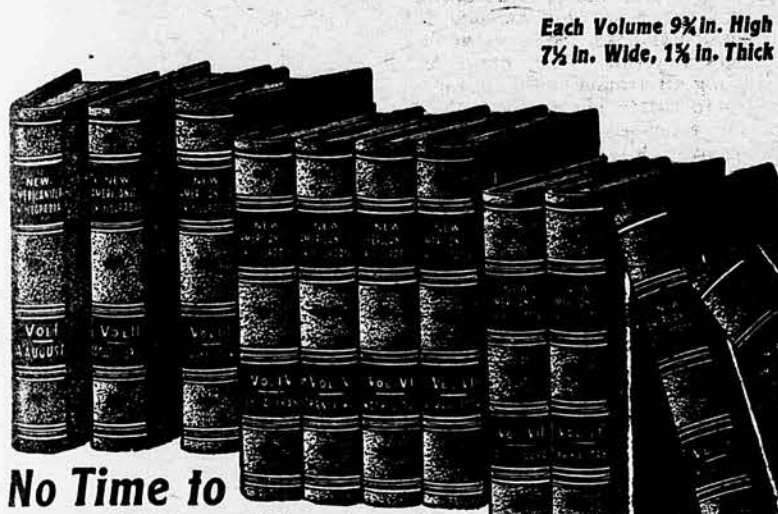
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The first symptoms of roup—swollen eyes.

The hen that goes to roost with a well filled crop can stand more cold.

When chicken keeping doesn't pay it isn't always the fault of the chickens.

A leaky pail set in a pan makes a good water fountain for chickens.—Mrs. M. W., Wamego, Kan.

Our experience is that it pays to feed poultry a regulator or conditioner.—M. B. S., Brashear, Mo.

The cause of dead chicks in the shell can sometimes be traced to stock that has been too closely inbred.

A little earth in the bottom of the brooder makes it more to the liking of the chicks, but change it frequently.

Where hard coal is burned the cinders may be saved and substituted for grit. They are not half bad for this purpose.

Careful selection of setting eggs pays well. Leave out all eggs that are too large, too small, misshapen, or abnormal in any way.

A Shortgrass Brooder House.

Mr. Editor—I have been reading the Mail and Breeze for some time and take special interest in the dairy and poultry departments. I want to tell you how I made a brooder house that is very satisfactory here in this country where weather conditions will permit its use. I first cut some sod and laid it up in walls 9 inches high, making an enclosure 8 by 12 feet inside. I then excavated 9 inches deep inside and threw the earth just outside the walls where it was graded up all around to keep the water drained off.

On top of the sod walls we built a frame house, 2 feet high at the back and 5 feet in front. In the front there is an opening 8 feet wide and 3 feet high. This opening is covered with netting on the inside. A large door hinged at the bottom on the outside is used to close up the opening at night and in cold weather. On the east side of this opening is a full sized window to furnish sunlight when the large opening is closed. On the west side of the opening is the door.

The building is partitioned so as to separate chickens of different age and size. No hens are needed to mother chicks in a house of this kind and no artificial heat need be provided. We have had chickens in this house in February when there was snow on the ground and a cold wind blowing, yet the chicks were perfectly comfortable.

The chicks are kept in this building until they are large enough to jump out at the door when they find themselves in a pen 12 by 40 feet. At the bottom of this pen is a 12-inch board all the way around and above this a 4-foot wire netting. The board furnishes protection for the chicks on windy days and shade in warm weather. On cold nights the little fellows are put in a box with a blanket spread over the top. Our chicks keep warm in this brooder house and they do fine.

Eminence, Kan.

C. J. Steele.

Meat Food as a Weight Maker.

Whether or not a strictly vegetable diet is best for human beings is still an open question. As for poultry the vegetarian theory seems to be all wrong. Dr. Edmond Perrier, a French scientist, recently completed a series of tests in

feeding ducks, which proves that the amount of meat in the ration has considerable to do with the rate of making weight in poultry. A large brood of ducks hatched at the same time, were distributed in several pens and each lot received a different diet. Some were fed solely on meat foods, some on fish, others on grubs and flies, still others on bread, corn and cabbage, while one pen had nothing but vegetables.

When 2½ months old the pen fed on the exclusive meat diet had reached full size and averaged more than 3.3 pounds each. The pen that had the insect diet came second with an average weight of slightly less than 2½ pounds each. The fish eating birds averaged a fraction less than 2 pounds, while the pens receiving no meat at all tipped the scales at a trifle more than 1.3 pounds each.

As a food to make hens lay, meat or green cut bone is no longer an experiment. It seems to be equally as profitable a feed to make birds put on weight. In the winter the fowls miss their necessary insect diet and the green cut bone takes the place of it. This often spells the difference between success and failure. The bone must be fed fresh and in small quantities daily.

An Experience With Runner Ducks.

[Prize Letter.]

Mr. Editor—There has been little said in the Mail and Breeze about the most profitable bird of them all—the Indian Runner duck. True, there has been a lot of frenzied advertising of these wonderful egg producers and I read these marvelous tales for some time before investigating, believing that if they came half way up to advance notices I would get my money's worth.

Last February my 10 ducks began laying and by the last of June had laid more than 1,000 eggs. Then they began to slacken and about the same time started to shed their feathers. The feathers may be picked at shedding time but this must not be done more than once a season.

It is not an uncommon thing to get an egg every day from every duck, with an occasional egg laid in the evening for good measure. We have individual records of our ducks and some of them have laid as many as 46 eggs without missing a day. Their eggs will average 36 to 38 ounces per dozen while hen eggs weigh but 22 to 26 ounces per dozen. When the time comes that eggs will be sold by weight there is going to be a great rush for the Indian Runners. In the big markets their eggs are now quoted at from 5 to 8 cents more per dozen than hen eggs.

It is a good plan to keep the ducks confined until 8 o'clock in the morning when most of them will have laid. Some of them will lay anywhere and when allowed their freedom a good many eggs are apt to be lost.

They are good foragers but will always return to their roosting place at night. They are also easily confined as a 2-foot fence will hold them. A

swimming hole is not necessary but their feathers will look better if they have a chance to bathe. Last season I had no house for my flock so just allowed them roosting room in the barn and through the day they had free range. I fed them a wet mash of bran, meal and middlings. Mrs. Leo H. Johnston.

Langsville, Ohio.

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The 87 Standard Varieties

BY GEORGE E. HOWARD.
[From Farmers' Bulletin No. 5.]

There are 87 standard and a large number of promiscuous varieties of chickens raised in this country. The standard varieties are divided as follows:

MISCELLANEOUS CLASS—Russians, Silkies, Sultans, Frisies and Rumplers.

FRENCH CLASS—Houdans, Crevecoeurs and La Fleche.

ENGLISH CLASS—White, Silver, Gray and Colored Dorkings.

ASIATIC CLASS—Light and Dark Brahmas; Buff, Partridge, White and Black Cochins; Black and White Langshans.

POLISH CLASS—White-crested Black, Golden, Silver, White, Bearded Golden, Bearded Silver, Bearded White and Buff-faced.

HAMBURG CLASS—Golden-spangled, Silver-spangled, Golden-pencilled, Silver-pencilled, White and Black Hamburgs; Red-caps; Silver and Golden Champines.

MEDITERRANEAN CLASS—Brown, Rose Comb Brown, White, Rose Comb White, Black, Dominique, Buff and Silver Duckwing Leghorns; Black and White Minorcas; Andalusians and Black Spanish.

AMERICAN CLASS—Barred, Buff, Pea Comb Barred and White Plymouth Rocks; Rhode Island Reds; Silver, Golden, White, Buff and Black Wyandottes; Black, Mottled and White Javas; American Dominiques and Jersey Blues.

GAME AND GAME BANTAM CLASS—Black-breasted Red, Brown Red, Golden Duckwing, Silver Duckwing, Red Pyle, White, Black and Birchen Games; the same varieties for Game Bantams; Cornish and White Indian Games; Malaya and Black Sumatra Games.

The above 10 classes may be subdivided into four general classes: (1) The general purpose breeds—the American Class; (2) the meat or table breeds—the Asiatic class; (3) the egg breeds—the Mediterranean class; (4) the ornamental breeds—the Polish, Exhibition Games, Miscellaneous and Bantam classes.

[We note Mr. Howard does not include the Rhode Island Reds which were admitted to the Standard several years ago.—Ed.]

Three Ways of Treating Roup

BY B. F. KAUPP,
Colorado Experiment Station.

Roup is spread by the introduction of birds from infected premises, and by exposure of birds at poultry shows to the contagion. A chronic type of the disease in some birds of the flock may serve to infect others, when they are weakened by predisposing causes, as by exposure to cold, damp roosting places, drafts and badly ventilated buildings. Correct any condition which may be a predisposing cause. The hen house should be well ventilated, but without drafts on the birds, and it should be cleaned and disinfected daily. If the bird is not valuable, kill and burn it.

Suit Treatment to Trouble.

Treatment with medicine differs with the location of the lesion. For the ulcers or diphtheritic patches in the mouth, nothing is better than burning with stick nitrate of silver (lunar caustic). For the eyes, press open the lids and remove the material with clean absorbent cotton; then apply the material as for an injection into the nostrils. Wash out the nostrils with a 20 per cent solution of common baking soda, then with peroxide of hydrogen. With a medicine dropper or small syringe, inject some of the following: oil of thyme, 1 dram; oil of eucalyptus, 20 drops; oil of petrol, 2 ounces. Give plenty of clean water and soft feed. Give 1 grain of quinine three times a day, as well as a tablespoonful of castor oil.

Machine Mothers for Chicks.


[Prize Letter.]

Mr. Editor—Last year I had my first experience with an incubator and brooder and I had unusually good success with them. They not only lessened the work but increased the pleasure of keeping poultry. There were no lice and mites to fight right from the beginning, no old hens to tramp over the chicks or drag them through the wet grass and lose them, no hunting all over the place when rain or storms threatened, or have them caught by hawks or other thieves. I use the brooder for my first hatch and when the chicks are 4 weeks old and another hatch is coming on, I put the first brood in a coop that has a jug of hot water in it at night and on cold days. The chicks soon learn to know where it is warm, both in the brooder and coop.

Mrs. Amy Frazier.

R. 1, Selma, Kan.

Here's the Only Guaranteed Incubator in the World



Investigate it thoroughly before you buy. Compare it with any on the market. Read the stories of success and profits made by Fairfield owners. Try it yourself on my 2-hatch trial proposition and you will be convinced that my Fairfield is in a class by itself, the most perfect incubator made. Perfect in material, construction and perfect in hatching.

These are not claims, they are facts and I back them with my guarantee, the fairest, squarest ever written:

First, I guarantee that the Fairfield is made right, that it works right, particularly, that it will hatch right, which means hatch 90% or better of all fertile, hatchable eggs or you get your money back. Now the question is, do you want a guaranteed Fairfield and some profits, or will you invest your money and experiment with any old kind and waste your time, spoil high-priced eggs and be satisfied with 50 or 60% hatches that you get with ordinary incubators. Think it over. At least investigate.

7 Years' Hatching Record Proves the Fairfield the World's Best Hatcher

Seven years ago the first Fairfields were built. They made good right from the start. They made hatching and poultry raising a certainty instead of guesswork. They established a record for big, continuous hatches that no other incubator has ever been able to touch. That's why the Fairfield today is known and recognized as the World's Best Hatcher. Six years ago a Fairfield was shipped to Mrs. Wm. Evans, at Albion, Neb. During all this time she averaged 92% hatches and had absolutely no expense for repairs except 30 cents for new lamp burner. Coxbill Bros., Dewese, Neb., bought four Fairfields last season and hatched over 2,000 chicks. In their recent letter they report that their old Fairfield bought 5 years ago still runs fine and hatches same as their new ones. Thousands of similar reports are on file. We will send you some from your own community if you still have any doubt about it being the World's Best Hatcher. The quickest and surest way to convince yourself is to get my 2-hatch trial offer and try the Fairfield on my guarantee of your

Money Back If the Fairfield Does Not Hatch 90% or Better



The whole secret of the Fairfield hatching power lies in the construction of the machine. It's made of finest California Redwood with double wooden walls having dead air space between. The lid is made with special insulating material to retain heat. The heating system is of heavy copper throughout and so arranged that every part of egg chamber is of even temperature. In addition it has automatic heat regulator to insure steady, uniform heat, without requiring constant attention from operator. Each detail of Fairfield construction is correctly and honestly worked out. It cannot help but give satisfaction to everyone, either new beginners or expert poultry raisers, in any climate and maintain its reputation as the World's Best Hatcher.

The Fairfield Makes the Chicken Business Pay.

It removes the guesswork and uncertainty and you get reliable results because you are working with a reliable machine. When you put 100 fertile eggs into a Fairfield you absolutely know you will get at least 90 chicks because that is my unconditional guarantee. I couldn't give you a guarantee like this unless my machine was as perfect as it is possible for human skill to make it.

You Can Own a Fairfield Free After First Hatch

The Fairfield costs no more than most of the ordinary incubators but the first hatch made with a Fairfield pays for it and leaves a profit besides. That makes the Fairfield a mighty good investment.

AIRFIELD WINS Incubator

The Great Missouri and Kansas Hatching Contest

The Farmers Mail and Breeze, to show the possibilities in chicken raising for profits, conducted an incubator contest among its readers. 1,500 people from Missouri and Kansas entered. Every known make of incubator was represented and Mrs. R. L. Decker, of Columbus, Mo., won first prize with a Fairfield which made a 99% and 100% hatch. That's simply another illustration of the fact that the Fairfield is really and truly the World's Best Hatcher.

Write for Free Catalog and Special Offer

Get the Facts About the Fairfield.

I've told my story giving as many facts as the space would permit. Now it's up to you to investigate thoroughly. The quickest way would be for you to write for my free catalog for my special 2-hatch trial offer and full details of my guarantee.

**SAM THOMPSON, President,
NEBRASKA INCUBATOR COMPANY
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"HATCH ALL" INCUBATORS and BROODERS RUN THEMSELVES




Keep the lamps filled, the wicks trimmed. They do the rest. "HATCH ALLS" save you worry. Make you more clear profit than any other incubator or brooder in America. Patent copper heating system. Triple walls. Your money back if not satisfactory.

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New Principles in Incubation. Every feature automatically regulated—heat, ventilation and moisture. The Mandy Lee is certain, simple, easy to operate. No chance for mistakes, simply follow plain rules. Chicks large and vigorous, the kind easily raised. Write for free books on incubator and Lee's famous Germoxone, Lice Killer and Egg Maker.

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LEARN THE BIG MONEY TRICKS of the POULTRY TRADE!

Big Illustrated Book of Success Secrets FREE

The well-known poultry authority, Reese V. Hicks, has written an intensely interesting and practical book that should be in the hands of everyone interested in raising poultry. This book, "Tricks of the Poultry Trade," tells three methods of selecting the laying hen; a sure and certain method of selecting eggs for hatching; How to raise 500 chickens on a lot 30 by 40 feet; How to build a natural hen incubator; How to build feed hoppers and fireless brooders; How to make feed at 10 cents a bushel; How to make winter egg ration, poultry feeds and turkey preserver, louse killers, etc. All these and many more subjects are fully covered in this great book which we're giving away FREE on this plan:

OUR OFFER: We will give you one year's subscription to our big weekly farm Magazine, Farmers Mail and Breeze, one year's subscription to Poultry Culture, the best Poultry Journal in the West, and one copy of this great book of poultry secrets—all for only \$1.25. State whether you are an old or new subscriber. Address at once, **Mail and Breeze, Dept. PC-10, Topeka, Kansas**

The Hen's Half of the Pen

BY W. D. WALLACE.

[Written for Farmers Mail and Breeze.]

WE OFTEN read and hear the statement, "The male is half the pen," and a good many breeders and fanciers believe in it. I admit there is a sense in which the male is half the pen. He is half the mating in the pen, but we all know that the hen's half must receive several times as much attention as that of the male since there are several females, each of which must be selected for her individual value.



W. D. Wallace.

The point I wish to make is that we must get away from the idea of selecting a male with extreme care and then mate him with a lot of hens using little care in their selection as a bunch and none at all as individuals.

Any Pullet Won't Do.

If you will look around at the breeders in your vicinity I'll warrant there are a good many picking out cockerels for breeders with all possible care but they will keep every pullet raised the previous year as a breeder. Especially is this true if a breeder has bought a setting of good eggs the previous year. Young poultry breeders should get away from the idea that because they pay a good price for eggs, every female should be kept as a breeder. The best of breeders with all their knowledge and careful methods are not able to mate pens that will not produce some culs. We must weed them out and the point at which we must watch most closely for these inferior specimens to slip in on us is in the female half of the breeding pen.

The Hen You Want.

In the selection of females the thing to do is to consider the individual qualities of each hen. First, pick out the heavy laying hen, next see that she conforms as nearly as possible to the requirements of the Standard of Perfection. Lastly make sure they are birds that have proven themselves producers of birds of good quality. The last requisite is of course an unknown quantity with pullets but by using trap nests you will always know what to expect from each hen after the first year.

In our ambition to produce ideal specimens we cannot afford to lose sight of the fact that the one thing above all others sought by poultrymen is the golden egg. The breed or strain of birds that cannot lay is destined to land in the scrap heap. Meet your neighbor poultryman and 9 times out of 10 you will compare notes on the quantity of eggs each of you is getting. Of course the male does the crowing, but his crow is like the pig's squeal—it has no commercial value, yet. For my part I prefer the half of the pen that produces the commercial product.

Better to Keep the Flock Healthy.

[Prize Letter.]

Mr. Editor—We do not doctor our hens and seldom lose any. Last fall three died and these were all we lost through the whole year. We sometimes put a little copperas in the drinking water when we think the flock needs it but the feed and care are the greatest factors in keeping the birds healthy. We keep the house clean and have no doors or windows in the end of the house where the hens roost. There is no chance for a draft to get to the hens and they never are troubled with colds or roup.

We feed very little corn as they get about all they need when the stock is fed. There is plenty of straw for them to scratch in and they also have Kafir on the head to work over. They get skimmilk every day and always have fresh water. They have dry bran before them except in cold weather when we give them a warm bran mash for their morning feed.

We keep lice and mites down by painting roosts and nests with a lice dope and also keep a tub of ashes winter and summer for a dust bath.

Mrs. Ed Cutting.

Lenora, Kan.

Reliable Poultry Breeders

DUCKS.

MAMMOTH TOULOUSE geese \$2 each. Mrs. Willis Sutliff, Smith Center, Kan.

INDIAN RUNNER ducks and drakes. Mrs. H. E. Thornburg, Formoso, Kan.

FRETZ'S INDIAN RUNNER ducks. Stock for sale. J. W. Fretz, Bosworth, Mo.

FAWN AND WHITE Indian Runner duck eggs. 10 \$1.50. Hillcrest, Altoona, Kan.

INDIAN RUNNER ducks and drakes. White egg strain. Lotta List, Lenexa, Kan.

FAWN AND WHITE Indian Runner drakes \$1.50 each. Ralph Pistorius, South Haven, Kan.

INDIAN RUNNER ducks. Topeka fair winners. Satisfaction guaranteed. Burt White, Burlingame, Kan.

INDIAN RUNNERS. 8 extra quality drakes \$1.50 to \$2.50 each. E. H. Killian, R. R. No. 2, Manhattan, Kan.

WHITE EGG strain, Fawn and White Indian Runners. Eggs \$1.00 per 13, \$5.00 per hundred. Sharp, Iola, Kan.

INDIAN RUNNER ducks and drakes. American Standard, white eggs. Satisfaction guaranteed. R. Harrison, Jewell, Kan.

HIGH SCORING WHITE PEKINS. Drakes \$1.50, \$2.50. Eggs \$1.00. Special prize mating \$2.00. Miss M. Kragh, Driftwood, Okla.

INDIAN RUNNER ducks, American Standard light Fawn and White. Prize winners. White eggs, \$1.50 per 15, \$4.00 per 50. Mrs. D. A. Pryor, Route 3, Fredonia, Kan.

WHITE INDIAN RUNNER ducks (Fishel strain). Always lay white eggs. Three dollars per 10. A few nice drakes at two dollars each. A. E. Kroth, Havensville, Kan.

INDIAN RUNNER ducks, scoring to 97%. Stock \$1.50 and up. Eggs \$6.00 per 100 and up. All stock guaranteed. Write for booklet and guarantee. Dr. Haskell, Garden City, Kan.

INDIAN RUNNER ducks. Fawn and White. White egg strain. 13 for \$1.25. Kentucky's best Barred Plymouth Rock eggs 15 for \$2.50. Lee Threlkeld, Hampton, Ky.

LANGSHANS.

EXTRA CHOICE Black Langshan cockerels. Write for prices. J. Stulp, Hartford, Kan.

PURE BRED White Langshans, hens, pullets, cockerels, eggs. Mrs. Geo. McLain, Lane, Kan.

PURE BLACK LANGSHAN cockerels. Fine birds. Pleasant View Farm, John Bolte, Axtell, Kan.

BLK. AND WHITE LANGSHAN. Choice mating eggs \$3.00 15; range flock, \$6.00 100. H. M. Palmer, Florence, Kan.

48 EXTRA FINE Buff and Black Langshan cockerels \$1.50 to \$3.00 each. J. A. Lovette, Mullinville, Kan.

BLACK LANGSHANS exclusively. Cockerels from stock scoring 96. Eggs in season. Mrs. D. A. Swank, Blue Mound, Kan.

GOLD MEDAL Black Langshans. Winners in the best shows. Stock for sale. Mrs. Melvin Gregg, Stanberry, Mo., Route 7.

BLACK LANGSHAN, Houdan cockerels two fifty to five dollars each. Write for mating list. E. D. Hartzell, Rossville, Kan.

BIG, SCORED, greenish glossy, black eyed Black Langshans. \$2.50 and \$5 each. Guaranteed. Osterfoss Poultry Farm, Hedrick, Ia.

BLACK LANGSHAN cockerels exclusively. Best of breeding. Good individuals at reasonable prices. W. S. L. Davis, Nickerson, Kan.

BLACK AND WHITE LANGSHANS for sale. Both sexes. Write for prices. Satisfaction guaranteed or money refunded. Frank A. Vopat, Lucas, Kan.

OUR BLACK LANGSHAN cocks and cockerels are larger and better than ever before. Write for prices. Geo. W. Shearer, Elmhurst Farm, Lawrence, Kan.

LEGHORNS.

PURE S. C. W. LEGHORN cockerels \$1.00 and \$2.00. R. Harrison, Jewell, Kan.

BROWN LEGHORN hens, 6 \$5.00; \$9.00 dozen. Mrs. Ike Saunders, Elk City, Kan.

PURE SINGLE C. W. LEGHORN cockerels and hens. J. R. Haywood, Hope, Kan.

S. C. BROWN LEGHORN cockerels \$1.00 to \$2.00 each. H. N. Holdeman, Meade, Kan.

ROSE AND SINGLE COMB Brown Leghorns. Winners. Mrs. Ida Standifer, Reading, Kan.

PURE Single Comb White Leghorn cockerels \$1.50 and \$2.00. Hugh Harrison, Jewell, Kan.

TOP NOTCH S. C. White Leghorns. Superior layers. Eggs, chicks. Armstrong Bros., Arthur, Mo.

FORTY Single Comb White Leghorn cockerels \$1.00 up, according to quality. R. E. Davis, Holton, Kan., Rt. No. 5.

PURE BRED S. C. White Leghorn cockerels \$1.00 each. A few specials \$2.00. Adolph Berg, McPherson, Kan.

HART'S Single Comb Buff Leghorns are layers, winners and payers. Prices reasonable. W. D. Hart, Ashland, Mo.

THOROUGHbred R. C. W. Leghorns of both sexes. Also a few S. S. Hamburg cockerels. Ray Ditch, Mulhall, Okla.

ROSE COMB WHITE LEGHORN cockerels. Choice \$1.00 each. 6 for \$5.00. Mrs. J. B. Barmettlor, Ralston, Okla.

Reliable Poultry Breeders

LEGHORNS.

S. C. WHITE LEGHORNS. Cockerels and eggs for sale. Prize winners. Write Mrs. G. W. Van Horn, Nickerson, Kan.

UTILITY S. C. White Leghorns. Eggs \$1.50 per 15, \$5.00 per hundred. Eugene Bailey, Okla. City, Okla., R. No. 8.

ROSE COMB WHITE LEGHORNS. Thoroughbred. \$10.00 per doz. Eggs in season. Mrs. G. E. Chittenden, Liberal, Kan.

CORNING EGGS FAEM stock, Single Comb White Leghorns. Cockerels and eggs for sale. Edwin Moyemont, El Paso, Ill.

SINGLE COMB WHITE LEGHORNS, blue ribbon stock. Cockerels \$1.00. Eggs, chicks. Mrs. Flora Smith, Amorita, Okla., Route No. 2.

SINGLE COMB BUFF LEGHORNS. Cockerels, hens, \$1 and \$2. Prize winners. Eggs \$5 100. Chas. M. Childs, Pittsburg, Kan., Route 3.

HENS ALL SOLD. For sale, high scoring S. C. White Leghorn cockerels. Official score card with each bird. E. L. M. Benfer, Leona, Kan.

S. C. WHITE LEGHORN eggs. 15 from prize winners, \$3.00. Carefully mated pen, \$1.00. Write for matings. Del J. Howard, Chester, Neb.

100 YOUNG Rose and Single Comb Brown Leghorn hens for \$29.00. Will pay for themselves in short time in eggs. Oscar Bergman, Beverly, Kan.

FOR SALE—S. C. W. Leghorns and White Orpingtons. Bred for eggs. Satisfaction or no sale. Eggs for hatching in season. Chas. S. Bordner, Circleville, Kan.

S. C. BROWN LEGHORN cockerels. Forty breeders from choice show males. Choice while they last at \$1.50 to \$5.00 each. H. C. Short, Leavenworth, Kan.

RANGE RAISED laying Leghorns, S. C. White. High scoring stock with size and quality. This breed my specialty. Stock, eggs. Circular. Alex Spong, Chanute, Kan.

H. P. SWERDFEGER'S Brown Leghorns won at Kansas State Show, Jan. 6 to 11, 1st ck., 1st cl., 1st pen. Cockerels scoring 90 to 93%. Hens, pullets for sale. Eggs \$2.00 per 15. 1144 Forest Ave., Wichita, Kan.

SINGLE COMB WHITE LEGHORNS—Trap-nest bred 10 years for egg production. Silver cup winners Kansas City shows. Utility hens, pullets, \$1.50; cockerels (egg bred), \$2.00. Eggs \$5.00 100 up. Show stock reasonable. Catalog free. Ackerman Leghorn Farm, R. R. No. 5, Rosedale, Kan.

TURKEYS.

BOURBON RED gobblers, thoroughbred. Fay Ege, Turon, Kan.

PURE BRED White Holland pullets. Mrs. S. J. Bloxom, Pratt, Kan.

WHITE HOLLAND turkeys. Fishel strain. James Jensen, Kinsley, Kan.

WHITE HOLLAND toms for sale. Mrs. R. I. King, Burlington, Kan.

THOROUGHbred Bourbon Red gobblers. Mrs. J. J. Darst, Rose, Kan.

WHITE HOLLAND turkey toms \$5; hens \$2.50. Mrs. H. Bazil, Lpbo, Kan.

FOR SALE—Mammoth Bronze turkeys. A. D. Morrison, Route 2, Iola, Kan.

EGGS \$5 hundred, \$3 fifty, \$1 setting. Mrs. Frank White, Furley, Kan.

MAMMOTH BRONZE turkeys, toms \$5.00, hens \$3.50. H. A. Sandborn, Detroit, Kan.

WHITE HOLLAND turkeys. Toms \$4.00; hens \$3.00. Mrs. R. A. Lewis, Timken, Kan.

WHITE HOLLAND turkeys. Toms \$4. Hens \$3. W. E. Monasmith, Formoso, Kan.

BOURBON RED gobblers \$5.00. Eggs in season. Mrs. F. B. Tuttle, R. 2, Chanute, Kan.

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

THOROUGHbred Mammoth Bronze Turkeys, Toms \$5.00, hens \$3.50. C. E. Foland, Almena, Kans.

BOURBON RED pairs not related \$3.00. Young toms \$4.00. Eggs. Mrs. M. H. Arnold, Toronto, Kan.

PURE BOURBON RED turkey toms \$4.00. Mrs. R. O. West, Pleasanton, Kan., R. R. No. 1.

BOURBON RED turkeys. Trios no relation \$10. Young toms \$4. Florence E. Hopkins, Sedan, Kan.

NARRAGANSETT turkeys; large as Bronze; gentle as chickens. Jake Hertzog, Independence, Mo.

PURE BOURBON RED turkeys and S. C. Buff Orpington cocks for sale. Miss Mathilda Peterson, Simpson, Kan.

MAMMOTH BRONZE. Toms. Fine stock, \$5.00; Indian Runner drakes \$1.00. Mrs. H. W. Hammond, Higgins, Texas.

CHOICE, well marked, big boned young Bourbon Red toms from fifty pound stock \$4. Mrs. Oliver Butcher, Sedan, Kan.

PURE BRED, heavy bone Mammoth Bronze turkeys. Send for prices and turkey pointers. Mrs. Henry Bachelder, Fredonia, Kan.

NARRAGANSETT turkeys. Old gobbler 50 lbs., old hens 27 to 33 lbs., for sale. 1912 hatch. E. R. Foster, Caldwell, Ohio, R. No. 5.

M. B. TURKEYS, farm raised, extra fine, and tame. 6 toms, 4 hens. Toms \$5, hens \$3. Mrs. E. T. Ralston, Holton, Kan., R. F. D. No. 3.

BOURBON RED toms. Good S. C. R. cockerels. Good Red eggs in season from pen range. Insure good hatch. W. P. McFall, Pratt, Kan.

M. B. TURKEYS from prize winning stock at state shows for four generations, sired by ckl. that took second at Topeka state show, Dec., 1911. Mrs. James Aitken, Severy, Kan.

Reliable Poultry Breeders

ORPINGTONS.

SINGLE COMB Buff Orpington cockerels for sale. Ira Chestnut, Denison Kan.

HIGH SCORING Buff Orpington cockerels. A. R. Carpenter, Council Grove, Kan.

PURE BRED White Orpington cockerels and pullets. John Fisher, Wilson, Kan.

BUFF ORPINGTON cockerels. \$1 to \$2 each. A. H. Epperson, Hutchinson, Kan.

WHITE ORPINGTON cockerels from high scored stock. J. W. Davis, Osage City, Kan.

BUFF ORPINGTON eggs \$1.25 for 15. Pens mated Jan. 1. C. D. Haffa, Russell, Kan.

CRYSTAL WHITE ORPINGTONS. Write for prices on stock. Fred Baile, Fredonia, Kan.

CRYSTAL WHITE ORPINGTON eggs \$1.50 per setting. Geo. C. Fisher, Custer, Okla.

SINGLE COMB Buff and Black Orpingtons. Eggs and stock. Hadherway, Lancaster, Kan.

KELLERSTRASS strain White Orpington cockerels, farm raised. W. F. Teague, Collyer, Kan.

KELLERSTRASS Crystal White Orpingtons. Cockerels \$1.50 to \$5.00. W. F. Childs, Burns, Kan.

FEW CHOICE S. C. White Orpington cockerels one fifty each. J. J. Felzien, McDonald, Kan.

CRYSTAL WHITE ORPINGTONS. Extra good laying pullets \$2.00 each. Joe Greever, Fairland, Okla.

GERTRUDE GEAR'S Gold Nugget strain Buff Orpingtons. Cockerels and pullets. Winfield, Kan.

SINGLE COMB White and Black Orpington cockerels and pullets. J. L. Carnean, Neosho Falls, Kan.

CRYSTAL WHITE ORPINGTONS, single Comb. Stock and eggs Feb. 1. Oscar Zscheile, Burlington, Kan.

S. C. WHITE ORPINGTON eggs, scored birds, Kellerstrass strain, \$1.50 per setting. H. J. Lorenz, Russell, Kan.

WHITE ORPINGTON cocks \$4, hens \$2.50. Eggs \$2 a setting. 1 cock and 3 hens \$10. Royal D. Rosier, Elk City, Kan.

BLUE RIBBON strain S. C. White Orpingtons. Some fine young cockerels at \$2 each. C. O. Crebbs, Stafford, Kan.

FOR SALE—Crystal White Orpingtons, Kellerstrass strain, some fine birds. Reasonable. C. S. Embree, Wilmore, Kan.

BUFF ORPINGTON ckl. from \$2 to \$5. Descendants from 1st pen Topeka, 1910. Arthur D. Lovendge, Harrisonville, Mo.

KELLERSTRASS White Orpingtons. Young stock for sale from winners. \$2 each. Eggs in season. J. Strathmann, Palmyra, Mo.

FOR SALE—Crystal White Orpingtons, Kellerstrass strain. Cockerels \$2.00 to \$3.00 each. A. A. Robinett, Jewell City, Kan.

FIVE PENS White Orpingtons. Eggs \$2.50 and \$5.00. Six cockerels \$2.00 and \$5.00 each. Herman Thompson, Galva, Kan.

BUFF ORPINGTONS—Choice matings. Eggs \$1.50 15, \$3 50, \$6 100. Order direct. I can please you. Aug. Petersen, Churdan, Ia.

KELLERSTRASS Crystal White Orpingtons. Cockerels \$3 each, pullets \$2 each. Eggs in season. Mrs. W. M. Patterson, Yates Center, Kan.

FINE IMPORTED Buff and Kellerstrass Crystal White Orpingtons. Cockerels and eggs from prize winners. Mating list free. F. W. Olney, Maryville, Mo.

SINGLE COMB White Orpingtons. Owen Kellerstrass strains. Cockerels from Madison Square winners, \$2.50 up. Eggs \$2.50 up. Ed Granerholz, Esbon, Kan.

EGGS FOR HATCHING from heavy laying strain, prize winning. Crystal White Orpingtons, reasonable. Catalog free. P. H. Anderson, Box M-53, Lindsborg, Kan.

SINGLE COMB BUFF ORPINGTONS, Owen Farm stock direct. Singles, pens of trios. All stock scored. Cockerels 3 dollars up. Mrs. Earl Vaughn, Esbon, Kan.

