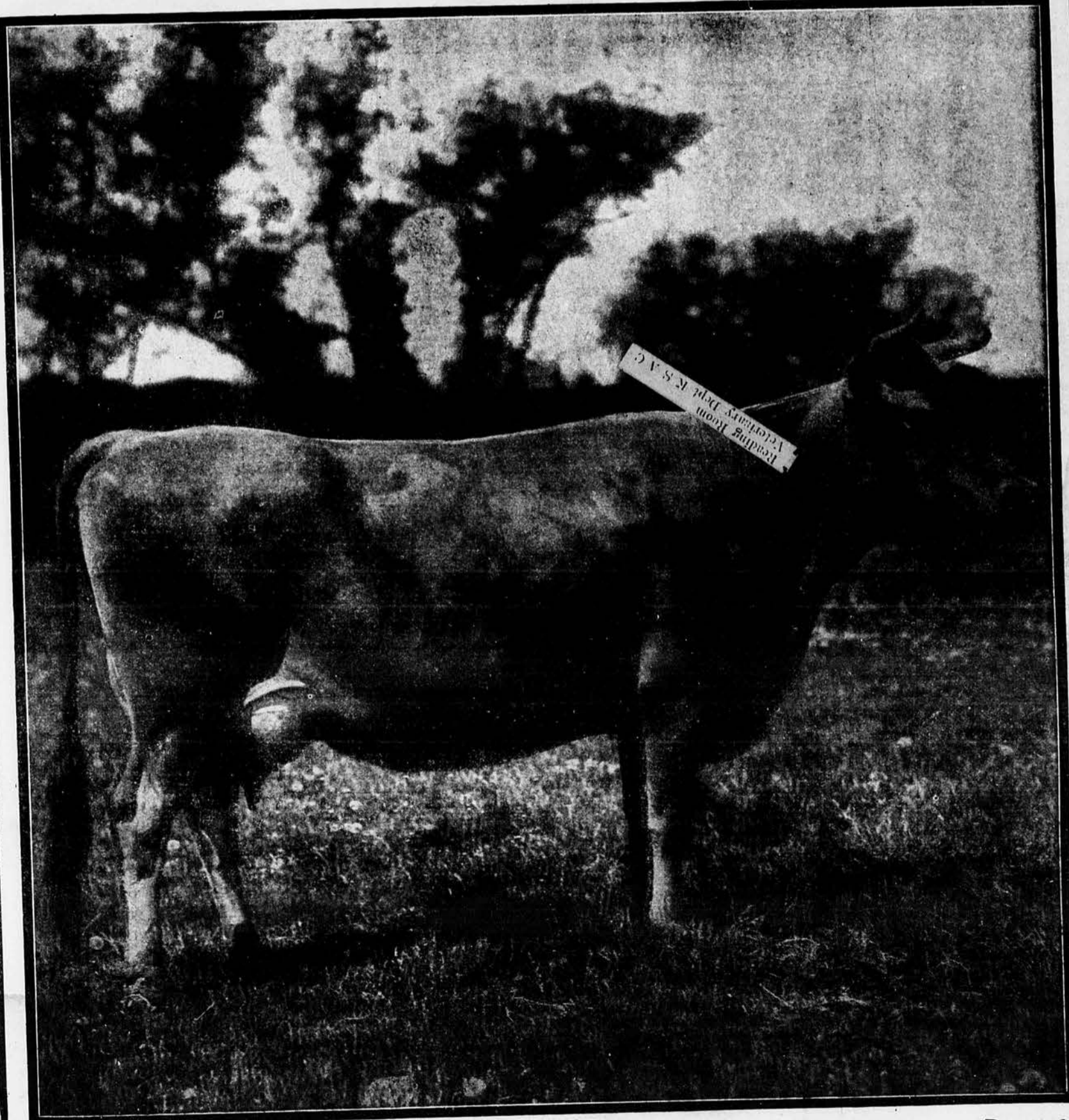


# THE FARMERS MAIL AND BREEZE

Volume 43

May 17, 1913

Number 10



*Owl's Design, Kansas' Best Cow. One of the World's Seven Best Jerseys. Page 11*

**Double the R. F. D. Circulation of Any Other Kansas Farm Paper**

## Dipping Sheep

is only one kind of cleaning up needed at this time of year. Dr. Hess Dip and Disinfectant kills ticks, disinfects the skin and fleece, cures scab, mange and all parasitic skin diseases. Is just the thing to put in the hog wallow. Keeps its strength and hogs can free themselves of lice, at the same time heal and prevent skin diseases. Besides

### Dr. Hess Dip and Disinfectant

cleans up and purifies the premises. It should be sprinkled in the poultry house and yard, poured into sinks, drains, and used everywhere where filth accumulates. It has hundreds of uses and should be kept in every home. It is absolutely uniform in strength, meets the U. S. Government requirements as an official dip for sheep scab, is non-poisonous—and costs nearly nothing. One gallon makes 50 to 100 gallons of solution.

Write for Dip circular.

Dr. Hess & Clark,  
Ashland, Ohio



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I want to send you either one of these Auto Fedan Hay Presses on Thirty Days' Free Trial, with a positive guarantee that they will save you one-third the labor and from twenty to thirty per cent of the expense of any Hay press on the market.

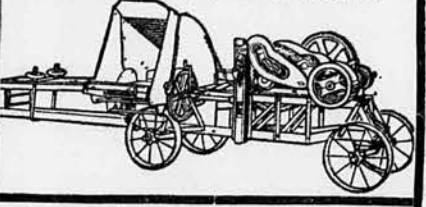
Two men can bale more hay—and bale it better with an Auto Fedan than three men can bale with any other baler on the market, and I can prove it.

The Auto Fedan is the ideal alfalfa baler. The hay is not pounded or hammered into the press, but is pressed down by a solid feed-board and pressed into compact layers. The hay comes off in even layers and is not broken nor shattered.

Write today for full particulars, and my rock-bottom prices.

E. P. ROSS, President.

**AUTO FEDAN HAY PRESS CO.**  
1514 West 12th St., Kansas City, Mo.



## 1 Man 2 Row 3 Horse Bailer Cultivators Are Money Makers and Time Savers

Cultivate 2 rows just as accurately and in half the time taken by single row machine. Save one man, one horse and one machine. Save valuable time in short seasons. Work under every condition.



Write for Free Book. Scientific Corn Cultivation.

Tells how to get bigger profits from your cornfield. Shows why the Bailer is the only successful 3-horse, 2-row cultivator on market. A readable book for practical farmers. Send Us Your Dealer's Name. If he does not handle Bailer cultivators, we'll arrange for a demonstration in your town. No expense to you. Write Bailer Plover Co., 1330 Main St., Atchison, Kan.



## Dillon Joins the Mail and Breeze

CHARLES DILLON, who has been dean of the department of journalism at the Kansas Agricultural college for the last three years has accepted the managing editorship of Farmers Mail and Breeze and the other Capper Farm papers. He will begin his new work soon after July 1.

Tom McNeal will continue to be editor of the Mail and Breeze.

Mr. McNeal said in last week's paper, "There is only one Dillon and Kansas has him."

But it seemed likely that Kansas was to lose Mr. Dillon. Proposed changes by the new administration's educational board had made his further usefulness at Manhattan uncertain and his services were in demand outside of the state. For a week or more Mr. Dillon was almost a state issue, the Kansas newspapers with great unanimity pointing out the value of his work for Kansas. Then Mr. Capper stepped in and secured Mr. Dillon's services for the Mail and Breeze. Now he will have even a wider opportunity to serve Kansas and the readers of this paper through its columns. He will do it in a way, too, that will be most acceptable to the Mail and Breeze family, making "their paper" even more welcome and useful to them.

Mr. Dillon knows Kansas and its people. His father brought the family from Michigan to Kearny county in 1878, when buffaloes and wild horses were still a part of the state's western assets. Mr. Dillon—the elder—owned and published the first weekly paper in the western part of the state in 1880, the Lakin Herald, but even back of that, for three generations, the men of the line were newspaper writers. There was not much Lakin or Garden City in 1878, or many pleasures either, for the people in the western tier of counties. But life as they had to live it was a fine experience in bringing out steady, trustworthy character.

"There has never been a year," Mr.

Dillon once said, "when I feared to sit down on plowed ground."

"I have a notion that farmers are advised half to death," he said in talking about his new position in Topeka. "I have a notion that it is possible to reach their hearts and their brains another way. I have an ideal in mind, certainly, and I shall try mighty hard to realize it to the fullest. That ideal is not to be described now. I don't intend to be judged before I've been tried. It will do, now, to say that I have obtained the best results in the past where I told how someone else had done a certain thing, rather than by hammering at a farmer and trying to make him take my plan. We have a fearful and wonderful accumulation of knowledge in this farming business. What we want to do now is to apply some of it. Efficiency on the farm is the jewel desired, and it must reach into the kitchen. I've noticed that whenever I have written along these lines in some publication of large circulation I have received hundreds of letters from farmers. I know they read these things. We are coming into the most wonderful era the world has ever known. A man ought to be glad to feel that he can do even a little in the big program. And of course nothing is bigger than agriculture. The well-edited farm papers, therefore, can be a mighty influence. You can depend upon it that nothing made with paper and ink and brains will do more than the Capper Farm publications. Their present strong position is a wholesome guarantee of the future. I have never seen a better co-operative force than the Capper machine nor one with higher ideals for the future. If that were not so I should not be joining it. I am proud to become a member."

I find the Mail and Breeze one of the best papers published. It helps me a great deal in farming.—Isaac Braun, R. 2, Hillsboro, Kan.



CHARLES DILLON

Who Will Become Managing Editor of Farmers Mail and Breeze Early in July.

## What Do You Know About This?

Recently a reader who shall be nameless, wrote the Mail and Breeze:

If you ever lived on a homestead you would know that dollars do not grow on sagebrush. The banks here, are charging poor people 12 to 24 per cent on 4 to 1 security and we have to pinch the dollar till the eagle screams. We hope for something better in the future—perhaps government loans and such things.

The Mail and Breeze is investigating this complaint and finds that a good many farmers think they are not getting a square deal as borrowers of money. It would like to know what the situation is in your locality. What security is offered and what rate is charged.

If you can—tell us also what interest rates business men are getting in your locality.

Also what per cent of interest you think a farm buyer could pay and stand a chance of getting out of debt in years to come.

And, whether or not, it is your opinion that cheaper money would still further advance the price of land.

This is simply a little search for facts in which we are asking the assistance of Mail and Breeze readers. We shall be glad to have you report any information you may have that will be of help, also your conclusions, comment, or opinions, calmly and judiciously stated. We are not asking you to "roast" the bankers, they are folks just like the rest of us. Roasting letters are not wanted—just facts—and your opinion of the money situation so far as the man who farms is concerned.

## A Wagon Built Like A Bridge



### Weather Has Little Effect On It

HERE is a wagon that will not dry out and become loose, or rot and break. It never has cracked hubs, split felloes or loose tires. It has no bolts and nuts to work loose and rattle off, and nothing to come apart. It is not affected by dry or wet weather, nor by heat or cold. Troubles, so common to the ordinary wagon, are overcome entirely.

This wagon is made of steel I-beams, channels and angles—the strongest shapes known in steel construction work. It is put together with large steel rivets, inserted hot under great pressure. They do not become loose even after years of service.

### Davenport Roller Bearing Steel Wagon

Its axles are steel I-beams, the ends of which are rolled into shape for the spindles. No material is cut away. All of the original strength remains.

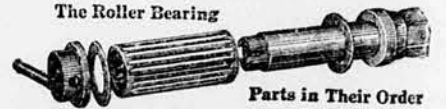
The gear parts and bolsters are scientifically built and braced so that the load is distributed evenly over the entire wagon. No one part does more than its share of the work. This wagon has steel wheels made with a tension. The weight of the load is carried by all of the spokes—each one doing its share regardless of whether it happens to be located at the top, bottom or sides of the wheel.

Davenport Steel Wheels run on straight spindles, and the tires bear flat on the ground. Strongest wheels known for wagons.

### Roller Bearings—Reduced Draft

Best of all are the Roller Bearings. It is because Davenport Wagons have roller bearings that you can do work with two horses and a Davenport that would ordinarily take three horses.

The Roller Bearing



Parts in Their Order

These roller bearings are practically everlasting. They cannot get out of order and show no appreciable wear even after long service.

### Oil Without Removing the Wheels

The Davenport Wagon has another handy and time-saving feature. You don't have to take the wheels off and get yourself covered with grease to oil them.

Just push back the lid of the oil cup in the wheel, squirt in a little oil and let go of the lid. It closes itself. It takes but a few minutes to oil a Davenport Wagon. You don't use a jack, waste time or soil your hands.



### Send for this Book

"When the Going Is Hard" is a little booklet that contains a lot of interesting things about the Davenport Roller-Bearing Steel Wagon. Among others, it tells how neck-weight is taken off the horses, why Davenport Wheels do not fill with mud, how the bearings are made dust-proof, etc. It also fully explains and illustrates the use of roller bearings on wagons.

You can get this book free by asking for it as Booklet No B-12

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# THE FARMERS MAIL AND BREEZE

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



Volume 43  
Number 10

TOPEKA, KANSAS, MAY 17, 1913.

Subscription  
\$1.00 a Year

## A NEW NATIONAL POLICY FROM OUT OF THE WEST

FOR SOME time it has been pretty generally admitted that the man who farms has not been getting his rightful share of the money which the "ultimate consumer" pays for farm products. It has been equally apparent that the price paid by the consumer has been out of all proportion to what the producer has received. The reasons given have been almost as numerous as the number of men who have opinions on the subject. While the majority agree that our system of distribution necessitating so many "middlemen," is largely to blame, many other theories of the cause of the "high cost of living" have been evolved. For years the West has been struggling with the problem of distribution and experimenting here and there with remedies.

To do a little sifting of the chaff and get at the grains of fact a Congress of Marketing and Farm Credits was called in Chicago, April 8, by the publishers of Western farm papers. Farmers, stockmen, fruit growers and their representatives came from all parts of the United States to discuss the various causes for the low price which the producer is receiving and the disproportionately large amount which the consumers are paying. After three days in which co-operation, cheaper money, better methods of selling and many and varying theories and opinions were considered, the meeting appointed a committee to go to Washington and confer with the president, the secretary of agriculture and congress in regard to establishing a national marketing bureau that should deal with methods used in marketing crops and their ultimate disposal.

### COMMITTEE OF 12 TO WASHINGTON.

It was my good fortune to be one of the committee of 12 appointed to carry this matter to the national capital. All members of the committee were men representing agricultural interests. They were anxious that steps be taken at once to give the men who farm, the "square deal" for which they have so long been asking in vain. We arrived in Washington April 10, and immediately laid our cause before the leaders of the nation.

Our conference with President Wilson, Secretary Houston and members of the agricultural committees of congress convinced us the administration at Washington is fully awake to what is now considered one of the most vital questions before the American people, the distribution of farm products to the consumer, unchecked by the middleman's interests. It is doing everything in its power to hasten the establishment of a federal bureau of markets. We found that plans for this new branch of the government service, authorized by the last congress, are being rapidly completed by Secretary Houston, of the department of agriculture, and that a thorough investigation of the relations between the producers and consumer of the country is already well under way.

Secretary Houston informed me that several weeks must elapse before all the details of the bureau's work can be elaborated, but that the officials of the department of agriculture are already aware what preliminary steps must be taken in this campaign, which has for its ultimate object the reduction of the high cost of living. I was shown an elaborate report on conditions that surround the business of farming.

### Birth of a Nation-wide Movement to Finance American Farms and Market Farm Products Direct

BY ARTHUR CAPPER

Publisher of Farmers Mail and Breeze

It had just been completed by a committee made up of the heads of the present bureaus of the department. This report has been approved by Secretary Houston. I found that frequent conferences have been held between the secretary and the president during the last 30 days, and that the chief executive has evinced an unusual interest in the subject of co-operation and the great movement to promote efficient distribution, economical marketing and reduced expenses between producers and consumers.

The president told our committee that he is firmly of the opinion the business of farming at the present time is not commercially as profitable as it is entitled to be considering the labor required. He believes the government should take upon itself the task of revealing at once the conditions confronting the American farmer and do all it can to supply the proper remedies. In support of their attempts to get a fair price for their produce, President Wilson will insist that effort be made to impress the farmers of the country with the advantage of federal co-operation.

At the conference our committee strongly emphasized the fact that for many years the department of agriculture, the agricultural colleges and the agricultural press of the entire country have concentrated their efforts on an endeavor to acquaint the farmer with the best methods of crop raising and farm management. In the opinion of the committee, however, the time has now come for Washington to assist the man on the farm to get a market for his produce after it is raised. It was pointed out that with the market controlled, or purposely limited by the middlemen interests for the purpose of gain, more abundant crop production is without avail and the prosperity of rural communities greatly hampered. I was glad to find both the president and the secretary of agriculture heartily agreed with our committee in this view.

The preliminary work of the new bureau of markets will be modest in scope, in keeping with the limited appropriation of \$50,000. During the first period of its growth, it will be known merely as the office of market investigation. I believe, however, the work of the office will prove of such importance and value that the bureau will grow rapidly and that the next congress will be ready to give the administration all the help it needs to work out a more economical and efficient system of marketing.

I learned that three specific subjects will receive the attention of the market investigation:

First, the preparation of an inventory of all the existing agricultural organizations, with special reference to those engaged in marketing farm products.

Second, the discovery of means whereby the department of agriculture can assist the rural com-

munities in forming organizations for the direct marketing of their produce.

Third, careful and critical investigation of the state and national laws effecting such organizations.

As the bureau grows, it is to organize a market news service for the transmission of information connected with its co-operative marketing campaign. I consider this extremely desirable. The bureau will give special attention to handling perishable produce, the collection and distribution of farm products, their supply and demand in the leading markets, the methods and cost of distribution, and transportation facilities.

### TO STUDY MARKETING IN KANSAS.

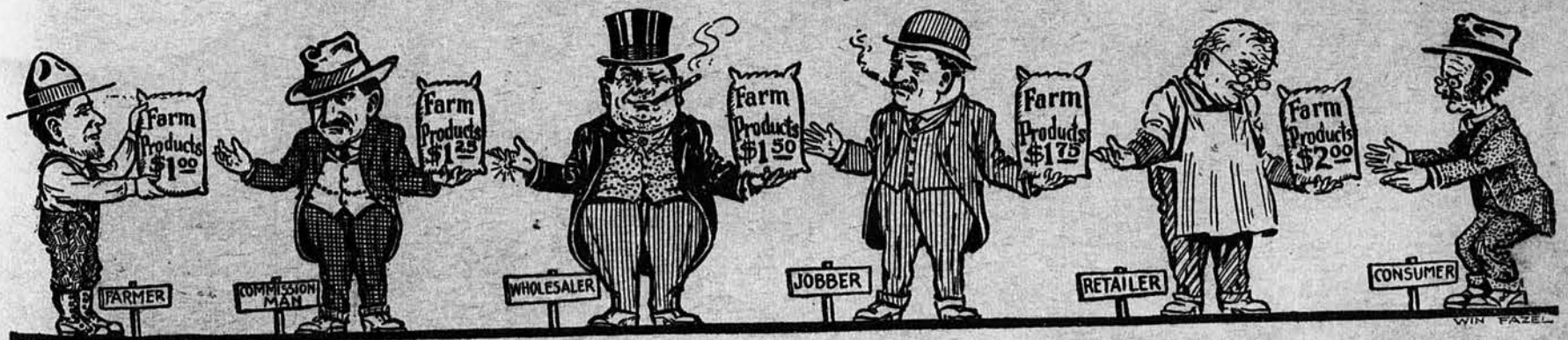
Secretary Houston informed me that he proposes to select three communities for the study of the transportation problems. One will be in New England, one in the Southwest and one in the Southeast. In the Southwest it is not unlikely that a Kansas community will be chosen. Shipments of farm products will be traced from the time they leave the producer until they reach their ultimate destination. Methods of handling, packing, and shipping the different commodities, the need of better transportation facilities and the part the middleman plays in the system of food distribution will be noted. With this, an inquiry will be conducted into the farmer's disadvantages in respect to taxation, co-operative organization and the procuring of credit.

I found both President Wilson and his secretary of agriculture deeply interested in the work of the American Commission on Agricultural Co-operation, a delegation of 100 distinguished Americans, including scientists, agricultural college professors, prominent farmers and agricultural editors, who have just sailed for Europe. Secretary Houston believes this commission, upon its return next fall will give the high cost of living the hardest jolt it has ever received. The commission's chief aim is to work out a co-operative plan by which cheap money can be placed at the disposal of American farmers in order to increase agricultural production and lower the cost of producing food.

This commission, headed by seven federal commissioners bearing the credentials of President Wilson and Secretary of State Bryan, will make a report to congress next December upon the practicability of establishing farmers' co-operative banks and a mortgage bank system in the United States, copied after the agricultural credit systems of European countries. Besides the federal commissioners, there are delegates representing about three-fourths of the states of the Union, who will report to a committee of nine governors appointed at the last conference of the state executives. In this way official recommendations will be placed before congress and state legislatures urging a consideration of the credit requirements of farmers, both as a means of assisting them and of relieving the consumers of the country from their burden.

Secretary Houston told me that he hopes to see a supplementary banking system built up which will be controlled by the farmers and which will divert a large portion of the savings of rural communities to the development of the farms. In Germany, he de-

(Continued on Page 27.)



## The Farmers Mail and Breeze

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### 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.**

**PROHIBITION** I have no hesitancy in saying that **IN KANSAS.** I believe the prohibitory law is more generally enforced in the state of Kansas than it ever has been in the history of the state.

Here in the capital city we have this satisfactory condition: The courts are not showing leniency to law breakers. The county attorney is not only an able lawyer and experienced prosecutor but he is really and earnestly in favor of enforcing the law. The sheriff is making a most excellent record. He is not waiting for somebody else to show him where the law violators are. He and his deputies are hunting them up.

The police force of the city is working in good faith in harmony with the county attorney and sheriff and with that sort of a combination the road of the jointist and boot legger is rocky indeed. The passage of the Mahin law has helped mightily in the matter of enforcement.

What is true of Topeka is true, I think, pretty generally all over the state of Kansas. Public opinion in 95 per cent of the counties and towns of the state has reached the point where it sustains the officer who is willing to do his sworn duty.

There was a time in a good many counties in Kansas when the county attorney or sheriff who really made an honest effort to enforce the law hurt his popularity to the extent that he could not be re-elected. Officers were elected with the understanding that they would not enforce the law, and they did not. Joints were run openly under the eyes of the officers who had taken solemn oaths to enforce the law. Mayors and city councils openly made deals with law violators by the terms of which monthly fines were collected and the saloons permitted to run without interference and public sentiment was so dulled and debauched that it sanctioned this partnership with crime.

Times have changed. I do not know now of a single city or town that makes such an arrangement. There are still a few places where the officials do not do their duty and where the law is violated with their knowledge and consent, but the number of such places is small and growing smaller until it is safe to say that the prohibitory law is as rigidly enforced in Kansas as any other law on the statute books.

The logic of events is against the saloon. A high license system is indefensible for the reason that it is based on the theory that a wrong can be condoned by the payment of money. The moral argument is no longer the only one that tells against the liquor business. The powerful business interests of the country have joined the forces that battle against the saloon. Drunkenness or even occasional drinking is becoming more and more a bar to profitable employment, not as a matter of sentiment but

because it is a recognized fact that liquor impairs the efficiency of the man.

With morality against it, with science against it and with business against it, the liquor business is fighting a losing battle.

When the city of Dayton was swept by the flood, business paralyzed, and the whole town in a state of chaos, it was found necessary as the first thing in the way of restoring order to shut up the saloons. That was a knockout argument against the business when it was found necessary to the protection of society to establish temporary prohibition, for the average man when he stops to think will say that any business that is so dangerous that it must be stopped in time of stress like that is a business that should be stopped at all times.

### WANT A BETTER SYSTEM.

In a recent address President Waters, of the Agricultural college makes the somewhat startling statement that the system or rather lack of system in the farming business of this country is steadily depleting our soil and that unless the condition is remedied it is only a question of time until the farms of the country will not be able to supply the food called for by the rapidly increasing population. And while this touches our pride the candid observer must acknowledge that President Waters is telling the truth.

Men who are not very old have lived long enough to have seen areas of farming country once exceedingly fertile become so exhausted that the farms would produce only meager crops, not enough, even at the advanced prices of farm products to make farming on this exhausted soil a profitable business.

President Waters complains that farmers as a rule do not take kindly to suggestions made by agricultural experts as to methods by which the fertility of worn out lands can be restored or the waste of unwise cultivation stopped. That may be true. If it is then there must be some reason for this indifference or positive antagonism.

The farmer is not tilling his land for his health. He is, as a rule, as ambitious to make money as men engaged in other lines of business and if it can be demonstrated to him that a change in the method of farming his land will put more money into his pocket and at the same time make his farm more fertile it is entirely unreasonable to suppose that he will deliberately refuse to do the thing which is evidently to his financial advantage. I think the trouble is that there has been too much theory and too little actual demonstration.

Human nature is very much the same among all callings and professions. It is natural to resent professional advice, and there is no man who more naturally resents it than the farmer. His business is in a way the most independent business in the world. He is the master of it in the sense that he manages his farm according to his own notion and is in reality as well as theory the boss.

That is not true of most other lines of business. The bank president is counted quite an important personage, but after all he is subject to the orders of the board of directors. The president of a big railroad draws a great salary and rides about in his private car, but after all he is the servant of the men who furnish the money to finance the road and if he goes counter to their wishes off goes his official head and somebody else rides in his private car.

The farmer however, so far as the management of his farm is concerned, takes orders from nobody. He puts in such crops as he sees fit, raises the kind of stock that seems to him best to raise, farms as much or as little of his land as he wants to farm and cultivates it according to his own notion. What is more natural than that a man with this untrammelled authority over his own possessions should resent any interference with his authority? That to my mind explains why the farm adviser idea is so slow in getting a hold among the farmers.

But this same man who has absolute dominion over his own acres is just as anxious as anybody else to increase his income. When he sees from actual demonstration that some other farmer in his neighborhood has struck a good thing he is ready to adopt it. That has been demonstrated a good many times. For example: A farm adviser might have gone out and advised the building of silos and talked till he was black in the face and the farmers would probably have paid very little attention to him, but when here and there enterprising farmers commenced to build silos and demonstrated that they were money-savers the silo fever commenced to spread all over the country. Why? Simply because actual demonstration proved that the silo was a good thing.

I have had a number of letters from farmers all over the state of Kansas knocking on the farm adviser idea. There are those who will criticize these objectors and say that they are not progressive, that they are old fogies and not willing to adopt new ideas. I think not. Here is the way they look at the matter: They resent the idea of professional agriculturists coming out and with a superior air of wisdom advising them what to do and how to run their business. And that feeling is entirely natural.

But if the agricultural expert can show by actual demonstration that certain kinds of crops, cultivated in a certain way in a certain locality will make more money per acre than the old methods have made you will soon find the great majority of the farmers in that locality adopting the new method. The

farmer must be shown and that in my judgment is the proper business of the Agricultural college.

It is not enough to raise certain kinds of crops on the state lands up at Manhattan. The result of an experiment there may not prove anything so far as land 100 miles from Manhattan is concerned. The Agricultural college in my opinion must go out to the farmers, not with advisers or with institute trains, though they are of some benefit, but it must go out with actual demonstrations. It must do demonstration farming in all parts of the state and show that professional training at the college not only makes a man able to produce bigger crops than can be produced without the training, but also at a greater profit.

It is not sufficient to show that a greater yield of wheat or corn or any other farm crop can be produced by college methods, but that it can be produced at a greater profit. It is evident enough that it is no advantage to the farmer to double his yield if at the same time it costs him double as much per bushel to produce the crop, but if it can be demonstrated that by improved methods of cultivation the farmer can increase his wheat crop from 15 bushels per acre to 30 bushels per acre and at a cost very little greater than the cost of producing the 15 bushels, there will be no trouble about getting the farmer to adopt the better plan.

And here is another thing that must be kept in mind by our agricultural experts: The average farmer is cramped for means. He cannot always buy the latest and most improved farm machinery even though it is evident that it would in the long run be economical to do so. The experiments must be fitted to conditions as they exist, not as the expert might like to see them.