ORPINGTONS, Buff and White. Cockerels and pullets \$1.50, \$2.00. Eggs from first prize birds American Royal. Mating list ready. Mrs. E. H. Jones, Pleasanton, Kan.

SINGLE COMB BUFF ORPINGTONS. Prize winning, egg laying strain; special matings. 15 eggs \$4. Range flock, 15 eggs \$1.50. Circular free. John Tuttle, Princeton, Mo.

SINGLE COMB Crystal White Orpingtons, Kellerstrass strain, \$1.50 each. Pens headed by cockerel direct from Kellerstrass \$30.00 matings. Eggs \$2 and \$3 for 15. Mrs. R. Helmbaugh, Sedan, Kan.

COOK'S STRAIN Single Comb Buff Orpingtons. Extra good laying stock. Good utility breeders \$2. Extra good from special pen \$4 to \$5. Satisfaction guaranteed. Frank Fisher, Wilson, Kan.

SINGLE COMB BUFF ORPINGTONS. Bide-a-Wee Farm. Winners at Agra and Smith Center shows. At Nebraska State Show won 1st pullet, 5th cockerel. Write me. Roy Lucas, Agra, Kan.

SINGLE COMB BUFF ORPINGTONS, 11 years for eggs and quality. Eggs from fancy matings \$3.00 per 15. High class utility \$7.00 100. Ask for free mating list. A few strawberry plants cheap. J. F. Cox, Topeka, Kan., Rt. No. 8.

Reliable Poultry Breeders

PLYMOUTH ROCKS.
BARRED ROCK cockerels \$1 up. Mrs. R. S. Fish, Waverly, Kan.
WHITE ROCK cockerels. Fishel strain. Anna Nelson, Roxbury, Kan.
BUFF ROCK cockerels and pullets \$1. Charles Bullock, Winfield, Kan.
WHITE ROCK cockerels for sale cheap. G. R. McBurney, Quinter, Kan.
PURE BRED White Plymouth Rock cockerels. Emery Small, Wilson, Kan.
40 BARRED ROCK cockerels \$1.00 to \$2.00. E. W. Caywood, Clifton, Kan.
BUFF ROCK cocks and cockerels \$1.50 to \$5.00. M. E. Stevens, Humboldt, Kan.
BARRED ROCK cockerels \$1.00 and \$1.50 each. Mrs. John Yowell, McPherson, Kan.
FINE pure White Plymouth Rock cockerels \$2.00 each. Elmer Schultz, McLouth, Kan.
WHITE IVORY strain Rock cockerels \$1.00 to \$2.00 each. Wm. Ritter, Troy, Kan., R. No. 2.
BARRED ROCKS. Cockerels \$1 to \$2.50. Hens and pullets \$1. Ush Brothers, Peabody, Kan.
BARRED ROCK eggs, \$5.00 per hundred. Write for catalog. Harry E. Duncan, Humboldt, Kan.
BARRED PLYMOUTH ROCK cockerels \$2 to \$5. 15 eggs \$1.50; 100 \$3.50. F. F. Wood, Wamego, Kan.
MAMMOTH SNOW WHITE ROCKS. Ten years a breeder for size and quality. Charles Vories, Wathena, Kan.
BLUE BARRED ROCK eggs; prices reasonable, considering quality. Write Milton Deuhl, Lawrence, Kan.
BUFF ROCK cockerels from silver cup winners for sale. Reduced prices. R. M. Fevally, Easton, Kan.
WHITE AND PARTRIDGE ROCKS. Large vigorous fellows. Western Home Poultry Yards, St. John, Kan.
WEIGHER-LAYER Barred Rocks. 98 premiums. Early birds \$2.00 up. W. C. Opler, Clay Center, Kan.
PURE BARRED ROCKS. Cockerels \$1.50. Hens \$1. Eggs \$1 per 15, \$5 per 100. Mrs. H. Buchanan, Abilene, Kan.
FOR GOOD BARRED ROCKS, either sex, write to Frank McCormick, Morrowville, Kan., Route No. 3, Box 12.
WHITE ROCKS. Fishel strain. Eggs—15 \$1.25, 100 \$5.00. A few cockerels. Mrs. Frank Powell, Buffalo, Kan.
BUFF ROCK bargains. Fine stock at reasonable prices. 50 eggs \$4.00. Write me. W. F. Alden, Ellsworth, Kan.
BIG TYPE BARRED ROCKS. Thirty-five years' scientific breeding. Eggs and stock. A. H. Duff, Larned, Kan.
BARRED ROCK cockerels. A breeder 25 years. \$2 each. A few left. Come quick. T. B. Wilson, Osage City, Kan., R. 7.
NINE YEARS exclusive breeding White Rocks. Large, high scoring cockerels. Fishel strain. O. J. Stoker, Hartford, Kan.
WHITE ROCKS. Big boned cockerels, eggs and chicks. Farm raised. Prize winners cheap. B. E. Miller, Newton, Kan.
BUFF ROCK eggs by parcel post from quality stock at reasonable prices. Write today. William A. Hess, Humboldt, Kan.
BARRED PLYMOUTH ROCKS—Cockerels at reasonable price if taken soon. Mrs. J. L. Sutton, Lebanon, Kan., R. F. D. No. 1-14.
BARRED PLYMOUTH ROCK cockerels \$1.50 each, four for \$5.00 or \$12.50 per dozen. Mrs. Henry Bachelder, Fredonia, Kan.
WHITE IVORY ROCKS. Two pens mated from prize winners past season. Settings reasonable. A. F. Holmgren, Nickerson, Kan.
PURE White Plymouth Rocks. Cockerels, large, fine shape, bay-eyes. Write for particulars. H. F. Leonard, Girard, Kan., R. No. 7.
EGGS FOR HATCHING from pedigreed Barred Rocks, \$1.50 per 15. Express paid. Mating list free. Gus Schobeck, Atchison, Kan.
PURE BRED BARRED ROCKS exclusively. Eggs \$1.00 per 15, \$4.00 per 100. Safe arrival guaranteed. C. E. Romary, Olivet, Kan.
BARRED ROCK hens, pullets. Extra good cockerels at special prices. We are changing location. Mrs. E. C. Wagner, Holton, Kan.
W. A. TAWNEY, Ogallah, Kansas, breeder of pure bred Buff Plymouth Rocks. Young cockerels for sale \$1.50 each. Eggs for sale in season.
WHITE P. ROCK cks. and cock birds. Show winners. White Ivory strain. The largest and whitest that grow. G. W. Perkins, Newton, Kan.
BARRED PLYMOUTH ROCK cockerels. Shelley Bros.' pullet-line strain. Prices reasonable. Eggs in season. Oscar Daub, Elm-dale, Kan., R. F. D. No. 2.
PURE BRED Barred Plymouth Rocks exclusively. Pen and range eggs. Baby chicks. Write for mating list and prices. Mrs. C. N. Bailey, Lyndon, Kan.

Reliable Poultry Breeders

PLYMOUTH ROCKS.
BARRED PLYMOUTH ROCKS and W. F. B. Span fowls. Have some choice cks. and pullets for sale at \$1.50 up. Satisfaction guaranteed. Gus H. Brune, Lawrence, Kan.
SHELLEY BROS.' Barred Rocks won 82 premiums—35 firsts, specials and sweepstakes—at Kansas' largest shows. Stock and eggs. Circular free. Shelley Bros., Elmdale, Kan.
EGGS! EGGS! Pure White Plymouth Rocks, Good layers, \$5.00 per 100. "Fishel strain" \$1.50 per 15. Also some high scoring cockerels \$1.50 to \$3.00. Mrs. Wm. Lem-kull, Fairfield, Neb.
BARRED ROCKS: Denver winners, 1st cockerel; 5 entries, 4 ribbons. Special matings hold 56 premiums. Utility flock 12. Eggs: 15 \$3.00; 30 \$5.00; 15 \$1.25; 60 \$4.00; 100 \$6.00. Mrs. D. M. Gillespie, Clay Center, Kan.
BARRED PLYMOUTH ROCKS. 150 cockerels and pullets for sale at reasonable prices. Eggs \$2.50 per 15. Ckl and pullet matings. Won more premiums when shown than any other exhibitor. F. W. Hall, Lone Wolf, Okla.
WYANDOTES.
WHITE WYANDOTES. Mrs. Dr. Wilson, Nickerson, Kan.
WHITE WYANDOTES for prices to suit. G. D. Willems, Inman, Kan.
COLUMBIAN WYANDOTES at a bargain. G. D. Willems, Inman, Kan.
WHITE WYANDOTE cockerels \$1.00. Mrs. J. R. Antram, Galesburg, Kan.
WE HAVE fine Silver Wyandotes for sale. H. L. Brunner, Newton Kan., Rt. No. 5.
C. O. BROWN'S Buff Wyandotes are pure. His prices right. Duquoin, Kan.
SILVER WYANDOTE cockerels, fine birds, \$1.25. Mitcheal Mehl, Bushton, Kan.
PURE PARTRIDGE WYANDOTES. Stock and eggs \$1 up. Rosa Carder, Lyndon, Kan.
FINE White Wyandotte cockerels and pullets for sale. J. Benjamin, Cambridge, Kan.
PURE BRED White Wyandotte cockerels, \$18.00 doz. J. E. Gustafson, McPherson, Kan.
CHOICE BUFF WYANDOTE cockerels, eggs and chicks. John P. Ruppenthal, Russell, Kan.
LARGE farm raised White Wyandotte cockerels for sale. Earnest Chestnut, Denison, Kan.
GOLDEN WYANDOTE cockerels from prize winning stock. M. M. Donges, Belleville, Kan.
WHITE WYANDOTE cockerels \$1.50 up to \$5.00 each. Mrs. Geo. Downie, Route 2, Lyndon, Kan.
FINE WHITE WYANDOTE cockerels, \$1.00 and \$2.00 each. Eggs for sale. Joseph Nichols, R. 3, Baldwin, Kan.
BUFF WYANDOTE cockerels, high scoring, first prize winners Smith county. Eggs in season. Geo. Jirs, Agra, Kan.
WHITE WYANDOTE cockerels; fine white birds; \$1.00 and up. Eggs in season. Ideal Poultry Yards, Wayne, Kan.
WHITE WYANDOTE cockerels. White Holland tom and Indian Runner drakes. Write Andrew Kosar, Glasco, Kan.
WHITE WYANDOTE cockerels. Fine white birds \$2.00 each, 3 \$5.50, 6 \$10.00. C. E. Crane, Conway Springs, Kan.
WHITE WYANDOTES. Stock and eggs for sale; mating list free. Also fox terrier dogs. Ginette & Ginette, Florence, Kan.
SILVER WYANDOTE cockerels. Sired by 2nd Mo., 1911, ckl., also 4th at Topeka, 1911. Arthur Lovendge, Harrisonville, Mo.
WHITE WYANDOTES. Eggs fifty cents for fifteen, three dollars per hundred. Cockerels \$1.00 each. Alice Sellars, Mahaska, Kan.
SILVER LACED WYANDOTE cockerels from \$2.00 to \$5.00 each. Large, high scoring. Eggs. Elizabeth Littleton, Guymon, Okla.
GOLDEN WYANDOTES—Winners wherever shown. Eggs \$1.50 and \$2.50 per 15. Cockerels \$1.50. F. O. Rindom, Liberal, Kan.
SILVER LACED WYANDOTES. Cockerels and hens \$1.00 each. Fine laying strain. Eggs \$1.00 15, \$5.00 per 100. W. D. Ross, Wakita, Okla.
WHITE WYANDOTES, bred to lay. Eggs \$1.00 15; \$5.00 100. Choice cockerels cheap. Keller-Martin strains. J. H. Brown, M. D., Centralia, Kan.
WHITE WYANDOTES, Reds both combs, Buff Orpingtons, R. C. Brown Leghorns, Bronze and Bourbon turkeys. Stock. Eggs. Emma Ahlstedt, Roxbury, Kan.
GOLDEN WYANDOTES for 20 years. Indian Runner ducks. The two best and most beautiful breeds. Stock and eggs. Write to J. R. Douglas, Mound City, Kan.
BUFF WYANDOTES—Booking orders now for eggs and baby chicks. Eggs \$2.50 per 15; baby chicks 25 cents each. Eggs from utility pen \$1.50 per 15. We won first cockerel, second hen and third pen at State Poultry Show. Send for mating list. Wheeler & Wylie, Manhattan, Kan.
BUFF COCHINS.
FOR SALE—Buff Cochins cockerels from prize winning stock, \$1.00 and \$1.50 each. J. S. Meyer, Wellington, Kan.

Reliable Poultry Breeders

RHODE ISLAND REDS.
ROSE COMB RED cockerels \$1.00. Fred Corley, Westphal, Kan.
S. C. REDS. Eggs and baby chicks. Mrs. P. D. Spohn, Inman, Kan.
SINGLE COMB R. I. REDS. Cockerels. J. L. Carmean, Neosho Falls, Kan.
R. C. RED cockerels, pullets, hens, \$1.00. Mrs. E. Adkisson, Kanorado, Kan.
ROSE COMB RED cockerels. Write for price. Mrs. Dick Fox, Larned, Kan.
ROSE COMB VELVET RED cockerels. Mrs. Lizzie Paige, White City, Kan.
PUREBRED R. C. R. I. Red cockerels, fine, \$1.50. C. Shumway, Manhattan, Kan.
15 ROSE COMB Rhode Island Red eggs \$1.50 delivered. James Clifton, Russellville, Ark.
SINGLE COMB RHODE ISLAND RED cockerels \$1. Clyde Nighawonger, Alva, Okla.
ROSE COMB REDS. Cockerels and eggs from prize winners. L. Shamleffer, Douglass, Kan.
BIG BONED, deep red R. C. Reds. Scored. \$3 to \$5 each, guaranteed. Highland, Hedrick, Iowa.
CHOICE S. C. R. I. RED cockerels \$5 each. They are worth it. J. B. Hampton, Colby, Kan.
ROSE COMB RED cockerels, good ones, \$1.50 up. Prosperity Poultry Farm, Barnes, Kan., R. 1.
EGGS from winners. Single Comb Rhode Island Red. None better. E. S. Stockwill, Muskogee, Okla.
PURE BRED R. C. R. I. RED cockerels \$2.00 each. Eggs in season. W. H. Cochran, Oakley, Kan.
ROSE COMB REDS. Exhibition and utility strains. Prices reasonable. Mrs. Abbie Rlenlets, Pratt, Kan.
CLEARANCE SALE—R. C. Reds, pullets, hens and cockerels. Prices right. Mrs. Susan Wedd, Oakhill, Kan.
LARGE, brilliant, Rose Comb Red cockerels from scored stock \$1.50 to \$2.00. Mrs. G. C. Talbot, R. 4, Onaga, Kan.
CHOICE R. C. REDS. Cockerels \$2.00 each. Eggs and baby chicks. Prize winners. Mrs. Alta Murphy, Luray, Kan.
RHODE ISLAND RED cockerels from my 1912 winners; Rose and Single Comb; must sell at once. Lulu H. Searl, Waldron, Kan.
FOR SALE—Thoroughbred Rose Comb Rhode Island Red hens one dollar each. Prize winners. Mae McCloud, Musselfork, Mo.
ROSE COMB REDS. Tuttle strain, good red surface and undercolor. A few scored cockerels. Mrs. Dan Clinkenbeard, Wetmore, Kan.
ROSE COMB Rhode Island Reds. Bred to win; bred to lay. Stock and eggs for sale. Write for our free mating list. Toal & Toal, Cedar Vale, Kan.
ROSE COMB REDS. Eggs for hatching from high scoring birds and prize winners. 1st pen \$2.00 per 15. Free circular. Mrs. D. A. Fryor, Route 3, Fredonia, Kan.
RHODE ISLAND REDS, both combs. Hatching eggs low price, fertility guaranteed; mating list free. S. C. cockerels for sale. H. A. Sibley, Lawrence, Kan.
SINGLE COMB RED cockerels \$2.00, \$3.00, \$5.00. Pullets, \$1.50, \$2.00. Limited number. Booking egg orders now. Mating list free. Clyde C. Whiteley, Wichita, Kan.
FOR SALE—Rose Comb Rhode Island Red eggs, from prize winning, high scored matings. The very best. Write for mating list. Also fifty breeders. J. A. Wells, Erie, Kan.
ROSE COMB REDS. Winners at Kansas City Mo. State. Parsons trio state, of good color, correct shape, large bone; eggs \$2.00, \$3.00, \$5.00 per 15. H. S. Fisher, Oswego, Kan.
ROSE COMB REDS, all yearling hens, Miller and New Combs strain. Free range. 45 eggs \$2.25. 100 \$4.00. Guaranteed 80 per cent fertile. James A. Harris, Latham, Kan., Box 65.
SINGLE AND ROSE COMB Rhode Island Red cockerels, hens and pullets from best laying and richest colored strains in this country, \$1, \$2 and \$3. Col. Warren Russell, Odessa, Farm, Winfield, Kan.
FOR SALE—Twenty-five Rose Comb Rhode Island Red cockerels. Bean and Sibley strain. Special matings. \$1.50 to \$3.00. Eggs in season. S. W. Wheeland, Holton, Kan.
ROSE COMB RED eggs from pens headed by \$10.00 to \$30.00 roosters and out of splendid hens. 15 eggs \$1.50, 30 \$2.50, 50 \$4.00, 100 \$7.50. W. R. Huston, Americus, Kan.
REHKOPF'S ROSE COMB REDS won 3 times as many points as any other exhibitor at Kansas State Show. Eggs from nine great pens \$1.50 up. Cockerels \$2.00 up. Free catalogue. F. A. Rehkopf, Route 7, Topeka.
SINGLE COMB RED cockerels. Best blood lines. Good show record. Splendid individuals. Eggs from superb matings. Prices low. Also white Indian Runner drakes and Boone County White seed corn. J. B. Hunt, Oswego, Kan.
ROSE COMB R. I. REDS. I have 14 years' experience in raising and handling Reds. Have sold down to 30 pullets and hens and 4 male birds. All range birds as good as any in the U. S. I have sold a great many prize winners in my time. Eggs from any of these only \$4.00 for 15 or \$7.00 for 30. MILTON HILES, Cedarvale, Kans.

Reliable Poultry Breeders

LIGHT BRAHMAS.
MAMMOTH Light Brahmas. Eggs and baby chicks. Adda Prickett, Wamego, Kan.
LIGHT BRAHMA cockerels, eggs, and baby chicks. Carrie A. Beckwith, Wamego, Kan.
LIGHT BRAHMAS, cocks, cockerels, eggs. Write your wants. Orville King, Bucklin, Kan.
LT. BRAHMAS exclusively; winners at late Kansas City show. Fine large stock for sale. Mating list ready Feb. 1st. Mrs. J. F. O'Daniel, Westmoreland, Kan.
HAMBURGS.
SILVER SPANGLED HAMBURGS. Cockerels \$1.00 each. Eggs \$1.00 per setting. Mrs. J. H. Lindsay, Conway Springs, Kan.
HOUDANS.
HOUDAN cockerels. Mrs. J. A. Smith, Olsburg, Kan.
SEVERAL VARIETIES.
SILVER SPANGLED HAMBURG cockerels. Chas. Gresham, Bucklin, Kan.
BUFF COCHIN cockerels \$2.50 to \$5.00. Pullets \$2.00. Housel, Smith Center, Kan.
PARTRIDGE COCHINS for sale. Pure bred. Mrs. C. E. Wonderly, Benedict, Neb.
MRS. A. L. LEWIS, Noble, Okla. Partridge Wyandottes and Rhode Island Reds.
S. C. BLACK MINORCA cks. \$3.00. Money back if not satisfied. A. L. Liston, Garden City, Kan.
ROSE COMB Silver Spangled Hamburg cockerels and pullets. J. L. Carmean, Neosho Falls, Kan.
SICILIAN BUTTERCUP eggs from splendid layers. 15 for \$2.00. Lee Threlkeld, Hampton, Ky.
PRIZE WINNING Mottled Anconas. Eggs and baby chicks. Circular. W. Hardman, Frankfort, Kan.
WHITE CRESTED BLACK POLISH cockerels for sale cheap. None better. Jos. T. Stewart, Colby, Kan.
BREEDER AND JUDGE of all land and water fowls. Terms and catalog free. C. W. Brehm, Route 4, Harvard, Neb.
13 YEARS a breeder of Anconas from best imported and domestic strains. Eggs. Adaline Gosler, Matfield Green, Kan.
INDIAN RUNNER drakes and Buff Orpington cockerels for sale at \$1.50 each. L. D. Farrar, R. F. D. 4, Frankfort, Kan.
BOURBON RED turkeys, Partridge Rock, Buff and White Orpington chickens. Indian Runner ducks. Eggs season. A. M. Farmer, Pratt, Kan.
43 VARIETIES, Poultry, Pigeons, Ducks, Geese, Turkeys, Guinea, Incubators, Dogs. Catalogue 4 cents. Missouri Squab Co., Kirkwood, Mo.
LEADING VARIETIES, ten dollars dozen, male free. Twenty page catalog, sixty varieties, free. Jordan Poultry Farm, Coffeyville, Kan.
WHITE FACE BLACK SPANISH cockerels and pullets for sale. Eggs in season, 15 \$1.00, 50 \$3.00, 100 \$5.00. A. W. Swan, Centralia, Kan.
EGGS, Indian Runner ducks, Single Comb Reds. Silver cup winners. Prices low. Circular ready. Quality square. A. B. Lampert, Brinkman, Okla.
SINGLE COMB WHITE LEGHORN cockerels and pullets and Barred Rocks, \$1.00 each. Pure bred. Eggs. Elizabeth Littleton, Guymon, Okla.
WHITE MINORCAS and White Orpingtons. Pure bred eggs from the best prize winning strains \$2 per setting. Arthur Goodwyn, Minneapolis, Kan.
SINGLE COMB REDS, Partridge Rocks, Golden Wyandotes. State show winners. Stock and eggs. Prices reasonable. C. E. Florence, Eldorado, Kan.
S. C. BLUE ANDALUSIAN, Buff Leghorn, Brown Leghorn, Black Minorca cockerels. Closing out Brown Leghorns and Black Minorcas. John A. Huber, La Crosse, Kan.
SUNNY DELL FARM Bourbon Red toms \$4.00, hens \$3.00. Single Comb R. I. Red cockerels \$1.00. Extra fine stock. Satisfaction guaranteed. Mrs. T. I. Woodall, Fall River, Kan.
SIXTY VARIETIES fancy geese, ducks, turkeys, chickens, peafowls, guineas, pigeons, pheasants; stock and eggs cheap; 60-page catalogue 2c. F. J. Damann, Farmington, Minn.
MY SPRING Chick Book is very interesting to anyone who likes chickens. It is free; send your address and Uncle Sam will fetch you one by return mail. Seth H. Leach, proprietor Crowhurst Mammoth Hatchery, 4438 Belleview Ave., Kansas City, Mo.
BARRED ROCKS.
 Our birds again demonstrated their high quality at this season's shows. Very best laying strains. Pens mated for the coming season. Send for descriptive circular. Pen eggs \$3 per 15. Utility eggs \$4 per 100. C. C. LINDAMOOD, WALTON, KANSAS.
White Orpington and Indian Runner Ducks
 Eggs \$6 per hundred. Turkey and Geese eggs \$1.75 per setting. We breed all leading varieties of Standard Poultry. Plymouth Rocks are our leaders. Stock of high quality at let live prices. Write for descriptive circular. Address W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.

CROPS and FARM WORK

The Snow Blanket Relieves Moisture Needs Only Temporarily—Great Winter for Cattle Sales and Everything Brings Top Notch Prices, Especially Cows—Large Amount of Road Work Being Done.

(Crop Reporting Service of Farmers Mail and Breeze.)

The blanket of snow the first of the week was the kind that makes wheat, but it was a little short of present moisture needs. At this time Kansas seems to be in the center of the dry area as recent rains have been plentiful in almost every direction, particularly east and south. While floods in the Ohio and Mississippi valleys are driving people from their homes, a good many stockmen in Mail and Breeze territory are finding it necessary to haul water for stock. But let it be that rather than floods. Even Oklahoma is better off than Kansas. In Comanche county the soil contains enough moisture to furnish abundant wheat pasture and sprout oats that are already being sown.

Never before has there been a winter when all grades of cattle sold at such fancy prices as are being paid now. Go to a public sale and there is usually a stampede when the cattle are reached. Common milk cows in Linn county, Kansas, says C. T. Baker, are bringing as high as \$83 each. There is money in cattle of any kind this winter but there is only one class that will make money for its owner first, last and all the time, and that is the milk cow. A good cow will always bring her price and the wonder of it is that more farm people are not getting into the dairy stock business.

This has been a great winter for road work and a large part of it will be out of the way by the time spring farm work demands attention. Reporter Reynolds of Barber county states that four times the usual amount of work has been done on roads this winter.

Pasture for stock will be high this summer, in the grazing counties of eastern Kansas at least. In Chase county rates on cattle are already up to \$7.50 per head for the season. Range grass in Greeley and Morton counties is reported to be of poor quality this winter.

Silos and silage are making many more converts this winter, especially in central and western Kansas. In Saline county silage is now selling at \$5 per ton. Usually there is a pretty fair profit in it at around \$3, as it weighs like lead.

Reporter Heyland of Marion county, Kansas, says more Kafir is being fed in that county this winter than corn.

KANSAS.

Nemaha County—Continued dry and windy weather is doing some damage to fall wheat. Moisture is badly needed. Stock is wintering well except that there is some cholera among hogs.—C. W. Ridgway, Jan. 28.

Morton County—Weather has been warm and dry. Those who have not been feeding roughness to stock on range are finding an unusual lack of nutrition in grass and such stock is falling off.—M. McGee, Jan. 31.

Linn County—Fine winter weather. Considerable plowing being done. Stock water very scarce. Many sales being held. Farmers are holding wolf "drives" now. Common cows selling for as high as \$83.—C. T. Baker, Feb. 1.

Wyandotte County—Weather very mild for the season of year. Dry season and many cisterns are empty. Roads in fine condition. Wheat looks good. No cholera and hogs are scarce. Hens doing better than usual in winter.—G. F. Espenlaub, Jan. 31.

Sumner County—Large amount of plowing being done. Plenty of rough feed and corn for stock and all stock is looking good. Brood sows scarce and in good demand. Surplus of oats and baled hay selling.—W. J. Hollingsworth, Jan. 28.

Jefferson County—Weather has been fine most of the time. Light snow Jan. 31 and today it is much colder, about zero. Farmers are getting their year's supply of wood ready. Stock has done well on stalk fields on account of mild winter.—Z. G. Jones, Feb. 1.

Ford County—Weather colder again. No rain for about four months. Wheat not very promising as ground is so dry on top. Plenty of feed and cattle are doing well. Cows sell high. Hogs scarce. Wheat 77 cents, corn 40 to 50, cream 28, eggs 18.—John Zurbuchen, Jan. 31.

Montgomery County—The cold snap of today has stopped plowing. Wheat in good condition so far. Plenty of straw and hay for stock, but corn is scarce. Corn being shipped in at 53 cents. Stock in good shape except some hogs are sick. Wheat 80 cents, oats 50.—J. W. Elkenberry, Feb. 1.

Saline County—High winds have caused some wheat fields to blow, but not much

damage done yet. Many new silos are being fed from for the first time and are well liked. They will save a lot of feed. Silage is selling at \$5 per ton here. Wheat 79 cents, corn 52, eggs 18.—G. W. Holt, Feb. 1.

Decatur County—Fine open winter so far. Stock doing well and most cattle are ready for the block. Not enough snow yet to amount to anything. Wheat in fair condition, but top soil getting dry. No chinch bugs here. If present weather continues oat sowing will begin soon.—G. A. Jörn, Feb. 1.

Neosho County—Fine winter weather. Stock wintering well with plenty of rough feed on hand. Few cattle in feed lots and hogs are pretty well cleaned out. Sales numerous and everything is selling readily at good prices. Cows bring from \$50 to \$75. Hay \$5.50 and up, corn 55 to 60 cents.—E. W. Anderson, Feb. 1.

Marion County—Wheat needing moisture. Last snow all drifted off to roads and fences. Plenty of feed and all stock doing well. More Kafir than corn being fed this winter. Not many hogs left and brood sows sell high at sales. All cattle higher than ever before. Some dorn moving at 45 cents. Hay \$3, alfalfa \$10, oats 40, Kafir 40.—H. R. Heyland, Feb. 1.

Woodson County—Blustery and a little dry but the weather has been fine all winter. More plowing done last fall and this winter than has been done for years. Wheat looking good so far. Enough moisture for plowing, but some hauling being done for stock. Sales thick and everything brings a good price.—E. F. Opperman, Jan. 31.

Douglas County—Fine weather for the time of year. A lot of plowing being done in this county. Wheat looks well, considering the dry weather. The hog plague has

Our chinch-bug bill last year was 17½ million dollars—more than \$10 a piece for every man, woman and child in Kansas.

about died out, but many hogs were lost. Stock is doing well and there is plenty of feed. All stock brings good prices at sales. Wheat 80 to 90 cents, oats 40, corn 45, eggs 20, butterfat 30.—J. S. Dillon, Jan. 31.

Barber County—Four inches of snow on the level and still coming down. No wind. Fall sown crops needed rain. Cisterns have been dry and wells low. January was a good month for stock. Probably three or four times as much road work done as usual. Wheat looks well, but stock had to be taken off on account of dry weather. Corn 50 cents, seed oats 50.—G. H. Reynolds, Feb. 1.

Chase County—Weather fine for the time of year and conditions good for feeding stock. Plenty of rough feed, but considerable corn being shipped in. Pasture is in demand and prices will be higher than ever known before. As high as \$7.50 per head for cattle will be paid for the coming season. Corn 50 cents, potatoes 80, eggs 18, butter 25.—W. J. Dougherty, Jan. 30.

Greeley County—Weather has been dry and dusty, but it is snowing today. Grass is of poor quality, but feed is plentiful and stock is doing well. Threshing about finished. Wheat and barley made small yields. Milo made fair yields and some cane went as high as 20 bushels. Some oil cake and corn being shipped in, but very little as compared with last winter.—J. Skillman, Feb. 1.

Phillips County—Fine winter so far. Stock in fine shape with plenty of feed on hand. Some cattle still on stalk fields. Wheat would be a little better if it had more moisture. The top of ground is dry. Roads are elegant and autos have been running every day. Corn shelling and Kafir and cane threshing are keeping farmers busy. Hens are laying well and cows give lots of cream.—N. E. Schneider, Feb. 1.

OKLAHOMA.

Comanche County—Weather warm and a good deal of plowing being done. Oat seeding is well under way with plenty of moisture in the ground to sprout seed. Wheat greening up and furnishing good pasture.—Fred E. Wiersig, Jan. 31.

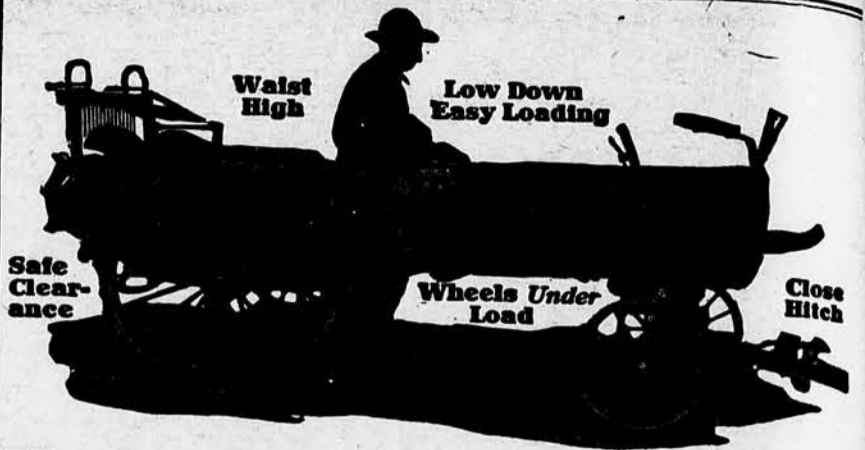
Greer County—Some preparations being made for spring crops. Weather very dry. There is still some cotton to pick. Some disease in cattle herds. Corn 50 cents, milo 35 to 40, eggs 18 to 22, butter 20.—H. O. McBrayer, Jan. 27.

Dewey County—Dry, open winter so far, but it is snowing today. Fine weather for the country and teams are selling at \$200 to \$400. Milk cows bring \$50 to \$75. Hogs \$6.70, corn 45 cents, Kafir 38 to 40.—Wm. Liston, Feb. 1.

Kiowa County—Winter so far has been mild. Rain still needed. Terrible wind and dust storm yesterday. Quite a lot of burning for chinch bugs being done. Farmers getting ready to sow oats. Stock looks fine. Farmers buying feeders. Hens laying well.—Mrs. Alice Henderson, Jan. 31.

Roger Mills County—Very dry here. No rain or snow since October. Wheat looks pretty sick. Some corn and cotton in fields yet. Plenty of feed. Hard land is too dry to plow. Hogs and cattle selling very high. Cows bring \$40 to \$60. Corn 45 cents, milo 40.—Hugh Sober, Jan. 28.

Doesn't it pay to feed 50-cent corn in the mud.



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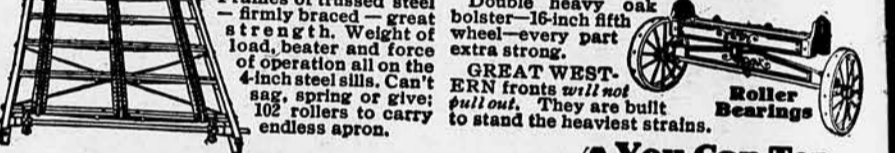
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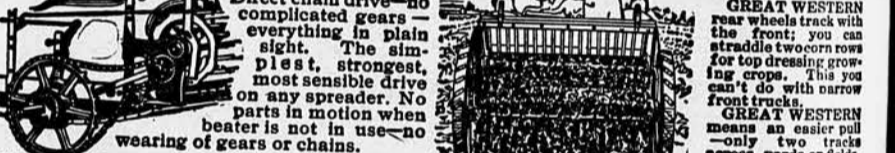
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These 66 COMPLETE PATTERNS would cost you a large sum of money if purchased one at a time in any retail store. Each pattern will transfer from 8 to 8 times to any kind of fabric.