Then there are certain old prejudices that must still be reckoned with. It used to be a common belief that education spoiled a farmer and to some extent that impression still prevails. Very often you will hear this remark about an agricultural writer among farmers, "Oh, yes, he can sit at his desk and write stuff that reads well, but when did he ever actually demonstrate that he could run a farm and make it pay?" And men and brethren, there is some considerable meat in that question. I have known men who could write on farm topics in a very entertaining manner and give columns of advice that sounds well, but they never actually made a success of the business of farming.

Talk is all right in its way, but it is actual demonstration that counts. It takes more practical knowledge, more industry and more good hard sense to be a successful farmer than is required in almost any other profession that I know anything about. I would have been a farmer myself if I had believed that I had the qualifications. But to boil this all down into a few words; the farmer must be shown by actual demonstration if you want to reach him.

Let me say finally that this is not intended as a criticism of our Agricultural college. It is growing broader and more practical in my judgment every year and trying more and more to improve farming conditions by actual demonstrations.

### AS TO THE STANDING ARMY.

An old friend of mine who some time ago became interested in a plan I suggested for a change in our military methods, has asked me to re-state my position.

To begin with, I may say that the whole theory of standing armies now in vogue is repugnant to me. If I had it in my power I would disband every standing army as they are now constituted in the world and dismantle every warship, except such few revenue cutters as might be necessary to do police duty along the shores of this and other countries.

I have watched the course of our regular military establishment and have become convinced that it would afford little protection in case of actual warfare with another nation of any considerable size and power, and that in time of peace it is not only a vast and useless expense, but is also a breeder of crime and lessens that feeling of patriotism that must be depended on to preserve our government if it should ever again be seriously menaced from without or within.

Within 10 years the records show that nearly 50,000 men have become deserters from our comparatively small regular army and many thousands more from our navy. All of these young men have become hunted criminals in the eye of the law with a price set upon their capture. They are practically barred from the ordinary privileges of citizenship. They dare not engage in any legitimate line of business under their own names for fear of capture and imprisonment. They are apt to become wandering vagabonds and a real menace to the peace of society, although few of them probably were really criminals at the start or even had a criminal intent when they deserted.

We know also that under present conditions the uniform of a private soldier in the regular army instead of being a passport to good society is a bar and the young man who enlists discovers that he is practically a social outcast.

Officers and men at the army posts are kept year after year in a state of idleness, or if they take exercise and go on toilsome marches, they are exercises and marches that lead nowhere, that have no definite and particularly useful purpose. There is this exception to this general rule: The army

engineers have proved themselves efficient and useful on public works.

An army engineer has been at the head of the vast enterprise of digging the Panama canal and has made a record that commands the admiration of the world. Other army engineers have not become so famous but they have proven themselves honest and efficient. They have been given work that is worth while. The officers and men at the army posts are not given work that is worth while.

Why not revolutionize the whole system? Why not make our military establishment the most efficient and most useful in the world? Why not do away with the desertions and make the uniform of the United States an honor instead of a disgrace? Abolish the present system of military caste. Make the organization the greatest and most practical school in the world. Establish a course of study running through six years. Make it both educational and industrial.

When the young man enlists under the new system he will begin at once on a course of work, education and military training. He will have, say four hours of industrial work, six hours of study, two hours of drill, four hours for meals and recreation and eight hours for sleep. If the young man is not satisfied with this magnificent opportunity to get the best practical education in the world, he will not need to desert. He will be given the opportunity to resign from the service and some other and more ambitious young man can take his place.

I would have the minimum age for enlistment placed at 16 years and the maximum age at not more than 20. At the end of the six-year term a discharge paper would be issued to the young man and he would then be eligible to appointment as a commissioned officer and instructor. The commissioned officers and instructors would all be chosen from these men who had enlisted as privates and taken the course. If the graduate did not desire to continue in the service after the time he was entitled to final discharge he would not need to do so and could only continue in case his service was needed as an officer and instructor.

Socially no distinction would be drawn between ranks, but while on duty each man whether officer or private would be required to respect the rank of his superior officer. No longer would there be an army of disgraced and hunted deserters skulking and hiding from arrest. The army would actually pay its way in useful service. When the government was engaged in public works the men would work in relays of four hours to each shift, giving the young men practical as well as experimental and theoretical knowledge of work.

To belong to this sort of an army would be an honor. In the course of a few years the country would find itself with a magnificent body of trained, efficient men, who would be turned out at from 22 to 26 years of age, fit for any line of work in civil life and at the same time trained for military duty if the country should ever be unfortunate enough to need their services. There would be no West Point or Annapolis military aristocracy, for all officers and instructors would graduate from the ranks.

I would abolish the pension system except in cases of men injured in the service either by wounds, accidents or disease. The fact that the government had given this magnificent education and training would of itself make the man who had gone through the debtor to the government rather than the government debtor to him.

**NEW BOOK BY A KANSAS MAN.**

The other day I was handed a new book with the title "Doc Williams" written by Dr. Lerrigo of this city. I have read the book through from "kiver to kiver" and while I make no pretensions to being a finished literary critic I will say that the story pleases me. It seems to me to be one of the best written stories ever put out by a Kansas author.

"Doc Williams" is a kindly, conscientious but unlearned man, who has a spring out of which oozes petroleum oil. Doc firmly believes in the supernatural healing power of this spring and uses it for all ailments. He is a born nurse and his cheerful disposition and simple faith, coupled with his native ability as a nurse do wonders in the way of restoring many people to health, whose troubles are more the result of disordered imaginations than of some real organic difficulty. While a good many called the old "Doc" a quack, he was not a quack in the sense that he was trying to deceive his patients. He thoroughly believed in his own remedies.

Next to the old doctor the hero of the story is his adopted son, a poor little waif that he found who had been thrown off a railroad train on which he was beating his way. The boy, a poor, half-starved lad of 11 or 12, who is picked up suffering from a broken arm and other hurts and bruises, is cared for and adopted by the old doctor and his sister who is his housekeeper.

The boy is educated by the old doctor and has the greatest affection and reverence for him and faith in his remedy until education forces him to the conclusion that there is really little or no healing virtue in the mysterious oil and then comes the struggle between his love for the old man and the conviction that has been forced upon him.

Of course there is a love story in the book. The boy falls in love with the daughter of a regular doctor, who respects the old doctor as a man, but has no confidence whatever in his supposed reme-

dies. The course of true love doesn't run smooth but it finally comes out all right and the young man gets the girl. Incidentally the old doctor is the possessor of a "mad stone" and believes implicitly in its virtues.

The author of the book, like all regular physicians, insists that the "mad stone" has no healing power. The book is of course written from the doctor's standpoint which may or may not be correct, but it takes a broader view than most physicians are willing to take and ought not to offend even those who have it in for the medical profession on general principles.

Speaking of the mad stone mentioned in this book, reminds me that a subscriber from La Cygne, Kan., E. P. McCarty, has sent me a "mad stone" which he believes has the power to cure bites of mad dogs and venomous serpents. His letter accompanying the "mad stone" reads as follows:

Editor Mail and Breeze—Some time ago we saw an article in the Mail and Breeze that stated you had never seen a "mad stone." Now, I am sending you one. This stone has never been used but I have a mate to it that has been used on myself for a snake bite and on a girl for dog bite and we know that in both cases it proved effective and absolutely drew the poison out so that never since have there been any bad effects from the bite.

Now, should you ever have occasion to use this stone, first boil it in sweet milk. Then if there is any scab take off and apply the stone and if there is any poison there it will stick like a brother for some time. Then boil in milk again and still apply until it will not stick any longer.

E. P. McCARTY.

La Cygne, Kan.

**A PROTECTIONIST ASKS QUESTIONS.**

Editor Mail and Breeze—I am well pleased with the fair and impartial way in which you handle questions of public interest in your editorial comment. Will you please discuss or answer a few questions as to the Underwood-Wilson tariff bill?

The said authorities have declared that "the primary object of the proposed measure is to benefit the consumer," and if I may add, to the detriment of the producer. Is not this class legislation of the most vicious kind? Is there any reason to believe that the Wilson-Underwood bill will not prove as disastrous as the Wilson-Gorman act did 20 years ago?

If the new law reduces the cost of living as its sponsors say it will, is it not a self-evident fact that the burden will fall altogether on the farmer and the laboring man (the producers) in the form of low prices for farm products and lower wages?

Does a farmer have any reason whatever to complain about the high cost of living? If a farmer does not produce more than he consumes what will be the ultimate result even if the price of living is reduced one-half? The difference in cost of what the farmer produces and what he consumes represents his profits and any lowering of the cost of either is an inducement to him to consume more and produce less.

So will not the foreign manufacturer, wool and sugar grower, etc., be benefited mostly by the iniquitous bill being forced upon us by the wicked Democratic caucus methods?

Mind I am not attacking all Democrats, for some of them are good Protectionists. But their system and their leaders, Wilson, Underwood and the majority of the ways and means committee, are forcing through with a total disregard of consequences and despite the protest of millions of producers. Because they have the power and were placed in that position by their opposition being divided.

I don't want to turn loose. But it does seem foolish that they would repeat the same mistake that turned them out and kept them out for 16 years. Mr. McNeal, do you not think that a tariff commission as proposed by the Progressives is a proper thing so that the tariff can be adjusted in a way that will equalize as nearly as possible, the difference between the cost of production at home and abroad?

LAWRENCE DE VINE.

Geronimo, Okla.

Not having examined the Underwood bill I cannot give an intelligent opinion of it. It is also probably true that if I were to read it through I would still not have a very clear understanding of it or what the effect of it will be on the business of this country.

I have felt that a good deal was loaded onto the Wilson bill that it was not responsible for. Hard times commenced in this country before the Wilson bill was enacted and while it may have made the trouble worse it could not be charged up with all of the depression. It seems to me that we get considerably confused about the terms producers and consumers. It is impossible to divide the people of this country into two distinct classes, producers and consumers. The majority of the people belong to both classes. In other words they are both producers and consumers.

I have always felt and feel now that a reasonable degree of protection is necessary to the prosperity of industry in this country. Vast factories are being built in Japan. When China gets its government well organized vast factories will certainly be organized in that country. It is idle to say that Japanese and Chinese workmen cannot be trained to be as effective as factory workers in this country. They are willing to work long hours at what would be considered starvation wages in this country.

As a result factories in China and Japan will certainly be able to produce goods cheaper than factories can produce them in this country unless the labor cost here is reduced to somewhere near the cost over there. If therefore the goods produced there are permitted to enter our markets on equal terms with goods produced here the result seems to me to be inevitable. The factory on this side would have to reduce its cost of production or go out of business.

The trouble with the protected industries in this country is that they have abused their privileges. While wages in these protected industries have been high as compared with the wages paid, for instance,

in Japan or in many parts of Europe, they have not been what they ought to have been.

It is a notorious fact that wages in factories getting the most protection have not been as good as the wages paid in industries that received little or no tariff protection. In other words, the profits that should have gone into the pay envelopes of the workers have too often gone into the pockets of the factory owners. It is this selfish greed that has done more than anything else to build up and keep alive a spirit of antagonism to the doctrine of protection.

But while freely acknowledging the justice of most of the criticism of these protected industries, I am not in favor of destroying them and I cannot help thinking that if all protection is removed the result will either be their destruction or the lowering of the cost of production to a level of the cost of production in Japan and later in China.

The progressive theory is the regulation of these industries, permitting a reasonable return to the factory owners for the capital, brains and time they have invested in building up their factories, but whatever is above that shall go into the pay envelopes of the laborers. They would also require that conditions in these factories be made as sanitary and comfortable for the workers as possible. If this condition could not be brought about by supervision and inspection then the state or government should take over the factory and operate it as a public institution.

I am opposed to the methods of tariff revision that have been in vogue in this country for more than half a century and the method that is being followed now. When the whole tariff system is taken up and considered at one time it necessarily results in trades and dickers. No schedule is considered on its own merits but is hooked up with other schedules and trades are made to favor certain interests whose support is necessary to make the whole bill go through.

That was the case when the McKinley bill and the Dingley bill and the Payne-Aldrich bill were being considered and the same thing is being done right now. There is no reason or justice, for example, in putting wool on the free list and continuing a strong protective duty on goat hair. If the raw material should be free in the one case it certainly should in the other. It is the result of a political trade, that is all. The method is indefensible now and always has been.

The progressive idea is to take up a schedule at a time and let that be decided on its own merits and that idea is certainly right for more than one reason. First, it would prevent trades and dickers; second, it would enable the average congressman to know what he was voting on and to vote with a reasonable degree of intelligence; third, it would not throw the whole country into a state of uncertainty, as the present method of revising the tariff does, which either precipitates an actual panic in business or at best causes a slowing down and temporary stagnation.

I think there should be an expert tariff commission, non-partisan in its makeup which should furnish the information on which the members of congress could rely. Under such a system business would go on from year to year undisturbed so far as the tariff was concerned. Of course other causes might affect and would affect business either favorably or unfavorably, but the tariff question would not.

**GOVERNMENT RAILROADS IN ALASKA.**

Before vacating the office of president Mr. Taft declared himself in favor of the construction of two main lines of railroad through Alaska by the government of the United States. The engineers estimate that even with the tremendous difficulties that will have to be overcome in building a railroad in that country the cost will not be more than \$35,000 per mile.

The government when it builds is not given to cheap construction therefore it is fair to assume that the engineers, who have the reputation of being among the very best the country affords, have not figured on poor and cheap work.

But if the government can build a road up there in the Arctic regions where the difficulties are so enormous, where the climate is so forbidding and where supplies have to be transported such a distance while the road is being constructed, for \$35,000 per mile it is certain that most of the privately constructed roads in the United States have cost first and last at least twice as much money as they should have cost.

If every transcontinental road in the United States had been constructed by the government and no subsidies had been given to privately owned railroad companies the roads would have been vastly better built at half the cost of their construction under private ownership and the vast domain given to the railroad companies would have been open to homestead instead of enriching private land speculators.

The Farmers Mail and Breeze will be glad to have its attention called to any misleading or untrue statement, if such should appear at any time in any advertisement in its columns. Readers are requested to assist in protecting themselves and legitimate advertisers.

## Ways=Means=Results

Worked Out by Mail and Breeze Readers

### Mixing Colors For Cement Work

Mr. Editor—If you wish your cement work to be white, use white cement, washed white sand, or marble dust. To make it black, use 2 per cent Excelsior carbon black; to color it red, mix in 10 per cent best raw iron oxide; brown, 6 per cent best roasted iron oxide; buff, 6 per cent best ochre; blue, 6 per cent ultra-marine. The colors should be mixed in the cement before any water is added. Venetian red or lampblack cannot be recommended for coloring cement.

Brashear, Mo.

M. B. Sherwood.

### A Result of Close Inbreeding

Mr. Editor—I noticed the inquiry in the Mail and Breeze from W. H. H. Garfield county, Oklahoma, concerning the cause of the knots on the heads of his pigs. I had the same experience. The cause is too close inbreeding of parents, usually the sire. I bought a boar several years ago and did not raise the question of close inbreeding. Half the pigs in this boar's litters had the knots on their heads as described by W. H. H. Most of them died soon after farrowed. I investigated and found the boar had been closely inbred. I used another boar and the pigs showed no more knots.

M. McCauley.

Route 2, Doniphan, Mo.

### An Oklahoma Rent Contract

Mr. Editor—You speak of contracts between landlords and renters, with stock held in partnership, and ask for information concerning the making of different contracts. Here is a contract I made with a tenant: I furnish him a quarter of good bottom land, the work horses, machinery and am building a silo for him. He furnishes his labor and half of the horse feed.

The products of the farm are to be divided as follows: If he sells the grain or hay I get two-thirds, he gets one-third. If he feeds it to stock owned in partnership, we divide the increase equally. I charge him 8 per cent interest on his half of the principal invested, or to be invested, in the purchase of stock. We started off with 7 purebred Poland China gilts and will try to pick up a bunch of calves or yearlings through the summer to which to feed the silage. From the way cattle and hogs are going I believe this will be a better contract for both of us than the usual way of selling all the corn and hay in the fall and dividing it one-third and two-thirds.

Francis Borelli.

Route 1, Dover, Okla.

### Soil Inoculation For Alfalfa

Mr. Editor—The literature sent out by some of the companies advertising a substance to inoculate soil for alfalfa, is discouraging, or would be if we did not know better. One firm offers to inoculate the soil for \$2 per acre, declaring no alfalfa can be grown unless the soil is inoculated. In this part of the country we have been growing alfalfa on almost every kind of soil for 18 years, cutting from three to five crops a year. We have never had alfalfa fail where the ground was properly worked. Inoculation is not needed here; just get the foxtail and crabgrass out of the way, put your ground in the proper condition, and sow in April or not later than August 20.

Z. Peffley.

Eldorado, Kan.

In a certain sense it is true that alfalfa will not grow unless the soil is inoculated. That is, the bacteria must be in the soil. If alfalfa bacteria, or enough of the bacteria, are not present in the soil their presence must be invited or encouraged. Sometimes growing a crop of Sweet clover will be sufficient. Another way is to work in some moist soil from an old alfalfa field. This soil must not be permitted to dry or the bacteria will be destroyed. Still another way is to use "cultures" produced in the laboratory from the bacteria.—Ed.

### Developing Pigs For Breeding

Mr. Editor—The pigs I save for breeding are fed for growth of frame and bone. They should have a feed that contains a large per cent of protein. For this purpose few feeds are equal to Spanish peanuts. They are rich both in

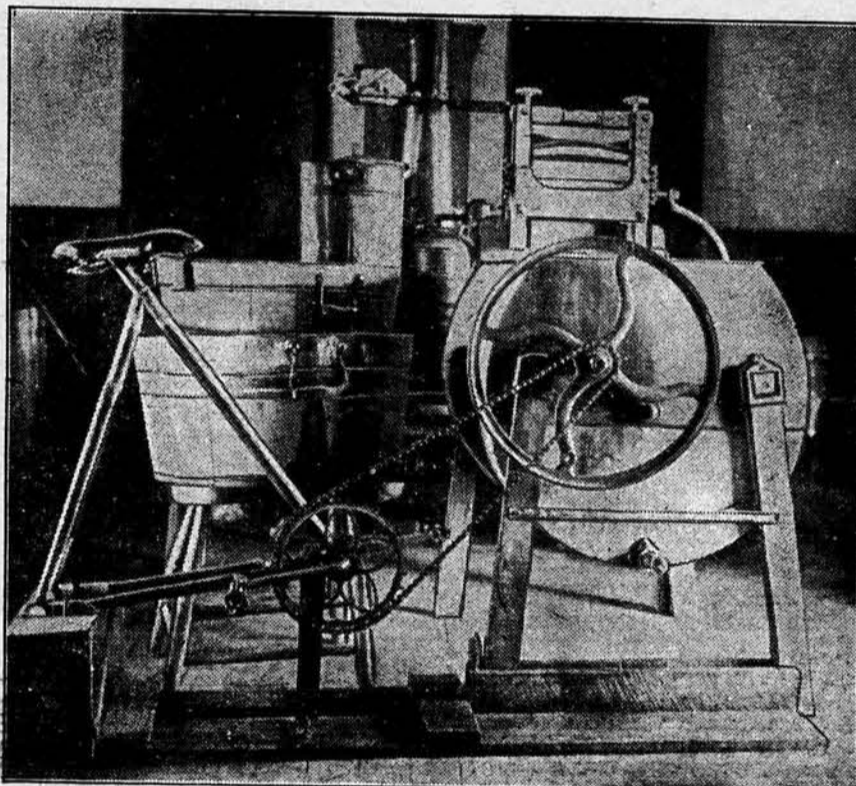
protein and fat. At 8 months the pigs should begin to show length of body when it is well to change to a mixed grain ration with 10 per cent oilmeal or tankage. Corn, barley, and oats ground together make a good grain mixture. Mix thickly with skim milk or water and feed before fermentation sets in. Skim milk is far the best. Where one has corn and does not want to buy the mill feeds, 80 per cent corn meal and 20 per cent tankage will make up a well-balanced ration.

In summer the treatment should be about the same as for market pigs. Evergreen sweet corn fed in roasting ears is excellent for pigs in late summer and fall. Barley and rye make fine early spring pasture. In Oklahoma, Bermuda grass pasture will furnish some sustenance all the year around but it should be supplemented by other ranker growing crops in early spring.

Fort Gibson, Okla. J. M. Smith.

### Bicycle Gear For the Washer

Mr. Editor—I am enclosing you a photo of a washer geared to a bicycle frame. (See illustration elsewhere on this page). It is much easier turning the washing machine with this attachment, as one can turn much slower and



An Ellsworth county Mail and Breeze boy's scheme for making the washer run easy and do better work. Even with slow pedaling the washing machine is turned three times as fast as by hand. See description elsewhere on this page.

still run the machine faster than by hand. The reason is the higher gear. By hand power one has to turn the crank once while the bicycle gear turns it three times. This greatly facilitates washing, as machines of the laundry type must be run quite fast to do good work. It is so easy to work the treadles that I always read when I help wash as it does not inconvenience me at all.

I utilized the broken frame of a bicycle. This was bolted to a wooden base, which slips on each side of the legs of the washing machine, so both bicycle frame and washer are steadied.

Ben Satran.

R. 1, Wilson, Kansas.

### Outdoor Cave For Summer Use

Mr. Editor—I built a very satisfactory cave last summer with cement blocks. The blocks were solid and 6 by 8 by 18 inches in diameter. After being laid the walls were plastered on the inner sides. The cave is 10 by 20 feet in size and has a cement floor. The roof is of solid concrete reinforced with iron rods. At one end of the cave I have a chimney made of cement blocks and extending from the floor to 2 feet above the roof. It is open at the bottom like a fireplace and maintains a circulation of fresh air. In stormy weather a piece of tin may be laid over

the top. The lower door to the cave has an opening of 14 by 18 inches, with a door hinged inside, so it will open downward. The outside of this opening is covered with a screen, in order to have ventilation even when the door is locked. There is a surface door with a weight attached to make it easy to lift. A 7-foot post is set in the ground 3 feet back from the door and a swivel pulley fastened to the top. A rope tied to the edge of the door passes over this pulley and the weight is suspended from the other end.

J. E. McCracken.

R 2, Sterling, Kan.

### History of a Prize-Acre of Milo

Mr. Editor—Last season I had the best yield of milo on a measured acre in the contest of the Rawlins county farmers' institute. It won me a free trip to Manhattan as a prize.

After the ground began to crust badly last spring I single-disked my milo with a spike disk. I disked it again, April 15, lapping half of the disk each time. April 20 I single harrowed the ground, then let it lie until May 18 when I listed the seed very shallow. I did not get a stand and on June 2 I replanted with a hand planter. I used the go-devil on it and on July 7 worked the ground with a one-horse 5-tooth cultivator. July 10, I harrowed the acre, lapping the harrow half. July 20 I cultivated it with a two-horse team. The worst was still to come for on August 6 I cleaned the patch with a hoe.

we get 60 to 80 per cent of our moisture in May, June and July, the months when crops are cultivated. The rains will not get down into our subsoils very readily through a dust mulch.

I believe it is better to prepare our soil in such a way that it will drink in all the water possible. We are almost sure to have a reasonably good crop of wheat on sod broken in the spring or early summer. It certainly cannot be because of the decayed grass roots as you will find on examination that very few roots decompose the first season. I believe a good crop is produced because the sod lies there as it was left by the plow and when a dashing rain comes, such as most of our rains are, the water all soaks down into the subsoil. Take a field of wheat crossed by some trail before the land was broken. The wheat on this old trail will nearly always be from 6 inches to a foot taller than the rest. We have a wheat field near town that was once the site of a race track. Last summer you could follow this old track by the growth of the wheat though you were a mile away. The rest of the field was not worth cutting. The wheat was not better because of the packed earth below but because the ground always plows up in clods, leaving the surface rough. When the rain comes it all goes down into the subsoil for future use. I believe less water would be wasted by cultivating so the land would drink in more water than by trying to conserve what we haven't got.

F. O. Hanson.

Grainfield, Kansas.

### Summer Fallowing in Decatur

Mr. Editor—Last year I summer-fallowed 200 acres for wheat. As you know, 1912 was a poor wheat year and I did not reap a large harvest. But I did get 7 bushels of wheat per acre on my fallowed land while the rest was not worth cutting. I summer fallowed 140 of the 200 acres by merely disking twice—once in the spring when the weeds started and again the last of June. I put a shovel behind my disk in order to take out the ridge and to kill all the weeds. The remaining 60 acres were listed in the spring and worked as I worked my corn. The wheat on this ground made 2 bushels more per acre than crop on the disked ground.

Of course, my yield did not pay for the labor, but in a normal year summer-fallowed ground will produce twice as much wheat. When I try summer fallowing again, I shall keep the ground clean until July 1 by disking, then plow 6 or 7 inches deep. By so doing I shall have a better sponge on top to take in the floods we have in July and August. This year I have 225 acres of wheat on ground plowed 7 to 10 inches deep with a tractor, the first part of last July. This soil has plenty of moisture in it and the wheat looks fine. I shall soon be able to tell you what early and deep plowing have done for me.

Frank Hoffman.

Oberlin, Kan.

### A Way to Avoid Sore Shoulders

Mr. Editor—Sore shoulders on horses are in most cases the result of poorly fitting collars. Have your harness-maker fit the collars to the horses. He may be able to move padding and in other ways make the collars over so they will fit nicely. Heavy collar pads are hot. They keep pad and shoulder wet with sweat, and the skin becomes soft and blisters easily. Dirty collars probably cause as many sore shoulders as ill-fitting ones. The ordinary farm hand feels his duty is done if he scrapes the dirt from the collar with the back of his jackknife, and the surface is left rough. A damp sponge used in the evening as soon as the collar is taken off will leave it clean. If this cleaning is followed by a rub with an oiled rag the collar in the morning should be soft and smooth.

Careless driving, jerking the horse out of the furrow and into it again, or allowing him to work with his head around on one side, all tend to produce sore shoulders. If in spite of careful attention a horse's shoulder becomes injured, do not wait until a fistula or an abscess has developed. Seek the advice of a veterinarian while there is still a chance to heal the injury.

H. E. Hagberg.

Route 1, Gothenburg, Neb.

### Working Soil to Catch Rainfall

Mr. Editor—In a recent Mail and Breeze I read of the experiment to show the Corn Club Boys how water percolates upward through packed soil more readily than loose soil. It is certainly a good idea to instill in the boys' minds the necessity of conserving moisture by a surface mulch, but let us go a little further. Here in the semi-arid district

Herrdon, Kan. Dan McIntosh.

[Last year young McIntosh entered his acre of milo in competition for the silver trophy of the Mail and Breeze Top Notch Farmers' club. His yield came within the Top Notch limit, but the prize went to C. M. Gates, Fowler, Kan., on a yield of 66 bushels 24 pounds.—Ed.]

### Cowpeas For Seed or Forage

BY M. F. MILLER,  
Missouri Agricultural College.

THE best time to sow cowpeas for hay or seed is about June 1. A few cool days after they are up is sure to stunt them. For hay sow with a grain drill, 4 or 5 pecks of seed to the acre. For seed 3 pecks are better than 5. A small seeded variety like the New Era will require less seed per acre than the large varieties like the Whippoorwill.



M. F. Miller.

Cowpeas may also be sown for seed with the corn planter and cultivated, making the rows the same distance apart as for corn. Or the rows

may be placed at half the distance of corn rows, by going over the land twice and straddling every row. It is usually necessary in this case to take off one shovel on each gang of a six-shoveled cultivator. Also, if the axle is adjustable to set the wheels so as to avoid running on two rows while cultivating a third.

As a rule a medium to thin soil will produce more seed than a rich soil and a sandy soil more than clay. Varieties like the New Era which is early and has little tendency to vine, will yield more than a later vining variety like the Clay.

#### Planted in Corn and Hogged Off.

Cowpeas may be seeded in the corn at the last cultivation or they may be put in the row when the corn is planted. In the first case they are best drilled in with a one-horse drill at the rate of 2 or 3 pecks per acre when the corn is laid by. To be sure of a stand it is best to lay the corn by a few days earlier than usual. They may be broadcast and plowed in but this method is not so sure as drilling.

When planting in the row the best plan is to use a special pea-planting attachment on the corn planter, now on the market. In this case 1 1/2 gallons of peas will be enough seed. The difficulty in putting the peas in the row is that corn is usually planted about two weeks before it is entirely safe to sow peas. Peas planted in this way will make more seed than if sown at the last cultivation and are especially valuable for hog pasture. Sow the New Era or Whippoorwill varieties where they are to be hogged down, or a vining variety which will twine about the stalks if both corn and peas are to be cut with a corn binder.