Lesson Course FREE! In addition to this I am going to include, without extra charge, one illustrated course of embroidery lessons. In these instructions you will find illustrated and fully described the 27 stitches used in fancy work. This is the most complete collection of its kind ever published and is a big premium in itself.

We have just secured a limited quantity of a new and magnificent collection of 66 DIFFERENT AND COMPLETE EMBROIDERY TRANSFER PATTERNS. The entire collection contains a total of 66 of the LATEST and MOST BEAUTIFUL TRANSFER EMBROIDERY PATTERNS as follows: 1 Embroidered Skirt Panel, 1 Embroidered Waist to match, 1 Centerpiece, 1 Dolly, 1 Dutch Collar, 1 Baby's Collar and Cuff Set, 2 Alphabets, 1 Corset Cover, Chemise or Nightgown, 1 Ruffling to match for Combination Suit, 4 Words, 3 Embroidered Shirts, 1 Sofa Pillow, 5 Wreaths, 1 Collar, 2 Jabots, 1 Towel, 1 Apron, 5 Emblems, 2 Pin Cushions, 14 Sprays, 4 Butterflies, 13 Borders.

SEND TODAY We are giving these away to further introduce our big news, home and story paper, "The Weekly Capital." All we require is that you send just 50c—the regular subscription price—for a whole year's subscription to the Capital, and we will send the outfit complete as described above, free and postpaid. Two Pattern Collections and 3-year subscription for 50c. This offer is made for immediate acceptance and we advise you to send at once. We guarantee absolute satisfaction or your money promptly refunded. This is certainly the most liberal premium offer ever made. Send now. Address: WEEKLY CAPITAL, Dept. 66-B, TOPEKA, KANSAS.

Seed Grading and Why it Pays

BY A. M. TENEYCK,
Supt. Hays Experiment Station.

[Written for Farmers Mail and Breeze.]

Those who persistently clean and grade their seed grain from year to year have apparently improved the yield and quality of their grain, or at least have maintained the quality and yield, while the average farmer who sowed ungraded seed is obliged to change seed every few years, because his wheat or oats "run out." It has been shown in a large series of experiments at the Ontario Experiment station that the larger, heavier kernels of grain have with hardly an exception produced stronger plants and larger yields than the smaller, lighter grain.

Fanning Saves Much Seed.

It is the usual practice to sow a peck or so of seed grain more per acre than is really necessary to secure a good stand. Four pecks of graded wheat taken out of 5 pecks of common seed such as ordinarily comes from the separator, may produce as large a yield and perhaps a better quality of grain than can be secured by sowing the 5 pecks of ungraded seed. A man sowing a quarter section without grading his seed wheat will ordinarily use 200 bushels of grain, seeding at the rate of 5 pecks per acre, while 160 bushels of the graded grain should give as good results. By grading his seed wheat he may have 40 bushels of screenings, which with market wheat at 80 cents per bushel, would be worth at least 60 cents per bushel, or \$24.

How It Figures Out.

With a good fanning mill, costing \$20, two men will readily grade the 200 bushels in a day, which would give results as follows:

Value of grain saved.....	\$24.00
Interest on \$20 at 7 per cent.....	\$1.40
Depreciation on mill at 10 per cent.....	2.00
Labor, two men one day at \$1.50.....	3.00
	\$6.40

results show clearly, as do the dates of previous experiments, that corn planted the first of May not only has the least infestation but also gives the largest yields. This should be a strong argument in favor of planting the corn as near as possible on May 1. The variety of corn which requires the least time to mature shows the smallest amount of injury. Yet the difference is small.

Glick Memorial Unveiled

The memorial portrait of ex-Governor Glick, painted by George M. Stone of Topeka, was presented to Kansas Agricultural college January 21 by the Improved Livestock Breeders' association of Kansas. It will hang in the hall of the college which President Waters predicts

will eventually become the Hall of Fame for the distinguished leaders of Kansas agriculture.

E. W. Rankin, of Farmers Mail and Breeze, as chairman of the presentation committee, introduced J. W. Chapman of Atchison, a personal friend of the ex-governor who told of what Governor Glick accomplished for the state during the early days of struggle and doubt. Governor Glick had much to do with promoting the early building of railroads in Kansas and in 1882 when the farmers of Kansas demanded the regulation of the railroads, as governor he forced an unwilling legislature to reduce passenger rates from 4 to 3 cents.

At the end of the ceremony President Waters introduced Mrs. George W. Glick, widow of the governor. The audience

with one accord arose for an instant as a mark of respect, and a moment later was dismissed by President Waters

How Cold to Kill Peach Buds

Mr. Editor—I am often asked what degree of cold will kill peach buds. Fifteen degrees below zero will kill most peach buds; but much depends on the condition of the buds and the atmosphere. I have seen peach buds killed at 12, below, and have also seen them endure 20 degrees below. At present, January 28, peach buds are in good condition to endure cold. Dry weather keeps the buds from maturing. Most peach buds are killed the last part of winter and when in bloom.

Jacob Faith.

Eldorado Springs, Mo.

I'll Give You 3 Months Power FREE!



Mean if You bet I mean if I'm going to make you an offer right now that you absolutely can't afford to refuse. Listen to this: I'll let you use a genuine 1913 Galloway Gasoline Engine right on your farm for a whole month absolutely free. If that isn't long enough, just say so and I'll let you keep it for a month or even two months longer. I'll let you pick out any one of my nine different models you want. I'll let you put it to any test you want. I want you to compare it point by point with any engine on the market, and I don't care what the other engine costs. I'll put the Galloway up against any other engine, absolutely regardless of the price. I'll put the whole thing right square up to you. You handle the engine, power, or even your own judgment. Your word goes. After you've had the free trial if you think that there is no other engine on the market at any price that is so good as the Galloway in quality, workmanship or actual performance, just send the engine right back and I'll pay the freight back to you. If you don't like it, or if you find that the Galloway is no far ahead of your expectations that you simply can't afford to get along without it, you may keep it and on the square, straight and most liberal offer that you or anybody else ever heard of. No man living can go further than I have to show my perfect confidence in my goods and hence that's all. That's why my customers everywhere are the absolute satisfaction of every man I deal with. My engines have got to be so perfect in every way that they simply call themselves, that's all. That's why my customers everywhere are

Your choice of 9 types and sizes from 1 1/2 H. P. to 15 H. P. Prices from \$29.75 upward

Here's a Big Story in 5 Short Chapters

By Galloway Customers
I wouldn't dare to tell you all the good points of the Galloway. Honestly, I wouldn't—it's almost too good to be true. But I didn't write the story below—Galloway Engine owners did and of their own free will. Read every one. These are just five out of hundreds of just such letters. Read them.

CHAPTER 1 How Galloway Engines Compare With Others

LOUIS BUSSE, Greene, Iowa.—I received my engine August 10th, all in good condition, and I have run it a good deal. I received a feed grinder from you with the engine and I have ground feed for more than a dozen of my neighbors. When I am through they say, "I don't see where that thing gets its power, and if ever I get an engine it will be a Galloway." I run my feed grinder, corn shaker, corn elevator and washing machine with it. My father has an engine and I know just what they are. The Galloway is a lot better of the two. The Galloway is the best engine I ever saw, and have seen a lot of them. When I was at home I have turned the engine over in the winter until I was tired, trying to get it started. So I was wondering what the Galloway would do when cold weather came on. I have my engine standing outside. While it was a real cold morning I started my engine. What a lucky man I was to buy a Galloway.

CHAPTER 2 The Saving in First Cost

THOS. BURT, Algona, Iowa.—I attended the Minnesota State Fair for the express purpose of investigating farm engines and found that the Galloway price was so much cheaper than I got a 5 H. P. Galloway and find that the interest on the money I saved is pumping all my water, which is the same as getting it pumped for nothing.

CHAPTER 3 Simple and Easy to Start

JAMES M. ALLEN, Bear Lake, Mich.—I received my Galloway Engine and was very much pleased with it. My boy, fifteen years old, put it up and started it. It is a simple and steady running engine. I have ground feed and buzzed wood with it and it works O. K.

CHAPTER 4 Powerful and Economical

W. R. BLANCHARD, Hopkinton, Iowa.—I would rather refer anyone to the Galloway Engine than to any other on the market for several reasons: First, because it is so well constructed that any unskilled person can operate it. Second, because it uses less gasoline than any other engine of the same rated power I have ever seen. In talking about rated power I will refer you to our 5 H. P. Galloway Engine pulling a 14-inch rip saw and it does its work well. In summing this altogether, the Galloway Engine, in my estimation, will take the honors for the best gasoline engine on the market for simplicity, economy and rated power. We helped W. R. Blanchard saw wood. We saved twelve cords of wood in two hours and twenty minutes with half a gallon of gasoline. It is the best engine on the market. James Dunn, L. J. Willard, Charles Dunn, John J. Rosary, Robert Weiser.

CHAPTER 5 5 H.P. Engine Does Work of 16 Horses

HILL ANDERSON, Red Lake, S.D. I will probably surprise you when I tell you about using it on a four-roller McCormick husking shredder. It certainly does away with it. The neighbor that has the shredder says that he had ten horses on the same shredder and could not do in a day what we did with my 5 H. P. Galloway engine. I would like to see another make of engine of the same rated horse-power do the same work the Galloway does. I don't believe a 7 H. P. of any other make can come up to it.

Wm. Galloway, Pres., WILLIAM GALLOWAY CO.
205 Galloway Station, WATERLOO, IOWA

We carry engines in stock at Chicago, Kansas City, Council Bluffs, Minneapolis and Winnipeg

The Only Way Is The GALLOWAY

Selling Direct from Factory to Farm

125,000 farmers know by actual, personal experience that they save 30% to 50% on everything they buy from Galloway. They know that there is not one single middleman's profit figured in my prices. They know that when they buy from me they pay just the net factory prices, with one very small profit added, and not one penny more. That's the way I do business and it seems to me like the only fair way. A 10-year-old boy can do business with me just as safely as the sharpest buyer living. You couldn't get anything else but a square deal from me if you tried to. Every machine leaving my factories goes out backed by a

\$5000 Challenge—\$25000 Guarantee

I back up every statement, every promise and every single claim with a fortune in cold, hard cash. You let the other fellow say whatever he wants to. Show him my \$5,000 challenge and tell him the money is his if he can prove that Galloway misrepresents in the slightest particular or fails to live up to every promise he makes. Every man who sends me a dollar is protected by a \$25,000 Bond. It guarantees you against any possible loss of any kind. It makes your money just as safe as though it were placed in a bank. It assures you that my engines have got to prove to your satisfaction that they are all and more than I claim for them or you are not out one single penny.

I'll Put \$50 to \$300 Right in Your Pocket

When you buy a Galloway engine it's just like having somebody give you the interest on anywhere from \$1,000 to \$6,000! I'll save you \$50 to \$300 right at the start—do it easily. No manufacturer in the country ever came within gunshot of Galloway's low prices and high quality and they all know it. You don't pay a single extra profit—you back up your judgment by buying at actual bedrock prices. But that isn't all. I haven't got a single engine in my entire line that can't earn its whole cost every year in the hands of any good farmer. That's making money—making it fast, clean and in the right way—the way you and I like. That's why you hear everywhere today—the only way is the Galloway.

Free Service Bureau!

I've got a bunch of engine experts that you can't beat anywhere in the country and their services are at your command absolutely without charge. They'll help you solve every one of your engine problems, tell you just which engine is best suited for your particular purposes, how to fit up your power house, how to handle your engine and use it to best advantage. This is service free to you always whether you buy an engine from us or not.

Get My Special 1913 Proposition

Don't wait a minute. I've got the biggest, finest offer for 1913 that I've ever made—and that's going some! I want to put it in your hands without a single moment's delay. I want to show you how you may get your choice of any of the nine 1913 Model Galloways either partly or entirely without a cent of cost to you. I won't ask you to do any soliciting, any canvassing or work of any kind. I've been four years in working out this plan and you'll have to admit it's the most amazingly liberal co-operative plan that you or anybody else ever heard of.

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Don't lay down this paper or turn the page until you have made sure of getting this great engine offer right away. Take a pen or pencil and fill out the coupon or send me a postal or letter. But don't wait—don't take any chances of it's slipping your mind. Get my handsome engine book and this splendid offer RIGHT AWAY.

MAIL ME THIS COUPON

William Galloway, Pres. WM. GALLOWAY COMPANY
205 Galloway Sta., Waterloo, Iowa

I want to know more about the Galloway engines and your extra liberal Free Trial Offer. Please send me your free Engine Book and explain your Special 1913 Proposition.

Name.....
Town.....
R. F. D.....

I am also to get a free copy of your 1913, 8-color, 144 Page General Merchandising Catalog listing factory prices on machines, implements of all kinds, bugles, harness, furniture, house furnishings, and everything for the home, farm and family. Over 1,000 unexcelled bargains

Fewer Ear-Worms on Late Corn

Either fall or spring cultivation will kill 60 per cent of the pupae of the corn ear-worm wintering in the soil, but to control the worm takes the united effort of a community. The moth is a strong flyer and will travel from field to field. If only a few farmers destroy the pest, their fields will become infested the next summer from their neighbor's fields.

Since 1908 the agricultural college has carried on co-operative experiments with different varieties of corn to determine whether the per cent of infested ears is influenced by the date of planting. The

The WOMEN FOLKS Conducted by Mabel E. Graves



We want this department to be of practical use to the women who read Farmers Mail and Breeze. If you have any favorite recipe, any helpful hint, whether it concerns the family, the kitchen, the children, the house; or if you have anything to say which would be of interest to another woman, send it to the Home Department editor.

Don't fail to read the article on "One Way to Save Steps" this week.

If March 1 is moving day for you, it will be a good plan to start getting ready in time. Drawers and closets can be looked over, wornout clothes disposed of, and other things not in use can be packed away, so when moving day actually comes half the work will already be done.

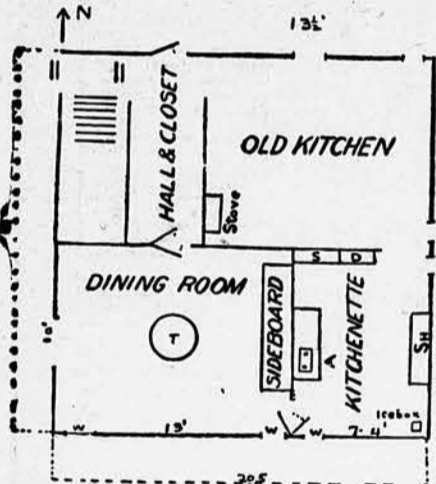
According to Miss Frances Brown of the Agricultural college, the average farm woman walks far enough in her kitchen in seven years to equal a walk around the world. The remedy she proposes is to arrange the kitchens more conveniently, so so much walking won't be necessary.

According to a well known medical authority cough medicines are a detriment instead of a help. A cough means there is something in the throat that should be gotten rid of. Cough medicines stop the coughing because they numb the nerves in the throat so they cannot feel. Many babies, says this physician, have been drowned to death in their own secretions because they have been drugged until they cannot get rid of them.

One Way to Save Steps

BY MRS. LIDA MONROE.

Routing in the home means the laying out of paths or roads over which the things used by the family may be carried in the work of keeping the house. The most important of these paths is the much traveled road between the cook stove and the dinner



PLAN OF KITCHEN AND DINING ROOM. Showing that by cutting one door in partition and changing the cooking to the kitchenette two-thirds of the time and steps are saved in serving dinner.

table. How many feet and inches or how many steps is it from the edge of the stove to the edge of the table? How many times a day does the housekeeper travel from stove to table carrying something in her hands? Three times a day must all the food eaten by the family be carried one way and all the china and glass brought back again? It is not three times, but three multiplied by the number of trips made before and after each meal—at least nine and perhaps 18 times, or 126 times a week.

This is one of the most disastrous cases of lost motions (steps) to be found in our homes. It is not possible for one person to carry all the food even for a family of only two in her hands at one time. Still less can she carry all the silver, glass, and china to the table or take away everything after the meal is finished, in one trip. We have found a wheel tray indispensable. It is strong, so there is no danger of its falling to pieces, and yet light, so it is easy to handle. There is a railing around the top, and another

shelf beneath. Everything on our table except the linen and a part of the silver arrives and departs on this tray in one trip. This wheel tray cost originally \$5, but as the wheels were badly designed, they were taken off and swivel castors placed on the front legs. This cost \$3 more and then the thing was perfect. The relief from the endless walks from room to room and back again, the saving of time alone was cheap indeed at \$8. If there is a man in the house who is handy with hammer and saw it could be made for much less. For a family of six the tray would make at most only two trips.

To save time in another direction we remodeled our kitchen. The old kitchen was at the northeast corner of the house, while the dining room is on the south side. The route from the cook stove to the dining room was by way of the pantry. At the southeast corner of the house was a store room with one door into the kitchen. This room is now the kitchen; because it is so much smaller than the old kitchen we call it the kitchenette.

A door cut through the partition to the dining room made a new short cut

There should be more home conveniences. The farm home is America's most important institution and its homemakers should not be burdened with unnecessary household chores. —ARTHUR CAPPER.

route from the stove, which is close to the new door, to the dining table. The old route from the stove to the dining table was 25 feet; the present route is only 9 feet, a saving of two-thirds of the steps. The wheel tray travels over the new short line and still makes one trip out and in at each meal. Visitors who see these things in operation with one accord wish they had an efficient house.

What Flowers Will You Plant?

What bulbs, vines, flowers and shrubbery will you advise for the home flower garden, and how arrange them?

You have the house already furnished. Now, in order to make it really home, how will you arrange the surrounding yards? Flowers we must have; a grass plot and shrubbery, if there is space, but flowers by all means.

What varieties will you select, and how arrange them? Those who prefer grass and vines, with poultry yard and vegetable garden and orchard to the sides and back of house, are also invited to enter this contest. Drawings or good photos may accompany the article if you wish.

Let us have your opinions and experiences that each may profit by what the other knows.

A set of narcissus silver knives and forks will be the prize for the best letter received. Second and third prizes, sets of narcissus silver teaspoons. Prizes will be awarded March 15.

Hearty Dishes For Cold Weather

A ROUND HALF DOZEN.

To prepare minced meat, chop or grind any cold, left-over meat, heat with some of the gravy, and season with celery salt or onion juice. Serve on buttered toast.

Carrot Pudding.

Two large raw grated carrots, 2 cupsful of bread crumbs, 6 tablespoons flour, 1 tablespoon suet, 1 cupful of raisins, citron, dates and almonds mixed together, 3 eggs, 1/2 cup molasses, 1/2

teaspoon salt, 1/2 teaspoon ginger. Mix all together, pour into a buttered mold and steam 3 hours. Oneida, Kan. Mrs. M. B. G.

Liver With Cream Gravy.

[Prize Recipe.]

Slice liver in neat pieces, salt, dip in flour, and fry brown on both sides, being careful not to scorch. Add a chopped onion while frying. When meat is done add 1 pint milk or cream, a lump of butter, pepper, and at the last add 2 tablespoons flour. Move back on the range and let simmer about 10 minutes. Serve with plain boiled potatoes. Prescott, Ariz. Aida.

Hominy.

To make hominy that tastes like the good old fashioned kind take 1 quart of shelled corn—use largest kernels—2 or more cups of water and 1 large tablespoonful of baking soda. Cook slowly a long time until the corn is tender and the hull comes off. Dip the corn out in a crock, pour cold water over it and rinse thoroughly. Fry in butter or fresh fryings, and add salt and pepper; or boil in sweet milk and season. Bellevue, O. A. C. S.

Parsnip Rolls.

[Prize Recipe.]

Boil 2 large parsnips till tender, then press through a colander. Add 1 quart of hot milk, 1 teaspoon salt, 1/2 cup butter, 1 yeast cake (which has been soaked), 1/4 cup sugar, enough flour to make a stiff batter. Allow the dough to rise to twice its size, then knead some flour into it and let rise again. Divide it into small pieces, lay on buttered tins, let rise 10 minutes and bake 20 minutes in a hot oven. I usually make them in the evening and bake them for breakfast, as we are fond of warm bread for breakfast. Oneida, Kan. Mrs. M. B. G.

Dressmaking Lessons Free

Complete Illustrated Course of Lessons Given to Women Readers of This Paper For a Short Time Only.

We have just published in one large volume one of the most valuable and most comprehensive courses of instruction in home dressmaking ever written. This course of lessons covers practically every phase of the subject of dressmaking. It tells you how to make most every garment, from the simplest house apron to the most elaborate evening gown.

This valuable book, "Every Woman Her Own Dressmaker," will be found of great assistance to beginners as well as experienced dressmakers. You can turn to this book and find a satisfactory answer to practically every dressmaking question which might come up. It illustrates and fully describes 200 very latest styles for ladies and children. It gives valuable instructions on fitting and finishing—instruction needed by every woman. Here are some of the interesting subjects taught in these lessons:

- How to sponge and shrink wool goods.
How to shrink wash materials.
How to make a tailored coat at home.
How to make a plain shirt waist by the newest and easiest method.
How to make a boned lining.
How to make stylish suits, skirts, waists, dresses and dressing saques.
How to make wrappers, kimonos and underclothes.
How to make children's coats and school clothes.
How to make baby clothes, long and short.

We are giving these valuable dressmaking books away absolutely free just to introduce our popular publication. Send us your name and address at once, together with 4 cents in stamps to cover mailing expense, and secure one of these valuable books before the offer is withdrawn. Address ARTHUR CAPPER COMPANY, Dept. DM-11, Topeka, Kansas.

The Best of the Six, He Says.

Mr. Editor—I value Mail and Breeze very highly. It is one of the best farm papers. I have six good farm papers, but Mail and Breeze is liked the best. C. Bencke.

R. 1, Lost Springs, Kan.

WANTED 200 Tailoring Salesmen At Once

\$60 a Week and Six Suits a Year AT COST No experience necessary—no capital or other investment required. We furnish everything—sample full instructions—perfect auto-measuring system—complete salesman's outfit FREE—everything necessary to start at \$60 a week, with a chance to work up to double that amount on a commission basis at the end of three months. Upon this remarkable offer we want 200 new men immediately.

Prices Cut \$4 to \$8 Every man you meet will be your customer—he will jump at the chance to buy a made-to-measure suit in the latest striking city fashion, with great tailoring in the world at from \$4 to \$8 less than he could buy a ready-made suit at a store.

Exclusive Territory—Free Advertising We appoint only one salesman to a territory. We furnish free advertising printed in our agent's name, also write to prospective customers for him, and thus send hundreds to his home or office to see his samples and place their orders. We make his success certain.

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We want our men to dress right up to the minute in style and quality—and we not only allow you to pay for your own clothes out of your commissions, but we price them to you at actual cost (not more than six suits a year) so you can be the best dressed man in town. Send no money, just write at once if you want this splendid position. We offer this season to 200 new men. Reliable Tailoring Company Chicago, Ill. 3918, Pacific St.



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Splendid Kalamazoo range—latest model—wonderful fuel-saver—at bottom prices. \$60 days' trial—freight prepaid—cash or credit. We ship the day your order comes. Write For Prices and illustrated book of 400 stoves—FREE. Ask for Catalog No. 843. We make furnaces and gas stoves too—ask for catalog. Kalamazoo Stove Co., Manufacturers, Kalamazoo, Michigan. Direct to You.

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No doubt you've often wanted some bakery goods for special occasions like weddings and parties—the new parcels post places the services of the best bakery in the state at your immediate disposal. We will send you bakery dainties, parcels post prepaid, almost as cheaply as if you came to the bakery itself. Send for our parcels post price list of bakery goods.

IDEAL BAKERY THE HOME OF 157 DIFFERENT KINDS OF GOOD THINGS TO EAT. 6th and Jackson Sts., TOPEKA, KAN.

RING AND BRACELET GIVEN FOR FEW HOURS WORK Sell 6 boxes of Smith's Rosebud Salve at 25c per box, a great remedy for burns, cuts, sores, piles, eczema, catarrh, colds, croup, etc. When sold return the \$1.50 and we will promptly forward the adjustable bracelet, bright gold finish, and the gold filled wedding ring, or choice from our premium list. Send No Money. We trust you. ROSEBUD PERFUME CO. Box 225, Woodboro, Md.

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It's all the rage now to mail your friend a beautiful gold embossed gift booklet as a birthday remembrance, or as an expression of friendship, love and esteem at any time. They're more appropriate, more dainty, more desirable than post cards. Each booklet contains 8 pages, artistically decorated, with an appropriate verse and space for your name and name of friend to whom you are sending the booklet. These dainty little gifts are sure to please. To introduce our complete line we will mail a choice assortment of four different designs, covers beautifully embossed, printed in many colors and hand tied with silk cord, all for only 10c postpaid, and we will include free a copy of our latest catalog of post cards and gift novelties. Capital Novelty Co., Dept. 11, Topeka, Kan.

FREE WATCH AND CHAIN Our fully guaranteed, stem wind and set, richly engraved watch, proper size; set brilliant 8-stone ring, are given FREE to anyone who sells 50 or more articles at 10c each. Order jewelry now when sold send \$2.00 and we will send you watch, ring and beautiful chain FREE. HOMER WATCH CO., Dept. 21, CHICAGO.

RED LETTER BIBLE FREE

I want to give one of these superb, self-pronouncing Red Letter Bibles to every reader of this paper in return for a very small favor which will require but a few moments of your time. This is a very beautiful and very expensive Bible—size 7-1/2x5-1/2 in., printed in large, clear type, on pure white paper, bound with Imperial Seal, overlapping edges, strong and durable. Especially adapted to the needs of Church and Sunday School workers. The words of Christ are printed in red. Profusely illustrated. Send No Money This elegant Bible is my free gift to you in return for a very small service. Send your name and address for descriptive circular and full particulars of my free offer. Address: HOUSEHOLD BIBLE CLUB, 854 Jackson St., TOPEKA, KAN.

HOME DRESSMAKING

These patterns may be had at 10 cents each from Farmers Mail and Breeze.



- 2339—Children's Petticoat, 9 sizes, 1 to 9 yrs.
- 6067—Ladies' dress, having four-gore skirt, 5 sizes, 34 to 42 bust.
- 5716—Ladies' Six-Gore Skirt, 5 sizes, 22 to 30 waist. Size 24 measures 3 yards around lower edge.
- 5584—Boys' Shirt Blouse, with or without back yoke facing, sizes 4, 6, 8, 10 yrs.
- 5442—Ladies' 25-Inch Length Coat, 6 sizes, 32 to 42 bust.
- 4575—Ladies' Nine-Gore Skirt, 6 sizes, 22 to 32 inches waist measure.
- 6068—Misses' and Small Women's Dress, sizes 14, 16, 18 yrs.
- 5764—Tailored Shirtwaist, 6 sizes, 32 to 42 bust.
- 6062—Child's Dress, 4 sizes, 2 to 8 yrs.
- 6055—Boys' Dress, sizes 1, 2 3 yrs.

USE THIS COUPON FOR PATTERN ORDERS.

Farmers Mail and Breeze, Pattern Department, Topeka, Kan.
 Dear Sir—Enclosed find cents, for which send me the following patterns:
 Pattern No. Size.....
 Pattern No. Size.....
 Pattern No. Size.....

Name
 Postoffice
 State
 R. F. D. or St. No.
BE SURE TO GIVE NUMBER AND SIZE.

We Need More Pots and Pans.
 [Prize Letter.]

Some housekeepers are put to a great deal of unnecessary labor by not having enough cooking utensils. One woman I know cooks one vegetable in a kettle, keeps it warm in a colander over the teakettle, washes the kettle and uses it for a second vegetable. This is not real economy, for the time and strength used by this woman every day is worth more than the few cents that would buy a second kettle. Pots and pans are so

cheap that every woman should have enough to get a meal without having to stop and wash several between whites.

In selecting granite vessels it costs no more to have them all of one color than of several colors, and it adds much to the beauty of the kitchen. Blue and white is pretty, if it fits in with the color scheme of the kitchen. If one already has a hodgepodge of vessels a color scheme may nevertheless be planned, and when an article needs to be replaced the new one may be bought according to this plan, and in time all will be of one color. Beautiful utensils do much toward making the work of cooking more attractive.

Cheap, 10-cent graniteware rarely pays, as it chips and allows food to burn easily. Iron teakettles and heavy pots should be discarded for something lighter and easier to handle. Aluminum is a good material for cooking vessels, being both light and durable and easy to keep clean.

More accurate measurements in cooking will insure greater success, and no kitchen is complete without a half-pint measuring cup. One can be bought for 10 cents and can be obtained in tin, glass, or aluminum. A soft knife, such as is used by painters and is known as a palette knife or spatula, will be found very useful. It is much better than a spoon for mixing batters and doughs, may be used as a cake turner, and is particularly useful in cleaning dishes before washing. One with a 6-inch blade costs about 45 cents and is the best size for most purposes. Ten cents invested in an apple corer, a corkscrew or a can opener will often prove worth many times the cost. A meat grinder, a bread mixer, a double boiler, an aluminum griddle which does not need greasing, and many other utensils cost but little and add much to the pleasure of work.
 Columbus, O. Emma Perry Foulk.

The Dirty Dishcloth.

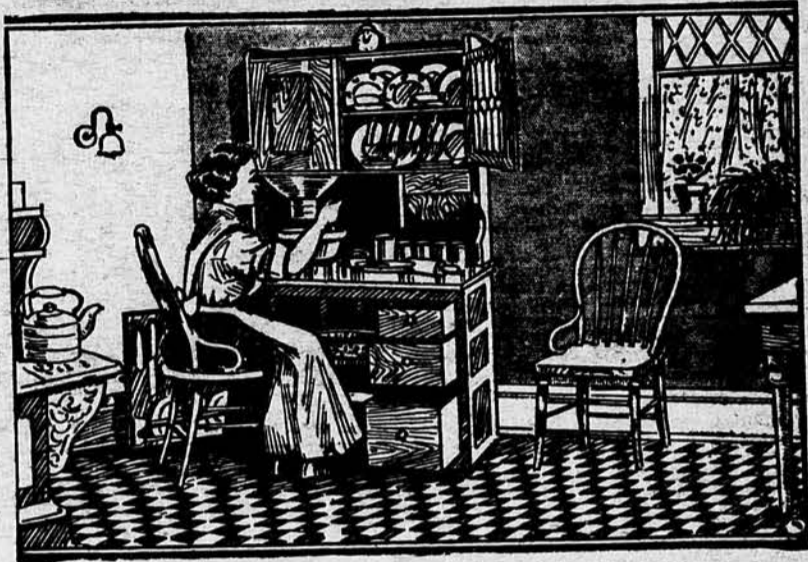
Dishes and cooking utensils in order to be sanitary should be free from seams, cracks and crevices. From the seams of utensils in which milk is kept and which have not been well washed and scalded, decaying milk has been removed with the aid of a pin. This decaying material acts as a "starter" when fresh milk is put in the utensil, causing it to sour very quickly. Not only is this true of milk, but of other foods also. Uncleanliness of dishes, in which foods are kept, is too often caused by the use of a foul dishcloth and failure to thoroughly wash and rinse dishes. Dishes should always be rinsed, but it is safer to scald them, as disease germs may be carried on cups, spoons or forks but will be killed by boiling water. When the dishcloth is foul or bad smelling, bits of food have collected in it and have commenced to decay. If disease germs, such as those producing colds, grip, or typhoid fever, once get into the food particles on the cloth they also multiply and are distributed along with the decaying food substance over the surface of the dishes wherever the cloth touches them. Dishcloths should be thoroughly washed and scalded after each use. It has been said by a bacteriologist that dish washing is frequently the dirtiest process of the household.

Quilt To Take To Town.

Good serviceable quilts can be made at small expense, and are just the thing for the men to use out in the wagons when they go to town in the cold, when they happen away at work, when they go camping out, or when there is need of a shake-down at home. In the summer time one spread in the hammock makes an ideal resting place for some tired, overworked body who has tried in vain to woo gentle slumber in some hot, stuffy bedroom. Gather up all the old overalls, jumpers, shirts, and all such things, even coats that are no longer serviceable. Wash all clean, rip the seams and press while damp. Cut a pattern from heavy cardboard 4 by 8 inches and cut all the pieces you can get that size. Cut all the left-overs into strips 2 by 4 inches. Sew the large ones hit and miss, or if you prefer you can color the lighter ones with dyes. When you have enough for a quilt top buy 10-cent shirting for a lining and make up like any quilt, tying with carpet warp. You will have a quilt that will outwear three ordinary ones.
 Mrs. Daisy D. Guthrie.

Woodward, Okla.

"Here's Freedom From Kitchen Drudgery!"



Every Mail and Breeze Housewife May Now Own a "Gold Medal" Kitchen Cabinet!

Read What This

"Western Housewife" Says:
 "Before the 'Gold Medal' Kitchen Cabinet came into my home I hardly knew the meaning of a moment's rest. It was a case of tramp, tramp, tramp from the stove to the cupboard, the cupboard to the work table, the table to the sink and back to the cupboard again. Miles of ceaseless walking all through most every hour of every day.
 "My 'Gold Medal' Cabinet has, I actually believe, added 10 good years to my life! It has made life really worth living—and it has made my Kitchen work a PLEASURE instead of a drudge!
 "My kitchen is now one of the cosiest and neatest rooms in our home. In the big roomy 'Gold Medal' Cabinet there is a place for everything used in cooking—and everything is always in its place!
 "I can go into my kitchen now and prepare an entire meal with hardly a step to be taken except from my cabinet to the stove. I sit in a comfortable chair drawn up to the big nickel-covered work table—and within easy reach is every article I need in my cooking."

This is How the

"Gold Medal" is Made:
 The "Gold Medal" Cabinet is an attractive piece of furniture, manufactured from selected oak, and finished a rich golden oak color with a special wax finish. The top has a 2-inch cornice at the back and ends, forming a convenient shelf. Cabinet top 40x38x12 inches. Sanitary flour bin with glass indicator and dust-proof sifter. Large china closet, spice bin, etc. Base 30 inches high, 49 inches long and 28 inches wide, with nickel top. Large cupboard, three commodious drawers, kneading board, etc. A very special feature of my Gold Medal Cabinet is its sanitary nickel top, a sheet of heavy zinc, coppered and then nicked, stretched tightly over a cleaned top, the brightest, most durable and most sanitary top ever manufactured.
 Lower drawer contains a two-compartment metal bread and cake box, hinged metal covers. This box can be lifted out of the drawer, cleaned and replaced without trouble. The commodious cupboard to the left of the drawers is 25 inches high, 24 inches wide and 26 inches deep with a sliding tray shelf and large pan rack on door—an all Oak Cabinet, 38x40 inches by 70 inches high, complete with Sifter Flour Bin, Tilting Sugar Bin, Art Glass Door, Metal Bread Box and High-Grade Castors, crated ready for the kitchen.

Get Our "Free Cabinet" Plan!

It is the most liberal, most attractive, most astonishing offer ever made. This beautiful Gold Medal cabinet may be yours almost for nothing—Worth \$30—sold to our CLUB MEMBERS ONLY at just about HALF PRICE—no money down—30 days free trial, then pay our small price in 50c payments. Fully warranted—money back if it doesn't please. Hundreds of letters prove quality.

Thousands have already written for membership in our big club. We want every locality represented. Our wonderful NEW PLAN makes it possible for a few ladies in each locality to get this cabinet ABSOLUTELY FREE. No canvassing or soliciting. No public work.

This great free cabinet offer good for short time only. Send YOUR name and address for full details NOW. It is an offer that will surely please you. Write today. Use a postal card or the coupon printed below. Address,

Mail and Breeze Kitchen Cabinet Club
 Dept. 81, Topeka, Kan.

"Saves Many Steps"

"I like the Gold Medal Kitchen Cabinet just fine and think it is a real nice and useful piece of furniture. It saves many steps and is so easy to keep clean."—Mrs. A. A. Davis, Hoxie, Kan.

"Nothing Like It"

"The Gold Medal Cabinet reached me in perfect condition. It was very well crated to guard against accidents. In neatness, construction, material and workmanship the cabinet simply cannot be duplicated."—Mrs. M. E. Darrough, Emporia, Kan.

Send This Coupon NOW!

Mail and Breeze Kitchen Cabinet Club, Dept. 81, Topeka, Kan.

Send me your illustrated folder and tell me all about your free cabinet plan.

NAME

ADDRESS

FARMERS CLASSIFIED PAGE.

Advertisements will be inserted in this department at the low price of 5 cents per word each insertion for one, two, or three insertions. Four or more insertions only 4 cents per word each insertion. Cash must invariably accompany the order. Remit by postoffice money order. No order taken for less than \$1. This does not mean that a single insertion of your ad must cost \$1, but that your total order must reach \$1. All advertisements set in uniform style. No display type or illustration admitted under this heading. Each number and initial letter counts as one word. Guaranteed circulation over 104,000 copies weekly. Everybody reads these little ads. Try a "Farmers Classified" ad for results.

HORSES, CATTLE, HOGS, SHEEP.

BERKSHIRE boar pigs. Sired by prize winners. F. U. Dutton, Penalosa, Kan.

ABERDEEN ANGUS bulls and heifers. Chas. A. Streeter & Son, Wakefield, Kan.

POLAND CHINA sows, for March farrow, \$30.00. E. M. Chatterton, Colony, Kan.

TROTTER BRED horses for sale. For particulars write A. J. Butcher, Troy, Kan., R. F. D. No. 2.

ONE registered Coach mare and filly. One Scotch collier pup. A. W. Toews, Inman, Kan., R. D. 3-22.

GOOD young jacks ready for service, \$300 to \$500. One Imp. 6-year-old Belgian. Write Bruce Saunders, Holton, Kan.

DUROC HOGS, Bronze turkeys, Barred P. Rock and Brown Leghorn chickens for sale. J. M. Young, Fall River, Kan.

FOR SALE—Two large Mammoth jacks and one imported Percheron horse. Call on or address Doolin Bros., Harris, Kan.

FOR SALE—One black imported Percheron stallion, 5 years old. Weight one ton. Sure breeder. J. E. Dreier, Hesston, Kan.

FOR SALE—Eight Jersey bull calves; some from high producing dams; some ready for use. Chester Thomas, Waterville, Kans.

TWO fine yellow Jersey bull calves three months old. From rich heavy milkers. Geo. W. Shearer, Elmhurst Farm, Lawrence, Kan.

HEREFORD bull, Columbus Prize 13th, 5 yrs. old, registered. A fine bull, nice disposition, for sale at a bargain. Victor Schroppe, Larned, Kan.

IMPORTED black Percheron stallion, 9 yrs. old, 2,100 lbs., for sale. Six crops of colts to show. No fault. Wathena Breeding Assn., Wathena, Kan.

FOR SALE cheap. 1 coming 3 registered Percheron stallion, weight 1,900. 1 weanling Percheron stallion. Weight 800. John A. Spahr, Wellington, Kan.

PERCHERON stallion, nine months old, dark gray, large, stylish, built and bred right, and will please you. G. E. Clark, 205 W. 21st St., Topeka, Kan.

FOR SALE—Black Percheron horse, registered. Three heavy mares, two light mares, four coming 2-yr.-old fillies; or trade for cattle. Henry Swan, Hugo, Colo.

WANTED—To furnish hogs, chickens, 20 cattle on good stock farm. Profit sharing. Man, wife, boys 17. Life experience. C. A. Ingersoll, Route 2, Emporia, Kan.

FOR SALE—One black Percheron stallion, registered, weight 1,800 lbs., or will trade for good mules or cattle. Address G. W. Hagerman, St. John, Kan., R. R. No. 2, Box 47.

ENTIRE DAIRY HERD—50 head of the best cows—Jerseys, Holsteins and Short-horns. Fresh and springing. Just bought from a retiring dairyman. Jack Hammel, 215 Adams, Topeka, Kan.

POULTRY.

POULTRY SILO—Valuable information. More winter eggs. My experience. Send .03. Alph Leatherman, Moundridge, Kan.

WANTED fancy poultry breeders. Always in the market. Write us. Shelton & Co., Alcott Station, Box 33, Denver, Colo.

INCUBATOR CHICKS die by hundreds with white diarrhoea. We save them. Send address of ten people using incubators, and get free, details, how we hatched, fed and raised fourteen hundred. Alva Remedy Co., Alva, Okla.

FOR SALE.

USED BEE SUPPLIES. Hackwith Quiney, Kan.

FOR SALE—Auto livery and garage. C. B. Thomas, Buffalo, Kan.

50,000 HEDGE posts for sale in car lots. W. H. Blitts, Meivern, Kan.

SINGING CANARIES \$2.50. Birds shipped everywhere. Write Tappen, 1008 Royal, Dallas, Texas.

MODERN LIGHTING SYSTEM. Write for prices. World Beater Generator Co., 2206 Forest, Kansas City, Mo.

HAND vacuum cleaners sold direct to consumers. Why pay large commission to canvassers? C. C. Wright Co., 1220 O St., Lincoln, Nebr.

NEAR State Agricultural college. For sale, a business netting \$4,500.00 a year. Quick cash price. Write now. Address 1114 Fremont St., Manhattan, Kan.

FOR SALE—A good as new Oliver typewriter for only \$35. Used but three months. Could ship on approval. Address A. G. Kittell, care Mail and Breeze.

YORK TRACTORS use low grade fuel, are slow speed engines, have no transmission trial before paying. Three grades, 10 1/2 c, 11 1/2 c, 12 1/2 c pound. Sample 10c. leaflet free. Agents wanted, good profits, steady orders. Spencer Aplanies Co., Box 182, Nordhoff, Cal.

CALIFORNIA HONEY—Finest quality and flavor; freight prepaid anywhere on trial before paying. Three grades, 10 1/2 c, 11 1/2 c, 12 1/2 c pound. Sample 10c. leaflet free. Agents wanted, good profits, steady orders. Spencer Aplanies Co., Box 182, Nordhoff, Cal.

FOR SALE.

SMITH'S COLLAPSIBLE METAL FORMS for making concrete culverts and arches. Latest improvements. Big money for agents. Write today for choice of territory. P. R. Smith, Sheetz Bldg., Wichita, Kan.

WANT TO SELL—Thoroughly modern 8 roomed residence, Topeka, 2 blocks State Capitol, 37 1/2 frontage, good barn, fruit, splendid home, priced for quick sale by Owner, 2101 East 31st, Kansas City, Mo.

FOR SALE—Hardware, implement and vehicle stock. A growing business in a growing town. Increase has been two to six thousand each year. The last six years an absolutely clean stock, no dead numbers. Low rate of insurance and rent. Only hardware store in town. Don't write unless you mean business. No trades considered. Snap if taken soon. Address Growing, care of Mail and Breeze.

HOUSE-FREE OFFER. Investigate. Bargains—improved and unimproved. \$10 up. Ten years to pay. Sample bargain. 160 acres 5 mi. W. of Medford, Co. seat, Taylor county, Wisconsin. On main road. House and barn. 20 acres cleared; 40 acres very easily cleared; school house across the road; all fenced; river within 1/2 mile. 100 acres good timber—will more than pay for clearing land. Price \$30.00 an acre. Loeb-Hammel Realty Co. (not inc.), owners, Box D, Medford, Wis.

SEEDS AND NURSERIES.

WANTED—Rice popcorn. Chas. G. Strong, Lowell, Ariz.

CHOICE cowpeas and alfalfa seed. D. J. Yoder, Haven, Kan.

FOR SALE—German millet, broom corn seed. D. S. Troyer, Protection, Kan.

ENGLISH blue grass seed. Nice re-cleaned seed \$2.00 per bu. W. W. Dunham, Silver Lake, Kan.

150 BUSHELS of re-cleaned alfalfa seed \$8.00 per bu., sacks free. John Ryman, Dunlap, Kan.

CHOICE timothy and Red clover seed. Samples on request. F. N. Miller, 412 Main St., Osage City, Kan.

Why Not Use the Parcels Post?

The new Parcels Post is being used, even more extensively than had been predicted by its friends. Are you using it? Parcels Post will carry your products, seeds, eggs, plants, etc., etc., at a low cost. The classified ads on this page reach the buying kind of people. They reach over 104,000 families every week. Rates given above. Better send your ad today.

THIRTY bushels strictly pure alfalfa seed. Last year's crop, \$7.00, sacked. Melvin Smeltz, Enterprise, Kan.

HOME GROWN alfalfa seed, finest quality, in any quantities. Write for sample and prices. D. Badger, Eureka, Kan.

MAMMOTH black hulled White Kafir. Hand threshed. Selected for early maturity 17 years. J. G. Mitchell, Lafontaine, Kan.

FREE. "A Salesman That Costs You Nothing," with special prices on high grade nursery stock. Send us your want list. Brown Nurseries, Hutchinson, Kan.

YELLOW DENT seed corn, hand sorted, \$2.25 bu. up to five bu.; \$2.00 per bu. for 5 bu. or more. Choice timothy seed two dollars per bu.; sacks 25c. Beckett Bros., Carrollton, Mo.

FOR \$1.00 I will send you 8 apple, peach, cherry, plum or pear trees; or 75 Raspberry, Blackberry or Dewberry, or 20 grape, rhubarb, currant or gooseberry, or 100 asparagus or 200 strawberry plants; all first class. Catalogue free. Manhattan Nursery, Manhattan, Kan.

NURSERY STOCK.

200 STRAWBERRY PLANTS \$1.00. Best varieties. Wholesale prices on fruit trees. Free list. John F. Dayton, Waukon, Iowa, Drawer G.

PRIZE watermelon and muskmelon seed, true to name and sure to grow. 1/4 lb. 15c; 1/2 lb. 50c, postpaid. L. M. DeWeese, Richfield, Kan., wholesale grower.

LANDS.

FOR SALE—Three 80-acre tracts, singly or collectively. No 1 is all bottom land; ideal for grain; five acres now in alfalfa; fenced and cross fenced; plenty of all kinds of fruit; produced 500 bushels of pears last season. New ten-room house, other building inadequate, abundant water supply, considerable saw timber. Price \$80 per acre. No. 2. A well-kept eighty, 15 acres bottom, remainder rolling, almost all tillable; buildings good; 105-ton cement silo; abundant water; good peach and apple orchards; 6 acres in alfalfa; 3 acres of hardwood timber; well fenced; situated 3 miles from good dairy market with two railroads; 12 miles from Topeka; a good dairy or stock farm. Price \$80 per acre. Nos. 1 and 2 adjoin. No. 3. A choice eighty, 16 acres of bottom; remainder gently rolling; good new buildings; new five-room cottage; young apple and peach orchard; bearing; other fruit; four acres of timber; four miles from railroad town; 10 miles from Topeka; good water; \$75 per acre. R. G. Campbell, administrator, Meriden, Kan.

LANDS.

TWENTY years' experience selling land. List yours with us. Chaney & Co., Topeka, Kan.

IRRIGATED, rich, improved, Grand Ronde valley, Oregon, land. Low price, easy terms. Y. care Mail and Breeze.

160 ACRES nice land 6 miles from Salina, Kan. 80 acres in wheat. \$6,500 takes it. Wm. Kurtenbach, Herington, Kan.

FOR SALE OR TRADE—Unimproved section in Sherman Co., Texas, for improved Mo., Okla., North Ark. Box 76, Berthoud, Colo.

SELL YOUR PROPERTY quickly for cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

520 ACRES Sevier county, Arkansas. 40 acres McDonald county, Mo. Send me your properties for exchange. Wm. Pettrich, Carthage, Mo.

320 ACRES Hodgeman Co., seventy broke, \$6,000.00, 1/2 cash, balance long time low interest. School across the road. Box 38, Mount Hope, Kan.

160 ACRES bottom and slope land, improved, one mile from town, will sell easy terms or trade for smaller farm. D. C. Plyley, Scranton, Kan.

HERE is your last chance to get 320 acres of fine government land; I will locate you for \$50. For particulars address C. P. Clifton, Lund, Utah.

\$5 DOWN, \$5 monthly, buys 40 acres near town. Price \$200.00. \$10 monthly buys 80 acres land, several counties to select from, free list. Box 372, Carthage, Mo.

CHEAP patented state school lands, South Texas, \$1 an acre cash, balance ten years. For all particulars write F. A. Connable, trustee, 516 Commercial Bank Bldg., Houston, Texas.

160 ACRES, improved, 85 cultivated, balance pasture, 12 acres alfalfa, 40 acres alfalfa land, creek and timber, 5 1/2 miles from town. Price \$4,500. \$1,500 down, balance long time. Geo. F. Bump, Phillipsburg, Kan.

FOR EXCHANGE—Fine 40 acre fruit tract, yearling trees, near Palsade, for eastern farm land or income. Price \$250 per acre clear. H. J. Woolf, owner, Palsade, Colo.

IRRIGATED LAND, \$45 and \$50 an acre. Eight year payments. Perpetual water rights. Big crops each year. County seat. Literature approved by state officials. Write us now. Wyoming Development Co., Wheatland, Wyo.

FOR SALE—45 acres fine valley land, well improved, fenced hog tight in several fields. Half alfalfa, balance will grow fine alfalfa. 8 acres fine timber, 6 miles of Salina, 1 1/2 miles of good town, 3 railroads. Price \$6,000. Terms. Drenning Bros., Salina, Kan.

COLORADO WANTS FARMERS. No better place to live and make money. Land of sunshine and big crops. Climate, soil and opportunities unsurpassed. For reliable information write to W. W. Griswold, Farm Specialist, 422 Chamber of Commerce Bldg., Denver, Colo.

A GUARANTEED bargain. 320 acres of extra good land two miles from town, belongs to an estate, must sell, guarantee this to be fifteen dollars per acre cheaper than anything within a mile of it, fair improvements. Price \$50 per acre. 200 other good farms for sale. Ed Croft, Richards, Mo.

FARMS FOR SALE.

CANADA LAND. Write for our 32 page booklet containing 63 photographic views, and statistical and detailed information about our lands in east central Saskatchewan. It's free. The Walsh Land Co., Winnipeg, Canada.

FOR SALE OR TRADE—A good 160 acres, near a Friends academy, 4 room house, board stable, 65 acres in alfalfa, 40 acres for spring crop, fenced and cross fenced, a bargain at \$8,000.00. Mortgage \$2,200.00. Will take a good automobile or registered stallion in the deal. C. W. Straughan, Wakita, Okla.

ADVERTISE YOUR PROPERTY in Kansas Weekly Capital for quick and sure results. 200,000 circulation guaranteed—among best farmers in Kansas. Advertising rate only 40c per line of seven words. Address Kansas Weekly Capital, Adv. Dept., Topeka, Kan.

GOVERNMENT FARMS FREE. Our 112-page book "Vacant Government Lands" describes every acre in every county in U. S. How secured free. Latest diagrams and tables. All about free government farms. Official 112-page book. Price, 25c postpaid. Webb Publishing Co., (Sta. K), St. Paul, Minn.

FARMS FOR SALE.

WANT to buy good Kansas farm. A. Pehrson, Elk City, Oklahoma.

IF YOU want a farm write me, I have some good ones easy terms, some good trades. Youngs, Howard, Kan.

FOR SALE—140 acre farm five miles of McAlester, Co. seat Pittsburg Co. Terms. E. S. Fendall, N. McAlester, Okla.

FOR SALE OR TRADE—A good alfalfa farm in southern Oklahoma. Write owner, M. V. Van Meter, 219 Ziegler Building, Oklahoma City, Okla.

FOR SALE—150 acre farm 7 miles from Leavenworth, Kan., good improvements, \$45.00 acre. Address S. J. Renz, 1205 Rialto Bldg., Kansas City, Mo.

160 ACRES improved farm in Dickinson Co., 1/2 in wheat, on sale 10 days only. Sold by owner. Terms easy, \$45 per acre. J. P. Feigley, Enterprise, Kan.

DO YOU WANT to trade your automobile and get a 200 acre farm of your own in Sherman Co., Kan.? \$15.00 per acre. Write M. A. Alexander, Goodland, Kan., owner.

FOR SALE OR RENT—320 acre improved irrigated cattle ranch, near excellent range, produces feed for 300 head cattle. Oldest water right. Percy A. Hughes, Yampa, Colo.

FARM AT AUCTION. 160 acres, improved, two miles west of Andale, Sedgwick Co., Kan., will be sold to the highest bidder February 20th, 1913. Inquire M. Lill, Mt. Hope, Kan.

ARIZONA—Lifetime opportunity—560 acres for sale in the famous Salt River Valley; price \$87,500; if entire tract is purchased will divide into acreage to suit at \$175 to \$190 per acre; land adjacent selling \$200 to \$250 per acre; all under high state of cultivation; reasons for selling, have worked too hard, health demands lighter work; terms 40 per cent cash, balance time to suit at 8 per cent. F. G. Millage, Room 404, Fleming Bldg., Phoenix, Ariz.

FARM WANTED.

WANT 40 acres eastern Kansas. 1012 North 6th, Independence, Kan.

WILL BUY good farm. Well situated. Owners only. Give description and price. Addr. Coons, Box 754, Chicago.

SITUATION WANTED.

EXPERIENCED farmer with family (2 children) wants work on farm. Write particulars. State salary. B. F. Hammond, Gage, Okla.

PATENTS.

PATENTS obtained. Best work at lowest rates. Harry Patton, 360 McGill Bldg., Washington, D. C.

SEND FOR FREE BOOKLET. All About Patents and Their Cost. Shepherd & Campbell, Patent Attorneys, 500 C Victor Bldg., Washington, D. C.

PATENTS THAT PAY. \$561,530 made by clients. Patent book—"What and How to Invent—Proof of Fortunes in Patents" free. 112-page guide. E. E. Vrooman, Pat. Atty., 885 F St., Wash., D. C.

HELP WANTED.

PLACES found for students to earn board and room. Dougherty's Business College, Topeka, Kan.

WANTED—Man and wife without children to work on farm. T. E. Cavanaugh, Spearville, Kan.

GOVERNMENT FARMERS WANTED—\$60 to \$75 monthly. Free living quarters. Write Ozment, 38 F, St. Louis.

WANTED—Railway mail clerks. \$75.00 month. Examinations everywhere. Coaching free. Franklin Institute, Dept K 53, Rochester, N. Y.

RAILWAY MAIL examination everywhere May 3d. Clerk-carrier soon. Hundreds needed account parcels post. Work for Uncle Sam. Salaries raised. Write American Institute, Dept. B, Kansas City, Mo.

PREPARE for a good paying government position; \$75.00 to \$100.00 per month. Work very pleasant. Promotion sure. We prepare for civil service positions. Our \$10.00 and \$15.00 special introductory tuition offer will prove a big investment to you. Address The Southwestern Correspondence School, Box 654, Wichita, Kan.

MEN AND WOMEN wanted for government positions. \$90.00 month. Thousands of parcels post positions open. Annual vacations. No "layoffs." Common education sufficient. Influence unnecessary. Farmers eligible. Send postal immediately for free list of positions open. Franklin Institute, Dept K 53, Rochester, N. Y.

LOCAL REPRESENTATIVE WANTED. Splendid income assured right man to act as our representative after learning our business thoroughly by mail. Former experience unnecessary. All we require is honesty, ability, ambition and willingness to learn a lucrative business. No soliciting or traveling. This is an exceptional opportunity for a man in your section to get into a big paying business without capital and become independent for life. Write at once for full particulars. National Co-operative Realty Company, H-157 Marden Building, Washington, D. C.

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Live-stock Department.

FIELDMEN.

- A. B. Hunter, S. W. Kansas and Oklahoma, 1124 So. Market St., Wichita, Kan.
- J. W. Johnson, 820 Lincoln St., Topeka, Kan.
- N. W. Kansas and S. Nebraska, Kan., N. W. Kansas and N. Missouri, C. H. Walker, N. E. Kansas, Mo.
- 6322 Flora Ave., Kansas City, Mo.
- Geo. W. Berry, N. Nebraska and W. Iowa, Capper Bldg., Topeka, Kans.
- H. W. Graham, E. Iowa and Illinois, Chillicothe, Mo.
- E. R. Dorsey, S. E. Kansas and S. Missouri, Girard, Kans.

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 Horse Sale.

Mar. 6—Mitchell County Breeders' Association, Beloit, Kan.

Percheron Horses.

- Feb. 19—J. P. Hershberger, Harper, Kans.
- Feb. 20—The Knuckles Co., (Nebr.) Horse Breeders' Assn., Percy Baird, Sec., Ruskin, Neb.
- Feb. 21—J. A. Fee & Son, Stafford, Kan., at Zenith, Kan.
- Feb. 24—C. B. Warkentin, Halstead, Kan.
- Mar. 5—J. C. Robison, Towanda, Kan., at Willard R. Brown, Minneapolis, Kan., at K. C. Mo., Stock Yards.
- March 12th—L. H. Luckhardt, Manager, Tarkio, Missouri.
- Mar. 13—C. W. Lamer, Salina, Kan.

Percherons and Jacks.

March 6—S. J. Miller, Kirksville, Mo.

Standard Bred Horses.

Feb. 24—C. B. Warkentin, Halstead, Kan.

Brood Mares, Work Horses and Mules.

Mar. 13—C. W. Lamer, Salina, Kan. (100 head.)

Jacks and Jennets.

- Feb. 25—Hutchins & Hineman, Sterling, Kan.
- Feb. 6—Limerick & Bradford, Columbia, Mo.
- Mch. 10—G. C. Roan, La Plata, Mo.

Poland China Hogs.

- Feb. 12—T. J. Meisner, Sabetha, Kan.
- Feb. 14—H. B. Walter, Effingham, Kan.
- Feb. 14—C. M. Prater, Oxford, Kan.
- Feb. 15—Thos. F. Walker & Son, Alexandria, Neb.
- Feb. 18—J. H. Harter, Westmoreland, Kan.
- Feb. 18—Bert Harriman, Pilot Grove, Mo.
- Feb. 19—W. B. Wallace, Bunceton, Mo.
- Feb. 21—R. W. Halford, Manning, Ia.
- Feb. 22—C. C. Ingram, Bloomington, Neb.
- Feb. 25—Deming Ranch, Oswego, Kan.
- Feb. 26—J. W. Pfander & Sons, Clarinda, Ia.
- Feb. 26—L. R. McClarnon, Braddyville, Ia.
- Feb. 27—Olivier & Sons, Danville, Kans.
- Mar. 8—I. E. Knox, South Haven, Kan.

Duroc-Jersey Hogs.

- Feb. 11—H. H. Shaw, Hebron, Neb.
- Feb. 19—J. P. Hershberger, Harper, Kans.
- Feb. 19—E. M. Myers, Burr Oak, Kan.
- Feb. 19—Geo. W. Schwab, Clay Center, Nebr.
- Feb. 20—Rinehart & Son, Smith Center, Kan.
- Feb. 20—Chas. Stith, Eureka, Kan.
- Feb. 22—J. R. Blackshire, Elmdale, Kans.
- Mar. 5—Sam'l Drybread, Elk City, Kan.
- Mar. 6—Marshall Bros., Burden, Kan.
- Mar. 7—W. W. Otey & Sons, Winfield, Kan.
- Mar. 15—W. C. Whitney, Agra, Kan.

Herefords.

- Feb. 18 and 19—Hopper and Bowman, Ness City, Kan.
- Feb. 26—Warren T. McCray, Kentland, Ind.
- March 4-5—Funkhouser, Gabbert & Others at Kansas City. R. T. Thornton, Mgr., 1317 East 15th St., Kansas City, Mo.

Shorthorns

- Feb. 19—J. P. Hershberger, Harper, Kans.
- Mar. 14—C. G. Cochran & Sons, Plainville, Kan., at Lamer's sale barn, Salina, Kan.

Kansas and Oklahoma.

BY A. B. HUNTER.

H. E. Fisher, Danville, Kan., sold 31 Duroc-Jersey bred sows and gilts at an average of \$50.92 per head. His farm sold at auction and brought \$85 per acre. The sale was satisfactory in every way. Mr. Fisher will make his future home in Kentucky. His interest in the great Duroc boar, Graduate Col., was sold at private treaty to Royal Scion Stock Farm, Winfield, Kan., who is now the sole owner of this great sire.

Enjoying Good Business.

Bishop Bros. of Towanda, Kan., are having a splendid trade this season on their good young stallions. They inform us that their trade to February 1 has been better than any former year. They say: "Up to February 1 our business has been more than we had expected. The past week we sold six head and among them one of the best 3-year-old stallions we ever owned and said by many to be the best in the state. Mr. Cryderman, of Solomon, Kan., got him. We have yet 32 coming 3-year-olds to 5-year-olds that are good, classy and attractive stallions and we expect to sell every one of them." Write them for prices and mention Farmers Mail and Breeze.

Col. Snyder, the Pedigree Auctioneer.

Col. John D. Snyder, Hutchinson, Kan., is perhaps better equipped with technical knowledge of the various breeds of livestock than any other auctioneer selling purebred stock in the corn belt today. It means something added to the financial success of

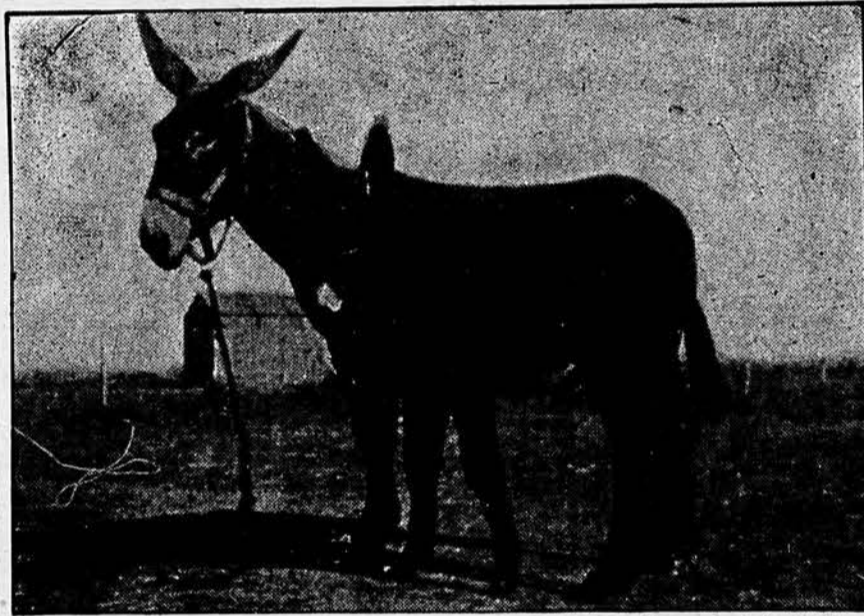
any sale to have an auctioneer that not only knows the blood lines of your stock, but can tell bidders and buyers interesting things regarding its prize winning ancestry. Col. Snyder can do this. He is becoming especially strong as a horse and jack auctioneer and the success of some of the best sales in Kansas and other states the last few years has been due to his efforts. Col. Snyder never forgets to work for you from the day your sale is booked until the last animal is sold. It will pay you to get in touch with Col. Snyder for your sale. Write him today for date.

Purebred and Grade Percherons.

A. W. Williams & Son, Neal, Kan., will offer, February 15, 35 head, including five stallions, both imported and home bred; imported and home bred Percheron mares, together with several three-quarter blood Percheron mares and 14 head of high grade mares. These mares are in foal to Tattus, an imported top Percheron. Three good jacks will also be sold, weighing from 900 to 1,100 pounds each. Don't fail to read display ad in this issue and arrange to be present sale day for these bargains. Write for further particulars, mentioning this paper.

A Great Jack Sale.

Perhaps the greatest sale of jacks and Jennets ever held in the state of Kansas as regards both numbers and quality will be held at Sterling, Tuesday, February 25th. It will be the first annual joint sale of D. J. Hutchins & Sons, Dighton, Kansas. Both of these herds are among the best in the state of Kansas and the jacks and Jennets selected for this sale are good enough to suit the most critical buyer. Neither



One of H. F. Hineman's Jennets With Colt at Side by the Champion Pharoah.

of these men have spared either pains, time or money in building up their respective herds and they offer you now, and no doubt at much lower prices, as good individuals as can be found in Missouri, Kentucky or Tennessee. If you want something good write today for a catalog and arrange to attend. Please mention Farmers Mail and Breeze.

Stith's Good Duroc Offering.

Chas. Stith, Eureka, Kan., will offer at auction, Thursday, February 20, 40 head of fancy, purebred Duroc sows and gilts and two young boars. These boars will make prize winners and should go to head good herds. This offering is unusually good, and breeders who have room or call for good Duroc breeding stock should be at Eureka sale day for bargains. Eureka, Kan., is the heart of a splendid grazing and cattle country, and it is feared these hogs will not be appreciated by home buyers according to their quality. These 40 sows and gilts are strong in the blood of Orion, Commodore, G. M.'s Carl Col., Kelley's Pilot Wonder, Kant Be Beat and other fashionable blood lines. Nearly all of them will be showing safe in pig sale day to Model Duroc, by Dandy Duke. Model Duroc is one of the best breeding sires the writer ever saw. He is a half brother of Beauty's Babe, the grand champion boar at the Hutchinson State Fair, 1911, and the grand champion sow at Topeka the same year. Write today for catalog. Please mention Farmers Mail and Breeze.

Two Days' Stock Sale.

J. P. Hershberger, Harper, Kan., will sell on Wednesday, February 19, 34 head of horses and 30 head of cattle and on the following day, Thursday, February 20, 30 head of purebred Duroc-Jersey swine. Among the horses are 12 head of purebred Percheron stallions and mares, including both imported and home bred. They are all registered in the Percheron Society of America. Some of the mares are in foal to and some of the younger Percherons are by Vermouth III, a stallion that weighs 2,300 pounds and one of the best individuals the writer ever saw. One French draft stallion that will make a ton horse and 17 head of brood mares, work geldings and drivers will be sold. Among the 30 head of cattle are 20 head of pure bred Shorthorn and Five Polled Durhams, reds and roans. Five double standard bulls and one Shorthorn bull, ranging from 6 to 24 months old, grandsons of Roan Hero. Also 14 head of

purebred Shorthorn cows and heifers and 10 grade cows and heifers together with one Jersey cow soon to be fresh. The 30 Durocs are all purebred and registered. Papers will be furnished with 20 head of sows and gilts and 4 boars. This is a Duroc offering that many breeders would be proud to offer. If you have not done so write today for a catalogue and please mention Farmers Mail and Breeze.

Last Call to Prater's Sale.

C. M. Prater, Oxford, Kan., will sell at public auction Friday, February 14, 40 head of purebred Poland China hogs. His display ad on another page describes the offering more minutely. If breeders knew just what kind of hogs they really are there would surely be competition sale day. The foundation stock for this herd came from prize blood of Frank Winn's noted herd and most all of this offering has license to produce prize winners and a number of them properly fitted would do credit to any of our best shows. Mr. Prater is only a hard working, honest and industrious farmer and while he is a good, painstaking hog man he is practically unknown to breeders, therefore these hogs will likely sell far below their worth so you better be on hand sale day for bargains. Write today for catalog, mentioning Farmers Mail and Breeze.

Hereford Sale at Ness City.

J. C. Hopper and W. I. Bowman, Ness City, Kan., will hold their first annual sale of purebred Hereford cattle under cover, rain or shine, at Ness City, Kan., February 18 and 19. This big two days' sale of registered Herefords will afford a rare opportunity for those who wish to buy the best of Hereford breeding cattle. They will sell at auction 75 head of cows that for breeding size and quality, have few equals in the West. The offering should not only attract stockmen of the western part of the state but it will be a great place for breeders from eastern Kansas and other states to add to their herds of breeding stock. These cows many of them are the kind that produce prize winners and some of them would do any breeder credit. The fact that they are better than will be expected will be to the advantage of the

ters came back for the same honors. Anybody with money and a disposition to spend it can gather a winning show herd but not every breeder is successful in breeding a show herd. As stated above Mr. Blackshire is a successful showman and one that breeds all of his show animals. This offering is as well bred and composed of as good individuals as Mr. Blackshire has ever produced. The offering is in splendid condition from a producing standpoint. They have run to the alfalfa stacks all winter and have had a liberal grain ration. Note the illustrated ad in this issue and write Mr. Blackshire at once for his catalog. Next week we will have more to say about the winnings of the Blackshire herd.