#### Varieties to Choose From.

For hay the Whippoorwill, the Clay and the New Era varieties are used. The

#### CLEARED AWAY

Proper Food Put the Troubles Away.

Our own troubles always seem more severe than any others. But when a man is unable to eat even a light breakfast, for years, without severe distress, he has trouble enough.

It is small wonder he likes to tell of food which cleared away the troubles. "I am glad of the opportunity to tell of the good Grape-Nuts has done for me," writes a N. H. man. "For many years I was unable to eat even a light breakfast without great suffering.

"After eating I would suddenly be seized with an attack of colic and vomiting. This would be followed by headache and misery that would sometimes last a week or more, leaving me so weak I could hardly sit up or walk.

"Since I began to eat Grape-Nuts I have been free from the old troubles. I usually eat Grape-Nuts one or more times a day, taking it at the beginning of the meal. Now I can eat almost anything I want without trouble.

"When I began to use Grape-Nuts I was way under my usual weight, now I weigh 30 pounds more than I ever weighed in my life, and I am glad to speak of the food that has worked the change." Name given by Postum Co., Battle Creek, Mich. Read the little booklet, "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

New Era is an early variety and is best when a catch crop is put in rather late. Both Whippoorwill and New Era produce a good amount of seed although the New Era is usually the highest yielder. The Clay is a later vining variety good for forage but not a heavy seed producer.

Cowpeas can be threshed with perfect success only with a pea or bean huller. A wheat thresher cracks the peas badly, but may be modified and give fair satisfaction by using a large pulley on the cylinder to reduce the speed, while the rest of the machine is geared to run at the usual rate. A part of the concave teeth may also be removed with good results, but a pea huller should be used if available. The average yield of peas is about 9 to 10 bushels per acre. They may run as low as 6 bushels or as high as 25 bushels.

Columbia, Mo.

### How To Get a Stand of Kafir

BY E. F. CHILCOTT,  
Superintendent of Experiment Substation,  
Garden City, Kan.

[Written for Farmers Mail and Breeze.]

It is more difficult to get a stand of Kafir than of any other sorghum. Usually the germination of Kafir seed is low. Eighty per cent is a fairly good test, but this year fully 50 per cent of the seed will not grow. In planting Kafir try to get a thin but regular stand. A fanning mill with a good set of screens will remove trash and all seed not uniform in size, but a uniform stand cannot be secured unless seed of good germinating power is planted.

A seedbed for Kafir should be sufficiently moist for quick germination. If the seed is planted in dry soil and a beating rain comes before it is up it has difficulty in getting through the crust and much of it will die. Probably the best practice is to blank list some weeks before it is necessary to plant. Then when a rain comes and thoroughly soaks the bottom of the lister furrows, plant the seed in the bottom of the furrows 2 to 3 inches deep, as soon as it is possible to get into the field.

#### Plant the Last Half of May.

A thin stand of Kafir is often due to the Kafir's sensitiveness to cold and to poor soil conditions after planting. Usually it is not advisable to plant before the middle to the last of May. When a small acreage is planted or a particular kind of sorghum is being tried in a new locality, it may be advisable to plant thickly, a seed every 3 or 4 inches in the row, and if the stand is too thick, thin with a hoe. This is not as difficult as it seems. One man can thin 2 acres in a day with a thick stand or 4 to 6 with a stand not so thick. In western Kansas Kafir stalks should stand 10 to 12 inches apart in a row.

#### How to Treat Seed for Smut.

Last season smut was present in certain sections. If new seed has been bought, or if seed has been threshed or fanned with machinery that has handled smutty seed, the seed should be treated for smut. If planting for seed production it is always best to give the seed the treatment for smut. Pour 1 pound (1 pint) of formalin into 30 gallons of water and stir thoroughly. Sprinkle a floor or canvas with the solution, put the seed on the wet floor or canvas and sprinkle the seed with the solution until it is thoroughly dampened. Pile up the wet seed and cover it with a blanket or canvas wet with the solution. Leave the seed covered for two hours, then spread it out to dry. The planting need not be done immediately after the seed is treated, for no injury will result from standing if the seed is thoroughly dried.

Garden City, Kan.

### Bonds For Farm Mortgages

That the farm credit systems of Germany and France cannot be transferred bodily to this country, is the opinion of Dean Price of Ohio's College of Agriculture. He has spent a year studying the co-operative credit systems of both countries and believes a land mortgage bank would serve us better. This institution would neither lend money nor receive deposits, but would give bonds in exchange for mortgages on farm property. These bonds having the standing of state or municipal bonds would easily be negotiable by farmers at a low rate of interest.

I don't want to do without Mail and Breeze.—O. Ethell, Pond Creek, Okla.

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Buy your silo of us, and you buy *direct*, not only from the maker but from the *lumber producer* as well.

## We own forests, railroads and six big mills

There are thousands of acres of timber in our tracts. The fir is the finest in the land. Tall, straight and close of grain. Only the choicest goes into Seattle Silo Staves. They show no knots, sap or other defects. Do not warp, shrink or swell. The toughest, best wearing wood in existence. All the cutting, logging and manufacturing of this timber is handled by us. One continuous operation. One overhead expense. Hence the big saving that we effect in producing cost—and why we save you 40% to 60% on a silo of better quality. Mail the coupon for catalog.

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have patented swinging doors

These are far the best silo doors ever devised.

Quick detachable with special iron cross-bar or hoop connection. The steel bars on the door provide a solid ladder from which hoops can be tightened—the result of a new invention. They close absolutely air-tight. Cannot stick or bind—never have to be lifted. They swing in or out readily on their hinges.

When silos are ordered without additional lumber to make full cars, we can usually arrange to ship with other cars to nearby points.

To one farmer in every township we offer the chance to get a silo, at a great saving, by helping get together a carload order.

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Stacks of ready cash waiting any man of fair intelligence! For baled hay brings fancy prices. And every grower in your district will pay you handsomely to bale his.

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You, too, can earn independence. You, too, can start with small capital and soon pay us from your profits. But you must have the

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Each year hay press buyers are more careful. They demand better machines with bigger tonnage. Yet each year Sandwich sales have gone ahead—by leaps and bounds. For under every working test, the Sandwich beats all ordinary presses 2 to 8 tons daily. 25 tons are an every day job for the Sandwich, and 30 to 40 if you hustle.

#### Gas Engine on Same Truck

This combination makes the Sandwich Solid Steel Motor Press the most complete hay baling outfit in existence. You can't wear it out and it doesn't break down. The heavy steel roller driving chain does away with slipping belts—with their dangers and delays.

Gas Engine is high grade, hopper cooled

If you're interested in Horse Power Hay Presses, steel frame or wood, large or small, ask about our big line of these.

Sandwich Mfg. Co., 180 A St., Sandwich, Ill.

type, gear driven magneto, 4, 6, 8 or 10 horsepower—and develops more than rated.

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Rises high up out of the way of the operator and will stand hard crowding. The motion is slow, steady, sure and strong. And rain or shine the bales come out slick, clean and solid—from 1 to 2 a minute. It's great for wind-draw work.

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This surprising book—free to those who are wide-awake—tells you the enormous profits waiting the touch of your hand. What hundreds like you are doing—you can do. So write for it today.

Can Stop Instantly

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It shows the latest styles in buggies, how they are made, how they are tested in ways no "cheap" Buggy could stand. I want you to have this book. It will please you. Just send your name and address on a postal TO-DAY.

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They last for years and will not rust—can be adjusted to any size stack, will save its cost the first season. For price list and full particulars address,

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434 N. Wichita St., Wichita, Kansas.

**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 seasonable 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.

The weather man may have owed us a lot of wind at the beginning of May but he has fully paid his debt. That was the worst week for wind in a long time.

Here there is no sand in the soil, so the dust blows very little, though sometimes when the mud is deep and the roads a fright, we wish we were again living in the sand. No one place can have all the good features and none of the drawbacks.

It was getting very dry here before that 3-inch rain came. While there was plenty of moisture to bring up corn, the oats and spring-sown grass needed the rain badly. Chinch bugs were thick in the oats and unless the rest of the spring is more than commonly rainy the oats will amount to little. However, we have seen as bad conditions for oats before this and still they pulled through with a good crop.

We are in doubt as to what we are going to do with that 15 acres we sowed to timothy and clover this spring. The clover came up all right and still is there, but the timothy looks as though it would be a failure. It might be we would have been ahead if we had sowed the clover as far as it would go and let the timothy alone.

The clover looks as if it would make about half a stand but we hardly think we can afford to leave it. If the land was in poor condition we might, but it is in good heart and will raise fine corn if the season will permit. So we have about concluded to list the field and plant it to corn. It was fall-plowed and the corn should go in in fine shape.

In this locality cattle were turned out on pasture about May 1. In most cases they went out to feed in plenty, although the grass is not so high as many times it is on May 1. But it has been so dry that grass is good in quality not being washy as in wet springs. For this reason cattle will do well.

We had our gasoline and kerosene tanks filled this week. The agent of the independent refinery makes trips through the country with his tank wagon whenever he can get orders enough to pay him for the time. As many people now have oil stoves and big lamps and nearly every farmer has a gas engine of some sort, it is easy to get enough orders to pay for the trip every month or six weeks. It is handy to have the oil delivered in this fashion.

For good kerosene oil delivered in our tank we pay 8 cents a gallon and for gasoline 16 1/2 cents. This is 1/2 cent a gallon more than it would cost if you went after it yourself, but we do not see how anyone could make an 8-mile trip to town to save 25 cents on a barrel of oil. However, this half cent a gallon pays the oil man, for he brings a big tank with him and sells about 50 gallons at almost every house.

We used to hear it said that the oil of the independent refinery was not as good as that made by the Standard, but we hear no more of such talk since people have tried both kinds. The truth is, there is little difference either in quality or price in any of the different refinery products now sold. A man gets just about what he pays for whether he buys from the Standard or from the independent concern. But we prefer to support the independents as we should hate to see competition cut off.

If the new game law is enforced there are going to be a lot of prairie chickens inside of the next three years. This spring we have seen more of them than in any year we have lived in Kansas. Coming home from a neighbor's the other evening we counted 15 strutting around on a burnt-off piece of prairie. If this lot is allowed to increase nat-

urally for the next five years what a lot of them there will be.

Spring cleaning in the hen house disclosed few mites. For the last year there have not been many in the hen house, but we seem unable to entirely get rid of them. Every few days we clean out the house and paint the roosts and nests with crude oil. This keeps them down so they never do any harm. A new hen house is on the improvement program for this farm before fall and it will have a shingled roof or one of galvanized iron. A galvanized roof ought to be all right for a poultry house. Do any of our readers know anything for or against it, used for this purpose?


The old-style painted iron roof gave all metal roofs a bad name for years, but of late we notice many are putting galvanized roofs on the smaller buildings. The cost is fully as much as shingles, perhaps a little more. We paid \$4 per hundred square feet for the last galvanized roofing we bought. Shingles do not cost as much as that but the cost of laying is enough more so the total is about the same in either case. Shingles take a little more sheeting under them but by rights the metal roofing should have plenty of sheeting on a large roof. On small roofs usually no sheeting is used, but the metal should be well nailed to a stay, every 4 feet at least.

The painted iron roof hardly lasted as long as it was being put on, but the roof of galvanized iron seems durable. We know of one shed that has been covered with it for about 15 years and, apparently, it is good today. This metal roofing must be securely nailed on. The wind plays havoc with it when it gets loose. We do not know that we should use it for any large building, such as a barn, but for the smaller buildings, like cribs, hen houses and cattle sheds, we believe it all right. It turns the rain well, has the advantage of being fire proof, and where it is connected with the ground, forms a protection against lightning equal to a lightning rod.

This dry spring has been a favorable one for our neighbors with the traction plow outfit. They have been making something like 15 acres a day and some days as high as 17. They have a block of five plows pulled by a gasoline tractor. The plows stay right down in the ground and are run deeper than plowing usually is done. They charge \$1.50 an acre for plowing at the depth of 5 inches, which is deeper than the average plow runs in this part of the world. Few farmers plow as deeply as they think they do, but it takes a rule placed at different points along their furrow to convince them of this. This plowing outfit ought to get plenty to do next summer when the ground is hard and dry, and we think it will.

We do not favor deep plowing at all times. For instance, if ground is plowed deeply now and new, raw soil turned up, we do not think it will produce as well as shallow plowing, say at a depth of 3 or 4 inches. We have tried deep spring plowing a number of times on strips through the field and have come to the conclusion that it should not be done too late in the season. If it can be done early in the spring in time for the ground to settle, it is all right, but after all the best time for deep plowing is in the fall when the ground is usually so hard and dry that it is out of the question to do it with the average farm team. It is here that the traction plowing outfit comes in good play and we think it will pay to get the work done in this way if it can be hired as reasonably as \$1.50 an acre. To plow deeply in July or August would take more than that out of any common farm team.

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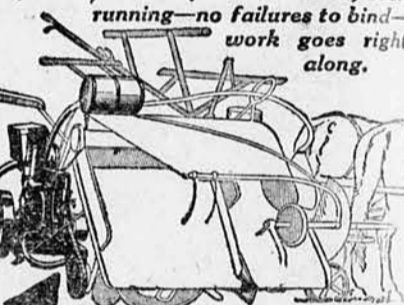
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This new Gilson Engine represents the greatest value ever before offered in a gasoline engine.

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Write today for the proof and the facts. If you are looking for the best engine bargain there is, this is it.

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## BROOMCORN

Will our readers in western Kansas and Oklahoma give us a leaf out of their experience in broomcorn raising, cultivation, marketing, etc.? Take up any Mail and Breeze.

### Best Methods of Planting.

Mr. Editor—Broomcorn is grown to a greater or lesser extent in 61 counties of Kansas. It is especially well adapted to central and western Kansas. It should be planted at about the time sorghum, Kafir, and milo are planted, or about two weeks to a month later than corn, according to weather and soil moisture conditions. In order to insure a good even stand and one that will mature uniformly, uniform soil is necessary. Such seedbed preparation and cultivation as are given corn will answer for broomcorn, except that the cultivation be a little more frequent and not quite so deep. It should be planted in rows from 3 to 3½ feet apart, 3½ feet in the extreme western counties and probably 3 feet in central Kansas, with plants 3 to 4 inches apart in the rows. About 2 to 3 quarts of good pure seed are required to plant an acre. It is advisable to plant in lister furrows, especially in western Kansas, in which event sorghum plates can be used in the ordinary lister. If surface planted the ordinary corn planter with sorghum plates may be used, or the ordinary grain drill with part of the holes stopped up will suffice.

W. M. Jardine, Agronomist.  
Kansas Agricultural College.

### Mature Brush in 60 Days.

[Prize Letter.]

Mr. Editor—I have had several years experience in raising broomcorn here and find it can be planted any day from May 1 to July 28, and still make a good crop under any and all conditions of weather. Last year I planted some broomcorn on May 15, the weather was very dry afterward and it made only half a stand. I made the last planting July 17 when the ground was so dry that the seed would not sprout. On July 28 it rained, the seed sprouted, and in less than 60 days the crop had matured.

This year I don't intend to plant until July 1, for when planted late it will

nor Hodges's unusual political activity: "Governor Hodges has a well organized press bureau, in charge of his executive clerk, S. T. Seaton, which is sending editorial correspondence every week to over 100 newspapers in Kansas. The bureau has been in operation over a month, and each week devotes considerable space to attacks on Arthur Capper.

"In last week's letter, the governor's executive clerk says:

Perhaps no other man in Kansas ever dropped out as a political factor as quickly as Arthur Capper. Nobody now considers him as a force to be reckoned with in the future.

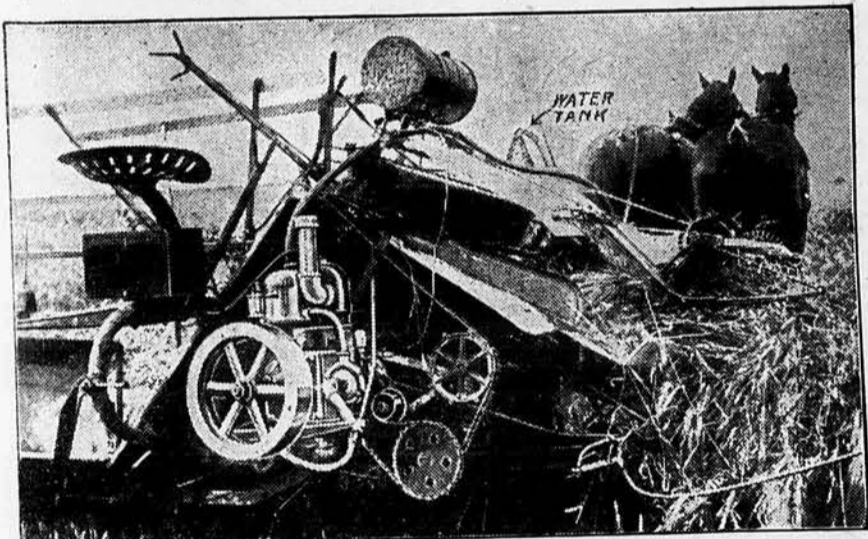
"The general impression around Topeka is that the wish is father to the thought, otherwise the Hodges press bureau would not be giving so much attention to Capper. The Hodges politicians know the feeling prevails over the state that Capper was really elected governor; that in declining to enter into a dirty contest he did the square and manly thing, and for that reason he is thousands of votes stronger now than last November. They would, of course, like to eliminate Capper as a possible candidate next year. There is no other excuse for the constant attacks on the Topeka editor which appear in the Democratic political dope in many Kansas newspapers.

"It is to be said to the credit of Mr. Capper that he pays no attention to the petty methods of the Hodges politicians. Since the election he has attended strictly to his own business, which is the making of clean and reliable newspapers for the people of Kansas, and so far as anyone in Topeka knows, he has not thought of running for governor again; at any rate, he has not confided to any of his friends that he expects to get into politics again. The Republican only hopes he does ultimately decide it as his duty to lead the party again against Democratic mismanagement."

### Binder Engines Save Wheat

Last season North Dakota and Canada had a wet harvest and thousands of acres of wheat were saved by binder engines first used in the western wheat belt.

The present binder engine is the result of experiment and improvement of earlier types. It is an all purpose gasoline engine and is readily attached or



Showing how the general purpose binder engine is attached to the binder. It operates the machine, a great advantage in a wet harvest. The horses have only to draw the binder.

make a finer grade of brush. When planted early in the spring the brush gets too coarse and heavy and turns red. I intend to list mine on wheat or oats stubble, setting the drill to drop the seeds 3 or 4 inches apart so as to have the brush fine. It does not take rich land to grow broomcorn as it will get too coarse and heavy in a wet season. I have raised both the standard and dwarf varieties but will raise nothing but dwarf hereafter.

Last year I plowed some of my broomcorn twice, some once and 10 rows got no cultivation at all on account of the drouth. When I pulled the crop the 10 uncultivated rows made the finest brush and made just as good a yield as the rest of the field. But one should keep the weeds down and the ground clean.

Tulsa, Okla.

John Shoefstall.

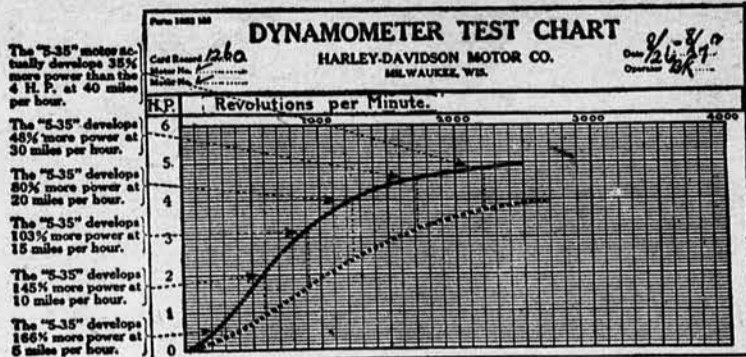
### Hodges's Bureau Knocks Capper

The Stafford Republican of last week made the following comment on Gover-

nor Hodges's unusual political activity: "Governor Hodges has a well organized press bureau, in charge of his executive clerk, S. T. Seaton, which is sending editorial correspondence every week to over 100 newspapers in Kansas. The bureau has been in operation over a month, and each week devotes considerable space to attacks on Arthur Capper.

The picture gives an excellent idea of how the engine is attached and how the connection to the main driving shaft is made. The chain drive has been found best. The engine being fitted with a clutch is in easy and perfect control of the driver. The water tank is placed on the tongue in front to balance the weight of the engine in the rear.

As the binder engine relieves the bull wheel of the burden of its load, it makes wheat cutting possible at wet times when the binder would otherwise "mire down," as the harvesters say. An automobile type of engine, but running somewhat slower, has been found best suited for this work. The 3 or 4 horsepower engine is best.



An Actual Reproduction of Dynamometer Test Chart

## The Most Powerful Single Cylinder Motorcycle Made and Why

It has been conclusively proven time and time again that the Harley-Davidson "5-35" is the most powerful single cylinder motorcycle made. The most accurate means of testing the power of a gasoline engine is by dynamometer. Above is reproduced an actual dynamometer test chart showing power produced by the "5-35" (black line) and that produced by our former popular 4 H. P. model (dotted line), which was acknowledged to be the most powerful single in the world.

Note the tremendous increase in power developed by the new "5-35". Note that it develops 166% more power at five miles an hour, 145% more power at ten miles an hour and 35% more power at forty miles an hour! Do you know that this means that hills that would stall the ordinary single cylinder motorcycle, the "5-35" will take with ease. The Harley-Davidson "5-35" will "pick-up" to forty miles an hour in 190 feet from a standing start. No other single can do this. Its wonderful power development has made the

## HARLEY-"5-35" DAVIDSON

the most popular single cylinder motorcycle made and the consequent demand has been so strong that we must and will actually build more single cylinder machines than any other factory in order to supply the demand.

In the hands of the rider the "5-35" is living up to its factory record. At the Springfield, Ohio, Hill Climb, held October 10th, 1912, Harley-Davidsons won every event. The "5-35" did even more—it not only won in its class but made faster time than any twin cylinder of other make by an average of eight seconds, a performance never duplicated by any other make in any contest whatsoever.

In the San Francisco Reliability Run the Harley-Davidson "5-35" was placed in the same class and time schedule as the twins, the Officials thereby openly acknowledging that the "5-35" was superior to all other singles.

In the Utica, New York Endurance Run October 20th, the "5-35" won a perfect score and was the only single cylinder to climb Tully Hill. The "5-35" went up easily while a number of twins of other makes barely crawled over the top. In the Lynn, Massachusetts twenty-four hour endurance contest the "5-35" was the sensation of the run. It won a perfect score

and climbed the famous Jacob's Ladder. In fact, it was right up with the twins all the time.

In the more recent Savannah 300 mile endurance contest, April 26 and 27, the Harley-Davidson single cylinder "5-35" was the only single to win a perfect score. This contest was so severe that twins entered failed to score perfect, but after the run the officials, after a careful technical inspection, failed to find even a loose screw or nut on the winning Harley-Davidson and pronounced it absolutely perfect mechanically.

These are but a few of the many records which have proven the "5-35" to be the greatest single cylinder motorcycle made.

The Harley-Davidson holds the world's record for economy and is the only motorcycle that has ever been awarded a diamond medal and a 1000 plus 5 score for its super-excellent performance in an endurance contest before the National Federation of American Motorcyclists.

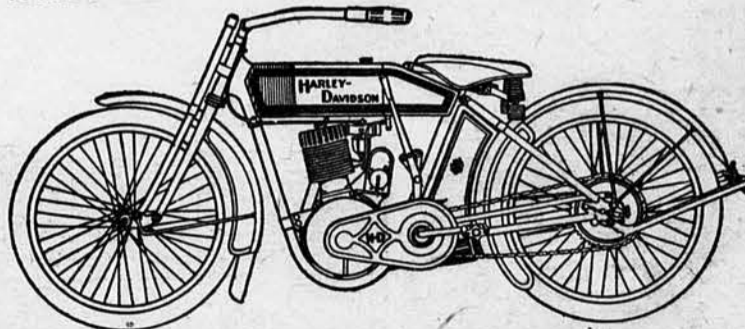
Four thousand of these "silent gray fellows" are today employed by the United States Government in eight different departments. They have been adopted because they have proven their excellence over all competitive makes.

Our nearest dealer will demonstrate to you the many qualities of the new "5-35" including the Ful-Floteing Seat and the Free Wheel Control, two features which make the Harley-Davidson the most comfortable motorcycle made. Call on our dealer or write for illustrated catalog.

## HARLEY-DAVIDSON MOTOR COMPANY

751 A STREET

MILWAUKEE, WIS.



### Plant Peanuts When Soil Warms

When is the best time to plant the "White Jumbo" peanut? Is it best to hull and then plant or plant in the hull? Should they be soaked before planting?—G. T. H., Comanche county, Kansas.

You should not plant peanuts until the weather and the soil are warm. This will probably be late in May with you. If planting only a small field, carefully

hull the seed. It is possible, however, to plant them hull and all. You may either break the nuts into their separate parts and plant without completely removing the hull, or you may soak the seed with the hull on, not more than 12 hours. Ordinarily if the nuts are planted in the hull, you may plant from one to two weeks earlier than is necessary when using hulled seeds. A. H. Leidigh.

### Farmers-Investigate This Manure Proof Farm Shoe

Thousands of farmers now wearing this non-rotting shoe made of special leather by special process. The only shoe in the world guaranteed for barnyard service. Proof against manure and barnyard acids.

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Every box of Hulskamp Barnyard shoes contains guarantee that they will not rot or crack through from manure and barnyard acids. Cut shoe expense. Save your feet.

**BOTTLE OF ROT PROOF OIL FREE**  
Ask your dealer for Barnyard shoes. If he has none in stock write us for trial bottle non-rotting shoe preparation, giving dealer's name. It will benefit any shoe but is made especially for Barnyard shoes. Hulskamp Bros. Co., 202 Johnson St., Keokuk, Ia.

### Feeds & Feeding

QUESTIONS ANSWERED  
by Prof. G. C. Wheeler

(Address queries to Farmers Mail and Breeze)

All matter contributed to this Column by Prof. Wheeler, Expert in Animal Husbandry, Extension Service, of Kansas Agricultural College, Bears His Signature.

#### Will Pit Silo Do in Sandy Soil?

Can a person make a pit silo 10 or 20 feet around and about 14 feet deep, and would it do in sandy soil?—J. E. W., Catesby, Okla.

You may build a pit silo as large in diameter as you desire. But in a silo only 14 feet deep you would not get anywhere near as much pressure as you would in a deeper one. It would be better to go a little deeper than 14 feet unless you are going to get into ground water. If 14 feet is as deep as you can go down it would be necessary to make additional pits in order to preserve enough silage. If your sandy soil is firm enough to permit the first coat of plaster to be applied it will stand plastering as well as any other kind of soil. — G. C. Wheeler.

#### How Thick a Lining For Pit Silo?

We are thinking of digging a pit silo. In plastering the cement onto the dirt will it stand more than one year? Will cement stick to blue soapstone? How thick would you advise me to put the cement on the dirt walls? Will it stick to any kind of dirt?—W. H. L., Lyon county, Kansas.

Cement plaster ought to last for a good many years, if proper proportions are used and the mortar is properly applied. Use at least two coats so the cement layer will be about an inch thick at least. A great many cisterns are constructed in the various parts of the country with this type of construction. In all probability the cement will stick as well to blue soapstone as to any other surface. As a silo the pit silo should be looked upon as somewhat of a makeshift. In small sizes undoubtedly it will be the means of preserving cheaply a small amount of silage. A pit should not be placed in ground that is at all inclined to be "seepy" or wet. — G. C. Wheeler.

#### Large Size Silos.

I want to build two large silos this fall, 33 feet in diameter and 45 feet high on the "common-sense" style, and want to know if this is right. Will the silage keep well in as large a silo as this and is there anything not in favor of so large a silo? I expect to feed about 1,500 head of cattle this fall and winter, hence the large capacity of the silos. I want to fill the silos with Kafir.—A. M. L., Lubbock county, Texas.