Fifteen Tried Brood Sows.

February 18 is the date of J. H. Harter's sale of Poland China bred sows at Westmoreland, Kan. In this sale Mr. Harter is putting 50 head. It is a reduction sale and 15 head of the consignment are tried sows that are as prolific and profitable as tried brood sows can be found in any one herd in the state. They are the sows that have made Mr. Harter's herd talked about all over the country. There will be 15 fall gilts and 15 spring gilts in this sale, many of them out of these sows. Mr. Harter is reserving only a few sows as he expects to handle only a few next season. He has one of the big herds of choice Poland Chinas of strictly big type and the tops go in this sale and many have gone on the market that were really very good animals for breeding purposes. There will also be offered for sale at private sale two herd boars that will prove interesting to anyone who is in the market for a herd boar. Come to this sale. If you can't come send bids to J. W. Johnson, care of Mr. Harter, Westmoreland, Kan.

The Warkentin Horse Sale.

Have you sent for a catalog? Eight head of purebred Percherons, 7 head of Standard bred mares and stallions, by such sires as Symbolcer and Gambrel, 2:10 1/2, the leading speed sire of Kansas. The other 23 head will consist of draft and non-standard bred geldings and mares, excellent work and driving teams. The great brood mare Cosinette, by Cosine, the sire of Sapphire, 2:14 1/2, and Ella Goddard, 2:17 1/2, and others will go in this sale together with her 3 year old daughter Zelma, by Hallmont 4:19 1/2, Standard bred son of Falmont, 2:14 1/2. Attend this sale if you want purebred Percherons, either sex, or Standard bred stallions or mares and racing prospects, sons and daughters of such sires as Cosine, Symbolcer, Gambrel and other sires and dams of note. There will also be sold 20 head of draft and driving mares and geldings, matched work and driving teams. Remember the date, Monday, February 24, at Halstead, Kan. For catalog address C. B. Warkentin, Newton, Kan. Please mention Farmers Mail and Breeze.

Kansas and Nebraska.

BY J. W. JOHNSON.

W. C. Whitney, Agra, Kan., has changed the date of his annual Duroc-Jersey bred sow sale from Feb. 21 to March 15. Many of his sows will not farrow until in April and all of them after March 15. He thinks the chance of good weather is good after March first and with the lateness of his breeding he thinks it well to hold his sale later. We will have more information about Mr. Whitney's offering later on. Mr. Whitney was a good buyer at three leading Duroc sales last week. His herd is one of the good ones and he is a well known breeder.

In this issue will be found the advertisement of the R. & S. Farm Duroc-Jersey bred sow sale at Smith Center, Kan., Thursday, Feb. 20. Rinehart & Son are the well known proprietors of this herd and have been among the best buyers of outstanding good ones in northern Kansas. Mr. A. M. Rinehart, the senior member of the firm has attended three or four sales so far this season and topped the J. T. Higgins' sale at Abilene, paying \$100 for a fine sow and last Thursday he topped the Leon Carter sale at Asherville, Kan., paying the same price for number 1 in that catalog. In their sale which will be held in Smith Center on the above date they will sell 63 head, which is the largest offering that will be made in northern Kansas this season. They will sell 10 tried sows that will not be equaled in any sale this winter. A number of them are by Old King of Kant Be Beat, to best sire of brood sows ever owned in that section of the state. One sow will be by W. L. A's Choice Goods. All of these sows are right in their prime and considered immune as they went through the cholera last season. Almost all of them have gilts in the sale, some of them as high as seven, which will be pretty good proof of their value. The 53 spring gilts that complete the offering are well grown and the Rineharts are proud of the way they have been handled and conditioned. When we were there recently

Farmers Mail and Breeze Pays Advertisers.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—My trade in Duroc-Jerseys during the last 60 days has been the best in my 18 years' experience as a breeder. My ad in Farmers Mail and Breeze sold 50 head in three weeks and I had to return several hundred dollars because I could not spare more hogs. I could have sold 100 more. Yours truly, CHAS. DORR, Breeder of Duroc-Jerseys, Osage City, Kan., Jan. 21, 1913.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—Your paper is a sure winner, to advertise in. C. F. FAY, Real Estate Dealer, Haigler, Neb.

Every week for years Farmers Mail and Breeze has printed voluntary letters from its advertisers and different letters are printed every week.

they had the range of the farm and were being looked after very carefully. Most of the spring gilts are bred to R. & S. Crimson Wonder, a young boar bred by H. S. Allen, of Russell, Iowa, and sold in this fall to J. T. Higgins. They bought him this fall of Mr. Higgins and are very proud of him. Right is a promising young fellow and bred right. The other boar to which possibly half of these gilts are bred and some of the tried sows, is Model Hero. This boar is as well bred as it is possible to get them and along lines that are just now very popular. He was sired by old Golden Model and is a half brother to Golden Model 2nd, that sired the sensation prize winners at the Iowa state fair this season. Model Hero is a good sire and sired this winter you will be proud of them next summer. Arrange to attend this sale if you can. It will prove one of the best offerings of the season. Ask for the catalog tonight. They are ready to mail.

Percheron Sale at Lincoln.

The Nuckolls County Horse Breeders' association will sell 32 Percheron stallions and mares at state fair grounds, Lincoln, Neb., February 20. The offering will include 11 stallions, 13 mares and eight weanlings. These horses were all bred in Nuckolls county. They are raised under ideal conditions and have developed into large draft animals, ranging in weight from 1,600 pound yearlings to 2,300 pound developed animals. All mares of breeding age have been bred and are supposed to be safe in foal. Most of the mares will have young things in the sale to prove their worth as producers. Col. F. M. Woods, the noted auctioneer of Nebraska, will do the selling. Catalogs are ready and will be sent on application to Percy Baird, secretary, Ruskin, Neb.

Percherons and Shorthorns.

C. W. Lamer's big Percheron horse sale will be held in his sale pavilion, Salina, Kan., Thursday, March 13. This is the day before C. G. Cochran & Sons of Plainville, Kan., will sell Shorthorn cattle in the same pavilion. Mr. Lamer's sale will consist of 50 Percherons, imported and home grown. 20 will be imported and home grown stallions two to five years old. 24 will be imported and home grown mares bred to the best stallions in the country and now in foal. There will also be six registered colts and one jack. On March 12th, the day before his big sale of registered Percherons he will sell in the same pavilion 100 head of brood mares, work horses and mules. This will make an event of three days' duration that should be of considerable interest to farmers and breeders. On the 13th of March, 100 brood mares, work horses and mules, on March 13, 50 imported and home grown Percherons, on March 14, C. G. Cochran & Sons sell a draft of 70 registered Shorthorn cattle from their big western herd of over 500 head. All of these sales in C. W. Lamer's big, commodious sale pavilion which is located not over three blocks from all the depots in Salina. Plan to attend all of these sales. Ask for catalogs and further information any time.

This Offering Will Please.

Geo. W. Schwab, Clay Center, Nebr., who makes a bred sow sale at that place, Wednesday, Feb. 19, is one of the really well known constructive Duroc-Jersey breeders of that state. He has been actively engaged in the business for a long time and has kept abreast of the times by buying the best of breeding animals from the best herds in the East. If you will drop him a line tonight for his catalog and look it over you will be convinced of this. His sale on Wednesday, Feb. 19, is his regular annual bred sow sale. In this sale he will put the tops of his fall and spring gilts with some tried sows that he stands back of personally, guaranteeing them. Geo. W. Schwab has sold Duroc-Jerseys all over Kansas and Nebraska and a good many other states during the past year and we have never heard of a dissatisfied customer. This week we visited E. M. Myers' herd at Burr Oak, Kan., and found him using a young boar that he bought of Mr. Schwab that was sired by Buddy K 4th Wide Awake, that is a very promising young herd boar. You can't miss it by attending this sale if you are looking for something to build up your herd with. Go or send bids to the representative of this paper who will handle them carefully and with good judgment.

Carter Makes Good Average.

Leon Carter's draft sale of 42 Duroc-Jersey bred sows, sold in his regular annual sale at Asherville, Kan., last Thursday, made an average of \$48.14. The prices received ranged very even. The top was \$100 paid by Rinehart & Son, of Smith Center, Kan., for Number 1, which was a very choice two-year-old sow sired by Riverbend Col., and bred to Deamland Col. W. E. Monasmith of Formoso, Kan., was the heaviest buyer, buying around the top and securing four head. The day was very stormy and a number that had intended to come did not show up. The offering was one of unusual merit and well received. Below is a partial list of the buyers:

- 1—Rinehart & Son, Smith Center, Kan. \$100.00
- 2—W. T. Fitch, Minneapolis, Kan. 65.00
- 3—Solon Steers, Asherville, Kan. 50.00
- 4—Frank Kadel, Scottsville, Kan. 49.50
- 5—Pete Parrot, Beloit, Kan. 47.00
- 6—W. E. Monasmith, Formoso, Kan. 69.00
- 8—Grant Hutton, Beloit, Kan. 50.00
- 10—Andrew Peterson, Asherville, Kan. 40.00
- 11—Clarence McKee, Asherville, Kan. 42.50
- 12—N. B. Price, Mankato, Kan. 62.50
- 13—John Evans, Asherville, Kan. 66.00
- 14—John McNamara, Asherville, Kan. 46.00
- 15—John McNamara, Asherville, Kan. 50.00
- 17—J. M. Gaddis, Barnard, Kan. 47.00
- 30—S. Bartleson, Beloit, Kan. 50.00
- 31—D. O. Bancroft, Osborne, Kan. 37.50
- 38—Ed. Greehan, Beloit, Kan. 37.50
- 40—J. W. Moulten, Asherville, Kan. 39.00
- 42—J. W. Overman, Asherville, Kan. 39.00
- 45—Floyd Segrist, Simpson, Kan. 46.00

Philippi's Bred Sow Sale.

Geo. Philippi's Duroc-Jersey bred sow sale at Esbon, Kan., last Saturday came off as advertised and although it was a cold, stormy day there was a good, appreciative crowd of farmers and breeders out. The top was \$60 paid by Geo. Ward, Jr., for Number 20, which was a very fine fall yearling, bred to Red Ruler. The average was \$37.50 and was not enough as the offering compared favorably with the other sales of the week which were higher. Weather conditions were responsible for its not being as good. Geo. Philippi has demonstrated his

ability to grow out and condition a draft of sows that would be a credit to any breeder. His offering while not large in point of numbers, was one of the best of the season. Below is a partial list of the buyers:

- 1—John Emich, Formoso, Kan. \$41.00
- 2—A. M. Stump, Esbon, Kan. 56.50
- 3—John Emich, Formoso, Kan. 58.00
- 4—Fred Thomas, Esbon, Kan. 35.00
- 5—E. Kennedy, Esbon, Kan. 46.00
- 6—Mr. Mays, Esbon, Kan. 36.00
- 7—W. S. Gibson, Esbon, Kan. 38.00
- 9—John Calloway, Lebanon, Kan. 53.00
- 10—H. D. Fogo, Esbon, Kan. 39.00
- 13—D. E. Kennedy, Esbon, Kan. 40.00
- 14—J. E. Kembler, Esbon, Kan. 37.50
- 15—J. H. Frolich, Esbon, Kan. 38.00
- 17—W. C. Whitney, Agra, Kan. 40.00
- 18—J. M. May, Esbon, Kan. 32.50
- 19—Rinehart & Son, Smith Center, Kan. 49.00
- 20—Geo. Ward, Jr., Esbon, Kan. 40.00

Walker's Best Offering.

This is the last call for Thos. F. Walker & Sons' sale of big type, big litter Poland China bred sows at Smith's sale pavilion, Fairbury, Nebr. 50 head go in this sale and full particulars were given in their half page advertisement which appeared in the last issue of this paper. It is one of the strongest offerings we have ever

Center. Both sales can be conveniently attended. Look up his advertisement in this issue and plan to attend. Bids can be sent to J. W. Johnson in his care if you can't come.

Shaw Offers Good Sows.

This is the last call for H. H. Shaw's sale of Duroc-Jersey bred sows at Hebron, Nebr., Tuesday, Feb. 11. The sale will be held in town and under cover. It is a draft sale from his good herd with some attractions that should make wide awake breeders "study their lesson" sale day. There will be two tried sows in this sale by Lincoln Wonder, by Ohio Chief, and whose dam was Morrison's Peach, by Crimson Wonder and out of Miss Bob, one of the greatest brood sows ever owned in Nebraska. These two sows go in this sale to help make it one of the attractions. There is another great sow in this sale that was sired by Expansion. She is immune and one of the top sows sold in Kansas last winter. The fall and spring gilts are bred along the right lines to make them real attractions. They are well grown and go in this sale fed and conditioned the same as those that Mr. Shaw is keeping for his own use. Mr. Shaw is not looking for any outstanding prices for his bred sows and as he is one of the younger men in the business he has every right to feel very

Mr. Robinson sells all his breeding stock makes purchasers as nearly absolutely safe as possible and breeders from a distance took advantage of his liberal offer, a good per cent of the offering going out on mail bids. The top was \$82.50, paid by P. J. O'Donnell of Clyde, Mo., for a 2-year-old daughter of Big Pete bred to Spotted King. W. M. Golding of Maryville secured Miss Corwin 2d, the dam of Pawnee Pete, at the bargain price of \$72.50. Prince Tom and Pete's Best, the two herd boars sold, went to W. M. Golding and W. W. Pollock of Mexico, Mo., at \$70 and \$60. Col. R. P. Hosmer conducted the sale in good shape. Below is a representative list of sales:

- Lot
- A—Prince Tom, W. M. Golding.....\$70.00
- B—Pete's Best, W. W. Pollock.....60.00
- 1—Miss Corwin 2d, W. M. Golding.....72.50
- 2—Ed Adkins, Elmo, Mo.....55.00
- 3—Jas. Murry, Maryville.....45.00
- 4—R. T. Lamar, Elmo, Mo.....51.00
- 5—G. A. Trumbull, Bedford, Ia.....13.00
- 7—D. O. Grady, Maryville.....42.50
- 10—Jno. Lawson, Clarinda, Ia.....41.00
- 13—C. M. Hall, Hardy, Neb.....52.00
- 14—Chester Atterbury, Madison, Mo.....67.00
- 15—Jess Dougherty, Bedford, Ia.....52.00
- 16—Geo. Wedd & Son, Spring Hill, Kan.....60.00
- 20—Princess Allie, P. J. O'Donnell.....82.50
- 37—Lester Crum, Anthony, Kan.....42.00
- 38—O. J. Wilhite, Maryville, Mo.....50.00
- 41—G. W. Adcock, Davenport, Neb.....49.00
- 42—Homer Faulkner, Jamesport, Mo.....60.00
- 44—B. W. Thatcher, Smithville, Mo.....60.00
- 45—Verg Beene, Wellman, Ia.....51.00

Wray, Stanley, Hunt Average \$45.65.

Mindful of the good offerings of Poland Chinas made in the past by B. T. Wray of Hopkins; A. O. Stanley of Sheridan and V. O. Hunt of Ravenwood, Mo., the combination sale held by these breeders at Sheridan, Mo., on Thursday, January 30, brought out a good crowd of breeders and farmers and the entire offering of 45 head sold for the very satisfactory average of \$45.65. Attracted by the reputation of these consignors for good breeding stock and the strong line of herd boars, Sterling Prince, Chief Price's Wonder, Panorama, Bell Prince and Dude's Jumbo, the buyers showed a keen interest and a desire to own the good sows and gilts sired by and bred to these boars. It was an excellent offering and there wasn't an animal bought but what was laid in at a price that will make the buyer money. Geo. Wedd & Son of Spring Hill, Kan., topped the sale at \$102.50 for Columbia, a 2-year-old daughter of Big Bone Mow and bred to Panorama. Aside from this figure the price range was unusually even for so good an average. Col. H. S. Duncan conducted the sale. The following list shows how they sold.

- 1—Geo. Wedd & Son.....\$ 47.50
- 2—A. O. Stanley.....67.50
- 3—Geo. Wedd & Son.....102.50
- 6—C. H. Dukes, Sheridan, Mo.....50.00
- 7—F. H. Black, Hopkins, Mo.....45.00
- 10—J. Effington, Clearfield, Ia.....65.00
- 11—H. O. Linhart, Lohman, Mo.....82.50
- 12—Ed West, Hopkins, Mo.....60.00
- 13—Fred Wray, Hopkins, Mo.....53.00
- 14—J. H. Harvey, Maryville, Mo.....69.00
- 15—A. B. Duncan, Shannon City, Ia. 47.50
- 20—Jas. Effingham.....75.00
- 21—C. C. Dawson, New Market, Ia.....63.00
- 23—J. H. Harvey.....63.00
- 26—A. O. Stanley.....51.00

Walter's Polands—An Important Sale.

One of the most valuable lots of big type Poland China bred sows to be sold this year is the offering of 50 head which H. B. Walter will sell at Effingham, Kan., on Friday, February 14. Practically all of the 50 head to sell have been in training for two years. They have been carefully handled, rationally fed and intelligently mated which insures buyers the best along that line. Just such individuals as would naturally result from such methods are to be found in this offering and those who attend this sale may rest assured of appraising the best of individuals, carrying the best of big type blood lines and bred to boars of the same high standard of merit. H. B. Walter and his herd of Poland Chinas are dependable. He has builded his herd and his business along conservative lines, has had his type in mind and has stuck to it through all the fads and fancies and breeders and farmers have come to learn that they can depend upon this man and his herd. One of the most important features of this sale and one that should appeal strongly to all breeders alike at this time is that this offering is free from cholera. They have not had the cholera but have been immunized by the double treatment and put to the hardest of tests. Not an animal was bred until she had safely passed that rigorous test and breeders can buy in this sale and take the animals home with a feeling of safety. Mr. Walter has shipped his immune hogs to cholera herds and has yet to learn of the first loss. This is an important factor in buying bred sows

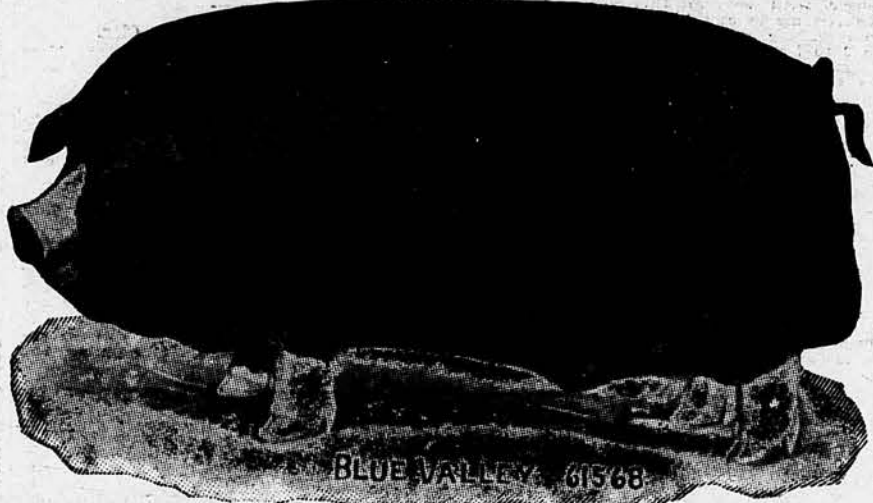
Kansas, Missouri and Iowa.

BY C. H. WALKER.

Any of our readers who are interested in either jacks or Percheron horses will be interested in the advertisement of G. M. Scott of Rea, Mo. Mr. Scott represents the fourth generation in the line of breeding operations in the Scott family. Mr. Scott is past 50 years old himself and his father, grandfather and great grandfather were interested in the business of breeding jacks before him. These operations have extended over 70 years and they have never had a case of litigation. The Golden Rule is as represented. If any do not live up to this representation if returned to him in good condition he will replace with another jack of equal value. He wants men to come to his barns who are looking for big, well bred jacks—the kind that will make good in any neighborhood. Mr. Scott says as far as his knowledge goes he breeds more mares at his barns than are bred at any other barns in the West. He attributes this business to the kind of stock he keeps. If interested in either jacks or Percheron horses write Mr. Scott for particulars and prices.

Good Sale for Robinson.

On Wednesday, January 29, at Maryville, Mo., 49 head of Robinson's Mammoth Poland Chinas sold for an average of \$42.90. The advertising of the sale had brought the heaviest inquiry and from a wider range of territory than at any of Mr. Robinson's previous sales and goes to show the extent of the territory in which this herd is known. Local conditions, however, militated against heavy buying and for this reason the price range was not as high as the offering merited. The guarantee with which



seen and will be presented in the best of breeding condition. This firm has made the big averages for the past two years on their regular fall and winter sales. In the J. O. James sale at Braddyville, Iowa, this fall they bought a young boar, sired by Big Orange, to breed a good number of these young sows to. He and his brother were the two highest priced boars sold last season. Blue Valley is the sire of a majority of the spring gilts and is without question one of the greatest individuals in the west. He will be shown next season at the leading show. The offering of 50 bred sows which is a draft sale from their great herd at Alexandria, Nebr., is one of the best of the season. They have sold successfully to Kansas breeders for a number of years and it is safe to say that half of their offering on this occasion will come to Kansas again. This, the Walkers are always pleased to consider as a very generous indorsement of their type methods. Once a customer, always a customer, is a motto they like and they will go a little farther some times to make good this motto than they should be expected to do. Come to Fairbury and register at the Onyx hotel as their guest and spend a pleasant time with the Walkers. Remember it is next Saturday, Feb. 15.

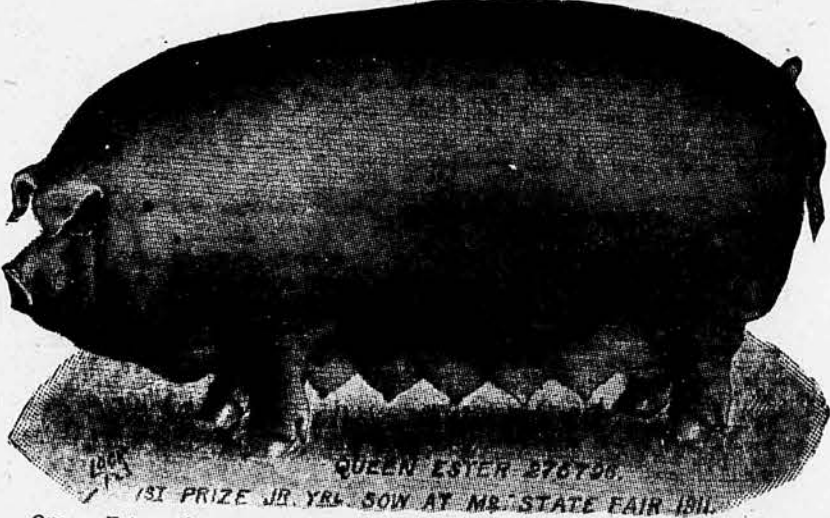
Good Offering Well Received.

W. E. Monasmith's Duroc-Jersey bred sow sale at his farm two miles north of Formoso, Kan., last Wednesday was well attended by breeders and farmers. The offering was presented in good form and received with full appreciation by the farmers and breeders who had assembled to buy it. This was Mr. Monasmith's regular annual sale. The prices received were very even. The top was \$90 paid by N. B. Price for No. 6 1/2. She was a very fine fall yearling, sired by Mankato Col., and bred to Kansas Special. Mrs. Monasmith, assisted by her sister, Miss Mary Robin, of Mankato, served an elegant dinner which was greatly appreciated. The day was an ideal one and farmers and breeders came from all over the county in automobiles. Below is a partial list of the buyers:

- 1—O. E. Monasmith, Formoso, Kan. \$72.00
- 6—John Emich, Formoso, Kan. 69.00
- 6 1/2—N. B. Price, Mankato, Kan. 90.00
- 6—C. A. Rickard, Belleville, Kan. 50.00
- 9—C. C. Thomas, Webber, Kan. 31.00
- 15—Leon Carter, Asherville, Kan. 42.00
- 16—W. C. Whitney, Agra, Kan. 32.00
- 17—George Phillips, Formoso, Kan. 43.00
- 18—John McMullan, Formoso, Kan. 50.00
- 20—Riley Smith, Jewell City, Kan. 38.00
- 22—Ray Johnson, Mankato, Kan. 58.00
- 26—D. O. Bancroft, Osborne, Kan. 64.00
- 27—Everett Platt, Montrose, Kan. 62.00
- 33—Dean Appleby, Formoso, Kan. 33.50

Thirty-Five Choice Sows.

E. M. Myers, Burr Oak, Kan., is selling Duroc-Jersey bred sows, Wednesday, Feb. 13. He is only offering 35 head but they are all good. 20 are well grown spring gilts, 12 are big strong fall gilts and three are tried sows, one of them by Golden Ruler, another by Wonder Bob. Four of the spring gilts are by Col. C and out of a Prince Wonder 2nd dam and the balance are by Jewell's Col. All of the fall and spring gilts are bred to Buddy's Best, a young boar that Mr. Myers bought last fall from Geo. W. Schwab. He was sired by Buddy K 4th Wide Awake, and is a good individual. The tried sows are bred to Jewell's Col. The dam of Buddy's Best was a Red Wonder sow. Everet Myers is one of the oldest and best known breeders of Duroc-Jerseys in northern Kansas and has made good in the business. He is careful and painstaking and I never heard a complaint about anything he ever sold. He is always ready to do more than the square thing where mistakes occur and is deservedly popular with other breeders. This is his regular annual sale and is the day before Rinehart & Son sell at Smith



Queen Ester, the great Duroc sow owned by Chas. L. Taylor, Olean, Mo. This sow was first in class at Sedalia, 1911-12. She is a sample of the high class Durocs bred by Mr. Taylor and offered to our readers at reasonable prices. These sows are Royal last year.

and those in the market should consider it. Another strong feature of the offering is the 15 head by Expansive which will sell. These are 2-year-old daughters of this famous sow sire and are among the best of his output. They present an excellent array of top individuals and it will be the last chance to secure in numbers the get of this boar. Other attractions include Wonder Queen 2d, a fine big stretchy, mel-low yearling by A Wonder bred to Long King's Best; Guy's Best by Guy's Price 2d, King's Best, a very valuable sow and herd; Surprise B, a very valuable sow and a great producer; Ohava Lady by Colossus, one of the best individual sows to be sold this winter, and others by Prince Hadley, Mammoth Hadley, Major Blain, Big Victor, Sampson Chief, Big Logan Ex. and other noted sires. The offering is bred to Long King's Best, a great son of the noted Long King; Referendum, the Nebraska sire of Guy's Price—Jensen's Mogul—Chief of King; Referendum, the Nebraska sire of Guy's Price and Expansive Chief by Expansive and out of Guy's Best. It is the best lot of sows and the most valuable Mr. Walter has sold from his herd and that statement means a lot. The sale will be held in heated sale pavilion which Mr. Walter has just completed and every comfort of visiting breeders will be looked after. Note the advertisement and write for his catalog. Mail bids may be sent to C. H. Walker, representing this paper, in Mr. Walter's care. In his catalog Mr. Walter states—"To those who buy on mail bids I guarantee satisfaction." Kindly mention this paper when writing.

The Davis Hampshire Sale.

One of the big sale events of the winter season will be the sale of Hampshire bred sows and boars to be held by the veteran breeder, W. F. Davis, at South St. Joseph, Mo., stock yards on Tuesday, February 18. In this sale Mr. Davis has listed 190 head, 140 bred sows and 40 boars. These have been specially selected from his herd of close to 1,000 head and especially for this sale. Mr. Davis has held the most successful sales of recent years and Hampshire breeders and farmers realize that his sales are the place to make selections in breeding stock—when they want the very best. Neither effort or expense has been spared in selecting the sires to head this great herd and the champions of many shows are represented in this offering. A great many of the sows are daughters and granddaughters of the great Pat Maloy 1415, the world's champion Hampshire boar and individually are the kind one would expect from such breeding. They are bred to boars of equal merit and buyers will have an opportunity to make selections from a big variety of the best blood lines and from the largest number ever driven through a sale ring in the West. It is an exceptional opportunity and one that no breeder or farmer who is in the market should overlook. A half hour's talk with Mr. Davis would convince the most skeptical that the Hampshire hog is the one and only porker for the breeder or farmer. He can sight you proofs in the way of load after load of market hogs shipped from his farm that have dressed out as high as 87 per cent. He that as it may, he has the right kind—judging from his previous sales there are a whole lot of breeders of the same opinion—and this sale to be held the 18th contains the very best he has to offer. Get the catalog, which is now ready for mailing and kindly mention this paper when making inquiry.—C. H. W.

Kansas and Missouri

BY ED. R. DORSEY.

Roy Johnston of South Mound, Kan., has changed his Poland Chinas and a little, to read that he has a few sows, both open and bred, for sale at a reasonable price. Mr. Johnston is one of the most reliable breeders and always handles the very best. He will hold his annual spring brood sow sale April 3.

W. Z. Baker of Rich Hill, Mo., breeder of Poland China hogs, will sell 35 bred sows of his favorite breed Friday, February 21, at Rich Hill, Mo. Mr. Baker not only showed and won a number of premiums at the American Royal and Missouri State Fairs last fall but he had the honor of breeding many of them. That was his first exhibit but it was so encouraging that he will fit up a few more for the campaign this fall than he had out last season and the same breeding will be sold in this sale that he won with last year. Rich Hill is on the Missouri Pacific railroad, north of Nevada. In fact it is on both the Missouri Pacific and Frisco railroads. Easy to reach. Sale is held in two blocks of both depots.

Safe Place to Buy Horses.

W. H. Bayless-Dero & Co., of the Blue Valley Farm of Blue Mound, Kansas, both importers and exporters of Belgian, Percheron stallions, and mares are doing a splendid business on both sides of the waters. This firm was consolidated in 1912 and hereafter will do business on both continents. Since there are no more reliable people doing business it assures the purchasers of a square and honest transaction in every purchase. They are in a position to sell stock of the best quality at the lowest possible price and they are doing it. It is as impossible to get a draft horse too big and stout as it is to breed a trotter that goes too fast. Those men have a stable of ton horses and they even have a number of two-year-olds that weigh a ton. We have heard them price some of these high weights, if sold by the pound less than we see where individuals through the country are selling their little home bred horses for. W. H. Bayless-Dero & Co., always keep on hand a good selection and as soon as they get down to twenty or twenty-five they at once send over more horses. Mr. Dero is one of Belgium's largest breeders as well as a big buyer.

The Star Breeding Farm.

Samuel Drybread of Elk City, Kan., owner of the Star Breeding Farm, breeder of Hereford cattle and Duroc swine, will hold his annual brood sow sale March 10, at which time he will sell 50 bred sows. Most of these sows will be bred to Model Top 77405, a hog with a national reputation, that has sired as many state fair and royal winners as any hog of his age in the Central West. With the exception of possibly a dozen sows, this will be the first opportunity the breeders of Kansas and Oklahoma will have to get a sow bred to Model Top and it may be the last opportunity as he is offered the price of at least five good hogs for him



THREE GOOD HEADS.

Big Mammoth Black Jacks.

Al E. Smith of Lawrence, Kan., has a fine lot of Jacks like the two shown above that he will price worth every cent he asks. He has a number of 2-year-olds 15 1/2 to 16 hands standard measure that will mature at 1200 lbs. 3-year-olds weighing 1100 lbs., 4, 5 and 6-year-olds over 16 hands and weighing over 1200 lbs. He has over 40 head of big, black, mammoth fellows to choose from. No one is able to show as large a bunch with the bone, breeding, style and finish found in these. A

number of these are good enough to head any jennet herd. He took all prizes on Jacks and Jennets, of all ages, at Kansas State Fair. He sold 13 Jacks in Missouri last year. The Jennets are very large, some of them 16 hands. The Jacks are bred to breed the large, high class male. It would pay any one wanting a good one to see these before buying. This Jack farm is two miles west of Lawrence and he will gladly meet buyers at trains any time. Make an appointment with Mr. Smith and see these Jacks. It will pay you. Mention this paper when writing.

now, and the proposition is left open for him to accept any time between now and the middle of April. Mr. Drybread has three sows in this sale, two yearlings and an aged sow that are granddaughters of Kant Be Beat. They are showing to be in pig and are likely to top this sale. He is selling 12 aged sows, 15 fall yearlings, and 20 early spring gilts. Most of the fall yearlings and early spring gilts are sired by the grand old champion and double champion of many states, B. & C's Col. It is possible that no other farm east or west is better known than the Star Breeding Farm. His catalog for this sale is now out and if you are interested in either this sale or his Hereford cattle drop him a line and he will gladly mail you not only the catalog but any information that you may desire. Mr. Drybread is what we call a good mixer, congenial and a gentleman in every respect. His word is his bond and it is taken by everyone who does business with him. One of his sons is gaining a reputation very fast as an auctioneer and it will not be long until Col. George will have a reputation that will extend as far as his father's in the livestock business.

Long King Bred Sows.

J. W. Pfander & Sons, under date of January 24th, write of their coming brood sow sale as follows: "The offering of forty fine head to go in our February 26th sale is, we believe, as valuable a bunch as we ever drove into a sale ring. No. 1 is one of the grand sows by Long King who has been in our herd all her life. We are not selling her because she is old and worn out but because we always have made No. 1 as valuable a sow as is in any man's herd and this time is no exception. She is a daughter of Long King and we sold her litter sister last spring for \$275 and kept this sow in the herd. She won't weigh 900 lbs., but she will weigh 700 lbs. in fair breeding condition. She is bred to Big Ben the 700 lb. yearling at the head of our herd who is fast making a reputation for himself and this litter will contain herd boar prospects and sale toppers. No. 2 is the largest fall yearling we have seen this fall and we have seen several. She will weigh 550 lbs., sale day and have a nine inch bone. She is a great, big, massive sow and is bred to the great boar A Wonder, owned by H. Fessenmeyer. We sold a sow bred to him for \$370 and we don't think she was a better proposition in any way than this sow. We are also selling eight great big fall sows that are the youngest daughters of Long King in existence. They are as good as we ever sold from the old hog and will average 500 lbs. All are bred to Big Ben, our grand young herd boar. The other fall sows are as good as we ever sell and you all know what that means. The gilts will weigh near 400 lbs. by sale day and are extra good. They are bred to King of Wonders, a February pig, that weighed 432 lbs. when just eleven months old. He is a son of A Wonder and the largest sow in the herd. You will hear from him strong next year. The herd all passed through the disease and practically everything in the sale is immune for life and bred to immune boars. Tell your friends to write for catalogues or just come to the sale for they will not be disappointed." Write for catalog.