Silage will keep just as well in a large silo as in a smaller one, provided the silo is high enough to give the proper amount of pressure. One disadvantage of the extremely large silo is the fact that the silage must be moved a considerable distance to the door in getting it out. Some parties using very large silos have doors on opposite sides so the silage can be taken out without having to move it so far. Well matured Kafir makes a splendid quality of silage and a good many farmers are using it here in Kansas. — G. C. Wheeler.

#### Alfalfa Hay For Hogs.

Would it pay me to buy alfalfa hay at present prices and feed to growing and fattening hogs?—A. D., Reno county, Kansas.

Alfalfa hay is always a desirable addition to a hog's ration, but it is not so useful in the fattening pen as earlier in the life of the hog. Wherever good leafy alfalfa hay is available it is a good plan to keep the hay before the hogs at all times.

#### A Reader's Underground Silo

Mr. Editor—I am digging an underground silo. A hay track and carrier and a strong scaffold are built over the silo, and the track runs off 40 feet, about 10 feet from the ground. A box made with a hinge in the bottom and a trip on one side carries off the dirt. This box holds about 300 pounds of dirt. One horse will handle it and keep two men digging all the time. A boxful can be handled every 3 minutes. A wagon can be driven under the dump and the dirt hauled away, or a scraper may be used. There is no lifting, the

horse does it all. A long rope in the silo trips the box and pulls it back.

A stovepipe run down into one of these underground silos will carry out all poisonous gases. As the silage is taken out the pipe can be lengthened. It should be kept in about 2 feet of silage. Feed can be taken out of the silo in the same way the dirt was removed.

Sumner, Neb. Leighton Flock.

#### Hints For Pit Silo Builders

BY H. M. BAINER, Agricultural Demonstrator.

[Written for Farmers Mail and Breeze.]

THE underground or pit silo will justify all reasonable claims made for it and will keep silage as well as the average silo, if properly constructed. It is well suited to dry sections, but is not such a success in wet ground or where the



H. M. Bainer.

water is near the surface. The walls should be even and perpendicular, the depth about twice the diameter, and the size of the hole in proportion to the herd to be fed. A hole that is 16 feet in diameter and 32 feet deep will hold 100 tons of silage, enough to feed from 25 to 30 cows six months. If the earth

will stand well, without danger of caving, a 1/2 to 3/4-inch covering of rich cement plaster on the dirt will be sufficient. If there is danger of the wall caving or not standing well, the cement should be 2 to 3 inches thick. In this case a wooden or metal form is required to hold the plaster in place until it sets. This form need not be more than 3 feet high. The bottom section is made first, and the form moved up.

For the thin wall, the cement should be applied at the time of digging the silo, beginning at the top and working downward as the digging progresses. Finally, wash or paint the wall with pure cement and water.

Amarillo, Tex.

#### Kafir is Feed Insurance

The important thing developed by the calf feeding experiment at Manhattan, is the fact that Kafir or cane which will come through almost any kind of a year, make excellent silage for winter feeding. When corn fails these plants will thrive. In a way Kafir is like insurance because after corn actually has failed, late in the year, Kafir still will make good silage. It will produce from 1 to 3 tons an acre more than corn will make.

#### Don't Move Vaccinated Hogs

By order of Sam S. Graybill, livestock sanitary commissioner of Kansas, it is now forbidden to move hogs vaccinated for cholera from their pens until 21 days after the operation. The order is the result of an investigation which seems to prove that cholera can be spread by vaccinated hogs until three weeks after treatment. The injection of the serum causes a mild sickness, a light form of the cholera, and while in this condition, it is suspected hogs may transmit the disease.

#### 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:

THE MAIL AND BREEZE of which nothing need be told our own subscribers or those reading this copy of the paper. It speaks for itself.

THE HOUSEHOLD, a large family magazine, containing the choicest stories and departments of particular interest to lady readers.

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

### UNADILLA SILO

Were awarded the Blue Ribbon at Kansas and Oklahoma State Fairs in 1912. They are used by the Borden Condensing Company, a thirty million dollar milk company; the New York Industrial Farms, and numerous large feeders, all with great profit and satisfaction. It has adjustable front. Can push ensilage out on level, do not have to fork it up over doors and cross bars, two to three feet high. Can tighten every hoop from ladder. Doors weigh 14 pounds. You cannot bind, or stick. Write for prices. Agents wanted.

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Save \$35 to \$50

Yes sir, I'll save you \$35 to \$50 in the first cost alone on the best, most modern, most sanitary and closest skimming cream separator ever built. When you buy the

**New Galloway Sanitary**—you pay just one small profit above actual cost of materials and labor. Why pay any dealer \$85 to \$110 for an inferior machine. Buy direct and save one-half. Get my

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test of this machine right on your farm. The new Galloway Sanitary silage chopper, gears run in oil—easy to run—easy to clean. Sold direct. Backed by \$25,000 worth of business. Special 1913 offer that will help you to purchase partly or entirely without cost in the end. Write today.

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Best for your money. Anchors (both top and bottom.) Inside Blace. Steel bound door opening. Doors can't bind; always in place. True and Smooth inside. No steel parts in contact with feed. Lumber: The best to be had. Catalogue No. 60 FREE.

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Big money in successful songs. Entirely new and original. Send us your Poems or Melodies. YOU MAY BE ABLE TO WRITE A HIT. PAST EXPERIENCE UNNECESSARY. Publication GUARANTEED, if acceptable, by the world's largest, reliable song publishers. We pay 50 per cent. HAYWORTH'S MUSICAL MAGAZINE and BEAUTIFULLY ILLUSTRATED, explaining our SQUARE DEAL PLAN, FREE. Send us your work for FREE advice. HAYWORTH MUSIC PUB. CO., 1117 N. WASHINGTON, D. C.

### Our Farmers' Cattle Knife

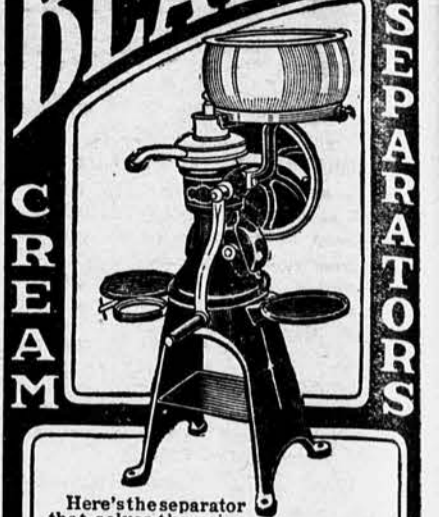
Free Knife



This Farmers' Cattle Knife is a beauty. It has one large scimitar, one spaying and one congress blade; Extra quality steel, double German Silver bolster and shield, brass lined, stag handle. This beautiful useful knife will be sent you FREE, postpaid, for securing only four 3-months subscriptions to the Mail and Breeze at the regular rate of 25 cents or we will send you our paper one year for \$1.10 and the knife free as premium. We guarantee the knife and will return your money if you are not satisfied. We know you will like it as we have given away hundreds and have never had a complaint. This illustration is one-half actual size. Write today.

MAIL AND BREEZE  
Topeka, Kansas

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Another point: Our patented device cleans the machine in less than 2 minutes. Will save you time—will save you money—will save you cream. Skims close and clean. Easy to run—hard to wear out. Second to none. Sold by dealers. Ask them or write us for free booklets and full particulars. Address nearest office below.

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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 \$5.95. 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: AMERICAN SEPARATOR CO. Box 1092, BAINBRIDGE, N.Y.

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Buy the New Butterfly Jr. No. 1. Light running, easy cleaning, close skimming, durable. Guaranteed a lifetime. Skims 95 qts. per hour. Made also in four larger sizes up to 5 1/2 shown here. 30 Days' Free Trial. Earns its own cost and more by what it saves in cream. Postal brings Free catalog folder and "direct-from-factory" offer. Buy from the manufacturer and save half. ALBAUGH-DOVER CO. 2275 Marshall Blvd. CHICAGO

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Construction is right, material is right. Only silo made with full-length, structural steel door frame heavily galvanized after the riveting. Not a crevice exposed to rust. Choice of seven kinds of wood. Inflexible guarantee. We prepay freight. Catalog shows many more fine points. Write for it today. Address Dept. 55. KALAMAZOO TANK & SILO CO. Kalamazoo, Mich. Kansas City, Mo. St. Ft. Worth, Texas

# 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.

The best market for skimmilk is a bunch of shoats.

For udder inflammation or similar troubles try camphorated oil.

The large udder is a good indication but not proof that a cow is a good milker.

Butter and cream may be hauled to market at less expense than any other farm crop.

Letting the new calf run with the mother a day or two will often correct udder trouble.

A dash of cold water in the churn, beforehand, will keep cream from sticking to the sides.

Who will be willing to swap a good letter on the best crops to grow to bolster dry pastures in late summer, for a year's subscription to the Mail and Breeze?

As a milk-making roughage cowpea hay is right up next to alfalfa. The crop is a great soil builder, also. Why not try a patch by way of testing it?

Good cows were never so salable as now, but all cows offered are not good ones. Unscrupulous cow traders are taking advantage of the big demand to dispose of second and third rate cows as first-class milkers.

### This Will Stop Calf Scours.

Mr. Editor—As soon as symptoms appear, 2 to 4 tablespoonsful of castor oil are mixed with 1/2 pint of milk and given to the calf. This is followed in 4 to 6 hours by 1 teaspoonful of a mixture of 1 part salol and 2 parts subnitrate of bismuth. This dose can also be given with 1/2 pint of new milk, or the powder can be placed on the tongue and washed down by a small amount of milk.

The salol and subnitrate of bismuth can be secured from any druggist, mixed in the proper proportions at the time of purchase, and thus the powder will be readily available for use at any time. As an additional precaution against contagious scours it is advised that the navel of the new-born calf be wetted with a 1 to 500 solution of bichloride of mercury (corrosive sublimate). The scour remedy has been used here for two years with success.

G. C. Humphrey.

Wisconsin Agricultural College, Madison.

### Making the Most of Grade Cows.

[Prize Letter.]

Mr. Editor—Many farmers who are milking scrub cows are throwing their time away. Many cows in this locality do not average more than 1/2 pound of butter fat daily. A man must milk 20 such cows to get 10 pounds of butter fat daily. On the other hand five good cows that will produce 2 pounds of butter fat a day will do as well as the 20 scrubs. This is milking, feeding, and caring for 15 cows just for the pleasure of saying, "We are milking 20 cows." Of course there would be some difference in the size of the compost pile and in the number of calves for sale but these would not pay the difference in labor and feed by a large margin. Some reader will probably say we can't get cows that produce 2 pounds butter fat a day. But I know we can for I have had them and intend to have them again.

In trying to raise dual purpose cows by saving the heifer calves from the best milk cows, a man will breed the beef type out and will finally have a bunch of red cows of dairy type. If I cannot sell my cows and heifers I have to spare, at a remunerative price, I shall wait un-

til I have 20 or 25 good milkers, then get a Galloway bull and raise beef calves. This will be continued for four or five years or until more young blood is needed in my dairy herd.  
Longford, Kan. John M. Guy.

### Putting Calves on Skimmilk.

[Prize Letter.]

Mr. Editor—I begin by feeding my calves 1/2 gallon of whole milk a day and increase this from day to day until they are getting 1 gallon daily at the end of a week. After the first week I add a little skimmilk, gradually increasing the quantity. At the end of the second week they are getting 1 1/2 gallons daily and from that time I decrease the whole milk while increasing the skimmilk. At this time every calf gets a handful of shorts at a feed. At the end of a month they are being fed skimmilk only, also a little oats and some hay or grass. Five calves fed in this way sold at a sale for \$18 each, when only 10 weeks old.

Ramona, Kan.

H. Knuth.

### Butter and Cream Cooler for Well.

[Prize Letter.]



Fig. 1

Fig. 2

Mr. Editor—I am sending you some drawings to show how we made a refrigerator for our butter and cream. Fig. 1 is a tall cream can, 9 inches in diameter. I had tinner make four rings or collars of tin, 4 inches high and 7 1/2 inches in diameter, as shown in Fig. 2. AA are dinner plates and BB rolls of butter which are then set inside the cream can with the tin rings between.

Fig. 3 is a box a foot square and 2 feet high, with hinged lid and support. The support holds the lid which forms a handy table. A hasp should be used on the lid to insure its staying closed. This box is placed over an opening in the cover of the well represented by C. Good cleats must be used on this box or the wide boards will warp. Rods placed through the top at D. From these rods the buckets are tied or suspended while hanging in the well. Several other smaller buckets may be hung to these rods.

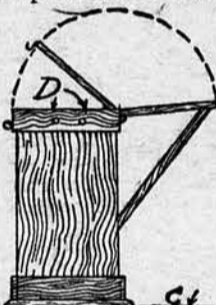


Fig. 3

J. A. Crandall.

Norwich, Kan.

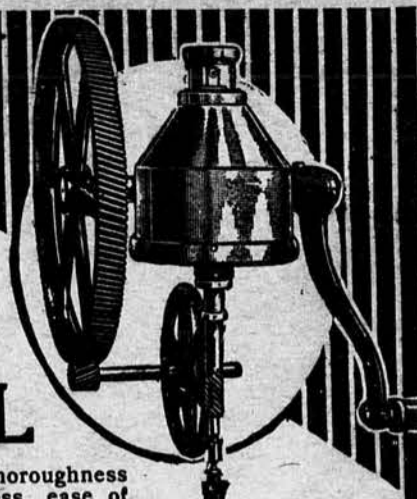
### Kansas' Best Cow a Jersey

Kansas owns one of the world's "best seven" Jersey cows. She is Owl's Design, a purebred, and a member of the dairy herd at Kansas Agricultural college. The college obtained her from R. J. Linscott, Jackson county's breeder of Jerseys. The picture on the cover of this Mail and Breeze is an excellent likeness of the cow.

Owl's Design is the first Kansas Jersey to make a record of more than 700 pounds of butter in one year. It was through an official test concluded March 17 of this year, that Owl's Design became one of the best seven cows of the Jersey breed in the world. In milk production only six other Jersey cows in the world have better records. Her official record for the year is 14,606.3 pounds of milk and 650.033 pounds of butter fat. This is equivalent to 758 pounds of butter.

"She is a splendid type of cow," says Prof. O. E. Reed, head of the dairy department at Manhattan. "Judging from her appearance one would expect her to make such a record. She comes from high-producing ancestry. Her sire has seven daughters that have made good official records. Her dam, 'New Design,' produced 321 pounds of milk and 16 pounds of butter in one week, during an official test. Owl's Design has been handled by our efficient herdsman, C. E. Buchanan, and milked by students of the college. Her ration during the year consisted of alfalfa hay and silage, and a grain ration of 4 parts corn, 2 parts bran and 1 part oil meal."

## The Simplest CREAM SEPARATOR Ever Built — DE LAVAL



EXCELS ALL OTHERS not only in thoroughness of separation, sanitary cleanliness, ease of running and durability, but as well in its great simplicity.

THERE IS NOTHING ABOUT THE OPERATION, CLEANING, adjustment or repair of a modern De Laval Cream Separator which requires expert knowledge or special tools.

NOR ARE THERE ANY PARTS WHICH REQUIRE FREQUENT adjustment in order to maintain good running or to conform to varying conditions in the every-day use of a cream separator.



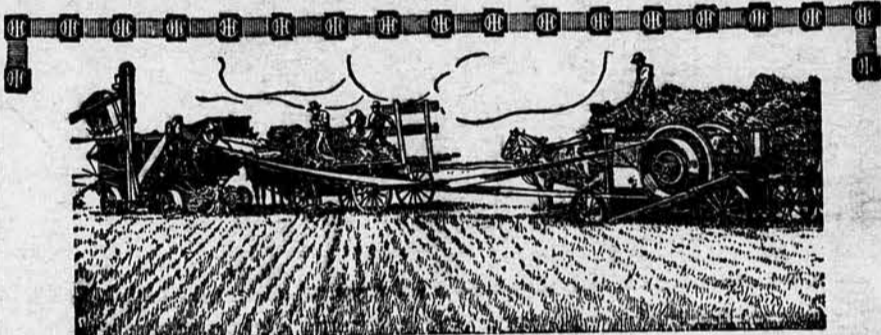
Combination Wrench, furnished with each De Laval machine, which is the only tool required in setting up, taking down or using the De Laval, the simplest cream separator ever built.

THERE IS NOTHING ABOUT THE MACHINE THAT CANNOT be taken apart, removed or replaced by any one who can use a wrench or screw driver. In fact, the only tool which is needed in the use or the operation of a De Laval Cream Separator is the combination wrench and screw driver illustrated above, which is furnished free with every machine. Visit the local De Laval agent and see for yourself its simplicity of construction.

The new 72-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.

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WHEN you buy your engine, get it big enough to do more than your present work. If it's an IHC engine it will last a long time. Your farm work is bound to increase in volume. Very likely you can save yourself the price of another engine four or five years from now, by getting an engine a size larger than you need now. Over-speeding and straining harm any engine. There is one correct speed for each IHC engine, a speed at which the parts balance and at which the engine runs without harmful vibration. When you buy an engine powerful enough to handle your work easily while running at the correct speed you add years to its life. Get your engine big enough and buy an

### IHC Oil and Gas Engine

An IHC oil and gas engine will deliver 10 to 30 per cent above its rated horse power when occasion requires, but it gives the longest service when carrying a normal load. All parts are carefully, accurately ground and perfectly balanced. The best material obtainable is used. Combustion is perfect and the maximum power is secured. Sizes—1 to 50-horse power. Styles—stationary, portable, skidded, vertical, horizontal, tank-cooled, hopper-cooled, air-cooled. Fuels—gas, gasoline, naphtha, kerosene, distillate or alcohol. Kerosene-gasoline tractors, 12 to 60-horse power.

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# SHARPLES

## MECHANICAL MILKER

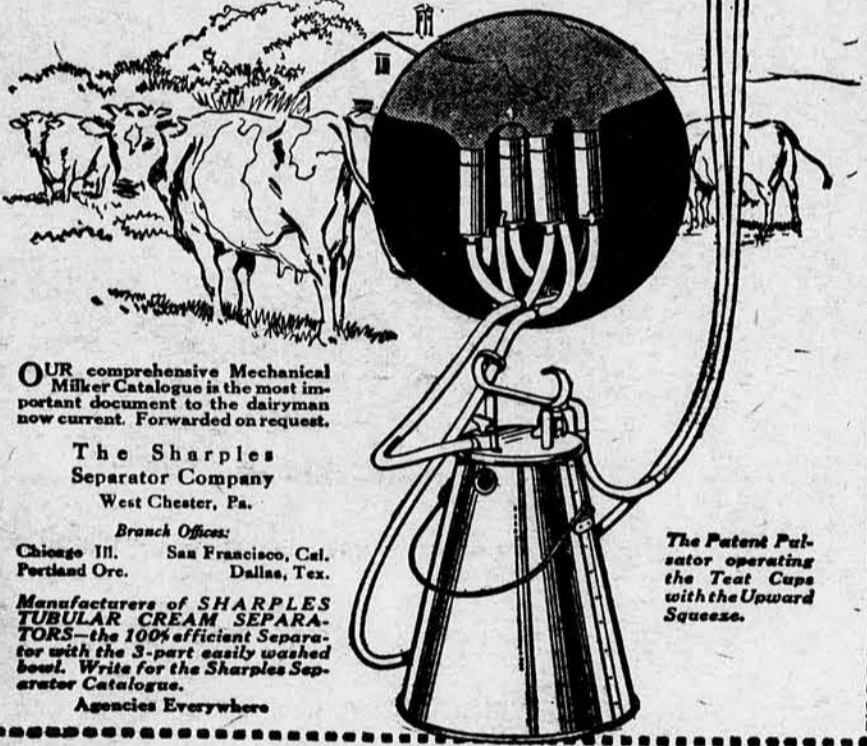
**T**HIS equipment is revolutionizing modern dairy operation. During the four years since its perfection it has been installed with unqualified success in hundreds of the leading dairies throughout America and abroad.

The distinctive features of the SHARPLES MILKER, to which its complete success is due, are the Teat Cups with the Upward Squeeze and the Patent Pulsator operating them. This device reproduces nature's own method of milk extraction, which the most skillful hand-milking cannot do.

The cows are more contented. The teats and udder become far better conditioned. The milk product is absolutely uncontaminated—pure and more valuable. Labor cut to one third.

**Sharples Mechanical Milking means the end of all drudgery of milking.**

Practically every dairyman can visit installations of SHARPLES MILKERS within easy distance, where the actual operation of this equipment can be observed under conditions approximating his own. We shall be pleased to hear from dairymen with a view to their making such inspections.



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Agencies Everywhere

The Patent Pulsator operating the Teat Cups with the Upward Squeeze.

## A New "Quick-Hitch" Harness From Sears, Roebuck and Co.

### DESCRIPTION

Breast collar style. Bridle, 5/8-inch, overcheck or round side reins. Lines, 7/8-inch fronts, 1 1/2-inch hand parts. Breast collar 2 1/2 inches wide, V shaped. Traces, 1 1/4-inch. Gig saddle, harness leather skirts, flexible tree, 1-inch bearers, 1-inch wrap straps. Breeching, 1 1/2-inch harness leather body, 3/4-inch split hip straps, 3/4-inch side straps, 3/4-inch turnback, crupper to buckle on.

No. 1013581 With nickel buckles, solid nickel hook and traces..... \$16.95

Enables you to hitch or unhitch in less time than it now takes to place the shafts in the loops. Only one place on each side to hitch, instead of three or four.

All parts of the harness are securely united, they all work together and there is no jerking, which means less strain on the parts.

Either tug, when hitched, unites two complete circuits of harness, one for draft, one for holding back, and makes certain the movement of the vehicle, forward or backward, as the horse moves. This avoids accidents caused by failing to unhitch one or more of the straps in old style harness.

Works automatically in hitching and is just as quickly unhitched by pressure of thumb.

Women and boys—and busy men, will appreciate this new "Quick-Hitch" Harness. Our low prices tell the best story of big values.

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Contains over seventy pages of bargains in fine Harness, Saddles, Bridles, Collars, Whips, Pads, Trimmings, Blankets, Etc. Should be in the hands of every horse owner. Write postal now. Please ask for Harness Catalog No. 65M47 SEARS, ROEBUCK AND CO., Chicago, Ill.



Here is the "Quick-Hitch" Attachment.

Send a Postal for This New Free Harness Book.

## VETERINARY ADVICE

Conducted for Farmers Mail and Breeze  
BY DR. F. S. SCHOENLEBER,  
Professor of Veterinary Science  
Kansas Agricultural College.

Our readers are invited to consult Dr. Schoenleber in an advisory way in case of trouble with livestock. Be sure to state the history of the case, location of the disease and the conditions under which animal has been kept. If a horse state weight. Also write across the top of your letter to be answered in Farmers Mail and Breeze and always sign name in full. Unsigned inquiries will not be answered. Answers will be published in turn.

### Feed Not Responsible.

Will Kafir or cane fed to cows that are in calf cause them to abort?—G. H., Franklin county, Kansas.

I don't believe that Kafir or cane fed to cows in the proper amounts will cause them to abort.

### Eye Troubles.

I have a mare coming 6 years old that lost her left eye when a colt. It seems that the ball burst and then remained in the socket. Her eye has become sore and is running. What is your advice?—W. M., Kiowa county, Colorado.

You should have a graduate veterinarian completely remove the eye from its socket. Treatment is usually ineffectual as long as any of the diseased eye remains in position.

### Distemper in Dogs.

I would like to know of some treatment that is good for distemper in dogs.—J. H., Marshall county, Kansas.

The best treatment for distemper in dogs consists in giving them what is known as curative distemper vaccine. In addition the eyes and nose should be washed with a 2 per cent solution of boric acid.

### Season of Calving.

I have a Jersey cow that lost her calf in December. Would it be the proper thing to breed her now and have her calf come in winter? How long will the average cow give milk when not bred?—L. H., Pontiac, Mich.

It does not make very much difference when your cow comes fresh. It is simply a matter of individual preference. A cow will usually continue to give milk for from a year and a half to two years without being rebred.

### Pig Ailments.

I have a litter of pigs that is only 4 days old and the pigs' noses and mouths are getting sore. What can be done for this?—T. D., Seward county, Kansas.

For the sores on the faces of your pigs, I believe that you will find it of value to wash them daily with about a teaspoonful of carbolic acid in a pint of water. It is a good plan to wash off the sow's udder with the same solution.

### Chest Swelling.

I have a saddle horse 4 years old that has a swelling on his chest a little back of the front legs. It is about the size of my hand. The skin is rough and pimply. What can be done for this?—F. P., Bourbon county, Kansas.

I would suggest that you have the swelling lanced in order to permit the escape of any accumulation of secretion. If it is a firm, hard swelling, it may be necessary to have it completely cut out by a veterinarian.

### Tuberculosis or Pleurisy.

I have a cow that breathes short and quick, coughs a little, but eats heartily and gives a lot of milk. Do you think she has tuberculosis?—D. S., Pawnee county, Kansas.

From the description of the symptoms your animal may have either tuberculosis or chronic pleurisy. In order to be upon the safe side I would suggest that you have your veterinarian administer the tuberculin test, which will serve to distinguish the two.

### Ailing Cow.

I have a cow that has been out of order for about six weeks. She eats heartily and gives as much milk as ever but is losing in flesh. She acts stiff in getting up and will grunt at times. What is your advice?—T. E. H., Craig county, Okla.

From the description of the symptoms, I am led to believe that your cow has probably swallowed some sharp body, such as a piece of wire or nail, and that this has lodged in the wall of the stomach or possibly passed through the stomach into some other organ. I do not believe that there is very much that you can do for her. You might

try giving her about 1/4 pound of salts, to which has been added 1/4 ounce of powdered nux vomica daily. If the bowels move too freely as the result of this treatment, discontinue it for a few days and then commence again, giving only one-half dose, however.

### Eye Infection.

My 2-year-old colt got his halter down over his eyes the other night and when found was almost choked. His eyes were swollen and now a scum has formed over one of them and in the center is a white spot. He can't see out of this eye.—E. C. Republic county, Kansas.

For the white spot on the colt's eye, you will find that about as much calomel as can be held on the point of a pocket knife dusted into the eye twice per week will probably clear it up.

### Ailing Goats.

My flock of Angora goats has been running in woods pasture. I have lost some of them with a disease, something like illud staggers. They finally get down and stiffen out, their heads drawn far back, and they seem to be in great pain. What is this trouble?—W. D. W., Crawford county, Missouri.

For your goats I would suggest giving them about 4 ounces of Glauber's salts once a week. In addition I would give them daily about 1/2 ounce of bromide of potash. It is possible that this will control the ailment from which they are suffering.

### Warts on Udder.

I have a 2-year-old heifer soon to be fresh that has a great many long, slim warts on her teats. They get to be almost 2 inches long then drop off. How can they be removed?—R. W. C., Lincoln county, Oklahoma.

Frequently the warts on the teats will disappear without any medical treatment. I would suggest as a medicinal treatment that you apply oil of thuja to the warts and also give about 1/2 teaspoonful in a little milk once daily as a drench. Give this internally for 10 days to two weeks.

### Symptoms of Glanders.

I have a mare mule coming 4 years old that was somewhat bruised on the inside of the hock joint last July. It has never healed up entirely and for about two months there were running sores. Now there are smaller ones from the joint nearly up to the body. She is running out with about 100 head of other horses and mules.—J. E. M., Clark county, Kansas.

I would suggest that you have a competent veterinarian to give your mule the glanders test. Whenever an animal gets running sores on the leg such as you mention it is very frequently a symptom of glanders, which is a very dangerous disease, and you should have it attended to at once.

### Retained Afterbirth.

One of my cows retained the afterbirth several days after calving and in trying to remove it I apparently pulled it in two, part of it remaining. She is not doing well and seems to be "hdebound." I also have a heifer with a caked udder. What can be done for these cases?—J. J. H., Ottawa county, Kansas.

For your cow that did not clean thoroughly, there is very little that can be done. You should wash out the uterus once a day with about a gallon of lukewarm water, to which has been added a tablespoonful of carbolic acid. For the heifer with the caked bag you will find that rubbing it with hot lard and turpentine thoroughly twice daily will probably benefit it.

### Bone Spavin.

I have a horse that has a swelling on the inside of the hock joint although it does not lame him. I tried one recipe and it blistered his leg but did not cure him. What would you advise?—T. J., Cherokee county, Kansas.

You do not state whether the swelling is a hard or soft one. I presume that it is a hard swelling and therefore possibly a bone spavin. You will find it impossible to reduce the swelling in this case and as long as the animal is not lame, I would suggest leaving well enough alone.

### Chronic Indigestion.

Last fall I fed watermelons to one of my cows until she began to get weak in the back. She is still thin and somewhat weak and does not seem to like her feed much.—F. M. E., Morton county, Kansas.

It is possible that your cow is suffering from chronic indigestion as the result of overfeeding on watermelons. You might try the following prescription as a tonic: powdered nux vomica 2 ounces, powdered ginger 4 ounces, powdered sulphate of iron 2 ounces and enough artificial Carlsbad salts to make 1 pound. Have this mixed and give her a heaping tablespoonful in the feed three times a day.

## ORCHARD & GARDEN

For the best letter each week, contributed to this page by a reader, we offer a year's subscription or extension of subscription to Farmers Mail and Breeze. We want your views and experiences. They will help others. Address contributions to Horticultural Editor Farmers Mail and Breeze.

Don't forget that row of salsify.

The hen-pecked garden also is entitled to sympathy.

Looks like a great year for strawberries at present.

Let the ground warm up thoroughly before putting out sweet potato plants.

Put the later plantings of peas down a little deeper to get them into cool soil.

The best time to mulch Irish potatoes is just at the time the sprouts are breaking through the surface.

Changing locations of the different crops in the garden will make them less liable to disease and insect damage.

A well built grape trellis not only improves the looks of the back yard but affords excellent shade, besides increasing the yield of fruit.

A good many farm gardens are too large. A small patch well cared for will prove more satisfactory all around than a field of weeds.

After my sweet potato plants have taken root I cultivate them, then mulch with straw between the rows, the deeper the better.—S. G., Bowers Mills, Mo.

### Insure the Garden by Mulching.

Mr. Editor—For gardening in the dry sections we should use the pitch fork instead of the hoe. The larger seeds, such as beans, squash, melons, etc., may be mulched the day they are planted. In the case of the smaller seeds, such as tomato and cabbage, the mulching should not be done until the plants are transplanted. A mulched garden also may be irrigated and it will produce more with less labor than any other method of cultivation.

Cedar, Kan. Edward Lind.

### Test the Moon-Farming Idea.

What about this everlasting "moon" question? I have just planted my potatoes and am being told they will all go to vines, that I made an awful mistake, etc. Can you set a fellow right on this thing?

—C. S. H., Jefferson county, Kansas.  
This idea is a relic of the dark ages, a superstition. For your own satisfaction and amusement, test the thing out some year by planting a few rows of potatoes by the "moon" and the rest of the patch when you believe conditions to be right for planting. At digging time call in the superstitious neighbors and ask them to designate the "moon-planted" rows.

### Subirrigating With Tin Cans.

[Prize Letter.]

Mr. Editor—I kept my garden alive and bearing through the hot, dry season last summer by subirrigating with tin cans. I melted the tops off the cans, made a nail hole in the bottom, and set a can about 2 inches deep near every plant. I made a sled with a 50-gallon barrel on it and every other night after work I filled that barrel at the windmill and made the rounds of the tin cans. The water would seep out at night and as it was below the surface there was no danger of the ground baking.

Gracemont, Okla. V. Hamilton.

### To Make Sure of a Melon Crop.

[Prize Letter.]

Mr. Editor—To make sure of a crop of watermelons or muskmelons I set some old boxes, about 2 feet square and a foot deep, in the ground about 10 feet apart. These boxes I fill nearly full with horse and cow manure, mixed half and half and packed well, then put some chicken droppings on top. The melon seeds are planted around outside of the boxes, 2 seeds about every 10 or 12 inches. Later these are then thinned out, leaving one good plant in each place, or about 8 plants to each box. I plant either the Halbert Honey or Rocky Ford

watermelons and the Rocky Ford muskmelons. I believe they are superior to any on the market. About June 1 to 20 I pull up all the weak plants and plant others in their places, and we have fine melons until late in the fall. The manure in the boxes is kept wet all summer. Thus we not only irrigate the crop but supply it with fertilizer at the same time. This certainly beats surface irrigation.

G. L.  
Great Bend, Kan.

### Methods of a Dandelion Swatter.

Mr. Editor—I find the most satisfactory way to get rid of deeply-rooted dandelions is to loosen the soil with a digging fork and pull up the entire plant. In wet or soft soils the root will come up without digging. Kerosene has been highly recommended as a dandelion killer. An ordinary machine oil can may be used. Apply a few drops to the crown in the center of the rosette of leaves. An excess of sulphate of iron or sulphate of ammonia also is good. A small tablespoonful of salt applied to the plant in the morning of a warm day, when the soil is dry, also will kill them.

When once rid of them one can keep the pest out by being careful not to let any plants go to seed on ground near the lawn.

Joe S. Wade.  
Wellington, Kan.

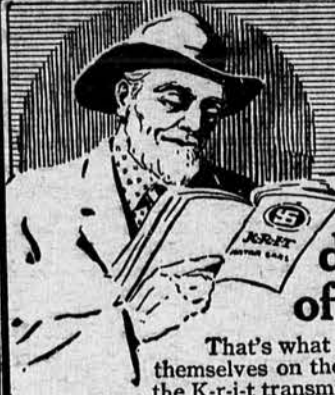
### Spray the Canker Worms

Canker worms are doing great damage to Kansas apple trees this spring. The approved remedy is a spraying with lime-sulphur and lead-arsenate, applied twice. For best results the first spraying should be done after the opening of the cluster buds and before the opening of the blossoms. The second application should be made between the dropping of the petals and the closing of the calyx. The calyxes should be filled with the spray. It is important to be thorough. It is customary to mix the arsenate of lead at the rate of 2 pounds to 50 gallons of water, but for half grown canker worms 3 to 5 pounds is recommended.

Commercial lime-sulphur testing 33 degrees Beaume should be used at the rate of 1½ gallons to 50 gallons of water for summer spraying and at the rate of 1 gallon to 8 for dormant treatment. Homemade lime-sulphur is efficient, but troublesome to prepare. In combining arsenate of lead and lime-sulphur, the latter should be kept in a state of violent agitation.

To do a good job of spraying it is necessary to be thorough.

I would not think of getting along without the valuable advice I receive from time to time in the old reliable Mail and Breeze, which pays for itself many times a year.—G. F. Clark, Sabetha, Kan.



# K-R-I-T

## The K-r-i-t-Farmer drives a low-priced car of high-priced efficiency

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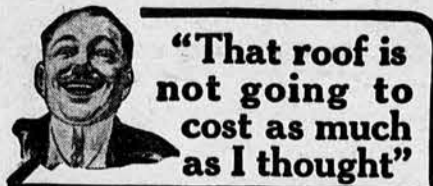
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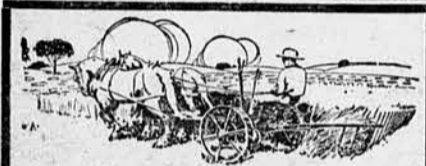
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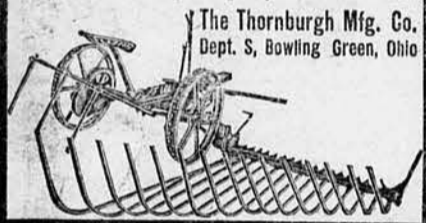
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## What Farmers Are Thinking

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.

#### Mr. Capper Absolutely Right.

Mr. Editor—I was greatly pleased with Mr. Capper's talk in regard to the Kansas schools. He is absolutely right. It is a fact that the children of today are receiving a too superficial education. They graduate from the common schools at an age anywhere between 13 to 20 years and enter high school, where a large part of their time is devoted to study of the dead languages and other matters of no practical benefit to them in the great struggle for bread and butter. The foundation for an education is found in the common school branches, and unless this is thorough, no amount of high school work will make scholars of them, or bread winners either. I hear a great many school boards complain of high school graduates as teachers in our country schools, asserting they would prefer a person who has just graduated from the common schools.

Yours for progressiveness in the home, the school, the state and nation. Weskan, Kan. F. N. Cox.

#### Graduate Advisers Wouldn't Do.

Mr. Editor—Do farmers object to a farm adviser? No, if we can get the right man we will doff our head pieces to him, but we will never let a man advise us who has had a few courses in an agricultural college and who has a long chain of ancestors that have been bankers, merchants, preachers and so forth. On the other hand I have known men that are renters and are paying \$3 to \$4 per acre per year, paying a big tax, raising a large family and keeping out of debt. This is the kind of adviser we want. I would like to take a few lessons from him.

We crossed the plum with the peach and produced the famous apricot, we crossed the apple with the peach and produced the delicious nectarine and by budding, grafting, pruning and breeding we have brought the country up to what it is today. We are raising stock now instead of dogs. I do not say the agricultural college could not teach us anything, for the wisest man can learn from babes and sucklings, but I do say that what it could teach us does not amount to a drop in the bucket to what we could teach our adviser, for we are self supporting.

George W. Taylor.

R. 4, Butler, Mo.

#### Why We Have the Profit System.

Mr. Editor—The greed and selfishness of millionaires and would-be millionaires knows no bounds. Their most potent weapon is the profit-system. Through this robber system capitalists rob the wealth producers of untold millions of dollars annually in rich America.

Until we establish true golden rule co-operation the people will be industrial slaves to millionaires and millions of little profit-takers. The millions of little leeches must be shaken off by the introduction of a co-operative system which puts them every one out of business. The men, whose selfishness prevents them from becoming co-operators, are responsible for the present business system which centers the major part of our immense wealth in the hands of the few.

The support of a wrong system which is founded in selfishness and greed, is why we have it. But to curse the system or growl about it will avail nothing. Millions of good people are supporting this robber system ignorantly. They must be organized into Equity unions and educated away from the system that robs them, to a system that will not take 1 cent of profit from them. This can be done by education. It is a slow but sure process. People must be shown. They must be gathered together into industrial unions. These unions must do

what the Equity union is doing: Promote the intelligence, morality and fraternalism of all of its members and persuade them to support a co-operative business instead of a business which takes a profit on everything they buy and everything they sell.

The Equity text book explains fully a practical plan of golden rule co-operation that is gradually but surely overthrowing the profit system. Send 10 2-cent stamps for this book and when you read it hand it to your neighbor. Then let 10 form a union and we will build you up to 100 members and into a co-operative company that will break down the profit system in your town and teach the people golden rule co-operation.

C. O. Drayton.

President Farmers' Equity Union, Greenville, Ill.

#### An Open Letter to Uncle Sam.

Dear Uncle Sam—Can you not give some of us who need it the same terms you give the big bondholder? You receive his bonds for \$100,000 (more or less) as a security; then you issue national currency and give it to him, free of interest, as long as he wants it.

Now, Uncle Sam, we are operating small farms 40, 80 or 160 acres. Some of us need a little money to make needed improvements, or pay a part of the purchase price of our farms. If we borrow it from the one to whom you issued it (the national banks) we shall have to pay 6 to 10 per cent interest each year. We can give you as good security as he gave.

Say, Uncle Sam, can't we deal through our county commissioners? Their services are already paid (it won't cost you or us anything.) They are familiar or can be with our land and are only to lend funds not to exceed one-fourth the cash value of his land to any farmer. They can guarantee the title is perfect and o. k. the amount. We are willing to give you 2 per cent interest and the county 1 per cent for school and guarantee purposes.

Now, Uncle Sam, don't you think the 2 per cent would help you a lot to pay your expenses and, also, that the 1 per cent would help the county? We would save from 3 to 7 per cent per annum. Those millionaire bondholders can get along all right without any additional interest.

Now, Uncle Sam, let us, the people who produce the things to eat and wear, get together and do business.

Altamont, Kan. C. E. Hildreth.

#### Privileges Make Trusts Harmful.

Mr. Editor—The way farm schools and farm papers are run to help the big interests and the indifference of the farmers to their own interests make me tired. There are two sides of farming, one producing, the other disposing of the product at a price that the producer may get his just share of what the consumer pays, according to the capital the farmer has invested and the labor he performs. But disposing of the product is called politics and farm papers and farmers' institutes, bar politics unless it is in defense of the big interests. But there is some exception. In the Mail and Breeze you do print some opinions on the disposing side.

Suppose the creamery trust and all other trusts were compelled to treat everybody alike or quit business. If the trust cut prices down at Cimarron, cut them at Pierceville also. If they cut them up at Pierceville make them cut them up at Cimarron also. It's the favors, rebates, low freight to one, high to another, by the railroads that hurt farmers. It is not issuing money to banks at one-half of 1 per cent and the banks lending it at 10 per cent or more, that does the great harm, it's giving the banks control. They lend some borrowers all they want on little or no security and others can't get it at all.

Our money system doesn't supply the needs of the farmer. The farmer's income is once a year and he needs money by the year if at all. I have been opposed to our money system ever since I understood compound interest. It's wrong in principle. The farm and ranch produce the majority of this government's wealth. Banking produces nothing. Why aren't the producers given some favors?

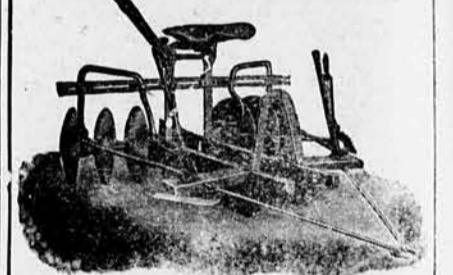
Pierceville, Kan. W. S. Pittman.

I like the Mail and Breeze. It is all O. K.—W. F. Richey, Pawnee, Okla.

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### Tomatoes the West Kansas Way READERS' METHODS.

Mr. Editor—I have heard a good many gardeners in western Kansas say they could not raise tomatoes. I have succeeded by having the ground plowed and worked up fine, then planting the seed in hills about 2 feet apart, leaving space enough between the rows to cultivate. When the plants are large enough I pull out all but the healthiest, and plant the culls elsewhere. When the vines begin to branch I prune off all the smaller limbs, leaving only the main stalk, until the tomatoes begin to ripen. I am sure anyone can raise tomatoes in Clark county by these methods for I have never failed.

Mrs. J. W. Landrum.

Ashland, Kan.

By a Norton County Tomato Grower.  
[Prize Letter.]

Mr. Editor—I usually buy tomato plants from someone who grows them in a hotbed. For this western country of high winds and hot sun I like the Tree variety best. The fruit grows close to the stem, and the winds are not so apt to blight it as in the case of the vining kinds. I set the plants in well prepared ground, in rows 3 feet apart. The plants are 4 feet apart in the row. In the row between the plants I plant radishes, lettuce, onion sets, etc. These are used up before the tomato vines cover the ground. Sometimes I leave the onions all summer as they do not seem in the way.

After setting out the plants I melt the tops and bottoms out of tin cans and set the cans over the plants to keep the sun off and prevent the winds from whipping them to pieces. I leave the cans as long as is possible without injuring the plants in taking them off. Our garden is near the well and during a dry season I put the hose on the pump, turn on the mill, and let the water run down the tomato rows. This keeps the plants growing when it is so hot and dry that they would die otherwise and we get fine crops of tomatoes when others fail. I keep the patch well worked, hoeing it every week or 10 days.

Clayton, Kan. M. E. M.

### Sweet Potatoes a Money Crop

BY J. E. FITZGERALD.

[Written for Farmers Mail and Breeze.]

Here in Texas we are waking up to the value of the sweet potato as a money crop. Last year one man planted 63 acres. Notwithstanding our usual drouth he has been able to buy one of the finest automobiles in the county. We use about three varieties, the Nancy Hall, the Vineless Pumpkin yam and Triumph. The Triumph is an extremely early potato and cooks mealy like an Irish potato. I think it is the best potato I ever saw. Last year I planted my Triumph potatoes May 1 and began selling potatoes July 15. The potatoes do not grow right up close under the vine so they may be dug without disturbing the vines. The vines will continue to make potatoes after some are dug and will produce several crops.

We prepare the land by breaking deep, turning under all weeds and grass. If a crop of cowpeas has been grown on the land the year before and the old vines can be turned under, so much the better. Just before planting we throw two furrows together with a turning plow, then the ridges are rolled or harrowed until nearly level.

I do not believe in pulling the slips from the beds until they are well rooted. If it is dry weather we dip the roots of the slips in a solution of clay and liquid manure. This keeps the slips from wilting much and causes them to take hold of the ground very quickly. After the vines are set they are cultivated shallow until they cover the ground. Very little grass will grow under such rank growing varieties as Nancy Hall and Triumph. The potatoes are stored under earth outdoors. I formerly piled cornstalks on the banks of potatoes, then piled on dirt but I have now found that they will keep even better with no stalks on them.

Sweet potatoes make the best horse feed but in Texas, where they sell readily at \$1 per bushel, we cannot afford to feed them to stock, except occasionally as a kind of a delicacy.

Stephenville, Tex.

## Do Ten Days' Work in One

ONE day's plowing, under favorable conditions, used to be two to three acres—is yet, on many farms. But not for the farmer who owns an I H C tractor. He plows twenty to thirty acres a day, or more, depending on the size of his outfit, and has an easier time doing it than the man who walks sixteen miles or more a day holding the handles of a walking plow. If you have 160 acres or more of arable land to plow you are losing money every day you neglect to put an I H C tractor to work.

When the plowing is done the year's work for the tractor is only just begun. With it you can draw three or more drills at a time. At harvest time it takes the place of teams on the three or more binders that cut a swath as wide as a street through your grain. It furnishes power for threshing. It hauls the produce to market. An

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### Ways of Fighting Cutworms.

Mr. Editor—To protect garden plants from cutworms, surround every plant set with a collar 2 or 3 inches in diameter. These may be made of pasteboard or stiff paper. They should be about 2 inches high and thrust into the ground about an inch. Old tomato cans from which the tops and bottoms have been melted will answer the purpose and may be used year after year. Sometimes boards or cabbage leaves are laid out as traps. These are lifted each day and the hiding worms killed.

When cutworms infest seed beds they may be controlled by spraying the young plants with Paris green and water, at the rate of 1/2-pound of the poison to 50 gallons of water.

Poisoned bait made by cutting green alfalfa or clover and dipping this in a pail of water, to which a spoonful of Paris green has been added, works well in small patches. This bait is distributed in small handfuls every few feet late in the afternoon. Often it is advantageous to spray very thoroughly a patch of growing weeds or grain, then cut the bait and distribute it. Potato patches have been successfully protected by spraying the vines with Bordeaux mixture to which Paris green has been added.

Where the ground is plowed in August or September, and kept free from growing vegetation, the rest of the season there will be no damage from cutworms except possibly on the margins of the fields.

S. A. Johnson.  
Colorado Station, Ft. Collins.

### Trees For Yard or Lawn Planting.

What trees would you advise for planting near an old well or cesspool? I want a tree that will make a thrifty growth and ornament and hide from view the place mentioned. Would speciosa, catalpa trees be suitable for yard or lawn trees?—J. C. W., Rooks county, Kansas.

The best tree to plant near an old well or cesspool would be some of the moisture-loving species, such as the poplars, willows, or soft maples. These, however, are all short-lived trees, but if they have a supply of moisture within reach, they will live longer and grow to a larger size.

The catalpa speciosa is not a desirable tree for yards or lawns, especially in the western part of the state. It is objectionable because it provides only a light shade, and the blossoms and seeds litter the yard. The best shade or yard trees for western Kansas are the white elm, hackberry, Thornless Honey locust and Russian wild olive. For windbreak and ornamental planting, the red cedars, Scotch and Austrian pines, and Chinese arbor vitae are among the best.

Charles A. Scott, State Forester.  
Manhattan, Kan.

I think McNeal has got the head on him if anybody has. He is Irish. I think he and Capper are working on the right road for better government.—Ed. Carey, Granite, Okla.

### The CLIPPER

There are three things that destroy your lawns—Dandelions, Buck Plantain, and Crab Grass. In one season the Clipper will drive them all out. Your dealer should have them—if he has not, drop us a line and we will send circulars and prices. Clipper Lawn Mower Co. Box 10, Dixon, Ill.

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# CROPS and FARM WORK

**Present Condition of Wheat Crop Leaves Little to be Asked, According to Mail and Breeze Crop Correspondents—Wind Damage in Western Kansas—Chinch Bug Injury Confined to Northeastern Kansas**  
(Crop Reporting Service of Farmers Mail and Breeze.)

In the opinion of Mail and Breeze crop correspondents wheat has seldom had so good a chance to make a big crop. There has been an abundance of rain in nearly all counties of the Kansas and Oklahoma wheat belt this month.

Damage from any source has been small so far. In western Kansas and Oklahoma there has been some loss from blowing. Ness and Decatur counties in Kansas report the heaviest losses of this kind. In the former about 40 per cent of the acreage will not be harvested while in Decatur 25 per cent is to be abandoned. On the other hand counties in the same part of the state report crop conditions of 100 per cent and better. Among these are Smith and Rush with 105 per cent each. The late seeded wheat in these western counties is far inferior to the early sown fields. In Sheridan county this difference in condition will average 90 per cent.

Damage by chinch bugs and flies is confined almost entirely to northeastern Kansas. In Miami county there is not much hope of a crop unless the bugs are checked. Chinch bugs are injuring the wheat in Linn, Johnson, Riley, Leavenworth and Atchison. In Washington county, Oklahoma, J. M. Brubaker reports the fields alive with chinch bugs. The recent cool and rainy weather has however, checked the spread of the pest. No serious damage by the Hessian fly is reported in any section. A small acreage in Lincoln county, Kansas, has been abandoned on account of grasshopper damage last fall.

The acreage sown last fall varied little from that of the previous crop but as a small per cent is to be abandoned this will leave a much greater acreage to be harvested this year than in 1912. In Oklahoma the crop has begun to head while in Kansas most of it is jointing.

## KANSAS.

**Phillips County**—Fine rains and wheat looking well.—N. E. Schneider, May 10.

**Comanche County**—Plenty of moisture at present. Wheat shows a prospect of 90 per cent.—S. A. DeLair, May 10.

**Coffey County**—Fine rains have soaked the ground thoroughly and a good wheat crop is insured.—Mrs. A. H. Stewart, May 10.

**Republic County**—Prospects for wheat the best ever. Have heard of no insect injury. About same acreage as last year.—Ed Erickson, May 10.

**Jackson County**—Good soaking rain May 5 was fine for wheat and other crops. No damage reported by chinch bugs as yet.—E. O. Grubbs, May 7.

**Wilson County**—Wheat on upland badly damaged prior to rain of May 4. On bottom land prospects indicate 85 per cent of a full crop.—S. Carty, May 10.

**Woodson County**—Finest of growing weather and wheat is looking well. Dry spell broken by 4 inches of rain falling in three days.—E. F. Opperman, May 8.

**Linn County**—Wheat in fine condition but bugs are going to damage it heavily. Acreage about two-thirds of last year. Condition of crop about 85 per cent.—C. T. Baker, May 10.

**Rooks County**—Wheat has been needing rain badly for several weeks. Some of the stems are turning yellow. Moisture of past week not sufficient as stand is heavy.—C. O. Thomas, May 9.

**Atchison County**—Wheat looks well and making good growth. Fields that are badly infested with the fly are exceptional. Some farmers have reported the presence of bugs.—C. H. Feerer, May 10.

**Johnson County**—Acreage in wheat about same as last year. Condition about 97 per cent. No wheat has been abandoned but there is considerable complaint of chinch bugs being thick.—L. E. Douglas, May 10.

**Cloud County**—Lots of rain the last month and wheat looks fine. Acreage fully 10 per cent larger than last year. Crop is making a remarkable growth. No bugs or flies to speak of.—W. H. Plumly, May 10.

**Brown County**—Wheat looking fine and acreage is a little larger than last year. Prospects for a good average crop are about 90 per cent. In south part of county fields look a little too yellow.—A. C. Dannenberg, May 9.

**Decatur County**—Average condition of wheat about 85 per cent with about 25 per cent to be abandoned—blown out. Acreage about 90 per cent of 1912. No bugs or flies. Had a 2-inch rain last week.—G. A. Jorn, May 10.

**Barton County**—Wheat doing fine with plenty of moisture in the ground. Heavy rains all over county the past week. Condition of crop about 90 per cent. Very little to be abandoned. No damage by flies or bugs. Two or three more good rains at right times will make old Barton the ban-

ner wheat county of 1913.—O. M. Lewis, May 8.

**Pratt County**—Wheat acreage about same as last year. Some damage by dry weather but recent rains repairing it. Present condition about 95 per cent. Very little abandoned. Few bugs or flies.—J. L. Phelps, May 10.

**Logan County**—Best wheat prospects in years. Acreage small. Stand good but thistles rather thick in some places. Good rain last night, the second this spring. It begins to look like our year.—A. O. Brooking, May 10.

**Doniphan County**—Wheat prospects good. Acreage about same as last year. Condition 98 per cent. No part of crop to be abandoned. Some reports of flies but little or no damage done. No chinch bugs.—C. Culp, Jr., May 10.

**Ness County**—About 40 per cent of wheat sown will not be harvested on account of dry, windy weather in winter and spring. Condition not more than 60 per cent. Had 5 inches of rain and hail May 2.—C. D. Foster, May 9.

**Shawnee County**—Had 5 inches of rain here May 3 to 10. Wheat looks fine. Bottom land shows 90 per cent prospect, upland 80 per cent. Acreage larger than last year. Bugs had been hurting crop before the rains.—J. P. Ross, May 10.

**Ottawa County**—Condition of wheat about 98 per cent. Good rains every week have put crop in best condition for years. None plowed up to speak of. Same acreage as last year. Weather hard on chinch bugs.—W. S. Wakefield, May 10.

**Cheyenne County**—Early wheat looks fine but late sowings thin and weedy. Would place acreage at about 90 per cent of average. Not more than 5 per cent will be abandoned. No bugs or flies. Fine rain today.—F. G. Casford, May 9.

**Mitchell County**—Wheat shows as fine a prospect as I ever saw here. No flies or chinch bugs. Would say acreage is about 3 per cent larger than a year ago and none abandoned. Ground in best condition in eight years.—J. H. DePoy, May 10.

**Smith County**—Good rain all over county May 8. Wheat never looked better. Plowed fields show up better than stalk fields. The condition is 105 per cent and it looks now as though 100 per cent would be harvested. Few chinch bugs.—A. J. Hammond, May 10.

**Ellsworth County**—Rains came in the nick of time for wheat. Last few weeks had been exceptionally dry and the crop had been suffering from winds and hot sun. Not enough damage done to plow up any. Had a soaking rain May 3 and ground is in good shape.—C. R. Blaylock, May 10.

**Gray County**—Early sown wheat on well prepared soil looking good. Some very late sowings on stubble land may be abandoned but this will be small proportion of whole crop. Rains of April 22 and 23, and of a week later, gave all grain a good start.—A. E. Alexander, May 10.

**Ford County**—Wheat spotted and average condition is about 75 per cent. Good growing weather last two weeks. About 10 per cent of wheat plowed up. Will need a lot of rain to make a good crop as subsoil is dry. No insects except chinch bugs.—John Zurbuchen, May 10.

**Miami County**—About usual acreage of wheat out. Stand is generally good. Prospects for a crop poor at present on account of bugs. Most fields badly damaged now and some being plowed up. If bugs continue very little harvesting will be done.—L. T. Spellman, May 9.

**Riley County**—Wheat acreage about 25 per cent smaller than last year. Condition of crop 100 per cent of normal, dark color, and well set. Plenty of chinch bugs in some fields but no damage done yet. None abandoned to my knowledge. Another heavy rain last night.—P. O. Hawkins, May 10.

**Leavenworth County**—General condition of wheat looks to be about 80 per cent. All fields badly spotted and many of plants look too yellow for a bumper crop. Acreage about same as last year and none abandoned. Bugs and flies doing considerable damage. Bugs the worst.—Geo. S. Marshall, May 10.

**Lincoln County**—Had a soaking rain May 3. Condition of wheat about 85 per cent. About 5 per cent abandoned on account of winds in April and damage by hoppers last fall. No reports of flies or bugs. Crop is beginning to joint. Acreage 2 or 3 per cent larger than last year.—E. J. G. Wacker, May 5.

**Kiowa County**—Wheat acreage a little larger than last year. Prospects for a crop have not been better at this season for many years. Not more than 1 per cent abandoned and this because of high winds. No bugs or flies noticeable. Plenty of moisture and the crop is jointing.—H. E. Stewart, May 10.