Iowa and Nebraska

GEO. W. BERRY.

A sensational offering of big type Poland China bred sows will be made by R. W. Halford at Manning, Iowa, February 21. The 50 head cataloged for this sale consist of tried sows and gilts of superior size, excellent quality and wonderful evenness and trueness to type. A large per cent of them are bred to the superb boar Mabel's Wonder, a great show hog and a demonstrated sire of high merit, Mabel's Wonder combines great scale, smoothness and style and is pronounced by competent judges to be one of the very best big type boars in service. He has the distinction of having headed the boar classes at the Iowa State Fair in 1912, conceded the greatest hog

show in the world. He has done heavy service during the breeding season and held his splendid form notwithstanding. In arch and strength of his back, breadth and fullness of loins, spring of ribs, smoothness of sides, marvelous width and depth of hams and evidences of constitutional vigor and masculine qualities, the equal of Mabel's Wonder is seldom seen in a boar of his age of any breed. In addition to the large number of sows bred to Mabel's Wonder, a number of his daughters bred to Long Jumbo, a boar of wonderful size and smooth as plate glass, and others bred to Long Price, a son of the famous Chief Price Again, will be sold on this occasion. No better offering of big type Poland Chinas has ever been made, and anyone interested in this popular strain of hogs should write for the catalog, addressing R. W. Halford, Manning, Iowa.

Big Orange Bred Sow Sale.

Attention is directed to the sale of big type Poland Chinas which is announced elsewhere in this paper by L. R. McClarnon of Braddyville, Iowa, to be held on February 26. The sale on this occasion should be one of the important events during the sale season. Mr. McClarnon is one of the best known and most successful breeders of the popular big type of Poland Chinas in his state. He is the owner of one of the largest and most uniform herds of big type Poland Chinas the writer has had the privilege of seeing. It will be remembered that Mr. McClarnon and Mr. J. O. James of Braddyville paid a long price for the famous big type sire, Big Orange, a hog with very few if any equals, and said to be the sire of more prominent herd headers than any other Poland China boar in the North. The offering which Mr. McClarnon will make on February 26 comprises 50 head of excellent bred sows, including 30 yearlings and 20 gilts. The leading boars in service in the herd are Big Orange, mentioned above, and Colossal, a son of Colossus and Lady Ohava, a daughter of the celebrated Expansion. The writer visited the McClarnon herd recently and was greatly pleased, especially with the splendid line of yearling sows and gilts sired by Colossal. Any one of them is a duplicate of all the others. When you see one of them you can pick all the rest of the get of Colossal on account of their extraordinary scale, smooth lines, great arched backs, long deep smooth sides, good feet and pasterns, and exceptional fine style and finish. The offering is outlined in the advertisement and information in regard to the pedigrees and individuality is furnished in detail in the catalog which will interest all lovers of big type Poland Chinas. Write for the catalog, kindly mentioning this paper.

LIVESTOCK AUCTIONEERS.

T. E. GORDON, WATERVILLE, KANS.
Livestock and Real Estate Auctioneer.
WRITE FOR DATES.

JAS. W. SPARKS Live Stock Auctioneer
MARSHALL, MO.

COL. HOMER BOLES, Randolph, Kan.
Livestock and General Auctioneer.

G. G. DENNEY GUIDE ROCK, Nebr. Livestock Auctioneer. Pure bred stock sales and big farm sales. Write or phone.

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LARGEST IN WORLD

Special 4 weeks actual practice term, start at any time in January and finish in February. We now have a large class in attendance.

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14th and Grand Avenue - KANSAS CITY, MISSOURI

HAMPSHIRE.

Pure Bred Hampshires

Inspect our herd or write for prices. Our motto is to please. **ALVIN LONG, Lyons, Kansas.**

WRITE J. F. PRICE,
Medora, Kans.
For prices on Pedigreed
Hampshire Hogs

Try The White Belts

Special prices on boars; also bred sows and gilts for sale. Address **T. W. Lavdock, Princeton, Kas.**

Registered Hampshire Hogs
For pedigree Hampshire hogs, write **C. E. LOWRY, Oxford, Sumner Co., Kans.**

BERKSHIRES.

Hazlewood's Berkshires!

Choice spring boars and gilts priced to sell today. **W. O. Hazlewood, R. 3, Wichita, Kansas**

WAITE'S BERKSHIRES.

Choice young Boars and Gilts, also tried sows. Most famous Berkshire Blood. We guarantee satisfaction. Call or write **LEON A. WAITE, WIRFIELD, KAN.**

GOOD SOWS BRED

to champions and grand champions. I also have some splendid fall pigs that I will sell single or in pairs no kin.

C. G. NASH, Eskridge, Kan.

BERKSHIRES, SHORT-HORNS and JERSEYS

FOR SALE—25 boars by Robinhood Premier 2nd or Rival's Lord Premier, and out of sows representing such sires as Imported Baron Compton, Berryton Duke and Premier Longfellow. Also a choice Shorthorn bull calf by Silk Goods and out of a show cow.

W. J. GRIST, :: OZAWKIE, KANSAS

LIVESTOCK AUCTIONEERS.

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GLASCO, KANSAS. Phone for Dates.

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Up-to-date methods in the Auction business. Purchased stock sales and big sales generally. Write for dates.

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600 Kan. Ave., Topeka
and farm sales solicited. 15 years experience.

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DATES CLAIMED ARE PROTECTED.

N. S. HOYT, Mankato, Kan.
Livestock Auctioneer. Big Horses and other Stock Sales a specialty. Terms reasonable. Special service to breeders.

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Beloit, Kansas.
Write or phone for dates. I am located right to give good service.

Col. J. R. LOYD, ATHOL, KANSAS.
LIVESTOCK AUCTIONEER.
Write for terms and dates, and reference.

Col. N. B. PRICE, Mankato, Kans.
LIVESTOCK AUCTIONEER.
Phone or write for dates. Bonney K. heads my Duroc-Jersey herd

G. A. DRYBREAD Elk City, Kans.
Live stock and farm sales made anywhere. Give me a trial. Satisfaction guaranteed.

SALE BILLS Printed on heavy paper 11x17 inches in 2 colors. Sent post paid \$2 per 100; 200 for \$3. Send 2c stamp for sample and particulars. **C. S. DEMAREE,** Printer, Dept. C, 619 Walnut, Kansas City, Mo.

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LIVE STOCK AUCTIONEER
Wide acquaintance and practical knowledge of draft horses and pure bred live stock, all breeds.

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BUNCETON, MISSOURI

DUROC-JERSEYS.

BEAVER VALLEY HERD DUROCS.
Boars and gilts sired by Grand Master Col. II 94903 (Grand Champion and sire of winners at Oklahoma State Fair, 1911), Defender's Col. 112297, Autocrat 94765 and Muncie Col. 113779. Satisfaction guaranteed. **W. A. WILLIAMS, MARLOW, OKLAHOMA.**

A Fine Offering Bred Sows and Gilts
Also open gilts and summer pigs. Best of breeding. **R. C. WATSON, ALTOONA, KANSAS.**

A Fine Offering Bred Sows and Gilts
Also open gilts and summer pigs. Best of breeding. **R. C. WATSON, ALTOONA, KANSAS.**

BIG TYPE DUROCS Herd rich in blood of Col. Wonder, Buddy and Monarch families. 45 head tried sows and gilts in our bred sow sale, February 5. Stock for sale. Send for catalogue. **MOSER & FITZWATER, GOFF, KANSAS.**

DORR'S DUROCS
25 Fall boars and 20 gilts. Crimson Wonder breeding. All immune. Special low price. **A. G. DORR, OSGAGE CITY, KANS.**

Pleasant View Durocs. Bred sows at private sale. Spring gilts, fall yearlings and tried sows. All immune. Write for prices. **T. P. TEAGARDEN, WAYNE, KS.**

BRED GILTS of Duroc gilts bred to my prize winning boars for sale. Also a few top summer boars. Write for prices and description. **CHAS. L. TAYLOR, OLEAN, MO.**

ROYAL SCION FARM DUROCS
Fashionably Bred Durocs, spring boars and bred gilts, by the great Graduate Col. Also sows and gilts bred to him. **G. C. Norman Prop., Winfield, Kan.**

Perfection Stock Farm
Nov. boars and gilts, also 80 choice spring pigs, by State Fair grand and reserve champions. Pairs and trios not related. Ship on approval. Prices right. Write your wants. **Geo. M. Glasen, Union City, Okla.**

15 Duroc Sows and Gilts
Kant Be Beat, Crimson Wonder, and Colonel breeding, and bred to a splendid boar sired by King the Col. Priced reasonable and guaranteed as represented. **ARTHUR A. PATTERSON, Ellsworth, Kan.**

Bonnie View Farm
Duroc-Jerseys: Boars and gilts. Plymouth Rocks: 100 cockerels. **Searle & Cottle, Berryton, Ks.**

Deep Creek Herd Durocs
Extra choice early fall pigs now ready to ship from dams sired by State Fair Champion boars. Satisfaction guaranteed. **C. O. ANDERSON, MANHATTAN, KANSAS**

BIG TYPE DUROC-JERSEYS
Spring males at \$25; summer pigs \$10, trios \$25; fall boars, good ones at \$30 to \$40; yearling sows, open or bred. Every hog shipped on approval. Satisfied customers in 22 states. Red Polled cattle, cheap. **GEO. W. SCHWAB, CLAY CENTER, NEB.**

TATARRAX HERD DUROCS
The finest lot of Fall pigs we ever offered, either sex. Most of them by the Grand Champion Tatarax. Bred sows and gilts priced for quick sale. **HAMMOND & BUSKIRK, Newton, Kansas**

College Hill Durocs
Bred sows and gilts for spring farrow for sale. Popular breeding. Farm adjoins agricultural college. Prices right. **W. W. BALES & SONS, MANHATTAN, KAN.**

FALL BOARS BY DREXEL'S PRIDE
The sire of my show hogs. Spring pigs by him and Queen's Wonder 112317, a sensational Crimson Wonder Again yearling. All choice and priced right. **W. T. HUTCHISON, CLEVELAND, MO.**

Leon Carter, Asherville, Kan.
Duroc-Jerseys. Oldest herd in Mitchell county. Plenty of new breeding in my bred sow sale Thursday, Jan. 30. 45 head. Write for catalog.

Bancroft's Durocs
We hold no public sales. Nothing but the best offered as breeding stock. Tried sows and fall yearlings bred. Spring gilts bred or open. Fall pigs, either sex. Pairs or trios not akin. Prices right. Customers in 6 states satisfied. Describe what you want. We have it. **D. O. BANCROFT, OSBORNE, KANSAS.**

Good E Nuff Again King 35203
The great Duroc boar of the West and Crimson Wonder 4th, 43655 head our great herd. Sale of 35 bred sows and gilts March 11. Send for catalog. Reduced price on boars for 30 days. **W. W. OTEY & SONS, WINFIELD, KAN.** "The Men With the Guarantee."

Duroc Bred Sows
At private sale, bred to King the Col., a 1,000 lb. boar, Col. Willotta by Prince of Cols. and Col. Gold, a line bred Col. The big kind with lots of quality; bred for March and April litters. **C. W. HUFF, MONDAMIN, IOWA.**

MULE FOOT HOGS.
More premiums won in 1912 than any herd in the U. S. Bred sows, some extra spring farrow boars and pigs in pairs not related. Pedigrees furnished. **ZENE G. HADLEY, R. F. D. 5, WILMINGTON, OHIO.**

Iowa and Illinois.

BY H. W. GRAHAM.

On Thursday, February 27th, Wm. T. Trotter of Mt. Air, Iowa, will hold his second annual jack sale. The offering consists of 15 big Mammoth jacks and 15 choice jennets all bred and safe in foal to the two great herd jacks, Jumbo and Keno. This offering contains size, quality and lots of style. Mr. Trotter has been in the business of breeding jacks practically all his life. He started in the business while a resident of Missouri and started with the right kind of blood; his herd jack, Keno, is a fine specimen of the Missouri and Kentucky breeding. He was sired by General King, he by Gen. Woods. The dam of Keno was by Brigham Young, a most celebrated jack in his day. Keno has a reputation throughout the country for producing remarkable colts. Six or seven of his sons are included. Mention this paper and write for particulars.

Constructive Jack Breeding.

See the advertisement of the Oakland Stock Farm. This farm was started some 12 years ago by Scott J. Miller of Chillicothe, Mo., on the theory that better jacks could be raised in Missouri than any place in the Union; that climatic effects were right; that the feed was right; and that the jack should be right. He has succeeded beyond his expectations. With a breeding farm of 40 jennets, with one of the best jacks in the United States at the head of the herd, 15 to 20 jacks a year are produced on this farm. He prefers to sell them to the farmer and deal direct and give the consumer the benefit of the middleman's commission. In all the time he has been in the breeding business he has never had a dissatisfied customer and never has had a customer who said that his jack was not as represented. With the best blood obtainable, both on the sire and dam's side he has produced some of the best jacks in Missouri. He holds no sales, preferring to deal direct at less prices and cut out the expense of the sale ring; giving the purchaser the benefit. You can go to Oakland Stock Farm and feel welcome if you stay a week. The aim of this farm is to please the customer and make him a friend and advertising agent of the farm. Mr. Miller is perfectly responsible and gives a liberal guarantee. He has now on hand some 20 head, among them are as good as grow; and sells them reasonable. Write him and he will send you a photograph of the jack, from your letter, he thinks will suit you. He has no jack on the farm 4 years old and over, but has a good many big husky 3-year-old jacks, with their lives before them that will go out and make money for any man who wants to produce the big Missouri mule.

Editorial News Notes

On page 15 appears the seed corn ad of H. O. Tudor, proprietor of Bill Brook Seed Company, Holton, Kan. It is of the Boone County White variety. Mr. Tudor had 250 acres in corn in 1912 and it yielded over 60 bushels per acre. The seed is guaranteed. Order direct from the ad. This corn is from the Bill Brook farm of 1,300 acres. It is one of the finest farms in Kansas and the Central West.

C. C. Lindamood, Walton, Kan., the well known breeder of Barred Plymouth Rocks, writes stating he is about sold out of cockerels and that the egg season is at hand. There is no question about the high quality of Mr. Lindamood's Barred Rocks as they have again demonstrated at this season's shows. Note his change of ad in this issue. You will get what you buy so don't be afraid to send your money. Please mention this paper.

Unusual Seed Corn.

C. Ray Moore ("the man who does things with corn") is a corn grower of Keokuk, Iowa, who, after years of education and experience in scientific corn breeding work, has developed strains of corn which give a vastly increased yield over even the best purebred varieties, under similar conditions of soil and climate. This unusual work has given Mr. Moore a national reputation as a corn specialist, and he now devotes his entire time to growing corn for seed. On his big Sunkist Farms in Iowa he has built the most modern drying houses in which he dries every ear on a specially constructed seed rack, assuring practically perfect germination, as each ear is hand selected in early fall and dried before freezing weather. In his new booklet, "The Moore Corn Book for 1913," he describes how he developed his famous high yielding strains. You will find his announcement on another page of this issue. Read how you may obtain a copy of this interesting booklet free. See ad on page 11.

Low Price Plus High Quality in Artificial Hatching Makes the Successful Incubators and Brooders.

Never before since incubators and brooders are so universally in use has so much quality of material, so much carefulness in the construction been offered at such low prices in incubators and brooders as is now being done by the Des Moines Incubator Co., 346 Second St., Des Moines, Iowa. This firm is now entering their nineteenth year of business and is enjoying a greater demand for their incubators, brooders and supplies than ever before. This is no doubt due to their everlasting ambition to retain the good will of their customers by giving more than value received for their money, their very reasonable prices and their wonderfully successful hatching and artificial mothers. It would prove a good investment for you to send for their 128 page beautifully illustrated catalog which is full of incubators, brooders and chicken facts. This great book is sent free if you mention name of this paper.

Trees That Grow.

The old reliable Wichita Nursery again announces that their system of selling direct to the planter has proven a big success. M. W. F. Schell, proprietor of this nursery, started the plan of selling direct to the planter some 20 years ago, thereby saving to the grower 40 per cent by cutting out all agents' commissions and today the Wichita Nursery is one of the leading nurseries doing business direct with the fruit grower and by careful attention to even the smallest order has succeeded in building up a business that any nursery manager could well be

MULE-FOOTED HOGS.
The coming hogs of America; hardy; resistant disease; the best rustlers known; pigs ten to sixteen weeks old. \$30 pair. Circular free. **DR. W. J. CONNER, Labette, Kan.**

O. I. C. SWINE.

CHESTER WHITE HOGS
Good quality, either sex, the short nose kind. Write for prices. **FRANK PROCHASKA, Glasco, Kans.**

STAR HERD O. I. C's.
Breeding stock of various ages, either sex. Best breeding material sent in this herd. Write your wants. **ANDREW KOSAR, GLASCO, KANSAS.**

JULY GILTS AT \$20 or will hold and breed at \$25. Pigs 8 weeks old at \$10, express prepaid. Breeding certificate with every pig. **F. C. Gookin, Russell, Kan.**

O. I. C. 125 HEAD HOGS Bred Sows and Service Boars **W. H. Lynch, Reading, Kansas.**

Kent's Iowa Herd 200 good lengthy heavy boned bred sows for sale from my great State Fair prize winning herd bred for March and April farrow. It will pay you to write me today for prices and the way I will ship these hogs before paying for them. **Thos. F. Kent, Walnut, Ia.**

Neef's Cholera Proof O. I. C's.
Boars of all ages from 8 weeks to yearlings. Also prize sows bred and gilts bred or open. Can furnish pairs or trios, no kin. Herd headed by O. K. Perfection, by O. K. Winner, and Neef's Oak, by White Oak. All stock priced worth the money. **Riverside Farms, JOHN H. NEEF, Prop. Booneville, Mo.**

POLAND CHINAS.

40 Sows and Gilts Bred and open for sale of the higher order of Poland Chinas. **ROY JOHNSTON, Southmound, Kansas.**

Dean's Mastodon Polands
Poland China hogs, the big-boned type, will weigh when mature, 800 to 1,000 lbs. Will sell a few boars of serviceable age, also choice brood sows and gilts, bred to my herd boars, for spring farrow. All **Immunized by Double Treatment** Herd headed by Mastodon Price, Columbia Wonder and Gritter's Longfellow 3d. Everything guaranteed and sold worth the money. Address **CLARENCE DEAN, WESTON, MISSOURI**

Summer and Fall Pigs!
of both sexes. Priced to sell. Everything registered. Best of breeding. **F. C. GARRETT & SON, Bloomington, Neb.**

Big Boned Bred Sows
March and February gilts sired by Gold Mine, bred to Pan Look and Wide Awake; also, tried sows bred to Gold Mine. **Dietrich & Spaulding, Richmond, Kansas.**

BROOD SOWS For Sale

Ten tried brood sows, ten fall gilts and ten early spring gilts all safe in pig to Forrest Wonder and Long King. Big Poland Chinas at reasonable price. Will not hold a winter brood sow sale. These are priced to sell. Our herd boars are Designer, Good Medal and Major Look. **C. S. NEVIUS, CHILES, KANSAS.**

Mammoth Poland Chinas

My herd boars weigh from 800 to 1,000 lbs. Am now ready to ship 200 of the big, easy feeding, quick maturing kind. Tried boars and sows, last fall boars and sows, and spring pigs of both sexes. My terms are: If you are not satisfied return the hog, and I return your money. **F. P. ROBINSON, MARYVILLE, MISSOURI**



A few fall males by Defender. Bred sows at reasonable prices. **PHIL DAWSON, SO. ST. JOE, MO.**

Poland China Pigs

of Sept. farrow, \$18 each, 2 for \$35. Heavy boned, growthy and well grown out. Sired by Expansion Too 59484 and their dams by Blain's Last Hadley, Pawnee Price, Big Smoke and Cowles's Tecumseh, representing the herds of Blain, Williams Bros. and Long-acre. Were given a heavy dose of serum Nov. 26th. First check gets first choice. **F. S. COWLES, R. R. No. 2, Lawrence, Kan.**

MEADOW BROOK BERKSHIRES AT BURLINGTON, KANS.

200 bred sows, all bred to Premier Longfellow, King's 2d Masterpiece, True Type King's 4th Masterpiece, King's X Masterpiece (the greatest yearling we ever raised); Forrest Count, etc. One hundred open sows and twenty extra nice males. Two extra good herd boars for sale (every one deep in breeding and rich in blood). **E. D. KING, BURLINGTON, KANSAS.**

POLAND CHINAS.
LARGE WITH PLENTY OF QUALITY. Handsome young boars, gilts bred or open. Best of large type blood lines. Some boars, herd headers. Satisfaction guaranteed on all breeding stock. **OLIVIER & SONS, DANVILLE, KANSAS.**

NEBRASKA TYPE. A fine lot of summer and fall pigs by Hyden's Big Hadley 2nd, Pan Wonder and Neb. Chief. Bargains in the best. **C. C. Ingram, Bloomington, Neb.**

POLAND CHINAS Select young boars. Gilts, bred or open. Prices right. Call for catalogue. **Address H. L. BROOKS, LARNED, KANSAS**

QUALITY and SIZE Big, Smooth Polands, pigs for sale. **LAMBERT BROS., SMITH CENTER, KANSAS.**

HARTMAN'S BIG-TYPE. POLANDS Spring boars and gilts. Gilts bred or open. No fall sale. **J. J. HARTMAN, ELMO, KANSAS.**

PUBLIC SALE of 40 high-class Poland China Sows to be held at Rich Hill, Mo., February 21st by **W. Z. BAKER. Send for Catalog.**

Big Polands and Barred Rocks. Herd boar present. Tried sows and gilts. Big bone, big litter, big quality. Low prices. Fine big cockerels, \$1.00 to \$2.00. **W. C. MILLIGAN, Clay Center, Kansas.**

Becker's Poland Chinas
Good spring boars. Fall yearling gilts, bred for early spring litters. Some nice spring gilts bred or open. Special prices on summer and fall pigs, either sex. **J. H. BECKER, NEWTON, KANSAS**

BIG TYPE POLANDS
Summer and fall pigs both sex, strong in the blood of Big Hadley and A Wonder. Sows and gilts, the big, smooth kind, bred for early litters. Descriptions guaranteed. Call or write **A. R. ENOS, Ramona, Kan.**

Schneider's Poland Chinas
Can furnish choice summer and fall pigs, pairs or trios, not akin, by Guy's Expansion and Goldbird Hadley. Also 10 head of yearling sows bred to these boars. **JOE SCHNEIDER, Nortonville, Kansas.**

Polands—Barred Rocks
Summer and fall pigs by Referendum and J. C. Metal and out of choice sows. Priced to sell. Also 50 Barred Rock Cockerels. **A. N. Waechter & Son, Riverton, Neb.**

FOR SALE King of Darkness, by King Darkness, dam by On the Spot, a fine medium sized, well boned, immune boar. Will trade for immune bred sow. Answer soon. **BON-UMBRA STOCK FARM, Belpre, Kan.**

Big Type Poland China BRED SOW SALE JAN. 25.
45 head. Every one a good one. 35 head bred to the 1,000-pound Columbus. Send today for catalog. **R. B. BAIRD, CENTRAL CITY, NEB.**

Fall and Summer Pigs For Sale
Sired by my Iowa boar. Extra good and out of my mature sows. Everything immune. Also Rhode Island Red cockerels for sale. **L. E. KLEIN, ZEANDALE, KANSAS.**

HARRY HOAK'S POLAND CHINAS
A few large, Big Type boars, also some good sows and gilts bred for early litters. Fashionable Big Type breeding and priced right to buy. Call or write today. **HARRY HOAK, Atica, Kansas**

ALBRIGHT'S BRED SOWS AND GILTS
20 gilts bred to one of the good sows of Big Tom and Sensation; 8 tried sows bred to Cavett's Mastiff by King Mastiff. One extra good sow bred Oct. 16th. **A. L. ALBRIGHT, WATERVILLE, KAN.**

POLAND CHINAS!
Bred sows at private sale. Also fall and spring boars. Sows bred to Tom Lipton, Wolcomer, Iron Clad 2d and others. Priced right. Ask for prices and descriptions. **JOSEPH M. BAIER, ELMO, KANSAS.**

ABERDEEN-ANGUS.
Angus Bulls For Sale
sired by Rutgers Heatherson 3d 118104, Presto 2d 133774 and Defender Kurz 135693. Ready for service including two choice Blackbirds. Priced right. Satisfaction guaranteed. **W. G. DENTON, DENTON, KANSAS.**

ANGUS CATTLE
Bulls and females for sale; singly or in carload lots. Address **SUTTON & PORTEOUS Lawrence, Kan.**

RED POLLED CATTLE.
Foster's Red Polls
Write for prices on breeding stock. **C. E. FOSTER, R. R. 4, Eldorado, Kansas.**

RED POLLED BULLS
and heifers by Actor 7781 and Launfal 13221. Cows large plenty quality, represent best milking families. Also large type **POLAND CHINAS.** Pigs. Write or come. **CHAS. MORRISON & SON, Phillipsburg, Kan.**

MEADOW BROOK BERKSHIRES AT BURLINGTON, KANS.
200 bred sows, all bred to Premier Longfellow, King's 2d Masterpiece, True Type King's 4th Masterpiece, King's X Masterpiece (the greatest yearling we ever raised); Forrest Count, etc. One hundred open sows and twenty extra nice males. Two extra good herd boars for sale (every one deep in breeding and rich in blood). **E. D. KING, BURLINGTON, KANSAS.**

DAIRY CATTLE.

HOLSTEINS FOR SALE—80 head of registered heifers and males, also 73 head of fine bred heifers and young cows, \$58.50 and up. Come and see them. M. P. KNUDSEN, CONCORDIA, KANSAS.

BANKS' FARM JERSEYS

Quality with milk and butter records. One of the best sons of CHAMPION FLYING FOX, imported, at head of herd. Stock for sale. W. N. BANKS, Independence, Kan.

LINSCOTT JERSEYS

Only registered herd of merit in Kansas. A grand son of Golden Fern's Lad—bred for butter—and 20 cows and heifers for sale at moderate prices. R. J. LINSCOTT, HOLTON, KANSAS

OAK HILL HOLSTEINS

Bulls ready for spring service by Shadybrook Gerben Sir Korndyke out of A. R. O. dams. Heifers bred. Also a few fresh cows. All tuberculin tested. BEN SCHNEIDER, NORTONVILLE, KAN.

HOLSTEINS —CHOICE BULL CALVES

H. B. COWLES, TOPEKA, KANSAS.

Holsteins!

I will sell the following high grade Holsteins, many of them practically full bloods, and in good condition: 50 yearling heifers and 50 1½-year-old heifers just being bred to a son of a 24 lb. dam; 100 2 to 2½-year-old heifers and 100 2½ to 3-year-old heifers bred to a high class registered bull, to freshen from Dec. 1st, 1912, to March 1st, 1913. 100 matured cows, very heavy producers, springing up ready to freshen soon, most of them in calf from registered bulls. A number of high colored registered bulls, ranging in age from 6 months up, out of heavy producing dams, and selected especially to head choice herds. Can fill any order from one animal up. Have a small surplus of excellent registered cows and heifers I will dispose of. Also have 100 head of high grade Guernsey cows and heifers from yearlings up. Write me regarding your wants. JAMES DORSEY, Gilberts, Illinois

SHORTHORNS.

SHORTHORN CATTLE

POLAND CHINA SWINE and CLEVELAND BAY HORSES. All stock pedigreed. Prices reasonable. Thos. B. Murphy & Sons, Corbin, Kas.

Shorthorns, Bulls and Heifers.

Young bulls 2 to 20 months old, also a few well bred heifers, some of my State Fair winners at Topeka and Hutchinson last year. They are the kind you will like. Write or call soon. JOHN REGIER, WHITEWATER, KANSAS.

SHORTHORNS

5 bulls from 12 to 18 months. Roans and reds. Scotch Topp. Address, L. M. NOFFSINGER, OSBORNE, KAN.

SCOTCH AND SCOTCH TOPS

Young Bulls, Scotch and Scotch Topped. Also a few choice Cows and Heifers. Also 25 registered Poland China Fall Pigs of both sexes. Immune. Write for prices. S. B. AMCOATS, CLAY CENTER, KANSAS

Pearl Herd of Shorthorns

I have a select bunch of young bulls from six to 20 months old, well bred, well grown and the making of good useful animals. They are both reds and roans. Can ship via C. R. I. & P., A. T. & S. F., U. P., and Mo. Pac. Address

C. W. TAYLOR
ABILENE : : KANSAS

HEREFORDS.

BLUE GRASS Herefords

STOCK FARM Cows, Heifers and young bulls for sale. 160 head in herd. Breeding matrons by Miltant, Lamplighter, Shadeland, Dean 23d, Gentry Briton 6th, Hesiod 2d and Wilton Almo 6th. Visitors Welcome. W. T. WRIGHT, Route 8, Mt. Pleasant, Iowa.

Klaus Bros.' Herefords!

We offer 16 head of strong, rugged bulls, hard headed material, ready for service, sired by Full-Ether 3rd, Fullfiller 25th and Beau Onward. Priced right and worth the money. KLAUS BROS., BENDENA, KANSAS.

Mathews Herefords

We are offering 20 registered heifers about 11 months old. ANXIETY 4th blood predominates. FRED MATHEWS & SONS, Kinsley, Kan.

Star Breeding Farm

HEREFORDS Headed by Tophon 4th. 90 Bulls, 14 to 30 mos. Single or carloads. Can spare a few females in lots to suit buyer.

DUROCS Of most fashionable breeding headed by Model Top 77405. Choice individuals of both sexes for sale at all times.

Sam'l Drybread, Elk City, Kansas

Modern Herefords

ROBT. H. HAZLETT
Hazford Place
Eldorado, Kansas

proud of. The writer has never seen a more thrifty or well rooted lot of trees. Owing to fortunate local rains their growing stock sustained no setback by drouth. Their trees are grown in Cowley county, Kansas, are free from insect disease and are fully inspected. Every order has a certificate of inspection. This nursery makes a habit of filling orders with trees that are always over size and unusually well packed, and finds that while on the single order their profit is less, yet it brings more business and greater profits in the long run to both nursery and planter. The writer is personally acquainted with Mr. Schell and his methods of conducting the business of the Wichita Nursery. Their motto is, "We make satisfied customers." You can be one. If you are thinking of trees don't wait but write today for their free Fruit Book. Mention this paper when writing.

Petty Bros.' Seed Corn.

The line in their advertising—"Petty Bros. Growers of Seed Corn That Makes Good"—sums up in a nutshell just what seekers after the very best purebred seed may expect in buying from this well known firm. They are growers of seed corn, not merely dealers. It is their specialty—growing seed corn and it has been this careful breeding and personal handling of their seeds that has built for them a reputation second to none. Last year Petty Bros. had more orders than they could fill and if they had cared to substitute other corn they could have made a cleaning, but that is not in their line of business and when they sold their output they were through. This season they have on hand many more hundreds of bushels than last year and it is by far the best corn they have ever grown. They have a selected lot of Reid's Yellow Dent, Eclipse 90 Day Corn, Clay and Boone County White all sorted and nubbed by hand. They don't claim they have 100 per cent corn, but they do claim they have better than 96 and they have a reputation for high yield. Their purebred seed corn farms in Clay county are famous and farmers in Clay look a bit if they fail to get in touch with Petty Bros. Their catalog is ready and will be sent upon request. They have established a branch at 1515 Genessee street, Kansas City, Mo., and invite inspection of their wares. A trip to Liberty, where they have their seed houses is a special invitation and is worth the trip. Kindly mention this paper when making inquiry. See ad on page 15.

Cornish Planos and Organs.

One disadvantage which the music-lover of today often feels is the high price of instruments, especially of pianos and organs. The music-lover who longs for a piano or organ, and hesitates to pay the exorbitant prices of the average dealer, has a distinct friend in the famous Cornish Company of Washington, N. J. In fact, it is doubtful if a more liberal offer has ever been made by a national advertiser than by the Cornish Company. They make the most liberal terms, allow the longest free trial, and give a legal bond which compels them to return the purchaser's money in case of dissatisfaction. Suppose you write a letter to the Cornish Company, Washington, N. J., saying that you read this little story in "The Mail and Breeze" and asking for their new Cornish Book of pianos and organs. They will send it free to you, showing you many beautiful and artistic styles from which to choose. Then order a piano on your own terms—one year's credit, or two if needed—and very shortly the Cornish Company will ship you the piano you select, together with a solid wood, circular-seated adjustable piano stool with brass claws and crystal foundation, a handsome silk scarf, and a piano instruction book and course of music lessons. If within one year you decide to return it, the instrument, the Cornish Company will refund to you any money that you have paid them, together with 6 per cent interest. Furthermore, every instrument sent out by this company is guaranteed for 25 years and the price asked is actually a third less than other makers ask for pianos and organs of similar quality. Whether you buy an instrument or not, you should have the Cornish book because it tells many things that you ought to know about music and musical goods. It also explains the Cornish way of doing business, and a reference book, which is also sent, gives the names and addresses of many satisfied customers. Be sure to mention "Farmers Mail and Breeze" when you write your letter to The Cornish Company, Washington, N. J. We urge every music-lover to write for the free book today. Send ad on page 20. Mention this paper when you write.

Music in the "Silent House."