**Graham County**—Last few days of rainy weather helped wheat wonderfully. About 80 per cent of crop will be left standing, with a condition of 100 per cent. Soil in fine condition and prospects excellent but the crop will need more moisture on account of heavy stand and rank, early growth.—C. L. Kobler, May 10.

**Lyon County**—Heavy rains last week were just what wheat needed. All crops looking much better since rains. Wheat shows about 90 per cent of a stand. Acreage about same as last year and know of none abandoned. Have heard of no damage by bugs but had plenty of bugs flying around yesterday.—E. R. Griffith, May 10.

**Rush County**—Present condition of wheat 105 per cent. About 10 per cent of crop abandoned on account of being sown late or damaged by winds. Acreage about 5 per cent greater than last year. No pests so

far. Recent heavy rains have soaked ground. May 2 and 3 brought 6 to 8 inches of rain; May 9, 2 inches.—J. F. Smith, May 10.

**Sheridan County**—Wheat conditions bad. Late sowings are poor. Some fields sown early will pass a 100 per cent test while late sowings will average about 10 per cent. Early seeding constitutes about 20 per cent of acreage, late sowings 80 per cent. No flies or bugs. Farmers are going to quit wheat.—R. E. Patterson, May 9.

## OKLAHOMA.

**Garvin County**—Had 3 inches of rain May 6 and 7. Prospects for wheat good, in fact the crop was never better.—H. H. Roller, May 10.

**Custer County**—Heavy rains May 3, 4 and 5 were of great benefit to wheat and other crops. Raining again today.—E. E. Baker, May 10.

**Pawnee County**—This is not much of a wheat county. About 150 acres all told and all looks fine. Bugs have done some damage.—V. Funkhouser, May 10.

**Choctaw County**—Heavy rain May 4 and ground is wet. Wheat looking better. Some bugs busy although weather has been cool.—J. W. Jones, May 8.

**Ellis County**—Condition of wheat is 100 per cent and not an acre abandoned that I know of. Acreage 25 per cent larger than last year. No bugs or flies.—W. E. Sells, May 10.

**Major County**—Wheat acreage about normal and condition of crop excellent. Had considerable dry weather but rains have put ground in fine shape. No damage by insects reported.—W. H. Rucker, May 6.

**Comanche County**—Condition of wheat crop fully 100 per cent. Acreage about same as last year. None abandoned so far. Chinch bugs have done little damage. Nearly all fields headed out and soil is full of moisture.—Fred E. Wiersig, May 10.

**Blaine County**—Good rain May 3 is bringing out wheat wonderfully. Condition about 85 per cent. Acreage smaller than last year. Only a few acres blown out. The crop stands 12 to 18 inches high and is ready to head. No insect injury.—H. Willert, May 10.

**Kingfisher County**—Finest crop prospects in years. Had 2½ inches of slow rain May 3. Weather had been getting dry and chinch bugs were damaging wheat, but the crop is in good shape now in proportion to way ground was farmed.—H. A. Reynolds, May 10.

**Tillman County**—Condition of wheat will average about 85 per cent. Some will be abandoned on account of dry weather in winter. Acreage about same as last year. Some damage by green bugs but this will not affect crop much.—Edward T. Austin, May 10.

**Washington County**—Fine rain the first of the week. Wheat acreage considerably smaller than usual. Stand 100 per cent. Up to 10 days ago the condition was 100 per cent but fields are alive with chinch bugs now and they have voracious appetites.—J. M. Brubaker, May 10.

**Texas County**—Poor prospects for wheat. Only about 70 per cent of usual acreage sown. Out of 15 farmers, 8 said 25 per cent would be left standing and 6 said 40 per cent. Milo, Kafir and cane will be put in abandoned fields. Plenty of rain last three weeks.—Frank Free, May 10.

**Beaver County**—About usual acreage of wheat out. About 60 per cent of crop late and 45 per cent of this in western part of county was damaged by winds last winter. Large acreage to be plowed up. Good season in ground and early sown fields doing well. No bugs reported.—M. B. Edwards, May 8.

**Grant County**—Wheat shows a perfect stand, has a perfect color, and none will be abandoned. Rains amounting to 2½ inches which fell on May 3, 4 and 5, made fields look like new. The crop is heading nicely and with favorable weather will average 20 bushels or better. Half damaged crop in south part of county about 10 per cent.—A. C. Craighead, May 9.

## Now Ice Machines For Farm Use

The time is coming when an ice-making machine will be a part of the farm equipment, especially on dairy farms. Already there is such a machine on the market. An ice-making and refrigeration machine, it is called, and it can make from 11 to 110 pounds of ice an hour, according to its size. The machine may be used for cooling and connects with any type of ice box. Anyone can run it as its construction is simple. To start it you turn on the power and water and you stop it by turning them off. A gasoline engine furnishes the power. The refrigerating agent is sulphur dioxide with which the machine is charged when it comes from the factory. This ice machine is a French invention, but has only recently been introduced in the United States.

## Kansas Bankers Want to Help

At Hutchinson, May 6, 1,000 members of the Kansas banker's association agreed with one another to co-operate with farmers and the Agricultural college, to back the better-farming movement in Kansas. Former governor, W. J. Bailey, a farmer and a banker, advocated a county organization of bankers for this purpose in every county in the state, and the bankers voted "yes" on the proposition. While this may not mean that the bankers will carry it so far as to turn out in the field at harvest time, undoubtedly they can in many ways do much to promote better farming in Kansas and the right kind of help will be appreciated.

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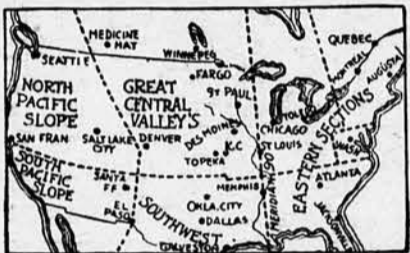


FOSTER'S FORECASTS

(Copyright 1913 by W. T. Foster.)

Washington, D. C., May 17.—Last bulletin gave forecast of disturbance to cross continent May 20 to 24, warm wave 19 to 23, cool wave 22 to 26. The week centering on the day this disturbance reaches your longitude will average cooler than usual and the cool wave following it will carry frosts farther south than usual. It will also inaugurate a 10 days' period in which some dangerous storms are expected. We have not yet worked out a method of locating these dangerous storms, but we are making experiments based on the daily weather records covering 80 years and are encouraged with the progress made.

Next disturbance will reach Pacific coast about May 24, cross Pacific slope by close of 25, great central valleys 26 to 28, eastern sections 29. Warm wave will



(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.

cross Pacific slope about May 24, great central valleys 26, eastern sections 28. Cool wave will cross Pacific slope about May 27, great central valleys 29, eastern sections 31.

The week of this disturbance centering on the day it passes your vicinity will average cooler than usual and the cool wave preceding will probably cause frosts in northern sections farther south than usual. Less than usual rain is expected in a general way, but near meridian 80, a line running north and south a little west of Toronto and Buffalo and east of Ohio, the rainfall will probably be about or a little above normal.

This disturbance, crossing continent 25 to 29, will cause severe storms but not so severe as in previous months. Indications are this storm wave will be most severe on meridian 80—explained above—not far from May 28 and that the path of the storm will lie over or near the great lakes.

We are expecting dry weather in large sections of the country east of Rockies. Our calculations were that rain would fall following May 6 and that oats, wheat and cotton would be injured by dry weather before June 15.

Free Meat Benefits the Packer

The Kansas live stock men want free cattle and a tariff on meat included in the new tariff bill. The executive committee of the state livestock association has sent the following telegram to all the Kansas members of congress:

The Kansas State Livestock association, at its meeting at Emporia, protested against making meats free and placing a duty on cattle in the new tariff bill. Free meat benefits only the packer and makes his monopoly absolute. He will then control both the live and dressed animals; he will dictate the price to producer and consumer alike. For relief from high meat give us free cattle and a tariff on meat.

A Respite For Journalism

The department of industrial journalism will remain at the Kansas Agricultural college for the present, says a news dispatch from Manhattan. The college printing plant also is to stay, but the course in printing will be abolished. Printing will be offered as an "elective" subject in the other courses.

If you need anything not advertised in this issue of Farmers Mail and Breeze, write us and we'll tell you where you can get it.

The Mail and Breeze is all right. I am well pleased with it.—Isaac S. Lewis, Junction City, Kan.



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# Why Manual Training?

Its Place in the Schools of Kansas

BY J. H. MILLER, Director College Extension, K. S. A. C.  
Written for Farmers Mail and Breeze.

**M**ANUAL TRAINING, or the training of the hand and brain together, has been recognized as a valuable part of a school course by the few for almost a half-century. Dr. C.



J. H. Miller.

W. Woodward, of St. Louis, was one of the first men in the West to declare manual training had its place in every school. He stood almost alone. The writer heard him talk to 500 teachers of one state when manual training was not taught in a school in that state. Later it was introduced into one high school, then into another, and later still it became a part of the school course in about 30 schools, and that is the limit today. In Kansas it is taught in the high schools, or grades, or both, in about 140 schools and I have letters from just 60 school superintendents who hope to introduce it next year.

### It Is Necessary To Live.

Heretofore educators have loudly declared the schools did not exist to help boys and girls to make a living but to show them how to live! (Great applause). Nevertheless it is necessary to live, to have food to eat and a place to sleep. The boy and girl who do not know how to make a living are in danger of many pitfalls.

Nine-tenths of all the men who are engaged in business, in mechanical pursuits and transportation, railroad presidents, contractors and big merchants have graduated from the public schools below the high school. Also it is true that nine-tenths of these same men were not helped to make a living by what the schools taught them.

Why should they not ask the schools to prepare boys and girls to do well those things the great majority of them will do after they leave school? The boy who has been taught to do certain things well will be better able to do other things well. The dizzy round of parsing and diagramming; the struggling over insurance, interest calculations, cube root, etc.; the naming of capes and bays on the east coast of China, serve to keep the youngsters busy and the teachers engaged, but why not have along with these terribly exciting studies, some of the things the boys and girls must do after leaving school?

### Why Teach Manual Training?

Why teach manual training? Because it trains the brain, hand and eye. It cultivates exactness, absolute precision as nothing else does. It develops a consciousness of completeness. It develops a sense of mastery, a feeling of power, independence. It dignifies labor and has an intellectual value far superior in most cases to almost any other subject of the school course. It will have a direct training value for all the boys who leave the schools to earn a living by any kind of manual labor, whether in shop or on the farm.

Where should it be taught? Wherever there is a boy—anywhere from the primary grade into the high school and normal school. It is not merely to train carpenters and blacksmiths but to train men. Every boy or young man who goes to any school should have the same opportunity to study manual training that he has to study arithmetic or English. It should no more be set aside for one grade, or for one school than should mathematics or English.

### Begin in the Primary Grade.

In Kansas manual training should extend from the lowest school to the top. It should begin in the fourth grade or later and it should be offered in all the normal schools, the agricultural colleges and the universities. Any student who attends any normal school anywhere in the United States should be given one or two terms in wood-

work. I wish every rural teacher, man or woman could have at least two terms of such work, and I hope it will be taught in every school in Kansas within the next five years.

Seven years ago domestic science was being taught in only four or five high schools in Kansas. It now has a place in more than 200 high schools. Agriculture was then taught in only one high school. Now it has a place in probably 400 high schools. We are making progress. After a while we will admit that the schools should help boys and girls make a living.

### Best Water From Drilled Wells

BY BUELL SCOTT.

[Written for Farmers Mail and Breeze.]

If the advantages of the drilled well over the open dug well were more generally known the dug well would soon be a thing of the past. Incidentally the doctors would lose a large per cent of their practice. The dug well is an ideal breeding place for disease germs without considering the probability of small animals and insects getting into the water. That these conditions actually exist in 90 per cent of the dug wells is noticeable when these wells are occasionally cleaned out, a job always put off until the water has an unpleasant taste or smell.

Of course a dug well may be covered, but if you create a dead air space the water will not remain pure any great length of time.

In dug wells the source of supply is often tainted by surface drainage. The supply also is uncertain, often failing when most needed.

### Drilled Wells Seldom Fouled.

The well drilled to deep-lying water strata is the ideal well. In most localities these water strata can be found at a reasonable depth, affording an abundant and pure supply that never varies throughout the year, either in quality or quantity. If properly cased up it cannot be affected by surface conditions and is entirely insect proof. The drilled well goes through formations which surface water cannot penetrate so that no contamination can reach the source of supply unless the casing should be faulty. If water is encountered in drilling, which is found undesirable, it can be cased off and drilling resumed until a desirable supply is reached.

The length of time required to drill a well, in comparison to digging one, also is worth considering. Drilling can usually proceed from 50 to 100 feet per day and the cost will not usually exceed the expense of digging through the same

formation. Of course, a gasoline engine or windmill, is required to pump water from a deeply-drilled well but when the proper equipment is put in the expense of upkeep will be small.

Johnson, Kan.

### Profits Farmers Are Losing

Last season a car of watermelons was loaded at an Oklahoma town for shipment to St. Paul. The car contained 1,050 melons, for which the grower received 5 cents each, after having hauled them 5 miles. The freight on the car to St. Paul was \$75, or 7½ cents a melon for the 600-mile haul by railroad, thus making each melon cost 12½ cents at St. Paul, or \$131 for the entire carload.

These were the sums paid to the producer and the railroad, yet the shipper who bought them from the farmer sold the melons in St. Paul for \$315 and the final consumer paid from 60 to 75 cents per melon, or from \$600 to \$750 for that same \$53 carload.

This incident was recently cited by B. F. Yoakum, head of the Frisco sys-

tem. Mr. Yoakum's point was that the men who farm themselves should organize for co-operative marketing purposes, and get a larger share of this 1,200 per cent profit for themselves.

J. A. Waugh, Tyrone, Okla., sends \$1 for his renewal to Mail and Breeze and writes: "We think there is no paper like the Mail and Breeze. It has helped me a great deal in my farming. The Mail and Breeze is about all the paper a man needs to take to be a successful farmer."

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YES, this offer means just what it says! I am making the most liberal and most remarkable advertising offer ever known. Here is your chance to secure a guaranteed, high-class sewing machine absolutely free of any cost. The conditions of this offer are so very simple and easy to meet that the offer is within the reach of every reader of this paper. YOU may secure one of these beautiful Gold Medal Sewing Machines without it really costing you one cent—without any soliciting or canvassing or public work of any kind.

That sounds unreasonable, you say? Well, maybe it does, but it will cost you but one cent for a postal card in order to get full particulars of my great offer and then prove for yourself that this offer is straightforward and sincere!

I want one woman in each neighborhood to take advantage of this most unusual offer. It will cost you but one cent to find out if the free machine offer is still open for your neighborhood—and my advice to you is to send your name for full details at once! The club has just been organized and very few neighborhoods have been supplied with a Gold Medal machine—so your chance is very good if you write at once. Those who do not secure a free machine can buy one for a very small price on monthly payments amounting to only a few cents a day on my co-operative club plan.

I am in the publishing business and the object behind the organization of the Copper Sewing Machine Club—and the "reason" for this great offer—is that I may have your assistance in introducing my seven papers and magazines in your neighborhood—and yet, I do not require you to do even the least bit of public work!

All I ask you to do is to send me the names of ten or more of your neighbors or friends. I will write them direct about my papers, and my new Sewing Machine Club. I will not even mention your name. You may ask your neighbors in to examine my machine and demonstrate to them its many good points—if you want to. That will help me very materially in my work. But there is no "agent" work, or public work of any kind for you to do!

Now, there you have the main points in my great offer. You see how easily you may secure one of these handsome machines by helping me secure subscription orders for my papers and members for my club—and without going outside of your home to do any work of any kind.

This is indeed a most wonderful offer—one that you surely cannot afford to miss—so send your name on a postal card or in a letter today. Don't send the list of ten names until you get my instructions. Just say "Send me full information about your Gold Medal Sewing Machine Offer." Sign your name and address and mail the card or letter right now! Be the lucky "first member" in your neighborhood. Address,

# Poultry Keeping

CONDUCTED FOR FARMERS MAIL AND BREEZE BY REESE V. HICKS, PREST. AMERICAN POULTRY ASSOCIATION.

We want you to talk chicken with us. Good short letters on poultry matters especially welcome. A year's subscription to Farmers Mail and Breeze is awarded each week for the most helpful bit of poultry experience, and for second and third best contributions subscriptions to other useful publications.

The warmer the weather the less corn should be fed.

Ducks will not do well when confined. Turn 'em loose if possible.

Movable, separate nest boxes, with wire bottoms are easy to clean.

Head off the lice and mites. Now is the time to thrust in the whitewash brush.

One of the big arguments in favor of the incubator is that the chicks are not born lousy.

Cornmeal and skimmilk make the best of feed to hurry chicks along to the fry and broiler stage.

Try a few moth balls in the nesting material of sitting hens and the vermin will be less troublesome.

More turkeys are injured by over-feeding than wrong feeding. Feed often but little at a time.—M. H., Effingham, Kan.

After the third day a mixture of broken grains is good for the chicks. Before that they are better off for having nothing but grit and water.

To rid the hen house of mites get a 25-cent spray pump and spray every crack and crevice with coal oil. Repeat this every two weeks.—Mrs R. E. K., Stockholm, Kan.

## Castor Oil For Bowel Trouble.

Mr. Editor—I believe I have found a simple remedy for bowel trouble in chicks. I have been experimenting with castor oil and just a drop given to a sick chick has cured in every case so far. In former years we lost dozens of them by this disease.

Odell, Ill. Mrs. F. L. Heath.

## Fare For the New Brood.

Mr. Editor—I do not feed my incubator chicks until about 48 hours old. They then get boiled eggs, sand or oyster shell, also plenty of water. After a few feeds of egg I change to oatmeal, cornmeal, or corn bread. A few days later I give them chop or Kafir. Bits of meat also are fed to take the place of worms they would otherwise have. Dry wheat bran is good for chicks, but there seems to be nothing like dry oatmeal to satisfy them. I raise only Barred Rocks and am trying to grade up my flock by culling out the smallest hens and those with odd markings.

Mrs. C. D. Pearson.

R. 2, Yale, Okla.

## How Goslings Are Reared.

[Prize Letter.]

Mr. Editor—Geese require very little feed. After they are feathered they need no shelter. I set 5 goose eggs under each hen to hatch them. I never put the eggs under the old geese. Make the nests on the ground where possible. About a week after eggs have been incubated I dip every egg in a pail of warm water, repeating this at the end of the second week. Usually we get a gosling for every egg at the end of the hatch, which is 28 to 30 days. As soon as they are dry I take the goslings out of the nest and when all are hatched put them in a small, dry pen, with a large box, the bottom of which is covered with dry earth or sand. They must have grit, preferably crushed oyster shells. I feed them corn bread soaked in sweet milk and give them sweet milk and water to drink. I put the milk or water in a rather shallow dish with a large stone in the middle of it so the goslings cannot get into it with their feet. After they are a week old they may be fed on bran mixed with

milk. I never turn them out until the dew is off the grass and always shut them up when a rain comes up. They like water but cannot stand being left in the rain or dew.

Nashville, Kan. Sarah Peters.

## "Specs" For a Chicken Eating Sow.

Mr. Editor—We owned a good sow that had the chicken-eating habit so badly she would try to jump over the fence when a chicken came near. We broke her by putting some "specs" on her, made of part of an old tin dust pan. The sharp edges were hammered down and with a couple of hog rings the tin was fastened to her ears so as to hang over her eyes. She would throw up her head on seeing a chicken and then start after it but the tin would drop over her eyes and she would run into the fence or another hog instead of getting the chicken. When she finally lost the shield she was broken of the habit. This is a good way also, to break fence creepers.

Mrs. S. S. Cawker City, Kan.

## When Hens Do the Hatching.

[Prize Letter.]

Mr. Editor—When my hens have been on their nests about a week and a half I take them off one at a time and carefully remove the eggs. Then I take out the nesting material, burn it and scald the nest box with boiling soap suds. Fresh nesting material is put in the nest boxes, the eggs replaced and the hens put back on their nests. The result is with no vermin to bother them, there will be little trouble with the hens leaving their nests. One must be careful the eggs do not get down into the litter the first day or two where the chick may die in the shell from lack of heat. The nest should be smoothed out to prevent this.

Mrs. Ella McDowell.

Galena, Okla.

## Look Out For Head Lice.

[Prize Letter.]

Mr. Editor—I find head lice the greatest enemy to young chicks. One cannot be too early in beginning the fight on them. On April 1, I took 326 chicks one hatch from an incubator, the others from hens. These chicks were all right the first two weeks, then some of them began to look droopy, then came bowel trouble and a good many died.

I had often examined these chicks for lice in the day time, but found few. One evening I examined them by lantern light and they were simply covered with head lice. This proved to me that the lice crawl off through the day but come back at night and that this was the time they weakened the chicks. I greased the chicks' heads and necks with hot lard. I find it much better to do this at night. They are more easily caught then and none escape the treatment. I also greased the hens on the head, about the vent, under the wings, and dusted their backs with lice powder. I have not lost a single chick since discovering the cause of the trouble. I am letting my chicks run with the hens and they have the full range of the farm.

Mrs. George Bobst.

R. 1, Basil, Kan.

## Coop and Runway for Chicks.

[Prize Letter.]

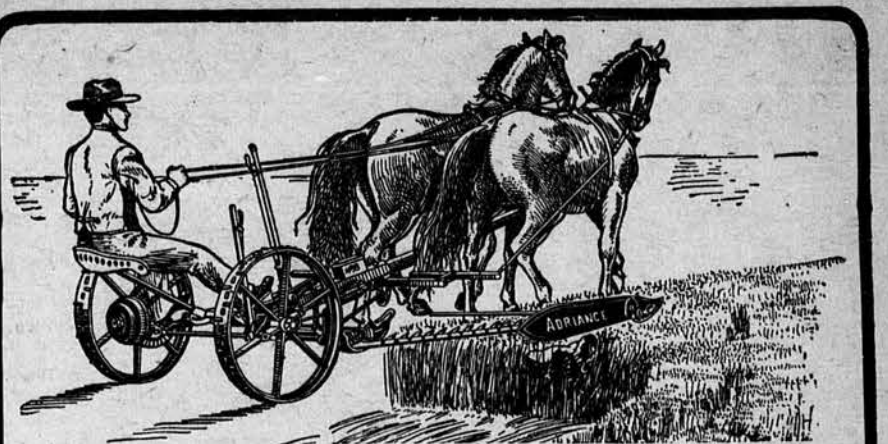
Mr. Editor—I have a handy coop and run in which I am raising chicks. The coop is 10 feet long, about 2½ feet wide, 18 inches high in front and 12 feet in the back. It is divided into four compartments, each about 2½ feet square. At the top under the eaves is a 6-inch board. A 4-inch space is left, covered with screen for ventilation. The space below this is provided with a 7-inch hinged shutter, being cut up into 2½-foot lengths.

For the runway I tacked 2 rods of 18-inch wire, 1-inch mesh, to uprights of 1 by 2-inch stuff, 3 feet apart. At the bottom of each of these uprights a block of 2 by 4 is nailed, and the fence will stand up anywhere. When not in use it may be rolled up and put away.

I never let hens run with the chicks for they drag them through the weeds, losing a good many of them. Taken care of in this pen they are very little trouble. By the time the second incubator hatch is off the first hatch may be moved into another compartment, and the newcomers allowed the runway.

Mrs. T. F. Penland.

La Harpe, Kan.



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It is very simple in construction. The main frame is a single piece—wonderfully strong and rigid, insuring perfect alignment of shafts and mesh of gears. It is the easiest to handle. The levers are handy and easily operated from a comfortable position in seat. One easy forward acting foot lever in front of the driver does the work with natural movement of the leg.

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### Mite-less Roosts and Nests

BY POULTRY CONTRIBUTORS

Mr. Editor—To kill mites on roosts and nest boxes we use a mop or brush and apply a solution of homemade lye and water, scrubbing them thoroughly. The same treatment is given to the coops used for the chicks. It may be applied to the whole inside of the poultry house with a spray pump. When this is done about once a week lice and mites will be hard to find.

Columbia, Ky. S. M. Suddarth.

**Whitewash the Henhouse.**—Mr. Editor—I find the best way to fight vermin is to begin early and give the poultry house a good coat or two or whitewash all over the inside. Get it into every crack and crevice, clean out the nests, burn the litter, and coat the boxes with whitewash inside and out. Get the coops ready for the chicks by scalding them well, then whitewash them all over. I clean out the house every week through the summer and scatter ashes about after every cleaning.—Mrs. P. M. Robison, R. 3, Tribbey, Okla.

**Coal Tar Solution.**—Mr. Editor—I buy ordinary coal tar by the gallon. This ought not to cost more than 25 cents in any locality. I dilute this to the right consistency with coal oil and apply it thoroughly to the inside of the chicken house with an old broom. Unless conditions are very bad it is not necessary to do this oftener than twice a year. Not only will it kill all insects in the house, but all those on the bodies of the chickens as they sit on the roosts at night, without injuring the fowls in the slightest.—Mrs. Lelia Munsell, Herington, Kan.

**Sulphur Fumes Effective.**—Mr. Editor—We have used stick brimstone in exterminating mites with the best of success. Make the henhouse as tight as you can. If necessary fill in the cracks with rags. Put ashes in a kettle with live coals on top. On the coals throw a small handful of brimstone broken in chunks the size of your thumb, then shut the door. Begin the smudge in the morning and continue it till 4 o'clock. Smoke with the brimstone four days in succession, then wait a day and smoke once or twice more. In this way we have kept the houses absolutely free from mites for 12 years.

Also we have a brass spray pump and spray the henhouse with gasoline, coal oil and formaldehyde, which is a good disinfectant. The pump costs \$3.—Mrs. H. W. Cronkite, Geneseo, Kan.

#### How Be Sure of Getting Good Stock?

Mr. Editor—I was greatly interested in Prof. Lippincott's article in the recent poultry special. The fifth paragraph, however, leads me to ask where we are to obtain the "strong, vigorous, purebred cockerels" he advises us to buy, unless some co-operative exchange is established at the college, or some standard is demanded before an individual is allowed to advertise. The papers are full of ads of cockerels at \$1 each. Any one with business judgment knows it is impossible to raise and sell first-class birds at that price. But these advertisements set the standard of value and to the average farmer \$1.50 for a bird is an "artificial and inflated" price to ask.

Two years ago I wrote a well known poultryman who advertises largely and has splendid birds at the shows, asking him to send me a half dozen large, blocky White Wyandottes. I set no limit on the price as I was willing to pay for

#### White Diarrhoea

Dear Sir: I see reports of so many losing their little chicks with bowel troubles, so thought I would tell my experience. I used to lose a great many of my little chicks from this cause, tried a good many remedies and was about discouraged with the chicken business. Two years ago they began to die and I thought I would try Walker's Walko Remedy. I used two 50c packages, raised 300 White Wyandotte chickens and never lost one or had one sick after getting the medicine. Readers can get it by sending 50c (M. O.) to the Walker Remedy Co., L 8, Lamoni, Iowa. I wouldn't try to raise incubator chicks without it.—Mrs. C. M. Bradshaw, Beaconsfield, Iowa.—Adv.

good birds. He answered he had just what I wanted—his last year's breeders, which he would sacrifice at \$2.50 each. I was elated, but when I came within 10 feet of the express office the ominous wheeze of the rump greeted me and two of the birds had to be isolated. Later they had to be killed. This man had very kindly sent us seven birds for \$15 and of the remaining five, all had scaly legs, two had blue eyes and three averaged about 4 pounds each. Only two, a pullet and a hen, were not entirely disqualified. The hen has never laid an egg.

I wrote him that at least he ought to send me a setting of eggs. He replied that I had received a bargain but that he would send me a setting from his best prize winners. Of the 15 eggs two broke in transit, nine were fertile, and five hatched. Of the three prize-winning Wyandotte chicks I sold three on the market as culls, and the other two were R. I. Reds. Now every Tom, Dick and Harry who buys a setting of eggs from such a breeder will the next year advertise purebred stock and eggs for sale cheap. The honest fancier simply cannot compete with this class and he goes out of business. So until we can have our flocks inspected and registered this dissatisfaction must continue and much of Prof. Lippincott's paper remain a theory.

Mrs. Christian Oveson.

Osage City, Kan.

#### Rise of Poultry Prices in 25 Years.

Mr. Editor—The writer has been buying poultry on the Topeka market for more than 30 years. During that time he has never seen better prices or better demand at this season of the year. Twenty-five years ago, at the time I was married, I did not feel we could have a chicken for Sunday dinner if it cost more than 25 cents, usually buying a dozen to pen in our yard when we could buy them for \$1.50 to \$1.80 per dozen.

Last Saturday we sold hens to retail markets in Topeka at 15 cent per pound. One lot in particular brought \$1.15 each, the coop selling for \$25.50, but the retailer could not sell these for less than \$1.25 each, or five times the price similar hens brought on the Topeka market a quarter-century ago. Eggs at that time commanded a price of from 7 to 12 cents per dozen during the spring and summer months. Now, it is seldom they can be retailed for less than 20 cents. The cost of feed has increased, yet there is always a demand for poultry and eggs at paying prices.

Turkeys also are as scarce as I have ever seen them. They are selling at 22 to 24 cents per pound live weight.

There need be no loss in shipping poultry if properly handled. Heavy hens should not be overcrowded as the days become warmer. Eggs can be shipped by freight rather than by express but on account of the prompt delivery by express all live poultry should be shipped that way.

Live ducks continue in demand at 15 cents per pound but geese at this season of the year are not desirable and few are offered. I shall be glad to correspond with any Mail and Breeze readers who need any help or instruction in regard to best methods of marketing produce.

Topeka, Kan.

#### Hatching Coop For Hens.

Mr. Editor—I have a hatching coop 10 by 12 feet long that holds from 12 to 15 hens. It is made of 12-inch boards. I divided this pen into runs 3 feet long and about 1 foot wide. This allows a square foot for the nest and a little space for the hen to come out to dust herself and eat. The nests are covered with boards, the runs with woven wire. The nests are right on the ground and I get splendid hatches. Each hen is by herself and no others can bother her. By this method it is also easy to keep the hens free from lice and mites.

Mrs. Lulu Shugart.

#### Need It To Run the Farm.

Mr. Editor—I have been a constant reader of the Mail and Breeze for several years. We think it is worth all the other farm papers put together, in fact we could not run the farm without it. I do not think a single letter in the poultry department has escaped me and they have taught me many valuable lessons.

Mrs. R. F. Morton.

R. 2, Toronto, Kan.

### Reliable Poultry Breeders

#### LEGBORNS.

**SINGLE COMB BROWN LEGHORN** eggs. Henry Ketter, Seneca, Kan.

**SINGLE COMB BROWN LEGHORNS.** Eggs 100 \$4. Mrs. Mattie Story, Cleo, Okla.

**SPONG'S** S. C. White Leghorns. Eggs \$3.00 per 100. Alex Spong, Chanute, Kan.

**EVANS'S SPECIALS** S. C. Brown Leghorn eggs, 100 \$4.50. Mrs. D. M. Evans, Edgerton, Kan.

**SINGLE COMB WHITE LEGHORN** eggs 15 \$1.00, 100 \$5.00. Royal Yeoman, Lawrence, Kan.

**BUFF LEGHORNS.** Baby chicks 12 1/2 cts. each. 100 eggs \$5. Mrs. John Wood, Solomon, Kan.

**EGGS** from S. C. Brown Leghorns, \$1.00 for 15, \$4.00 per 100. H. N. Holdeman, Meade, Kan.

**ROSE COMB BROWN LEGHORN** eggs 5c each. \$4.00 per hundred. Tillie Wilkins, Miltonvale, Kan.

**THOROUGHbred** S. C. Brown Leghorn eggs \$3 per 100. Hulda Keearns, Girard, Kan., Route 2.

**ROSE COMB WHITE LEGHORN** eggs \$1.00 setting, \$4.00 per 100. Cora Chittenden, Liberal, Kan.

**PURE S. C. BROWN LEGHORNS,** exclusively. Eggs, 30 \$1.00, 100 \$3.00. S. Oveson, Osage City, Kan.

**PURE BROWN ROSE COMB LEGHORN** eggs 3 1/2 cents each; 100 \$3.50. Laura A. Hazen, Hollis, Kan.

**ROSE COMB** Brown Leghorns. Kulp's strain. Eggs 75 cts. 15, \$3.50 per 100. Otto Borth, Plains, Kan.

**S. C. BUFF LEGHORNS.** Eggs from choice birds, 30 \$2.00, 100 \$4.50. J. A. Reed, Route 2, Lyons, Kan.

**S. C. WHITE LEGHORNS.** Free range; great layers. Eggs, 100 \$5.00, 13 75c. C. B. Wilson, Burlingame, Kan.

**SINGLE COMB WHITE LEGHORNS,** the big thrifty kind; 15 eggs 75c, 100 \$4.00. C. W. Connelly, Weirton, Okla.

**BAKER'S** S. C. W. Leghorn eggs, 100 \$6.00. Half price after May 15th. Dave Baker, Conway Springs, Kan.

**SINGLE COMB BROWN,** of which you will not be ashamed. Hundred eggs \$3.50. Pure bred. Carl Haug, Galena, Kan.

**EGGS FROM PURE BRED** S. C. White Leghorns. \$3.00 per hundred. Extra fine stock. Harry Givens, Madison, Kan.

**ROSE COMB WHITE LEGHORN** eggs. Fifteen, one dollar. One hundred, five dollars. Mrs. C. S. Wade, Miltonvale, Kan.

**DORR'S** prize winning pure Single Comb Brown Leghorns. Eggs \$3.00 per 102; \$2 \$1.25. Chas. Dorr & Sons, Osage City, Kan.

**SINGLE COMB BROWN LEGHORNS.** Choice stock; farm raised. Eggs \$1.00 per 15, \$5.00 per 100. Mattie Uim, Kincaid, Kan.

**EGGS FOR HATCHING.** Single Comb White Leghorns. Only breed on farm. Satisfaction guaranteed. Miss Skelley, Della, Kan.

**SINGLE COMB BROWN LEGHORNS.** 52 prizes at Newton, Arkansas City, Hutchinson, Wichita. Eggs \$5.00 per 100. W. J. Roof, Maize, Kan.

**ROSE COMB BROWN LEGHORN** range stock. Eggs \$3.00 per hundred, 75c per setting. Safe delivery guaranteed. O. C. Haworth, Fowler, Kan.

**DORR'S** prize Rose Comb White Leghorns won 10 ribbons and champion silver medal. \$1.00 per 15, \$4.00 per 100. Also baby chicks. A. G. Dorr, Osage City, Kan.

**EGGS** from pure bred White Leghorns. Both combs. Cut prices. Fine stock. 16 \$1.00, 100 \$4.00. Satisfaction guaranteed. R. J. Edgar, Dodge City, Kan.

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**S. C. W. LEGHORNS.** My specialty 24 years. Snow white, persistent layers, vigorous, beauties and debt payers. Eggs, \$1.50 for 15; \$5 per 100. Geo. S. Phillips, Tecumseh, Neb.

**ROSE COMB BROWN LEGHORNS.** Kulp's 242 egg strain. Winners first pen Hutchinson, 1913. Eggs \$1.00 15, \$5.00 100. Infertiles replaced once. (Golden Seabright Bantams.) A. B. Boylan & Co., Lakin, Kan.

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**INDIAN RUNNER** eggs \$1.00 per 13, \$3.00 per 50. G. Richmond, Alma, Kan.

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**RUNNERS,** Fawn and White. Eggs, \$1.00 per 15. Mae Paup, Carrollton, Mo.

**FOR SALE**—English Indian Runner ducks, \$1 each. Paul Grill, Ellsworth, Kan.

**EGGS**—White Runners, Fawn and White, Buff Orpington duck and hen eggs. Mrs. T. N. Beckey, Linwood, Kan.

**INDIAN RUNNER** ducks. Topeka fair winners. Satisfaction guaranteed. Burt White, Burlingame, Kan.

**WHITE AND FAWN,** white egg strain, Indian Runner ducks. Eggs \$1.00 for 13. Mrs. F. W. Bertschinger, Lecompton, Kan.

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**FAWN AND WHITE** and brown and white prize winners. Indian Runner duck eggs 15 for \$1.00, 100 for \$5.00. E. O. McKinney, Lafontaine, Kan.

**INDIAN RUNNERS** of quality. American Standard Light Fawn and White. Eggs \$1.50 and \$2.00 per 15. Dr. E. H. Killan, Manhattan, Kan.

**INDIAN RUNNER** eggs \$1.00 per 13, \$3 per 50, \$6 per 100. American Standard fawn and white. White eggs. Pearl Wertzberger, Alma, Kan.

**INDIAN RUNNERS,** American standard light fawn and white. White egg strain. Eggs \$1.50 per 13, \$4.50 per 50. Mrs. Otis Russell, Canton, Kan.

**INDIAN RUNNER** ducks, light fawn and white. High scoring, good layers. Absolute white egg strain. Eggs, 13 \$1.50, 26 \$2.50, 50 \$4.00. Olive Baker, Fredonia, Kan.

**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.

**NOW IS THE TIME** to get a start with the famous Indian Runners. Light fawn and white and English Penciled. Eggs 15 for \$1, 100 for \$5. Mrs. Ed Bergmann, Route 9, Paola, Kan.

**FAWN AND WHITE RUNNERS.** White eggs. Won 3 blue ribbons State Show, 1913. Per 15, \$1.50. Per 2, \$1.00. Rose Comb Reds, excellent stock, 15 \$1. Julia Little, Conway Springs, Kan.

**FAWN AND WHITE** Indian Runners, white eggs. Yard A, exhibition quality, \$2.00 per 15; yard B, \$1.25 per 15, \$3.50 per 50, \$6.00 per 100. Pure White Runners, eggs \$3.00 per 12. Free circular. Stover & Myers, Fredonia, Kan.

#### SPANISH.

**WHITE FACE BLACK SPANISH** eggs for hatching, 15 \$1.00, 30 \$1.80. A. W. Swan, Centralia, Kan.

**PRIZE WINNING** Black Spanish eggs and baby chicks. Also Black Tailed Japanese Bantams. Stamp for circular. H. W. Chestnut, Kincaid, Kan.

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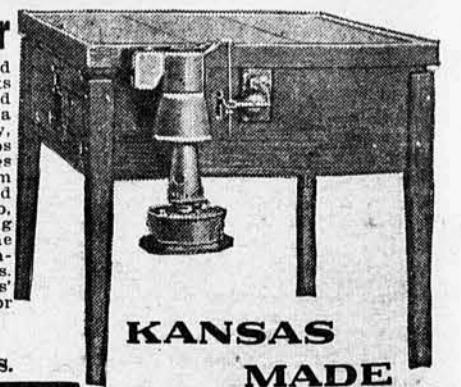
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BARRED ROCKS exclusively. Eggs, 100 \$4.50, 30 \$1.75. Catherine Beightel, Holton, Kan.

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WHITE ROCKS. Free range. Eggs, 15 75c; 100 \$3.00. H. F. Richter, Hillsboro, Kan., R. 3.

BARRED ROCKS, big boned, fine barred. \$1.00 15, \$4.00 100. Mrs. Wm. Sluyter, Jewell, Kan.

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INIMITABLE White Rocks. Great prize winners. Range eggs selected, hundred \$5.00. Special matings, on application. Win everywhere. Select breeding pens, \$10.00. Sidney Schmidt, Chillicothe, Mo.

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BLACK LANGSHAN eggs reduced to \$1.00 per 15, \$4.00 per 100. Geo. W. Shearer, Elmhurst Farm, Lawrence, Kan.

TENNEHOLM LANGSHANS. The big, black kind that will lay in winter. Eggs \$1.50 per 15, \$2.50 per 30. Mrs. E. S. Myers, Chanute, Kan.

BIG BONED greenish glossy Black Langshan, score 92 to 96 hens \$1 each. Cockerels \$2.50. Eggs 10 cents each. Guaranteed. H. Osterfoss, Hedrick, Iowa.

LIGHT BRAHMAS.

MAMMOTH Light Brahmata. Mating list free. Mrs. J. F. O'Daniel, Westmoreland, Kan.

Reliable Poultry Breeders

WYANDOTTES.

SILVER WYANDOTTES. 100 eggs \$4.00. Mrs. C. C. Henderson, Solomon, Kan.

SILVER WYANDOTTE eggs \$1 and \$2 per setting. Cecile McGuire, Pratt, Kan.

WHITE WYANDOTTES. Eggs 4 cents each. Mrs. M. F. Austin, Miltonvale, Kan.

SILVER WYANDOTTES, prize winners; 100 eggs \$5.00. Mrs. J. W. Gause, Emporia, Kan.

GOOD SILVER WYANDOTTES. Eggs \$1 setting, \$5 100. John Pagan, Minneapolis, Kan.

SILVER LACED WYANDOTTE eggs, 100 \$4, setting 75c. Mrs. Emma Downs, Lyndon, Kan.

SILVER LACED WYANDOTTE eggs, \$1.00 15, \$5.00 100. Alvin Tennyson, Miltonvale, Kan.

WHITE WYANDOTTES. Farm range. Eggs, fifteen \$1.00, 100 \$5.00. Mary Scott, Chase, Kan.

WHITE WYANDOTTES. Duston strain. Eggs 15 \$1.00, 100 \$5.00. Mrs. Geo. E. Joss, Topeka, Kan.

WHITE WYANDOTTES exclusively. Eggs, 100 \$4.50, 30 \$1.75. Mrs. Will Beightel, Holton, Kan.

GOLDEN WYANDOTTE eggs 15 \$1.00, parcel post; 100 \$3.00. Mrs. John Jevons, Wakefield, Kan.

WHITE WYANDOTTE chicks 12 1/2 cts, eggs fifteen 75c, one hundred \$4. Mrs. F. J. Myers, Erie, Kan.

COLUMBIAN WYANDOTTES. Select matings. Eggs, \$2.00 per 15. B. F. Martin, Dodge City, Kan.

PURE BRED White Wyandottes. Fishel strain. Eggs \$1.00 15, \$5 100. Alice M. Barnes, Atlanta, Kan.

FARM RAISED Silver Wyandottes. Eggs \$1 15, \$5.00 100. Baby chicks \$10 per hundred. Julia Haynes, Balleysville, Kan.

WHITE WYANDOTTE eggs 15, for 75c, \$4.00 per 100. Special price on larger numbers. Mrs. H. G. Stewart, Tampa, Kan.

WHITE WYANDOTTES, Houdans, Indian Runner ducks. Eggs for hatching from prize winning stock. Mrs. D. T. Smith & Sons, Burns, Kan.

COLUMBIAN WYANDOTTE eggs \$1.60 per 15 delivered. Safe delivery guaranteed by parcel post. Address Walter Hogue, Fairfield, Neb.

WHITE WYANDOTTE chick and eggs. Infertile eggs replaced, also any loss in chick. 13 years' experience. Mrs. M. E. Johnson, Humboldt, Kan., R. No. 2.

SILVER LACED Wyandottes exclusively 16 years a breeder, eggs from choice matings \$2.00 per 15. Utility stock \$1.00 per 15. W. A. Hunter, Manhattan, Kan.

SILVER LACED WYANDOTTES—Eggs, 15 \$1.00, 100 eggs \$5.00. I guarantee 60 per cent hatch or will duplicate order at half price. F. W. Bethke, Lebo, Kan.

"PIX" BUFF WYANDOTTES—Prize winners. Breeding stock, baby chicks; eggs for hatching. Prices right. Write for mating list now. Geo. B. Pickering, Olathe, Kan.

SILVER LACED WYANDOTTES—Eggs, 15 \$1.00; 100 eggs \$5.00. I guarantee 60 per cent hatch or will duplicate order at half price. Write for circular or order direct. S. B. Dressler, Lebo, Kan.

FOR SALE—Fine thoroughbred White Wyandotte eggs for hatching, fertility guaranteed, \$1.00 a setting, \$5.00 a hundred. Carefully packed. Mrs. H. S. Tonnenmaker, R. F. D. No. 2, Beatrice, Neb.

BUFF WYANDOTTES. Prices cut for balance of season. Eggs from all our breeding pens at \$1.50 per 15, \$5.00 per 100. Baby chicks \$1.50 per dozen. Send for mating list. Wheeler and Wylie, Manhattan, Kan.

TURKEYS.

MAMMOTH BRONZE eggs 25 cts. each. Carrie Thompson, Cimarron, Kan.

EGGS from prize winning Mammoth White Holland turkeys, \$2.50 per setting. S. H. Lenhart, Abilene, Kan.

BOURBON RED turkey eggs, \$3 for 11; with directions for raising them. Mrs. C. B. Palmer, Uniontown, Kan.

BOURBON RED turkeys. Mostly two-year-old breeders. Standard size and markings. Eggs \$3.00 per 11. Stover & Myers, Fredonia, Kan.

ANCONAS.

MOTTLED ANCONAS exclusively. Eggs, 15 \$1.00, 100 \$5.00. Lucie House, Haven, Kan.

MOTTLED ANCONAS. Eggs reduced to \$1.25 a setting or \$5.00 a hundred. W. Hardman, Frankfort, Kan.

MINORCAS.

SINGLE COMB BLACK MINORCA eggs, \$15 \$1.00, 30 \$1.75. Sarah Peters, Nashville, Kan.

S. C. WHITE MINORCA eggs; choice matings \$1.75, utility \$1.25 per 15. Mrs. J. I. Bower, 488 Wabash Ave., Topeka, Kan.

BUFF COCHINS.

BUFF COCHIN eggs \$2.00 and \$3.00 per 15. Mrs. L. O. Housel, Smith Center, Kan.

FOR SALE—Buff Cochins of quality. Send for mating catalog. J. C. Baughman, Topeka, Kan.

Reliable Poultry Breeders

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WHITE ORPINGTONS (Kellerstrass strains). Eggs \$1.50 per 15. Dr. Newsome, Iola, Kan.

SINGLE COMB BUFF ORP. eggs \$5 per 100. Or incubator lots. Flora Watson, Altoona, Kan.

GOLDEN BUFF Orpington Cockerels \$3.00 each. Eggs \$5.00 per 13. Dr. Pierson, Spring Hill, Kan.

KELLERSTRASS White Orpington eggs, 15 \$1.00. Parcel post, 100 \$4.00. Mrs. John Jevons, Wakefield, Kan.

SINGLE COMB Golden Buff Orpingtons. Cook's strain. 30 eggs \$1.75. 100 \$4.75. White House Poultry Farm, Salina, Kan.

BUFF ORPINGTONS and Rose Comb Brown Leghorns. Stock and eggs. Prices reasonable. Clarence Lehman, Newton, Kan.

WHITE ORPINGTON eggs at reduced prices. Excellent stock; heavy winter layers. Catalog free. P. H. Anderson, Box M-53, Lindsborg, Kan.

KELLERSTRASS White Orpingtons. Prices vrey reasonable. Send card for free illustrated catalogue. Phillips Poultry Farm, De Soto, Kan.

GERTRUDE GEER'S Gold Nugget strain S. C. Buff Orpingtons. Winners sixty premiums, two silver cups. Farm range; no pens. Eggs \$1.50 per 15. Winfield, Kan.

DON'T OVERLOOK OVERLOOK FARM. Buff, White, Black Orpingtons. Won 99 premiums at Omaha, Kansas City, Sedalla, Lawrence, Hutchinson and Topeka. Eggs from nine mated pens. Pens No. 1, No. 2 and No. 3 at \$7.50, \$5.00 and \$3 per 15 eggs. Get my big mating list. After May 25th eggs half price. Stock for sale reasonable. Send for prices on pens of choice breeders. Chas. Luengene, Prop., Box B149, Topeka, Kan.

GUINEAS.

PEARL WHITE GUINEA eggs, \$2.00 per 15. J. L. Carmean, Neosho Falls, Kan.

HOUDANS.

HOUDAN eggs 13 for \$1.00. Mrs. August Smith, Olsburg, Kan.

HOUDANS, world's greatest winter layers. Eggs \$1.25 per 15. Lee Biglin, Alta Vista, Kan.

SEVERAL VARIETIES.

BLACK LANGSHAN and Houdan eggs 1/2 price after May 1st. E. D. Hartzell, Rossville, Kan.

ROSE COMB REDS, Silver Laced Wyandottes. Eggs 17, \$1. 100, \$5. Mrs. Ola Elliott, Delphos, Kan.

BREEDER AND JUDGE of all land and water fowls. Terms and catalog free. C. W. Brehm, Route 4, Harvard, Neb.

FAWN AND WHITE Indian Runners, Mottled Anconas. Stock and eggs for sale. G. W. Skinner, Baxter Springs, Kan.

BABY CHIX. Barred Rock, Buff Orpington, \$1.50 per dozen. May and June delivery. Mary Clark, Conway Springs, Kan.

43 VARIETIES, Poultry, Pigeons, Ducks, Geese, Turkeys, Guineas, Incubators, Dogs. Catalogue 4 cents. Missouri Squab Co., Kirkwood, Mo.

EGGS! EGGS! EGGS!—From F. B. S. and W. F. B. S. chickens, \$1.50 per 15. Satisfaction guaranteed. Gus H. Lawrence, Lawrence, Kan.

STOCK, BABY CHICKS, EGGS: Leading varieties, \$1.50 per 15 \$6.00 per 100. Quality high. Circular free. K. I. Miller, Box B, Lancaster, Mo.

EGGS—All three kinds of pure Indian Runner ducks; white egg strains. S. C. Black Minorcas, S. C. White Leghorns. Eggs guaranteed. Write for prices. D. M. Christy, Blackwell, Okla.

ROSE COMB RHODE ISLAND RED eggs. Pen A, \$1.50 per 15; Pen B, \$1.00 per 15. Barred P. Rocks, range stock, 75c per 15; \$4.00 per 100. Light fawn and white Indian Runner ducks \$1.00 per 12. C. J. Woods, Chiles, Miami, Kansas.

COOK'S BARRED ROCKS

I am offering you eggs from the greatest winning and laying strain in the West, at the very low price of \$1.50 per 15, \$3.50 per 50 and \$6.00 per 100. May and June is the month to hatch your layers and winners for next season. Address CHAS. J. COOK, Box B, Marysville, Kans.

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 highest quality at let live prices. Write for descriptive circular. Address W. F. HOLCOMB, Mgr. Nebraska Poultry Co., Clay Center, Neb.

ARE YOU INTERESTED in a remedy that is positively guaranteed to prevent and cure all white diarrhoea in baby chicks? Send four cents in stamps for generous sample and circular; do it now. O. K. REMEDY CO., Waynoka, Okla.

DR. PIERSON'S No Cure No Pay Poultry Cholera Remedy, \$1.00 per box. SPRING HILL, KANSAS.

DR. PIERSON'S Poultry Insect Powder, "Does the Work" 75c per box. DR. PIERSON, Spring Hill, Kansas.

# 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. Prizes for the three best suggestions received each week will be, respectively, a set of triple-plated teaspoons in the beautiful Narcissus design, a year's subscription to the Household magazine, and a year's subscription to the Poultry Culture magazine.

If the children haven't a bubble pipe they can blow bubbles through their fist. Ever try it?

To keep moths out of carpets wash the floor with a strong brine before laying the carpet, and sweep with salt once a week.—Mrs. N. Davidson, Logan, Kan.

Topeka is to have two women policemen. They took their examination according to the civil service rules last Saturday, and are to be installed in office in a few days.

This probably would come under the head of reducing the high cost of living: Last summer I knew a man living a mile from his railroad station on a direct line from Kansas City, who let 200 bushels of peaches rot on his trees because he couldn't sell them for enough to make it worth while to pick them. At the same time in Kansas City, 230 miles away, peaches were selling for \$1.75 and \$2 a bushel. Hand-picked apples were sold at the same place at picking time for 35 cents a bushel; two or three months later apples not as good were sold in Topeka for 65 cents a bushel. And the difference isn't all a matter of transportation, or of cold storage.

### A Good Home Paper.

We read with interest the many letters and suggestions in the Woman Folks' department and consider it one of the best departments of this best of farm papers. George W. Dart. Montrose, Kan.

### Cream Pie.

To 1 cup brown sugar add 1 tablespoon flour, 1 tablespoon butter and the beaten yolks of 2 eggs. Flavor with vanilla. Stir until smooth, then add enough milk to make a custard, and the whites of 2 eggs well beaten. Bake with one crust. Beryl Freeman. Route 1, Harper, Kan.

### From One Wise Mother.

I teach my boys to help do house work keeping hired help. But help is a thing of the past in these parts. I heard a lady say it did not require strength to keep house, it took management. I find with a family of six to do for that it requires both. Mrs. Mary C. Jesse. R. 3, Severy, Kan.

### One Way to Use Dry Bread.

Take about as much dry bread as you would use for making dressing for a good sized chicken, and put to soak as for chicken dressing. Squeeze nearly all the water out, then add 1/2 teaspoon black pepper, 1 tablespoon sage, 1 tablespoon butter, salt to suit taste, and 2 good sized pieces of side meat. Work all together, put in roaster, and bake for 1 1/2 hours. This tastes like chicken dressing. We all like it. I am 13 years old and keep house for a family of nine, my father, five brothers and two sisters. Gladys Mathes. R. 1, Grand Valley, Okla.

### Mouth Breathing a Bad Sign.

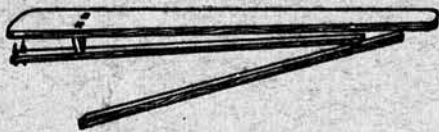
"Mouth breathing is an indication that something is wrong," said Mrs. Alice Marks Dolman, instructor in home nursing and dietetics at the Oregon Agricultural College, in one of her lectures. "It may be that the nose is stopped up because of secretion, because of enlarged tonsils or because of adenoids. The tonsils may become so enlarged that they produce a pressure upon the inner ear and cause deafness. Adenoids may, and do, become so large that the space back of the nasal passages is completely closed. "A mouth breather does not sleep as well as the ordinary child. He usually snores. His voice becomes unsound in

tone, and clear pronunciation is difficult. In time his face takes on a dull, apathetic look, and he gets a name of being stupid in his studies. Unless the adenoids are removed he is handicapped both physically and mentally."

### An Ironing Board That Works.

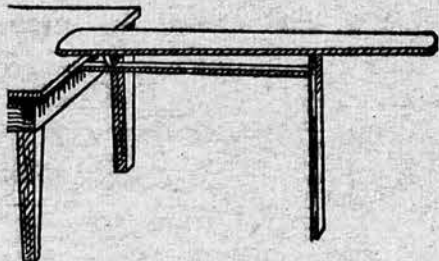
[Prize Letter.]

I am enclosing the plan of an ironing board I made for my wife; it will clamp on the table, and she says it is a dandy. The board is 4 feet long, 12 inches wide at one end, tapered to 8 inches at the other. The clamp which



OPENED, READY TO ATTACH

runs beneath the board is 2 1/2 feet long, 8 inches wide at the back and tapered to 5 inches in front. The leg is a piece of 1 by 4 long enough to make the board level when clamped to the table. The clamp is attached to board with two square-headed bolts which run through ironing board, through a beveled spreader (if table is 1 inch thick the spreader should be 1 1/4 inches thick),



BOARD CLAMPED TO TABLE

and through the clamp board. Chisel out room for the heads of bolts till they will sink flush with the top of ironing board. Don't use round-headed bolts, as they leave a depression in the top. Two screws put through the end of clamp from the under side and projecting 1/4 inch give a firm grip on the under side of table. Three inches from the top of leg attach a 3-inch hinge, which should be fastened to clamp board as shown. Use poplar for ironing board if you can get it. It is light and won't warp. Pine will do for the rest.

To attach the board to the table fold the leg back, which will open the clamp enough to slip it on edge of table. Straightening the leg makes the clamp grip the table. This board will fold up in a small space when not in use. F. H. Marshall. Garden City, Kan.

### Making an Old Mattress Useful.

Once upon a time I had an old mattress which it seemed impossible to free of bugs. Having been put to rather hard use and moved from one old rent house to another it was somewhat dirty, too. So I decided to discard it. But do not think I destroyed it. I cut along the edges and took out the padding. The shavings I burned, the cotton I spread out upon a clean surface, scalded thoroughly, and left it to dry. I boiled the tick and dyed it a dark blue. When dry I made a comfort of it, using the same cotton. This makes a good wagon quilt or pallet. Mrs. E. T. Southwest City, Mo.

### What Shall She Do For Baby?

We have a baby boy 4 months old, and he always has sore eyes. We did not notice it much the first three weeks. I have used milk, tea, and we had something from a doctor once, too. But it all hasn't done any good. Clean water seems to make them look best. They matter in the corners, and tears are in them most of the time. He can see all

right, but he can't stand the sun outdoors. It's too light. If anyone can tell me what is good for them I would be so thankful. The baby's grandmother thinks they will get better by and by, but it seems to me they are about the same. A Nebraskan.