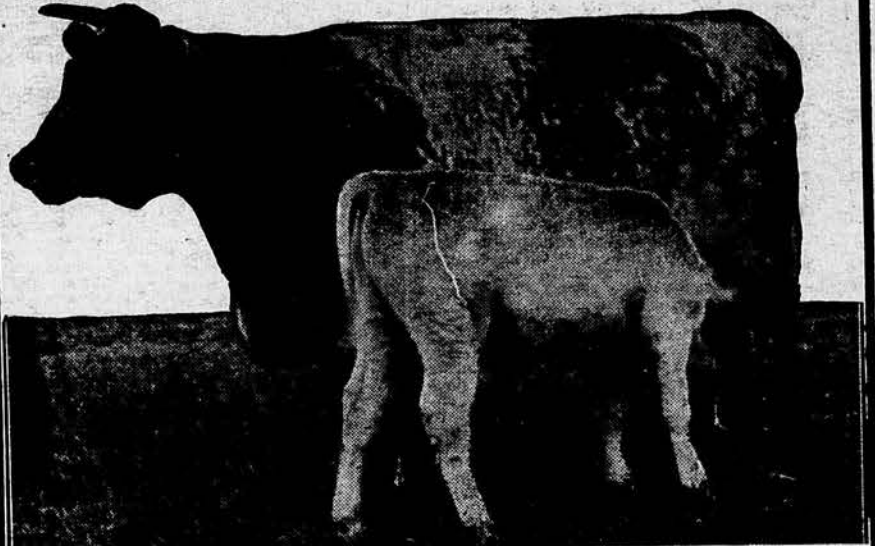
Nathaniel Hawthorne, in his famous book, "The House of the Seven Gables," pays a splendid tribute to the power of music. He describes with grim suggestiveness the dreary Silent House, and then tells of its transformation by the gift of Phoebe, who possessed with the gift of song so changed the whole atmosphere of the house that all its gloom was dispelled, and it became filled with light and happiness. Few homes, even in the most isolated rural districts, ever become as cheerful as the Silent House of Hawthorne's tale. Yet his story suggests the idea that in many homes there is far too little cheer and happiness, where the days pass one after another with none of the brightness that music brings. In many homes everyone is so rushed with work, or so nearly tired out, that no time is possible for practice in music or for training the children's voices. The casual snatches of tunes picked up by accident are all the music that enliven such homes; and the lack of good music and singing is certainly a great loss to both children and old folks. But there is no longer any need for this lack. It is possible now, with the Victor and his music, to have full measure of song and music. With no time required for learning to play, anyone can have any kind of music at any time. From Mother Goose to Grand Opera, from whistling solos to the elaborate music of a great orchestra or band, from the simplest home lullabies to the mighty outbursts of a great chorus, from the latest lively ragtime hits to the stately Gregorian chants—there is no limit to the music ready for any home. It would seem that one special mission of this great instrument was to put the liveliness and cheer of good music into every "silent house." For the old folks it will sing the tender melodies of olden time. For the children it will play the patriotic march music which they delight in. For the young folks it will bring the latest popular songs and even music for

Lookabaugh's Shorthorns

Sold on Time at Private Treaty

Six or nine months if desired. What we want is your trial order. We don't need the money. We want you to come and buy. We want regular customers and shall try hard to please you.

Young Heifers and Bulls at \$50, \$75 and \$100 each. Two Heifers and a Bull, not related, \$200 for the three. Herd Header Material is Scarce. We have a few. They are priced right. Come early and get first choice.



Over 200 Head From Which to Select

A great variety of prize winners and prize winning blood. Breeding stock of both sexes and all ages. If you want breeding stock don't miss this opportunity. As many good Shorthorns cannot be seen on any other farm in the whole Southwest.

Cows with Calf at Foot and Re-bred. Richly Bred Young Things, Show Prospects. Handsome Young Bulls, Herd Header Material. Rugged Young Bulls, the Farmer and Stockman Kind.

In fact a splendid array of foundation Shorthorns, that carry the blood of the best families and the most noted sires of the breed. Don't wait, but come and get your first pick. Visitors always welcome at Pleasant Valley Stock Farm. Write your wants today. Address

H. C. Lookabaugh, Watonga, Okla.

Herd Established Over 25 Years Evergreen Crest Galloways

Twenty cows and heifers for sale, either registered or high grades. All two years old and over are bred to Flagstaff 29295 and Sally's Othello 33696. Anyone desiring a herd of breeding cows should inspect this offering. Also two yearling bulls for sale. J. & W. E. CLELLAND, NEW HAMPTON, MISSOURI.

POLLED DURHAMS.

Polled Durham Bulls

Six well bred young bulls and a limited number of cows and heifers for sale. C. M. HOWARD, HAMMOND, KANSAS.

Prize Winning Polled Durhams

One yearling bull and several bull calves sired by Roan Choice (Jr. Champion of 1911), also a few young cows and heifers. All from the greatest show and prize winning herd in Kansas or the West. C. J. WOODS, CHILES, KANSAS.

GALLOWAYS.

G. E. CLARK. W. W. DUNHAM. CAPITAL VIEW GALLOWAYS. 12 Miles West of Topeka.

Can furnish car of good bulls ranging in ages from calves to 2-yr-olds. Can suit your wants. Write CAPITAL VIEW RANCH, Silver Lake, Kan.

Fort Larned Herd

40 REGISTERED BULLS. 20 GALLOWAYS and 20 RED POLLS. 10 to 20 months old. Priced to sell. E. E. FRIZELL, LARNED, KANSAS

JACKS AND JENNETS.

JACKS AND JENNETS

20 head good black jacks for sale, ages from 2 to 5 years; large, heavy-boned, broken to mares and prompt servers. Prices reasonable. Come and see me. Barns 2 miles of town. PHIL WALKER, Moline, Elk Co., Kan.

JACKS AT PRIVATE SALE

If you want the good kind, come to one of the oldest breeding barns in the state, where you will find the large, big boned, black fellows that will do your country good, at prices you can afford. G. M. SCOTT, Bea, Mo.

JACKS AND JENNETS.

JACKS FOR SALE

Two big boned black jacks with mealy points, coming three and five years old. They are fine performers, good dispositions; both are over 16 hands, "big fellows." Good reasons for selling. Write or come. A. B. HAGUE, Kiowa, Kan.

Oakland Stock Farm

The jacks on this farm are all raised there. This is strictly a breeding farm, and not an assembling place of other people's breeding. Five went out last week, with 25 more still there. We sell the good ones cheaper than anybody, because we raise them. Every jack is guaranteed a breeder. If he is not a breeder he isn't worth thirty cents, and the man who raises him should lose him and not the buyer. Will sell them from \$400.00 up; cash or time. OAKLAND STOCK FARM, Chillicothe, Mo.

POLK COUNTY JACK FARM

Has a nice lot of black Jacks, coming three and four years, 14-2 to 16 hands high, good bone and body. Will be sold cheap. Address

R. M. JOHNSON, Owner, BOLIVAR, MO.

Second Annual Sale

JACKS and JENNETS

At My Barns in Town

Mt. Ayr, Iowa, Thurs., Feb. 27

30 Head 15 Mammoth Bred Jacks, 15 Choice Jennets all bred.

The 15 Jacks are broke and ready for service, ranging in ages from 3 to 8 years. I am including my herd Jacks, Jumbo and Keno, two better do not exist. The most of these are my own raising and range in size from 14 to 16½ hands high. All blacks with white points with lots of quality, style and finish.

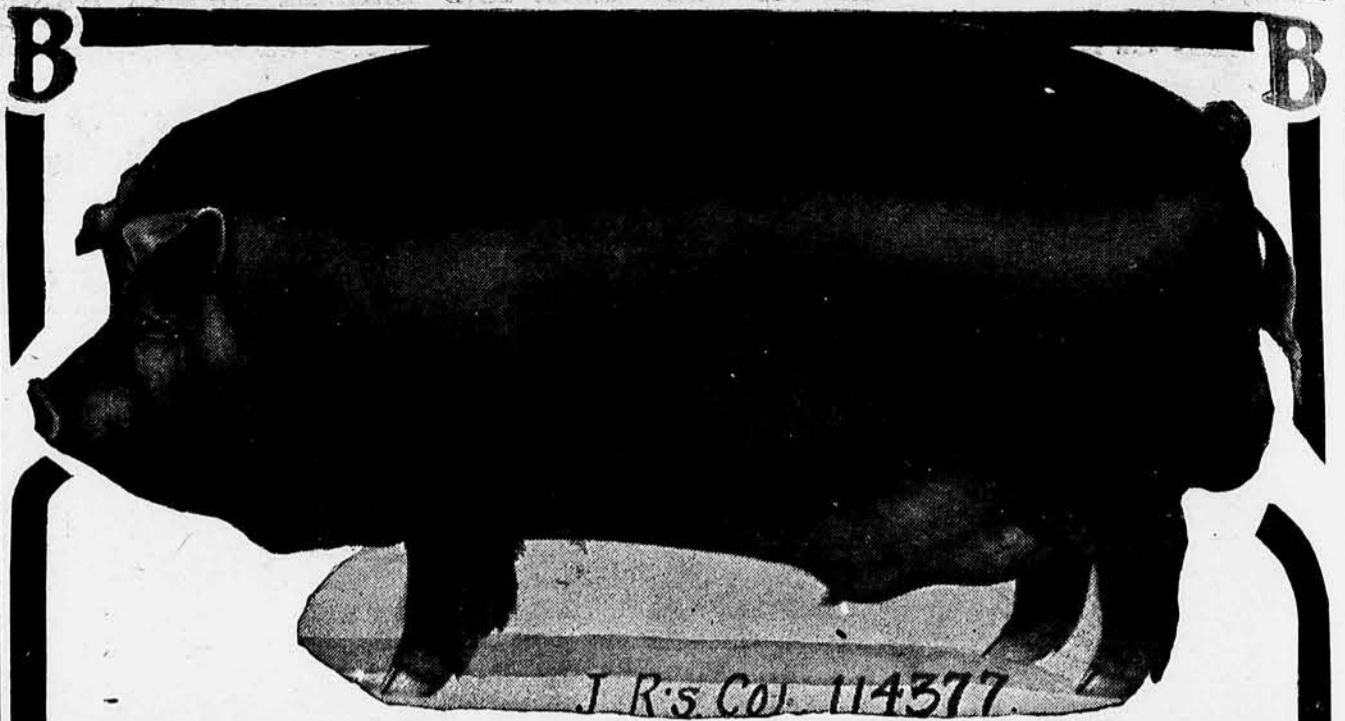
The 15 Jennets are all big choice types, two to eight years old. Better quality will not be offered this year. Showing safe in foot to Jumbo and Keno. For further particulars, address

WM. T. TROTTER, Mt. Ayr, Iowa
Auctioneer—COL. HARRIMAN and others.

dancing. To each and every member of the family it will give the chance to enjoy at will his or her own special favorites. The Victor will banish the gloom and cheerlessness of the present day rural "silent houses" just as quickly and positively as the songs of Phoebe drove out the sordidness of Hawthorne's Silent House. To all whose lives seem mostly weariness and gloom, the Victor comes as a blessing, furnishing rest and cheer and inspiration, giving to them a rosier view of life. It is easy to get acquainted with the Victor and its delightful music for any Victor dealer will gladly play any music you wish to hear. On your next visit to town just stop in at the Victor dealers—you'll spend a pleasant half hour and come away with a thorough appreciation of this superb instrument. In the meantime it would be a good plan to write to the Victor Talking Machine Co., Camden, N. J., for their handsome illustrated catalogs, as they will give you an idea of the kind and variety of music this instrument brings to you.

A Word on Fuel-Saving.

For a family who is anxious about that constant bugbear, "living cost," a saving in fuel is a big item, and everybody is always eager for any help in this direction. There are two important factors in the question of fuel-cost—the stove itself, and the kind of fuel which it burns. Perhaps it is both of these reasons that make the popularity of the Kalamazoo Oak Heater. Not only is the stove built for economy in quantity of fuel, but it makes saving in the quality and kind. It is built to burn and to burn anything—from soft coal to corn cobs. Of course this is no news to thousands of people in America who have known for years just what the Kalamazoo Oak Heater would do. But the growing increase in expenses of all kinds, and the general rise in the price of hard coal, makes this stove more and more valuable to more and more people the country over. Any possible objections to burning soft coal or wood are to a great extent overcome in this stove. It is so scientifically made that the combustion is slow and thorough. No waste of coal, no rushing blasts of wind to draw the heat up the chimney and burn fast with no heat-returns. On the contrary, the Kalamazoo Oak Heater gives slow, steady, even fire—checked just right to keep heat a long time and fuel-cost down. After you get a good fire started (and it is easy to light and to keep it going) you can so adjust the dampers that the wood or soft coal will give out a gentle radiation and hold heat a long time without attention. Not only the high price but the difficulty in obtaining hard coal, at any cost, is beginning to be a serious question. Many a home has had to suffer actual hardship because the hard coal demanded by a base burner was not to be had for love or money. No home should be without an "Oak" Heater if only for this reason. Think of the danger, the inconvenience, of being left without coal at a critical time. Many doctor bills could have been saved by one small heater, which, in a hurry or when coal was short, could burn chips, trash, anything handy. It is often a matter of great convenience as well as economy to be able to turn into account that stack of corn cobs or that pile of brush. And the Kalamazoo Oak Heater is built to give just that fine emergency service. And the stove looks so fine! It is built on handsome lines, with shining nickel plate, and of shape and size just right for ornament as well as service. The Kalamazoo Stove Company of Kalamazoo, Mich., issues a catalog giving the varieties in style—some with glittering mica, some with tall extension top—your choice in appearance and details. But they all are of the same plan of general construction, and they all do the work. Of materials it is hardly necessary to speak. Kalamazoo quality is so well known that praise is something like telling that Tiffany diamonds are real. Their plan "A Kalamazoo Direct-to-You" is too well understood all over the country to require space here. Enough to say that their famous selling plan is one of the big reasons for the world-wide fame of the Kalamazoo stoves and furnaces. This method is one reason why, at small expense, the family who is warmed by a Kalamazoo is sure of the right kind of heat, and plenty of it, the year round, no matter how the wind blows. Write the Kalamazoo Stove Company, Kalamazoo, Mich., for their catalog No. 341 and further information concerning their line of stoves. See ad on page 46.



40 Head Duroc-Jersey Bred Sows

GOOD AS GROW
From **Blackshere Farm, Elmdale, Kansas, Saturday, Feb. 22**

12 spring yearlings, 17 fall yearlings and 21 spring gilts. Most of the offering is sired by J. R.'s Chief, best breeding Ohio Chief boar in the West, out of Lincoln Model, greatest producer of show stuff of any Duroc sow living. The offering is bred to Young Chief and Big Chief (litter brothers) and Model Bob (by J. R.'s Chief and out of Model A, first prize sow 1910), all first prize boars this year and Model Bob is an outstanding candidate for championship honors this fall.

Special Attractions:

Daughters and granddaughters of Top Notcher Rose, grand champion sow, 1909; half sisters to Rose Tarrax, grand champion sow, 1911; daughters of Top Notcher Girl, one of the few Top Notcher sows living, also a few daughters of King's Surprise, one of the best brood sows ever on my farm. There will be as much, or more, champion blood in this sale than can be found in any sale offering in the West. Every animal is in fine breeding condition, having run to the alfalfa stacks all winter with a liberal grain ration. All sows will show safe in pig. I invite my Brother Breeders and Farmer Friends to be my guests February 22nd. I believe in my hogs. Please write for catalogue.

J. R. BLACKSHERE, Elmdale, Kansas

Auctioneers—Cols. Lafe Burger and Crouch & Woods. Fieldman—A. B. Hunter.

A Living on An "Eighty"

TWO OPPOSING VIEWS.

Mr. Editor—I notice that F. L., of Wakeeney, Kan., wants information on how to manage an 80-acre farm. I would divide 45 acres of it into three fields of 15 acres each. I would rotate these fields each year with oats, clover and corn. After cutting the second crop of clover each fall the field could be plowed for corn for the following year. The rest of the land could be divided or all put into one pasture. I would take about 5 acres for buildings, orchard, and truck patches. If the land could all be cultivated it would be handy to have the pastures close home. Otherwise have it on the land impossible of cultivation. With the farm arranged this way one could keep three or four horses,

two or three cows, three or four brood sows and possibly a few sheep. This way the farm would be built up, at the same time getting good returns from it. Louisburg, Kan. F. C. Waldron.

A Farm Woman's Opinion.

Mr. Editor—We would like to have L. A. B. tell us how many there were in the family that lived on an 80-acre farm and laid up the income from the wheat crop. We live on a half section and cannot place a deposit in the bank that will stay there and there are seven in our family. We do not set the world afire but work like most other people with 100 acres in cultivation, 100 in meadow and the rest in pasture. The stock on pasture can be turned into money at any time. As soon as the corn is laid by the men run out the

hay baler and with good weather, a good crew and no breakdowns they make \$100 a week from then until frost with the exception of a few days when they cut corn. We consume all this income and do not live extra high either. In fact sometimes we must pull hard to make both ends meet. Now tell me how we could live on an eighty, much less lay by a bank account too. Our boys neither smoke, chew, drink or gamble. Mrs. Leona Smith.

Wouldn't be Home Without It

My papa has taken the Mail and Breeze a number of years and we can't get along without it in the home. I am a boy 15 and can't remember the time that we hadn't this paper. Samuel J. Slocum. Mondamin, Okla.

MY HOGS ARE FREE FROM CHOLERA



Besides offering you the best lot of big type Poland Chinas I have ever sold I am selling them immune from cholera. They have not had the cholera, but have been immunized by the double treatment—all vaccinated before being bred.

MR. FARMER! MR. BREEDER! MR. BUSINESS MAN!

What is it worth to your business to add breeding stock to your herd that is right in every respect and to do so at a minimum of risk? This is the greatest lot of sows I ever have offered and in order to make them doubly valuable to you I have put them to the most rigorous tests. That is your gain. My sale will be held at the farm near

Effingham, Kansas, Friday, Feb. 14, 1913

50 Head Will be sold—13 tried sows, 28 summer and fall yearlings, 5 spring gilts, 4 summer boars—herd headers. Fifteen of these are yearling daughters of the great sow sire, EXPANSIVE among the best ever sired by him and that means they are outstanding. The attractions include Guy's Best, the great Lonergan sow; Wonder Queen, a great daughter quality. These are bred for March and April farrow to LONG KING'S BEST, my great son of Long King; REFERENDUM, the great Nebraska sire and EXPANSIVE CHIEF, the old hog's greatest breeding son. This is certainly a fine lot of stuff and I will have to be "shown" if there is a better lot all the way through to sell this year. Not only have they the size, conformation, bone and quality, but they are breeders and producers and are bred to that kind of boars. I know they will please. Write now for the catalog, mentioning the paper, and arrange to attend this sale, partake of my hospitality and see this great offering. Address

A Wonder; Surprise B, one of my best; Susa M 2d, Hadley's Quality, Belle Hadley, Lady Primrose 2d and Ohava Lady all of extra size and quality. These are bred for March and April farrow to LONG KING'S BEST, my great son of Long King; REFERENDUM, the great Nebraska sire and EXPANSIVE CHIEF, the old hog's greatest breeding son. This is certainly a fine lot of stuff and I will have to be "shown" if there is a better lot all the way through to sell this year. Not only have they the size, conformation, bone and quality, but they are breeders and producers and are bred to that kind of boars. I know they will please. Write now for the catalog, mentioning the paper, and arrange to attend this sale, partake of my hospitality and see this great offering. Address

H. B. WALTER, 18 miles west of Atchison on M. P., **EFFINGHAM, KANSAS**
C. H. WALKER, Fieldman. FRANK J. ZAUN, Auctioneer.



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JACKS AND JENNETS.

Kingfisher Valley Stock Farm
50 registered big boned black jacks and jennets from colts to 16 hands; no better anywhere. Prices right.
J. H. SMITH, Route 3, Box 17, Kingfisher, Okla.

Jacks and Saddlers

45 of the biggest bone and best Mammoth Jacks in Kentucky. Saddle stallions, mares, colts and fillies. Write for catalog and visit the Cloverdale Farm. H. T. BROWN & CO., Lexington, Ky.

Jacks and Jennets

One of the largest selections of large Black Mammoth Jacks in the West, 15 to 16 hands standard. I have the large kind that all are looking for; the kind that bring the large high-class male. Reference: the five banks of Lawrence.
AL. E. SMITH, LAWRENCE, KANSAS.

Mammoth Jacks and Jennets For Sale

From 2 to 5 years—big boned, black Jacks with white points. No better bred ones in the country. Several of them are prize winners. Been breeding Jacks for 30 years. Mention this paper and write or come to DEIERLING & OTTO, Schuyler County, QUEEN CITY, MO. On Des Moines Line Wabash Railroad.

PUREBRED HORSES.

A BIG SALE

I will sell at public auction on February 25th, 1913, at my farm 14 miles N. W. of Holly, Colo. (on A. V. R. R.), 32 head of draft horses and mares that will weigh from 1,200 to 1,700, also one Belgian stallion and one Missouri jack, both registered.
A. L. FRYBERGER, Granada, Colo.

Percheron and Belgian Stallions and Mares. Easy terms. HART BROS., OSCEOLA, IOWA.

200 Percherons Stallions and Mares For Sale. Singmaster & Son, Keota, Iowa

The Best Imported Horses One thousand each. Home-bred registered draft stallions—\$250 to \$650 at my stable doors. A. LATIMER WILSON, CRESTON, IOWA.

Clydesdale Stallions and Mares I have a number of Clyde Stallions, many of them of my own raising, that I will sell at less than 1/2 of the regular importer's prices. R. O. MILLER, LUCAS, IOWA.

Grand Percheron Stallions I will sell my two stallions. Sporty and Frank, both by Castillon 27318 (46308). Sporty weighs 2,000 pounds and Frank 1,800 pounds. Both good breeders and both passed as sound, by State board. 5 years old. Will sell on account of my health. M. H. GERJETS, SOUTH HAVEN, KANSAS

Oldenburg German Coach Horses

We are the oldest and largest breeders of the Oldenburg German Coach west of the Mississippi River.—Our 1912 winnings at the leading western shows exceeded those of any other individual horse exhibitor. We have stallions and mares of serviceable ages for sale. Write us. JOS. WEAR & SON, BARNARD, KAN

PIONEER STOCK FARM We have on hands at all times Percheron, Belgian, Shire and German Coach stallions and mares from weanlings to 6 years old. Imported and home bred stallions and mares weighing up to a ton or better. They are priced to sell; am selling all the time. Can show you. Come and see. JOHN W. WADDILL & SON, (Adair County), BRASHEAR, MO.

50 - PERCHERON STALLIONS - 50

Bishop Brothers have 50 big boned stallions that weigh 1,700 to 2,100 pounds that they can and will sell for less money than any firm in the business. We have them to sell. Write us. BISHOP BROTHERS, Box A, TOWANDA KANSAS.

Percheron, Belgian, Shire and Coach Stallions and Mares

15 years in the horse business. Never had a law suit, have never sued a man for collection. Each sale is accompanied with a genuine good guarantee from Nolan. Our horses are from one to five years old. J. M. NOLAN, PAOLA, KANSAS

W. H. Bayless-Dero & Co.

Blue Mound, Kansas

Importers of Belgian and Percheron Stallions and Mares of all ages and Prize Winners in both Europe and America

We Have Fifty Head

The last importation arrived December 28, 1912

The fifty head is as good as can be found on either side of the water. We have a buying partner in Europe who has a large breeding farm and many of our best horses are bred on this farm. He also buys in the dull season, and buys everything young and sound. We can sell a better horse for less money than those not favored with this advantage, as we are the only ones who are connected with a breeder farm in Europe. Any one wanting either Stallion or Mare will find it to their advantage to visit our stables. We price them to sell, not to invoice. A good guarantee goes with every sale. Reference, any Bank in Linn County.

W. H. Bayless-Dero & Co., Blue Valley Stock Farm, Blue Mound, Linn Co., Kan. (Two Railroads, eight trains per day.)

PUREBRED HORSES.

FOR SALE One Registered Percheron Stallion, coming 5 years old and one black Jack, coming 5 years old. W. M. DICE, TECUMSEH, KANSAS.

Truman's Pioneer Stud Farm

America's Largest Importers

Shire, Percheron and Belgian Horses

Write for Illustrated Catalogue.

TRUMAN'S, Box E, BUSHNELL, ILLINOIS

STALLIONS and JACKS

Percherons and Belgians, also Mammoth Jacks and Jennets. State Fair winners and all at prices that will move them. Write today describing your wants.

C. F. COOPER

R. 4, Box 4, Hutchinson, Kan.

SPECIAL SALE Thirty Days

Registered American bred stallions \$200 to \$600 each. Ten imp. mares in foal \$400 to \$500 each. Imported stallions at from \$900 to \$1,200. One hour's ride from Union Stock Yds., Chicago, Ill. Address CHAS. A. FINCH, JOLIET, ILLINOIS.

PERCHERONS BELGIANS SHIRES

ONE OF THE OLDEST AND LARGEST IMPORTERS IN AMERICA



Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

Watson, Woods Bros. & Kelly Co. BOX 1 LINCOLN, NEB.

LAMER'S Percheron Stallions and Mares

75 Head of Imported and Home-Grown Percheron Stallions and Mares, at "let live" prices. Two-year-olds that weigh a ton.



C. W. LAMER & CO.
Salina, Kansas

The West's Largest Importing and Breeding Establishment. Importers and Breeders of

Percherons, Belgians and Shire Stallions and Mares

120 Head to Select from

Our Stallions and mares are strong and massive, with great quality, style and conformation, with splendid color and dispositions. They are selected with an eye single to the wants of the most critical American buyers, and we can sell them for less money than any one in the business, quality considered. The stallions will go into any community and command the best mares, command the men who are the best pay and who take the best care of their stock. Let us know your wants. We can suit you in both price and quality.

L. R. WILEY, Emporia, Kan.

They Are So Different!

All Imported, both PERCHERONS and BELGIANS. Last importation arrived Sept. 1st. The selects of both countries. I buy my own horses. All sound, big, flat boned. Ages, two and three years. Prices reasonable. Perfect guarantee goes with each horse and for two years at that.

W. H. RICHARDS, V. S., (Stables in the City) Emporia, Kansas

Bergner & Sons' Coach Horses

65 Head German Coach Horses, with Size, Beauty and Action

A general purpose horse that fits the farmer's need. Write for further particulars. We are offering stallions at prices you will be able to pay for with proceeds of one season's stand. Also mares either single or in matched teams. Write or call soon. J. C. BERGNER & SONS, "Waldock Rancho," Pratt, Kan.

Imported Stallions: Percheron, Shire, Belgian

Each year we show our New Importation the same Month they land. Each year they win more than all other Exhibitors combined. At the American Royal this year, we won 2nd on 4-year-old Percheron, 1st, 3rd and 4th on 3-year-old, 1st and 3rd on 2-year-old, and 1st and Champion Group of Five Stallions. Our Horses are Handsome and the best to buy; Our Guarantee and Insurance the very best.

PERCHERON IMPORTING CO., Chas. R. Kirk, South St. Joseph, Mo.

POLAND CHINA SALE

Oxford, Kans., Friday, Feb. 14th

Rich in Prize Winning Blood

40 Head Consisting of 4 Tried Sows, 11 Spring Gilts, 9 Spring Boars, 2 Outstanding Herd Headers, 14 Fall Pigs

They are strong in the blood of Frank Winns greatest show stock and a number of these spring boars and gilts not only will produce winners but with proper fitting can win in the best shows. The spring boars and gilts are by Master Stroke, a litter mate of the great sire, Master Meddler 2nd, and the tried sows are bred to him. The spring gilts are bred to the splendid boar, Edgwood, by Sentinel. Both Edgwood and Master Stroke go in this sale. Here is a good place to buy the best at a low price. For catalog write today.

Lafe Burger, Auctioneer **C. M. PRATER, Oxford, Kan.**

Davis' Annual Hampshire Sow and Boar Sale

AT SALE PAVILION, STOCK YARDS

SOUTH ST. JOSEPH, MO., TUESDAY, FEBRUARY 18th, 1913

SALE STARTING AT 10:00 A. M., SHARP

Pavilion Comfortable Regardless of Weather



150 Bred Sows, 40 Boars

I am offering in this sale, the greatest lot of Hampshire sows and boars in the United States, and when you buy one of these select sows or boars, you have bought the best money can buy.

Every sow and boar in this sale has had the simultaneous treatment which should immune them from cholera.

Every animal in this sale has been carefully selected and adheres strictly to the Hampshire type. The superiority of the Hampshire over all other breeds is an established fact, and the cross of this breed of hogs onto the lard type of hog imparts to the off-spring more vitality than any other cross that can be made.

The Hampshire hogs are noted for their large and vigorous litters, and their habits and constitutional strength make them the nearest disease proof hog in existence, and are the greatest rustlers of any breed. They mature as quickly as any other hog bred and when placed on the market are sure Market Toppers.

DO NOT FAIL TO ATTEND THIS SALE. IF YOU DO NOT, WE BOTH LOSE MONEY.

MAIL BIDS—If you cannot attend this sale, send your bids to E. C. Stone, Secy., American Hampshire Breeders' Assn., 703 E. Nebr. Ave., Peoria, Ill. After Feb. 14th bids should be sent to him at So. St. Joseph, Mo. Catalogues ready to mail Feb. 1st. Write for same.

W. F. DAVIS, So. St. Joseph, Mo.

AUCTIONEER—Co. T. E. Deem.
Save this advertisement as it will not appear again in this paper.

L. R. McClarnon's Sale of Big Type Poland Chinas

50—BRED SOWS—50

30 yearling and tried sows, 450 to 600 pounds and up, 20 large, choice gilts, 300 to 400 lbs. and over. 15 Sows bred to Big Orange and 25 Sows sired by Big Orange. The offering is strikingly representative of

BIG ORANGE

pronounced by good judges the greatest sire of herd headers and foundation material.

30 SOWS BRED to COLLOSAL and 5 SOWS SIRED by COLLOSAL

The son of big type grand champions, and a demonstrated sire of extraordinary scale, uniform quality and extreme finish.

Braddyville, Iowa, Wednesday, Feb. 26

IN HEATED, LIGHTED SALE PAVILION.

A special invitation is extended to every admirer of Poland Chinas to be present at this sale. The Catalogue will interest you. Write me for it. Entrust mail bids to H. S. Duncanson, Auctioneer, or Geo. W. Berry, Fieldman.

L. R. McCLARNON, Braddyville, Iowa

E. M. MYERS' DRAFT SALE

Duroc-Jersey Bred Sows

Burr Oak, Kan., Wed., February 19

(UNDER COVER)



In this sale Mr. Myers is selling 35 head like the above. They have been carefully handled and conditioned for this sale which is his regular annual bred sow sale. 12 are fall gilts, three tried sows and 20 well grown spring gilts. The fall gilts are by Jewell's Col. and out of Mr. Myers' best herd sows. The Spring gilts are by the same boar except four which are by Col. C., and out of a dam by Prince Wonder 2nd. The fall and spring gilts are all bred to Buddy's Best, by Buddy K 4th Wide Awake, the young boar he purchased this fall from the Geo. W. Schwab herd. His dam was by Red Wonder. The three tried sows are good producers and valuable sows in their prime. They are bred to Jewell's Col. One of them is by Golden Ruler and one by Wonder Bob, by Nebraska Wonder. Catalogs are ready and will be mailed promptly upon request.

E. M. MYERS, Burr Oak, Kan.

AUCTIONEERS—John Brennen, A. B. Price.
FIELDMAN—J. W. Johnson.

R. & S. FARM DUROCS

63--A Draft Sale of 63

Smith Center, Kan., Thurs. Feb. 20

(UNDER COVER)



Ten tried sows, the value of which will not be equaled in any sale this winter. They are big, prolific tried sows that are right. Tops from the above bunch.

Here is the line-up: May Sandall, by Meridian Prince, with six gilts in this sale. R. & S. Choice Goods, by W. L. A's Choice Goods, with seven gilts in the sale. R. & S. Model No. 5, by King of Kant Be Beat, with six gilts in the sale. Golden Minnie, by Golden Ruler, with four gilts in the sale. Myer's Wonder, by Ohio Prince, with five gilts in the sale. Lenore, by Waldo, Goldie 2nd, by King of Kant Be Beat, Rinehart's Choice, by Pearl's Golden Rule, R. & S. Model No. 6, by King of Kant Be Beat. All of these sows are safe to the service to Model Hero and Rambler's Wonder.

The 53 spring gilts are well grown and in the best of breeding condition, having been carefully handled with a view to their future usefulness. They were sired by Rambler's Wonder and R. & S. Duroc Wonder. They are bred for early farrowing to R. & S. Crimson Wonder and Model Hero. Both these boars are of the best of breeding. Look them up. Catalogs ready. Address

Rinehart & Son, Smith Center, Kan.

Auctioneers—John Brennen, N. B. Price. J. W. Johnson—Fieldman.

Dispersion Sale!

Pure Bred and High Grade PERCHERONS

Neal, Kansas, Saturday, Feb. 15th

33 HEAD	5 Stallions 3 Jacks 25 Mares	33 HEAD
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10 Head of these are purebred and registered in the Percheron Society of America, among which are the imported black stallion Tatius, weighing right at a ton and two imported black mares, the team weighing over two tons, together with two colts by these ton mares, one a weanling weighing 1,000 lbs., also a one and two-year-old stallion weighing 1,500 and 1,600 lbs.

Also one Telephone road stallion and three jacks, one a 4-year-old weighing 1100 lbs. Three span of 3/4-blood Percheron mares weighing from 1,500 to 1,700 lbs. and in foal to Tatius and from 3 to 5 years old.

14 Other Grade Mares 5 to 10 years old weighing from 1,500 to 1,700 lbs. all bred to imported Percheron stallions.

My Breeding Plant, House, Lots, Barn, Farm Machinery, Household Furniture, Milch Cows, Chickens and everything goes. Come to Neal, Kan., on Missouri Pacific, 12 miles east of Eureka, Kan. Trains handy going east and west. Am selling out on account of health. Sale under cover. For particulars address

A.W. WILLIAMS & SON, Neal, Kan.

AUCTIONEERS—Col. Harriman, Smethers, Williams.
FIELDMAN—A. B. Hunter.

HOPPER and BOWMAN'S FIRST ANNUAL SALE OF PURE BRED HEREFORDS

Ness City, Kan., Feb. 18 and 19

**75
Fine
Cows**
**25
Bulls**



By **J. C. Hopper**
and
W. I. Bowman

Here is an opportunity to head your herd. Don't miss it!

Conditions have never been as favorable for stockmen to better their herds. The high cost of living, and high cost of land, call for the best cattle that can be produced.

No better class of beef cattle, no more prolific cattle, and no better range cattle have ever been found than the famous White Faces.

Hopper and Bowman will offer, at this sale, some of the best blood obtainable, from such famous bulls as Lord Wilton, Beau Brummel, Beau Real, Lamplighter, Anxiety, Don Carlos, Discovery, and other well known strains. Without doubt the Hopper and Bowman herd is the largest and best selected in the West. They are not pampered, but have been bred on the Short Grass for range purposes.

There will be offered a number of Polled Herefords from the celebrated Guthrie herd. These are the ideal cattle for small herds.

In addition to those offered under the hammer, there will be offered, at Private Sale, a number of Pure Bred Bulls, not registered; a hundred head of high class Hereford yearling steers; a neighbor will have on the ground a few Registered Durham Bulls and a carload of Pure Bred Gallo-ways. There is a chance for everybody. Don't miss this sale. Write at once for Catalog. Address

W. I. BOWMAN, Ness City, Kan.

Auctioneers: Col. E. A. Kramer, J. W. Clouston.
Trains met at Ransom, main line Mo. Pac. Sale under cover.

Nuckolls County Horse Breeders' Association

32 Percheron Stallions and Mares 32

Sale at State Fair Grounds
Lincoln, Neb., Feb. 20, 1913

11 Stallions—13 Mares—8 Weanlings

This offering consists of Stallions good enough to head any herd. They are the product of Nuckolls county farms and bred and developed under ideal conditions. Not one of them has been purchased to put in this sale, all either having been raised or owned by the consignors at least two years. They are the large, drafty kind—Stallions ranging from yearlings, weighing 1,600 pounds, to fully developed ones, weighing 2,200 pounds—Mares ranging from yearlings, weighing 1,500 pounds, to developed ones weighing 2,050 pounds. All mares of breeding age have been bred and are supposed to be safe in foal, some of them having two, three and four of their offspring in this sale showing just how they breed.

Such men as Prof. Howard Gramlich and Dr. Gains and others who have judged the horses at the Nuckolls County Show pronounce the Nuckolls county horse exhibit to be one of the most remarkable in number and quality of any county show they have ever judged. This offering includes the prize winners of this show.

CONSIGNORS—L. Wall, George Barber, Frank Davidson, William Parr, J. C. Day & Sons.

AUCTIONEER—Col. F. M. Woods
Write for Catalogue to
PERCY BAIRD, Secretary, Ruskin, Neb.

Geo. W. Schwab's Duroc-Jersey Bred Sow Sale

Clay Center, Neb., Wednesday, Feb. 19

This is the date of his annual Duroc-Jersey bred sow sale. The sale will be held in his big private sale pavilion on the farm. The offering consists of 40 head of big type Duroc-Jersey bred sows and gilts. There will be several tried sows that are proven valuable and in their prime of usefulness, 12 fall yearlings that have nearly all raised litters the past fall and the balance picked spring gilts. The blood lines represented in this sale are Commodore Lad, Red Wonder, King's Defender, Freed's Col., Buddy K. 4th Wide Awake, W. L. A.'s Perfection, Gold Bond and a splendid son of Queen's Wonder, by Crimson Wonder Again, of spring farrow, called Cremo. These sows and gilts have been looked after personally along with my sows that I am keeping and are in splendid condition to prove money makers for their owners. They are bred to Buddy K. 4th Wide Awake, W. L. A.'s Perfection, Gold Bond and Cremo. An invitation is extended to all lovers of Durocs to attend this sale. It is the day following Geo. Briggs & Sons' sale and we are only seven miles apart. Catalogs ready. Address

GEO. W. SCHWAB, Clay Center, Neb.

Auctioneer, Col. Z. S. Branson, Lincoln, Nebr.
J. W. Johnson, Fieldman.

First Annual Joint Sale!

40 JACKS and Jennets 40

D. J. HUTCHINS, Sterling, Kan. H. T. HINEMAN & SONS, Dighton, Kan.

Will Sell at

STERLING, KAN., Tues. Feb. 25

25 JACKS 15 JENNETS



PHAROAH, GRAND CHAMPION AT TENNESSEE STATE FAIR IN 1910.

Select Numbers From Two of Kansas Best Herds. Every Animal Registered. Most Every Jack of Serviceable Age. The Jennets all bred or with colt at side. The Jacks are sired by and Jennets are bred to such noted sires as Pharoah, Jumbo, Hightide and Orphan Boy.

THE GREATEST JACK EVENT Kansas ever had. The Big Boned Prize winning kind. You will find it here. Sale under cover rain or shine. For catalogue address

D. J. HUTCHINS, Sterling, Kan., or H. T. HINEMAN & SONS, Dighton, Kan.

Auctioneers—Cols. Harriman, Snyder and Potter.

Fieldman—A. B. Hunter.

Two Days Combination Live Stock Sale

Percheron Horses, Shorthorn and Polled Durham Cattle, and Duroc Swine

Harper, Kansas, Wed. and Thurs., Feb. 19 and 20

30 Horses

Sell Wednesday, February 19, 1913

IMPORTED AND HOME BRED. 12 PURE BRED PERCHERONS all registered in the Percheron Society of America. 4 Stallions, 3 ready for service, one yearling. 8 Mares, 3 imported, 5 home bred, all of breeding age but one. Most of these mares are in foal to Vermont III, the splendid 2,300-pound sire, or to his best son Vermin. 1 French Draft, a two-year-old stallion, that will weigh a ton at maturity. 17 HEAD OF BROOD MARES, work geldings and drivers.

30 Cattle

Sell Wednesday, February 19, 1913

20 PURE BRED SHORTHORNS AND POLLED DURHAMS—Reds and roans—5 DOUBLE STANDARD BULLS. 1 Shorthorn bull. They are all grandsons of the great show bull, Roan Hero, and from 6 to 24 months old. 14 Pure Bred Cows and Heifers. Several are safe in calf to Governor, the 2,500-pound son of Crown Prince. 10 Grade cows and heifers including one Jersey milk cow soon to be fresh.

30 Hogs

Sell Thursday, February 20, 1913

20 PURE BRED REGISTERED SOWS AND GILTS, 4 Boars, 3 summer boars and one two-year-old that should head some good herd. The sows and gilts are bred to such sires as J. P.'s Col., a grandson of King of Col.'s II. They represent the blood of such sires as Ohio Chief, Buddy K IV, Tip Top Notcher, and other fashionable strains. They are not heavy in fat but just in good breeding condition.

AUCTIONEERS—Cols. Jno. D. Snyder, S. F. Bowman, F. M. Oller. FIELDMAN—A. B. Hunter.

WRITE TODAY FOR CATALOGUE, Address

J. P. HERSHBERGER, Harper, Kansas

Mammoth Jacks, Percheron Stallions

33 Head of Jacks and Percherons



The Jacks are 3 to 6 years old and from 15 to 16 hands high.

Percherons are from 2 to 6 years old and weigh from 1800 to 2000 lbs.

We have the kind that will please you.

Write for prices before you buy. Farm and sale barn on 21st Street, 1 mile east of Wichita Union Stock Yards. Write today.

J. C. KERR, Wichita, Kansas



ROBISON'S Percherons

One hundred and fifty Registered Percherons—Stallions, Mares and Colts. Fifty imported. All for sale.

J. C. Robison, Towanda, Kan.



50 Extraordinary Big Type 50 Poland China Bred Sows

Manning, Iowa, Feb. 21, 1913
In Sale Pavilion

12 Big Tried Sows, 15 Mammoth Yearlings, 23 Sensational Gilts

Thirty sows bred to, and 15 sows sired by **MABEL'S WONDER**, the 900-lb. first prize aged boar, Iowa State Fair.

Fifty head of bred sows and gilts, combining extraordinary scale, superior quality, correct type. Surpassing in size, smoothness and trueness to type any like number of sows ever offered at auction. Gilts 300 to 400 pounds. Sows 500 to 700 pounds.

Fifteen sows by **MABEL'S WONDER** bred to Long Price, a son of Chief Price Again, conceded one of the greatest big type sires. Others bred to Long Jumbo, the largest and smoothest boar of his age. Chief Price Again 2nd, a herd boar by the noted Chief Price Again will be sold.

I extend a cordial invitation to the breeders to attend this sale. If you cannot be present entrust your bids to the auctioneer or fieldman with absolute confidence. Write for the catalog.

R.W. HALFORD, Manning, Iowa

Col. H. S. Duncan, Auctioneer.
Geo. W. Berry, Fieldman.

DUROC-JERSEY BRED SOW SALE

Eureka, Kansas,
Thursday, Feb. 20, '13

42 HEAD

15 Tried Sows, 25 Fancy Spring Gilts, 2 Fancy Summer Boars, Herd Header Prospects.

42 HEAD

Forty sows and gilts all showing safe in pig.

This offering is strong in the blood of Ohio Chief, Orion, and G. M.'s Carl Col. They also carry the blood of Kelley's Pilot Wonder, Kant Be Beat, Inventor and Top Commodore.

Among these tried sows are several of my very best herd sows put in as attractions, and every one of the 15 are immune. The gilts are by Stith's Commodore and Stith's Model, each a splendid breeding grandson of a champion.

23 of these sows and gilts will be showing safe in pig to Model Duroc, by Dandy Duke. Model Duroc is a half brother to both Beautie's Babe, Grand Champion boar at Hutchinson 1911 and the grand champion sow at Topeka the same year.

Farmers who wish to better their herds and breeders who need more good breeding stock should attend this sale. Write today for catalogue. Address

CHAS. STITH, Eureka, Kansas

AUCTIONEERS—J. D. Snyder, Lon Smethers.
FIELDMAN—A. B. Hunter.

J. H. Harter's Polands

50 BRED SOWS AT AUCTION 50

At the Farm, three miles from Fostoria; and four miles from Westmoreland, Pottawatomie County,

Tuesday, Feb. 18, 1913

The sale will be held under cover and dinner will be served at the residence at noon. The offering consists of

15 Fall Gilts, 15 Tried Sows, 15 Spring Gilts, and 5 Summer Boars that are Herd Header material.

The fall gilts are by Mogal's Monarch, Gephart and Prince Hadley. The spring gilts are of exactly the same breeding. The tried sows are young sows that have raised litters and are in their prime. They are of strictly big type breeding and every one is guaranteed a good useful sow. I am reducing my herd and selling close because of that fact. Most of the sows that go in this sale are the dams of the spring and fall gilts in this sale. Catalogs ready. Address

J. H. HARTER, Westmoreland, Kan.

Auctioneers: Jas. T. McCulloch. J. W. Johnson, Fieldman.

Dispersion Sale

Percheron Horses!

ZENITH, Stafford Co., Kan.

Friday, February 21st.

The splendid imported stallion **INVNTIFF**, 1st prize yearling at Hutchinson, 1910. 6 imported mares, heavy in foal to Invntiff. 1 weanling mare and 1 weanling stallion. 1 two-year-old stallion.

4 HIGH GRADE PERCHERON YEARLINGS.

The imported stallion should head some good herd. The mares are all broke and in the best of breeding condition. They are from 4 to 7 years old. They will raise a valuable colt each season and do the farm work besides. Farm sale to be held in connection at farm. Zenith is 6 miles east of Stafford, Kansas. Good train service at both points. Write today.

J. A. FEE & SON, Stafford, Kan.

Auctioneer—John D. Snyder. Fieldman—A. B. Hunter.

DON'T PUT IT OFF ANY LONGER, BUT COME AT ONCE AND PICK A

Percheron or Royal Belgian Stallion or Mare

We have them to suit you if you are ever so discriminating. Our entries won 22 prizes at the late Nebraska State Fair; 3 champions, 8 firsts, 7 seconds, 2 thirds and 2 fourths. Prices are right. Photos from life on application.

WOLF BROS.

Importers and Breeders

ALBION, Boone County, NEBRASKA.



MISSOURI.

25 OZARK bottom farms. List free. Write J. H. Wright, Marshfield, Mo.

WRITE Morris & Walker for list of south Missouri farms, Mountain View, Mo.

160 A. farm, \$1,800, imp. Write for picture. Box 594, Mountain View, Mo.

STOP! Listen! 80 a. creek farm \$850; terms. Other farms. McGrath, Mountain View, Mo.

FOR SALE. Some of the best farms in central Missouri. For list and particulars write W. B. Marshall, Ionia, Mo.

200 A. 4 mi. R. R. town. Unimpr. Running water. 25 a. bottom, good grass, good timber. \$2,000. Baker Realty Co., Mountain Grove, Mo.

MO. lands, impr. and unimpr., low prices, easy terms; booklet "Why Not Missouri?" free. Encls. made. C. L. Beach & Co., Mansfield, Mo.

WELL imp. 160 acre farm, 6 1/2 miles out; \$4,500, on easy terms. Write for particulars. DeMotte Realty Co., Mountain Grove, Mo.

FREE. "The Ozark Region." Contains new list cheap lands, and valuable information. Durnell & McKinney, Cabool, Mo.

WRITE for list improved farms in heart of Corn Belt (Northwest part of State), H. J. Hughes, Trenton, Missouri. Seller of Missouri Black Dirt.

MISSOURI agriculture and grazing land \$15 to \$50 per acre. Finest climate, best water and grass. Some tracts to trade. R. W. Hedrick, Cole Camp, Mo.

LAND BARGAINS—\$5 down, \$5 monthly buys 40 acres, good timber land, south Missouri; price \$200. Perfect title. Write for list Mo. lands. Fred Jarrell, Mt. Vernon, Ill.

HIGH CLASS farms of various sizes in Missouri or Kansas. 20 to 40 miles south of Kansas City. Send for list. L. W. KIRCHER, Cleveland, Mo.

OZARK LANDS FOR SALE. 40 a., all fenced with woven wire, 36 a. in cultivation, bal. pasture, new 5 room house, large barn and other outbuildings, fine water, 1/2 mi. school; mortgage \$500 due 4 yrs. at 3 1/2%. Price \$1,400. List free. JAS. B. WEBB, West Plains, Mo.

SPECIAL BARGAIN MUST SELL QUICK. 284 acre farm, highly improved and most conveniently located. In Pettis county, Mo. Must be sold by February 15th, 1913. Has 100 acres of good bottom land. An ideal stock farm. Price \$45 per a. Small payments and easy terms. No trade. J. H. FREDERICH, Cole Camp, Mo.

ONE OF THE BEST. Howell Co., Mo., 240 acre farm, 200 a. in cultivation, all well fenced. Abundance of fruit, fine water, well, cistern and tank, large barn, 6 room house, near town, R. F. D. and phone line, school 1 mile. Price \$85 per a., no trade. Other good farms. A. P. COTTBELL, LAND CO., Pomona, Howell Co., Missouri.

AMERICAN FARMER. We are constructing a three million dollar ditch, which with its laterals is opening up for cultivation, 500 thousand acres wonderful corn, wheat, alfalfa and truck land. Southeast Missouri is the Nile of America and we want 5,000 settlers. These lands will increase in value millions of dollars each year. Write for literature and buy now. Address Edwards Bros. Realty Co., New Madrid, Mo.

OZARK LANDS. Improved 80, eight mi. out, part valley, 2 acres bearing orchard, good; 2 fine springs, price \$1,500. Improved 40, 4 miles out, part valley, pretty spring branch across the land, price \$1,200. Improved 207 acre Indian Creek valley farm, 4 mi. out, 170 acres valley; finest farm in McDonald Co. Price \$11,000. Improved 120, 5 miles out, part valley, extra nice home place. Price \$4,200. For particulars and terms address, ANDERSON REAL ESTATE CO., Anderson, Missouri.

POLK COUNTY FARMS For Sale or Exchange Ideal climate, pure water, fine pastures, short feeding season, productive soil, prices and terms to suit. HARRY T. WEST REALTY CO., Belmar, Mo.

Poor Man's Chance 40 acres, well improved, 6 miles Warrensburg, town 6,000, 1/4 mile school. All in cultivation, lots of water. Price \$50 per acre. O. J. TAPP, Warrensburg, Mo.

Remarkable Bargain 320 A. all level land, 65 a. in cult., 80 a. pasture; bal. saw and tie timber. 180 fenced, wire and 11/2 room house, good well at house; barn 70x76; oil well at barn; smoke house, other outbuildings; one in house; handy to school and church; 6 mi. North View on Frisco R. R. 5 mi. to Fairgrove; 1 mi. to Co. seat, Marshfield; price \$17,500. Incumbrance \$5,000, 5 per cent, due 6 years; will exchange for good Kansas farm. Will assume as much as \$3,000. What have you to offer? See or write PURDY & COMPANY, Springfield, Mo.

NEW YORK FOR SALE—425 acres with two sets improvements; stock and grain farm; Lyon county, Kansas; good water, timber, fruits; everything; near to school, church, railroad; price \$50 acre; no trade. Address LOOD, Cattaraugus, N. Y.

DEATH OF OWNER forces this money making farm at a sacrifice. 100 acres nearly level land, ten acres wood and timber, 30 room house, three barns 32x45, 26x40, 30, hog house, hen house, granary, wood shed, plenty watered, abundance fruit, R. F. D. and phone, three miles to railroad. \$2,000 gets it; \$1,000 cash, balance \$1,000. HALL'S FARM AGENCY, Owego, N. Y.

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N. E. OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.

INDIAN LANDS eastern Okla. rain belt. Write J. J. Harrison, Pryor, Okla.

600 FARMS and other prop. for sale or ex. Blackwell Real Estate Co., Blackwell, Okla.

BARGAINS in Tex. Co. farms. Some exs. Write for list. Harvey Cox, Hooker, Okla.

KAY COUNTY corn, wheat and alfalfa lands, \$20 to \$75 per acre. New list free. N. E. SAYLOR, Newkirk, Okla.

FARM FOR SALE cheap. 160 a. improved farm in central Oklahoma, 3 mi. from good town. Write A. W. Jones, Quinton, Okla.

BARGAINS on farms in New Eastern Oklahoma. Good wheat, alfalfa and small grain land. 47 inch rain belt. Fine grass and several large ranches, cheap. Write today. Union Security Co., McAlester, Okla.

600 A. 3 mi. R. R. station this county. 200 a. tillable. 60 in cult. Bal. fine pasture, good neighborhood. No exchange. \$8.50 per acre. Terms. 2,000 a., fair improvements. Half tillable. All prairie. \$12.50 per a. SOUTHERN REALTY CO., McAlester, Okla.

1,040 ACRES, well improved, on ever running stream, Texas county, Oklahoma; 200 acres alfalfa, 100 acres good hay land. \$22.50 per acre. Lease on 1,440 acres State School land goes with the deal. If interested write for full particulars. I. L. ENNIS, Guymon, Okla.

SNAP FOR TOWN SITE PROMOTERS. 160 a. improved farm in western Oklahoma for sale cheap. Railroad station located on this farm. Write A. W. Jones, Quinton, Okla.

POCKET MAP OF OKLAHOMA for five names of persons in... nding to change Caddo county corn and alfalfa land. BALDWIN & GIBBS CO., Anadarko, Okla.

SEVERAL FINE FARMS FOR SALE in the best corn and cotton belt of Eastern Oklahoma; 80 to 600 acre tracts, \$25 to \$60 per acre. R. B. HUTCHINSON, Checotah, Okla.

FARM FOR RENT. 160 acre farm, 2 miles east of Cherokee, Alfalfa Co., Oklahoma. Good improvements, forty acres in alfalfa. Cash rent, with option of purchase. Address J. M. GILLETTE, Tulsa, Okla.

Eastern Oklahoma Land \$20.00 to \$25.00 per a. Prices are steadily advancing—now is the time to buy. If you want a good, cheap home, or a money making investment, write to or call on W. T. HARDY, McAlester, Okla.

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640 A. improved bottom farm \$15 per a. J. A. Webb, Russellville, Ark.

FARMS and fruit lands. All sizes and prices. T. A. Bayley, Ft. Smith, Ark.

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ARKANSAS RIVER BOTTOM plantations, virgin timber lands, small farms. Send for list. Dumas Realty Co., Dumas, Ark.

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80 ACRES improved, near Clarksville, Ark., county seat of Johnson Co. Price \$15.00 per acre. For further information write M. S. Park, Clarksville, Ark.

CORN, FRUIT, ranch and wheat lands; sandy loam soil; \$10 to \$25 per a. On good terms. Write for new list, mailed free upon request. Mansfield Realty Co., Mansfield, Ark.

DO YOU want a farm in Arkansas? If so, write for my illustrated book. Imp. and unimp. prairie, timber and rice lands. Write me today. Olaf H. Kyster, Stuttgart, Ark.

ATTENTION. We have selected list of very best bargains in farm, fruit, alfalfa and timber lands in Ark. Get our list of bargains. A. W. Estes Co., Little Rock, Ark.

HOMES in N. W. Arkansas, fruit, stock and grain farms from \$5 per acre up. Lively water, ideal climate, good soil, bargains; 25 acres well improved \$3,500. Hotel \$2,500. 18 acres well improved and close in \$2,700, and other bargains. Write HINDSVILLE REALTY CO., Hindsville, Arkansas.

480 ACRES rich dark loam land; 120 cultivation; bal. timbered; level, no rocks; 1 mi. R. R. \$12 acre, 1/2 down. ROBERT SESSIONS, Winthrop, Ark.

274 A. dark and red loam. 200 a. in cultivation, 6 room residence, 4 renter houses, barns, outhouses, wells, springs, orchard and pastures, on graveled road, railway and phone line. 1 mile from town. \$6,000.00, easy terms. H. M. McIVER, Texarkana, Ark.

A REMARKABLE BARGAIN. 628 ACRES; good 8 room residence; two tenant houses; 130 a. cultivation. 2 mi. railroad town. No wash land. Price \$10 per a. Other lands. R. C. THOMAS, Magnolia, Ark.

For Sale in Southwest Arkansas 80 improved farms at a price ranging from \$15.00 to \$40.00 per acre. Write for literature. SOUTHERN REALTY & TRUST COMPANY, Ashdown, Arkansas.

620 A. Bottom Land or any part thereof at \$15 per acre, within two miles of two railroads, no overflow, level, fine grass land, good hunting and fishing. We don't care for all cash. 1/4 section of timbered land, about 20 acres cleared, level, no rocks, at \$15.00 per. Also a few improved farms. Write us, we will take care of you. M. & B. TIMBER CO., Farm Department, Malvern, Ark.

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There is Lots of Louisiana Land That Will Produce Three Times Its Cost Every Year

Louisiana is in a class by itself. For rich land, big crops, low prices. It makes no difference if you are rich or poor, an owner or tenant, where you live, or what you are interested in. Louisiana offers you more opportunities, more show to get ahead, bigger returns for your work and investment, than any other section on the North American continent, barring none.

We have sold here that is so rich it could be used to fertilize your northern farm. We can raise the biggest kind of crops of corn and alfalfa; fatten hogs and cattle for half the money it costs in North or Middle West, and this land can be bought from \$10.00 to \$25.00 per acre.

We have issued a nice illustrated booklet with a number of fine photo engravings showing the splendid growing crops of this country. It tells FACTS in big letters about this section in a simple and a plain way. It is free to you just for the asking. Every farmer should read this book for the information undoubtedly will prove to be of great value to you; it probably will give you the opportunity of making an investment, the best you ever made in all your life. Farm for yourself; farm in Louisiana and particularly farm in Alexandria district! Sit right down now and write us a letter for full information about this most wonderful section of the country.

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DON'T be a renter; we sell finest improved corn land in North Louisiana on 15 years' time. Write HUGO JACOBSON, Salina, Kansas, immigration agent.

Ruston, Louisiana

is the best place for a tenant farmer that only has a little money to own a farm. Rich fertile soil—Ample rainfall.

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Two crops a year—Good markets. \$10.00 to \$25.00 an acre, easy terms. No floods, mosquitoes or swamps. Write for illustrated literature. NORTH LOUISIANA REALTY & INV. CO. RUSTON, LOUISIANA.

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OWN YOUR HOME IN CANADA.

Buy a farm in Sunny Southern Alberta, any size, easy terms. Climate ideal, soil unequalled, no crop failures, no personal tax. Write today. LYNN W. BARRETT, Aldersyde, Alberta.

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WRITE for my new exchange list of Dickinson Co. Farms. Melvin Smeltz, Enterprise, Ka.

IF YOU have mdse., income property or land to trade, list it with Triplett Land Co., Garnett, Kansas.

WE BUY, sell, exchange anything, anywhere of value. Ozark Co-operative Realty Co., Willow Springs, Howell Co., Mo.

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EXCHANGES, cash sales of farms, city property, merchandise. What have you? Address Southwest Real Estate Exchange, Moriarty, N. M.

BARGAINS in Missouri farms. Also Texas Gulf Coast land to exchange for Missouri or Kansas farms. Write us. STANLEY-HATTON REALTY CO., Sedalla, Mo.

WANT MERCHANDISE for 320 a. alfalfa, wheat and beet farm. 240 under ditch, \$65.00 per a. Clear. Owner will put in some cash for No. 1 stock. Box 874, Garden City, Kan.

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WOULD you trade your farm; city residence, rental property; mdse.; hotel; steam plow; auto or other property for good land? Write Kysar Realty Co., Goodland, Kan.

TO EXCHANGE for merchandise or hardware, 320 acres improved, 3 1/2 miles from good town in south central Kansas. Address L. H. Whiteman, owner, 213 Biting Bldg., Wichita, Kan.

I HAVE for exchange several high grade stocks of hardware and implements. If you own a good farm that is clear or nearly so and want to get into business, write me at once. W. H. WINN, 207 R. A. Long Bldg., Kansas City, Mo.

WANTED—To trade for a 1913 model Ford automobile, either runabout or five-passenger. Our \$1,300 equity in an 8 room house four blocks from the center of Winfield, Kan. Must have auto soon. What have you? THE BENKENDORF LAND CO., Winfield, Kan.

FREE—Loose Leaf Exchange Book. It will match your trade. Write Desk A. E. P. JOHNSON, Ordway, Colo.

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FIRST CLASS HOTEL FOR SALE. 20 rooms in the best small new town in south Florida. New and modern, completely furnished, good water connections in house. A rare opportunity for a hustler. FLORIDA DEVELOPMENT COMPANY, Davenport, Fla.

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FOR EXCHANGE. Improved 160 acres, bottom land in Allen Co., Kansas, worth \$12,000.00, will exchange for mdse. or hdw. in North Missouri, Ill., or East Iowa. Also good 200 acres and 80 acres at a bargain for cash, easy terms, good homes and fine land. Write for fullest description if interested. WILSON & RESSEL, Colony, Kan.

Buy or Trade with us—Exchange book free. Bersie Agency, Eldorado, Ka.

Texas Farm Fine land, well located, to trade for farm in Kans. Man's wife won't leave folks in Hans. to live in Texas, so he wants to trade. What have you? Give good description. D. W. GRANT, Palacios, Texas.

For Sale or Exchange Land in the great corn belt of Missouri, Kansas and Nebraska. Also Ranches. If you wish to make an exchange address M. E. NOBLE & SON, 507 Corby-Forsee Bldg., St. Joseph, Mo.

For Sale or Exchange 13 lots in St. Joseph, Mo., South 22nd St., between Oak and Cedar, 8 room modern dwelling, 4 room cottage, brick cave, barn, cistern, shade, good location and repair. Price \$14,000.00. Incumbrance \$6,200.00. Two lots Maysville, Mo., small improvements, \$2,200.00. Incumbrance \$500.00. Also \$4,200.00 1st mortgage, 313 acres in St. Clair Co., Mo., 2 yrs. 6%. Equity in all or part for equal value in land or merchandise. Submit your offer. W. L. BOWMAN REALTY CO., King City, Mo.

Want a "Buick" Auto? Have two model "F" Buick automobiles to trade for livestock of any kind if priced worth the money. Cars have been owned by farmers and are in excellent condition. M. W. PETERSON, Hanston, Kan.

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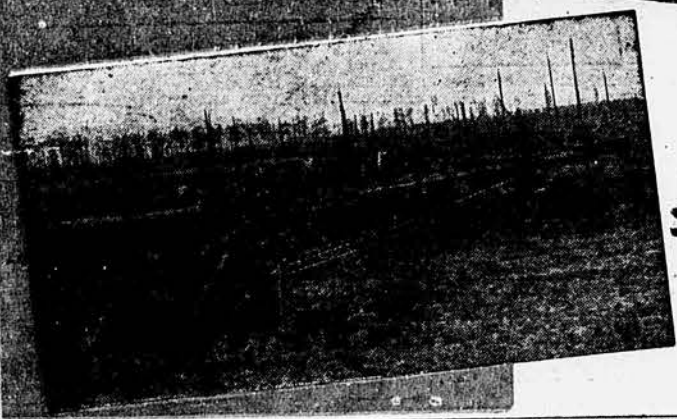
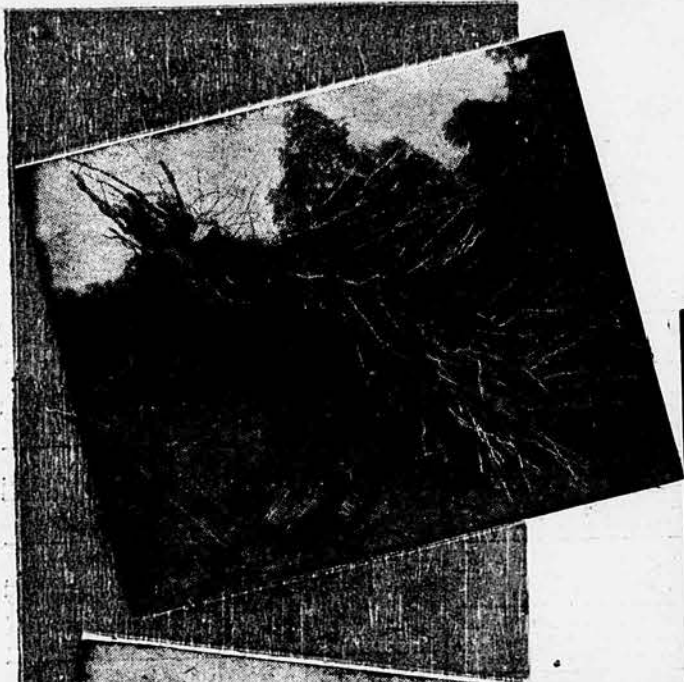
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Send me your name. I want to mail you my free book. It tells many facts that will interest you if you have stumps on your land. You will be glad you wrote me.

My book shows how much money stump land robs you of. It tells what the government says about this *loafer* land. It shows how stump land can quickly be turned into *money* land—*money* crops. It proves that on 40 acres, you can make \$1,281 the first year—and \$750 every year after the stumps are pulled.

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The book also tells all about the Hercules Stump Puller. It proves to you that the Hercules pulls any size stump in five minutes or less. Makes no difference how big, 4, 5 or 6 feet across the top—with roots 15 to 20 feet down—the Hercules pulls them out *with the roots and all*—really clearing the land once and for all. It proves that you can pull an acre or more of stumps a day and shows how others have pulled stumps with the Hercules, at a cost of about 4 cents per stump! The



HERCULES All-Steel Triple Power STUMP PULLER

has conquered every stump it has ever been hitched to. Its triple power feature gives it more pull than a locomotive and my book proves it. You can also use the Hercules as a single or double power puller, for work on green trees, hedges and small stumps. The Hercules is the *only all-steel* stump puller made. It has four times the strength of any "semi-steel" or "new process steel" or cast iron puller made—and is 60 per cent lighter. We know the strength of the Hercules, that is why it is

Guaranteed for 3 Years

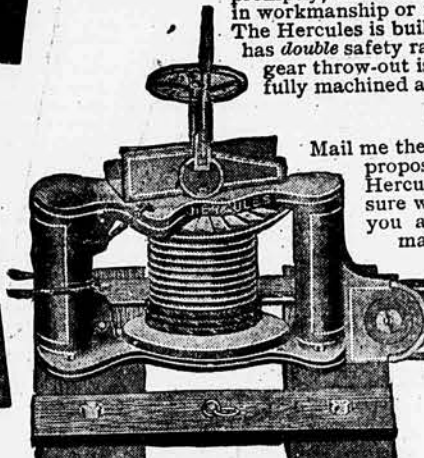
If any casting of your Hercules All-Steel Triple Power Stump Puller breaks, any time within three years, whether the fault is yours or the machine's, I will absolutely replace any such part free of all cost to you. There are no conditions to this guarantee whatever. Any casting will be replaced promptly, whether the machine breaks by accident or through any flaw in workmanship or material.

The Hercules is built low to the ground, is self-anchored or stump-anchored, has double safety ratchets, which insure the safety of operator and team—the gear throw-out is simple and sure—and every part of the Hercules is carefully machined and polished to reduce friction and lighten draft.

Get My Book and Low Prices

Mail me the rush coupon or a postal today—*now*. I have a special price proposition that saves you big money on the regular price of the Hercules. I know you will be intensely interested in this simple, sure way to clear your land—and I feel sure my low price will make you a customer. Only a limited number of these introductory machines are left, at this low price—and I want you to get one if I can convince you of your need for it. Let me write to you and mail you my book, price and 30-day free trial offer. Address me persons

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Hercules Mfg. Co.
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 828 21st Street, Centerville, Iowa

Dear Sir: Please send me free book about the Hercules Triple Power All-Steel Stump Puller. Also your low price to first purchasers.

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NOTICE!

Grand Prize Yellow Strand Wire Rope used on HERCULES PULLERS
 It is this Yellow strand wire rope that won first prize at St. Louis Exposition proving twice as good as next best cable. It is this Yellow strand wire rope that is being used by the U. S. Government at Panama on the real important work of building the canal. And experts say this Yellow strand rope is one of the big helps that will enable Uncle Sam to complete the canal a whole year before expected. And it is the Yellow strand wire rope that is used exclusively on the Hercules Stump Puller—not a green strand, blue strand, white strand or red strand—but a YELLOW strand—don't let any unscrupulous person or company confuse you.