Diseases of babies' eyes are so very apt to be serious that if I were in this mother's place I should take baby at once, without a single day's delay, and see a doctor who knows how to care for the eyes. Many a person has suffered tortures for a lifetime and many others have gone blind just because their eyes were not given needed attention during the first few weeks or months. This isn't said to frighten anyone, only to emphasize the need of medical care. Lincoln, Neb., with its expert physicians, is not more than 50 miles away from this mother. And the services of an expert eye specialist do not come high. It may cost more than you feel just now you can afford. But what is that compared with the life success and happiness of your boy?—Editor.

### Keeping the Children Interested.

Being the mother of four small boys, all under 6 years of age, I find a blackboard a very nice thing to have in the home. My blackboard cost me just 70 cents. I got 1 1/2 yards of blackboard canvas, a can of liquid slating, and a small paint brush, and painted the board myself. I have it on the wall of our sitting room, and by its use I have taught our 5-year-old boy to read. Small children always love to "mark" so in bad weather the blackboard keeps them entertained. One can get the colored crayon, and the children will enjoy their work better than with the white crayon. Southwest City, Mo. Mrs. E. T.

### Rule for Washing Fluid.

One ounce of ammonia, 1 ounce borax, 1 ounce turpentine, 1 box of potash or 1 can of lye. Dissolve the potash in 8 quarts of boiling water—soft water is best—then add the borax and ammonia. When the mixture is cold add the turpentine.

On the morning you wash put the white clothes to soak in cold water, and put the wash water on to heat. Cut up a half bar of soap in the wash water, add a teaspoonful of the washing fluid, and stir until it is thoroughly mixed. Wring out the clothes that have been soaking and put in to boil. After they have boiled 20 minutes rub the soiled spots with soap. Rinse twice in the washing machine, the second time in bluing water, and they are ready for the line.

The colored clothes should be put to soak in cold water and washed the same way except they will need more rubbing in the machine or on the board, and should not be boiled. The entire cost of the washing fluid is 25 cents, and it will do 20 ordinary washings. It can be kept in earthen jars or jugs if they are kept closed. Mrs. Ella Kamping. Route 2, Cleo, Okla.

### 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.

## Bovee's Compound Horizontal Furnaces at Manufacturer's Prices

Save 40% of fuel and cost. Burn perfectly coal or wood. 16-inch doors. Heavy coal grates—large combustion chamber—compound radiator.



Long travel of heat. Easy to operate. Most practical heating plant for all buildings, especially for farm use.

Will soon save cost in fuel.

Write for particulars.

Bovee Furnace Works, 166 8th St. Waterloo, Iowa

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Everyone admits the necessity of lightning rods. They are recognized by insurance companies as being a great factor in reducing the fire risk. "Made-Right" Lightning Cable is of the best quality copper and is extra heavy, as shown by the illustration. Sold direct to the user, freight prepaid, foot 8 1/2c. Don't wait. We save you 50% of the cost of rodding your buildings and give you full directions for putting them up so that you can do it as well as anyone. Write for circular giving particulars. IOWA LIGHTNING ROD CO., 217 E. Leavelle St., DES MOINES, IA.

### DAISY FLY KILLER



placed anywhere, attracts and kills all flies. Neat, clean, ornamental, convenient, cheap. Lasts all seasons. Made of metal, can't spill or blow over; will not soil or injure anything. Guaranteed effective. Sold by dealers, or six sent prepaid for \$1.00.

HAROLD SOMERS, 150 DeKalb Ave., Brooklyn, N. Y.

## Feather Bed Bargains

Send us this ad with \$10.00 Money Order and we will ship you one first-class, New 40-pound Feather Bed, one pair 6-pound New Feather Pillows, worth \$2.50; one 6-pound New Feather Bolster, worth \$2.50; and one pair Full Size Blankets, worth \$3.50, all for \$10.00. All New goods and no trash. Biggest bargain ever offered. Satisfaction guaranteed. This offer is good for a short time only. Mail money order now or write for circular and order blank. Reference, American Exchange National Bank. Address SOUTHERN FEATHER AND PILLOW CO., Dept. 54, Greensboro, N. C.

## Sweet Potato PLANTS

Yellow Jersey Sweet Potato, 25c per 100, \$2 per 1000  
Bradley Yam Sweet Potato, 50c per 100, \$4 per 1000  
All plants are grown in our own hothed from home grown seed and are guaranteed to grow and bear. Shipments made anywhere by parcels post or by express. Cash to accompany order. Write for prices on large quantities.  
J. E. LUCAS FEED CO., Oklahoma City, Okla.  
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WARTCO Guaranteed to remove warts from man or beast. Absolutely harmless. No scars. No pain. No stain. 50c tube. Send to Westfall Drug Co., Oklahoma City, Okla.

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By special arrangement we are enabled to offer yearly subscriptions to the following publications together with a year's subscription to the Farmers Mail and Breeze, at reduced prices for the combination. We furnish any publication in the country, in connection with a year's subscription to the Farmers Mail and Breeze at reduced rates. If any publication not named below is desired, write for rates on it and the Farmers Mail and Breeze together. Why not order your other newspapers through us? We can save you money and guarantee prompt and courteous treatment. Address MAIL AND BREEZE, Topeka, Kan.

Regular price for the year	NAME OF PAPER AND PLACE OF PUBLICATION.	Our Price for both
\$1.50	St. Louis Republic.....sw	\$1.35
1.25	Farm Progress.....sw	1.15
2.00	Chicago Inter-Ocean.....	1.25
1.25	Weekly Capital.....	1.15
5.00	Century Magazine, N. Y.....m	4.50
2.00	Cosmopolitan, Irvington, N. Y. m	1.85
1.50	Farm & Home, Chi. & Spfd. sm	1.25
5.00	Harpur's Magazine, N. Y.....w	4.30
2.00	Kansas Farmer, Topeka.....w	1.75
2.25	Munsey's Magazine, N. Y.....m	1.95
1.50	Poultry Culture, Topeka.....w	1.10
4.00	Review of Reviews, N. Y.....m	3.50
3.00	The World, New York.....tri-w	1.65
2.00	Toledo Blade, Toledo.....w	1.25
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3.00	Breeders Gazette, Chicago.....w	2.90
2.00	New York Weekly Tribune.....	1.75
2.00	The Commoner, Lincoln, Neb....	1.65
2.00	Success Magazine.....	1.85
2.50	Woman's Home Companion.....m	2.00
2.00	Campbell's Scientific Farmer....	1.75
1.75	Farm Journal, Phila., 5 years....	1.70
1.25	Kimball Dairy Farmer.....	1.25
2.00	Globe-Democrat, St. Louis.....sw	1.40
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1.50	Every Woman's Magazine.....	1.30
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2.00	La Follette's Magazine.....w	1.60
1.50	St. Louis Star Farmer.....	1.35

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These patterns may be had at 10 cents each from Farmers Mail and Breeze.

Ladies' Dress No. 5731 is made with a three-piece skirt. The pattern is cut in 6 sizes, 32 to 42 inches bust measure. Size 36 requires 4 1/2 yards of 36-inch goods with 1/2 yard of 18-inch lace all-over.

Boys' Russian Suit No. 5947 is cut in sizes 2, 4 and 6 years. Age 6 requires



3 yards of 36-inch goods, with 1/4 yard of 27-inch contrasting material.

Misses' Dress No. 5988 is cut in sizes 14, 16 and 18 years. Age 16 needs 5 1/2 yards of 36-inch material with 1/4 yards of 24-inch contrasting goods.

**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 .....

P. O. D. or St. No. ....

**BE SURE TO GIVE NUMBER AND SIZE.**

**Saves On the Sweeping.**

[Prize Letter.]

I have seen so many helpful things on the Woman's Page I want to pass along an idea that has been helpful to me. For some time my health has been so I have had to plan to make things neat and yet work-saving. Sweeping is one of the hardest tasks about the house for the not-too-strong woman. Last spring I took my room-size rug off my bedroom and put on a piece of old linoleum that was so faded it was not fit for a kitchen. Then I took about 50 cents worth of japa-lac and hard oil and made it a beautiful light tan, the color that shows dirt least, in good imitation of an oil floor. All summer long I had a nice, clean, sanitary room; in winter a rug by the bed makes it warm, and every bit of dust and lint so common when a house is closed, is swept up every day. It is neat all the time. A piece of linoleum large enough for

any bedroom can be bought at a second hand store for about \$2, and it will have to be refinished about once in two years for ordinary use. It will outlast six carpets. And the beauty of it is when spring comes work is saved again. Simply wash your wood work, mop your linoleum, and your house cleaning is over. The drudgery of lifting, beating and tacking germ-laden carpets is saved.

Mrs. O. L. Dalton.

Winfield, Kan.

**Why Living Costs So Much.**

[Prize Letter.]

I see girls getting married at an age closely akin to childhood. Many of them have never cooked a meal all by themselves in their lives, never planned one, never ordered a bill of groceries, and never paid a bill. Who could expect economy? Why are girls not trained for such an important part in life? A girl—or boy either, for that matter—can no more manage a home in the proper way, without training, than she could read without learning. Many excuses are made for this lack of practical training. One mother says her girls will never do household drudgery. But what could be more refining or ennobling than to understand home making and home keeping even if they never need to cook a meal or dust a room? In many homes there is only sufficient income to get along by careful management. A slight mistake would be felt by the whole family; hence the mother, having learned by experience how to buy the best for the least money, naturally assumes the responsibility. Not only is this true with eatables, but with clothing and household supplies. But what mother would think of letting her daughter grow up without learning to read, however great the cost or the inconvenience? Let the children buy for themselves. Teach them to live on a certain sum of money, and to lay aside a little. Each child should have her (or his) own things and take care of them. If we expect to cut down living expenses we must begin at the beginning. Lessons learned in childhood will be lessons ne'er forgotten.

Aetna, Kan. Mrs. W. G. Boyd.

**Where Mother Can Help.**

[Prize Letter.]

How many times we have heard mothers say, "Oh, when Mary was such an age how much more accomplished she was than the younger one! Why, when Mary was such an age she could do her own sewing, and could get a splendid meal, and arrange her hair just so. She was at the head of her class at school, and a fine musician, and could embroider just lovely. But her younger sister seems so slow. I don't think she will ever amount to anything. She seems to have no talent. Mary was talented in so many respects."

And what is mother doing all the time? Nine times out of ten she tells this to a neighbor in the presence of her daughters, which will never better the case. Of course it is thoughtlessness on her part; but the younger one will remember it as long as she lives, and always feel bad that mother never could see any good in her.—It will always cause her to envy her older sister, and the older sister will be bound to cultivate a selfish disposition and feel she is brighter and more intelligent. So the mother has benefited neither of her girls.

Now, mothers, let's try to encourage the one we think the "black sheep," as so many put it. Try to give her a word of praise, and if there really is a difference don't tell about it in their presence, for when you do you are wronging them both. Try to give them the same opportunity, and watch the results.

Mrs. Robert Ragsdale. Agra, Kan.

**That Last Summer's Hat.**

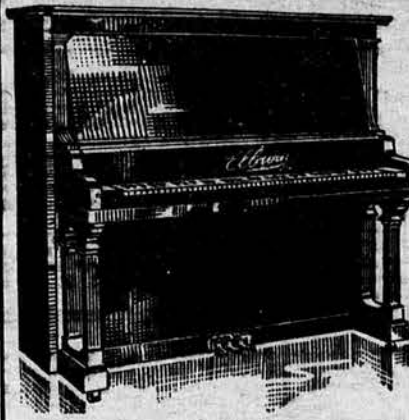
If you have a nice straw hat left over that would be all right for use another season if it were not dirty, take sulphur and wet it to a thick paste with lemon juice. Apply freely with a brush, lay out in the hot sun till dry, then brush off. Usually one application will make a milan or any other braid fresh and new.

Mrs. O. L. Dalton. Winfield, Kan.

Couldn't very well get along without the Mail and Breeze.—B. Newlin, Del Norte, Colo.

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Dependable Pianos—made by factories of recognized reliability—sold strictly on their merits, and exactly for what they are—and not only warranted by the makers but by Jenkins—that's the way pianos are sold here. Strictly one price—and a popular price—a price that takes advantage of every saving that comes from perfect organization, economical selling methods and a tremendous volume of business—that's the Jenkins way.

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Amarillo, Tex. Gentlemen—Received the piano today. Got it in first class shape and think it is finest tone I ever heard. I know I have the best piano in Amarillo. I am well pleased with it. Thanking you for past favors, T. B. BURTON.

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in every town in Mo. Kans. Okla. Neb. Ill. and Ark. Book orders for our high-grade western grown, hardy trees and plants. Start at once—we furnish instructions and complete outfit free. Good men make 3 to 6 Dollars per Day Steady work and cash paid weekly upon receipt of orders. Hustlers make over 100 dollars per month. No deliveries or collections to make. A good chance to get a free business training. Write for terms today. National Nurseries, Dept. C Lawrence, Kansas

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Are best by test. Recommended by engineers and experts. Used exclusively by many large property owners. Only rod made and sold under a \$75,000 bond. ASK YOUR DEALER For Shinn Rods. Don't accept a substitute. Write for catalog and full particulars. W. C. SHINN, 110 1/2th St., LINCOLN, NEBRASKA

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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 1/4 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.)



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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.

REGISTERED Hampshire pigs \$10.00 each. Frank Franklin and Sons, Vinita, Okla.

FOR SALE—Choice Double Standard Polled Durham bull, 11 months old. A. I. Meier, Abilene, Kan.

FOR SALE—Registered Holstein calves. Sir Segis Cornacopia DeKoi heads herd. W. G. Wright, Overbrook, Kan.

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REGISTERED Hampshire pigs \$10.00 each. Lots of ten \$7.50 each. Also registered Guernsey bull calf for sale. Krueger, Burlington, Kan.

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5 GREYHOUNDS \$50.00. Pedigreed. B. Byers, Troy, Kan.

SCOTCH COLLIES. Western Home Kennels, St. John, Kan.

FOX HOUNDS for sale. Write to Henry McAfee, Orrick, Mo.

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PEDIGREED Foxhound puppies. Papers furnished. Good ones. Wm. Reeve, Earlton, Kan.

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WHITE PEARL seed corn, choice, carefully selected and tested seed. W. A. Hunter, Manhattan, Kan.

EXTRA clean alfalfa seed, free from weed seed, \$8.00 per bu. Sacks 25 cts. extra. G. A. Chapin, Belleville, Kan.

PURE blackhull white Kafir corn, re-cleaned, \$1.25 per bushel. Guaranteed to grow. Robert Rounds, Hennessey, Okla.

3,000 LBS. yellow popcorn for sale; 3 cts. shelled. I. o. b. Blackwell. Will sell in 500 lbs. lots. Chas. Cornelius, Blackwell, Okla.

MAMMOTH black hulled White Kafir. Hand threshed. Selected for early maturity 17 years. J. G. Mitchell, Lafontaine, Kan.

NANCY HALL or dooly slips, one thousand or less two fifty per thousand; five thousand or more, one fifty. S. J. Armstrong, Ada, Okla.

FOR SALE—Yellow Jersey sweet potato plants, \$1.25 per 1,000; Red Bermuda and Red Jersey at \$1.50 per 1,000, packed ready for shipment. Ready after May 5th. J. R. Blevins, 442 Lake St., Lawrence, Kan.

PLANTS, FRUITS. Unlimited quantities of sweet potato, tomato, cabbage and pepper plants for sale at farmer's prices. Good plants moss packed, safe arrival guaranteed. A postal card will bring you prices and varieties. Gilmore Fruit & Plant Co., Topeka, Kan.

WE NOW HAVE about 5,000 bushels of fine Whippoorwill cow peas that show excellent germination. We will make farmers in Kansas and Missouri price of \$2.75 per bushel, sacked, freight prepaid, in 5 or 10 bushel lots or more. Good cow peas are scarce. We refer you to any bank in Ft. Scott. Let us hear from you. Brooks Wholesale Co., Ft. Scott, Kan.

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### SEEDS AND NURSERIES.

FOR SALE—All kinds sweet potato plants \$1.25 thousand. After April 25. D. Chiles, Oakland, Kan. Mention railroad.

PURE BLACK HULLED re-cleaned Kafir corn seed free from smut. Write for sample and price. August Johnson & Sons, Norwich, Kan.

SWEET POTATO plants. Yellow Jersey, \$1.25 per 1,000; Red Jersey, Red Bermudas, Black Spanish, \$1.50 per 1,000. T. F. Pine, Lawrence, Kan.

### FARM LANDS.

SPLENDID FARM in N. E. Kansas, well improved, 320 acres. 250 in cultivation. Will sell cheap. No agents. Address M. care Mail and Breeze.

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.

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ALCORN REALTY CO., of Seymour, Mo., has south central land for sale or trade.

FOR SALE—A bargain, 320 acres, rich grain and stock farm, southeast Kansas. Write Sidney Harrow, Chetopa, Kan.

11 ACRES, 6 roomed house, outbuildings, fruit, 4 wells, 3 acres meadow; bargain; possession at once. M. S. Powers, Scranton, Kan.

SNAP! Quarter section, 9 miles south Tyrone; 130 acres cultivation; all tillable; price with crop \$20 acre. D. S. Holt, Tyrone, Okla.

FARMERS, attention. For information regarding farms and stock ranches for sale at owner's prices write Guy R. Stanton, Lebanon, Laclède Co., Mo.

FOR SALE—Two farms Neosho county. 160 acres well improved 1 1/2 miles of town, 80 acres fair improvements near town. Best farms in township. Address Box 125, Thayer, Kan.

ADVERTISE YOUR PROPERTY in Kansas Weekly Capital for quick and sure results. 200,000 circulation guaranteed—among best farmers in Kansas. Advertising rate only 5c a word. Address Kansas Weekly Capital, Adv. Dept., Topeka, Kan.

200 ACRE stock and grain farm, well improved, North Missouri. Price, \$67.50 per acre. B. V. Gill, Chillicothe, Missouri.

SELL YOUR PROPERTY quickly for cash. No matter where located. Particulars free. Real Estate Salesman Co., Dept. 5, Lincoln, Neb.

### FOR SALE.

FOR SALE—Hedge posts in carlots. Box 211, Winfield, Kan.

LIVERY BARN and stock for sale. For particulars write Box 212, Richmond, Kan.

FOR SALE—Drug stock and fixtures. Cheap for cash. Address A. G. Sexton, Clyde, Kan.

FOR SALE: Great bargains! 10 shovel, 2-row cultivators. Ask for circular and price. Eagle Manufacturing Co., Kansas City, Mo.

FOR SALE—Good general merchandise store. Goods and building new. Good trade. Address H. Nimz & Co., Bazine, Kan.

FOR SALE—Photograph gallery in live town; doing good business. For particulars and price address A. S. Moore, Photographer, Salina, Kan.

FOR SALE—Brick store building, fine location, good town; would trade for good farm. Reason for selling death in family. O. care Mail and Breeze.

\$8,000 STOCK of general merchandise for sale or would trade for good land worth the money. \$1,800 against stock; can arrange time on this if desired. Would clear stock if land is clear. Box 29, Gould, Okla.

### FOR SALE.

WILL PAY reliable women \$250.00 for distributing 2,000 free packages perfumed soap powder in your town. No money required. O. Ward & Co., 218 Institute Pl., Chicago.

ALFALFA \$6; Sweet clover \$11; cane, millet, timothy, \$1.50. Pigs \$11. Cholera serum, 2 cents. Farms for sale and rent on crop payments. John Mulhall, Sioux City, Ia.

### MALE HELP WANTED.

PARCELS POST means thousands government jobs open. Write for free list. Franklin Institute, Dept N 53, Rochester, N. Y.

WANTED. Reliable men to sell nursery stock. Outfit free. Liberal terms. Pay weekly. Experience unnecessary. Chanute Nurseries, Chanute, Kan.

WANTED—Postal clerk-carriers, postmasters, railway mail clerks, rural carriers, internal revenue clerks. Trial examination free. Write Ozment, 38, St. Louis.

SALESMEN wanted in Kansas, Oklahoma, Missouri and Arkansas. Work full or part time, as you prefer. Pay weekly. Outfit free. The Lawrence Nurseries, Lawrence, Kan.

WANTED—Good men to represent us and take control in their own counties of fast selling article with large profits. Call or write at once. Address Auto Tire Safety Valve Co., 303 A Francis St., St. Joseph, Mo.

YOUR opportunity to learn salesmanship quickly. We want ten more good men to act as special representatives in the best territory in Oklahoma and Kansas. Will pay extraordinarily liberal commissions to start. Send one bank reference with application. Address, Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.

GOVERNMENT positions open to men and women. \$90.00 month. Annual vacations. Short hours. No "lay offs." Parcels post means thousands of postal appointments. "Pull" unnecessary. Farmers eligible. Write immediately for free list of positions open. Franklin Institute, Dept N 53, Rochester, N. Y.

### FOR SALE OR EXCHANGE.

TRADE for good auto, nice level unimproved 20 a. tract 1 1/2 mi. Fargo, Okla. Frank King, Atlanta, Kan.

EXCHANGES. List your exchange propositions with us. We match anything. Bowman Realty Co., Coffeyville, Kan.

FOR SALE OR TRADE—Good threshing outfit a d Model 16 Buick automobile 40 H. P. Also two lots in Dallas, S. D. Address Joseph Pizinger, Holsington, Kan., Barton Co.

FOR SALE OR EXCHANGE. 80 a. 4 miles Artesia, New Mex. 40 a. orchard, bal. alfalfa. Artesian well, small buildings. want land in Kansas. H. C. Hammond, Altoona, Kan.

FOR EXCHANGE. A \$12,000 stock of hardware, furniture and implements; in a fine business town northeast Kansas. Want farm eastern Kansas not over \$15,000 in value. W. H. Winn, 207 Long Bldg., Kansas City, Mo.

### PATENTS.

SEND FOR FREE BOOKLET, All About Patents and Their Cost. Shepherd & Campbell, Patent Attorneys, 500C Victor Bldg., Washington, D. C.

### AUTOMOBILE TIRES.

40% TO 75% saved on tires. Printed guarantee for 2,500 miles with every tire. Generally run 3,000 to 6,000 miles. Every tire re-made by hand, free from imperfections and blemishes of all kinds. Our prices, 28x3, \$6.87; 30x3, \$7.35; 30x3 1/2, \$10.46; 32x3 1/2, \$10.96; 34x4, \$14.90. All sizes. All makes. Write for free catalogue and price list. Peerless Tire Co., 1588(C) Broadway, New York.

### HELP WANTED.

MEN AND WOMEN wanted for government jobs. Write for free list of positions open. Franklin Institute, Dept N 53, Rochester, N. Y.

### AGENTS WANTED.

CAN USE a few old experienced salesmen for Oklahoma and Kansas to act as special representatives in good territory. Write Circulation Manager, Farmers Mail and Breeze, Topeka, Kan.

WANTED—Agent in each county in Nebraska, Kansas and Okla. for out door acetylene gas plant. Good commission; can be handled with other business. Address James Sale Co., Longton, Kan.

MEN OF IDEAS and inventive ability should write for new "Lists of Needed Inventions," Patent Buyers" and "How to Get Your Patent and Your Money." Advice free. Randolph & Co., Patent Attorneys, Dept. 25, Washington, D. C.

OLD LINE life, accident and sick benefit insurance company offers very profitable contract to district and local men or woman agents. Attractive policies, easily sold; chance of advancement to good position. National Industrial Insurance Co., Topeka, Kan.

YOUNG MAN, would you accept and wear a fine tailor made suit just for showing it to your friends? Or a Slip-on Raincoat Free? Could you use \$5 a day for a little spare time? Perhaps we can offer you a steady job? Write at once and get beautiful samples, styles and this wonderful offer. Banner Tailoring Company, Dept. 321, Chicago.

### SALESMEN WANTED.

SALESMEN WANTED in every county. Liberal terms; cash weekly. Outfit free. Write for terms. Fayetteville Nurseries, Dept. 2, Fayetteville, Arkansas.

### LIGHTNING RODS.

ROD your own buildings. Any number of feet at wholesale prices. Harvey Kinzie, Hiawatha, Kan.

### POST CARDS.

25 BEAUTIFUL high grade souvenir post cards for only 10 cents. The Rehm Co., Weehawken, N. J.

### MISCELLANEOUS.

IF YOU have any thing for sale or exchange write Funk, Gridley, Kan.

E. R. BOYNTON HAY CO., Kansas City, Mo. Receivers and shippers. Try us.

MISSOURI AUCTION SCHOOL, largest in world. Own largest living mule. 1404 Grand, Kansas City.

TUITION may be paid out of earnings after course is completed. Dougherty's Business College, Topeka, Kan.

HAIR SWITCHES made from combings. 3 stem single mounting \$1.50. Three stem separate mounting \$1.75. Mrs. H. Moore, Haven, Kan., R. No. 1, Box 61.

WANTED—To correspond with progressive farmers in Kansas and Oklahoma who are in favor of farmers co-operative manufacturing their own farm implements. Address W. B. Hampton, 861 Phillips St., Springfield, Mo.

POULTRY MAGAZINE—Big 40 to 80 page illustrated magazine of practical, common sense chicken talk. Tells how to get most in pleasure and profit from poultry raising. 4 months on trial only 10c. Poultry Culture, 904 Jackson, Topeka, Kan.

RED ANTS spoil lawns, destroy alfalfa, poison ground, sting children, kill young poultry—I have a trap which will catch and hold them—they can not escape—give it a trial and you will be satisfied. Directions with each catcher. Price \$1.25 each; 6 to one address \$7.00. E. Blasdel, Enid, Okla.

## Cane Silage Will Not Sour Corn Silage Slightly Better For Milk

Information of greatest value to every farmer in the country is reported in the Kansas Industrialist of May 10 by O. E. Reed, head of the dairy department at the college and J. B. Fitch, assistant. They have found in a 2-years' experiment that cane silage, put up three weeks after corn silage is made, will not sour and does not contain as much acid at any time of year as silage made from corn, usually the preferred crop for silage. It has been the custom among farmers to put cane in the silo at the time corn was cut for ensilage. At this stage cane contains much sap and a sour silage is certain to be the result.

Heretofore little cane has been put in silos because the farmers believed that

the acid in it would make it unfit to eat. The results of the test are particularly valuable to farmers in western Kansas where the sorghums do well and where there is sometimes difficulty in getting a good crop of corn.

Usually when farmers put cane into the silo they cut it too early. It was thought that cane should be cut about the same time as corn. But at this stage in its growth cane, the test showed, contains too much sap. If put into the silo at this time it is certain to result in a sour silage. In the experiment conducted at the college cane was not cut until three weeks after corn.

A feeding test with 15 dairy cows was conducted last winter in which three kinds of silage—corn, Kafir and cane—

were compared. A similar experiment was carried out the previous year. In summing up the results of both trials these conclusions were drawn: Corn silage is slightly superior as a milk producer to cane and Kafir silage. Kafir silage ranks second and cane third, as a feed for milk cows. In both trials the cows seemed to gain in weight on cane silage more readily than on silage made from Kafir or corn. Although the Kafir and cane were shown to be slightly less valuable than corn silage there are other factors that must be considered in judging the three kinds—yield and adaptability to conditions. Without doubt, says Mr. Reed, the increased yield of cane and Kafir will offset the slight increase in feeding value obtained from corn silage. Kafir and cane are drought-resistant crops and can be grown over a wider territory than corn, and from one-third to one-half more tonnage to the acre can be obtained.

## Good Time to Cork the Bottle

Oklahoma has been soaked, drenched and almost swamped by rain, writes D. S. Woodson, of Oklahoma state board of agriculture. Over the entire state the ground is saturated deep down into the subsoil but the wind and warm weather will make short work of taking it out of the soil if we do not at once "cork the bottle" that holds the moisture. We have just one way to do this. A blanket of loose dirt on the surface helps to prevent the escape of any moisture in the subsoil.

Let every man get out his section harrow and harrow every field that has been plowed and not planted. Corn, milo, Kafir, feterita and other cultivated crops can be harrowed until they are several inches high and he will be doing good cultivating at the same time he is conserving the moisture.

This is also good advice for Kansas.



# MARKET PROBABILITIES

## Cattle Market Uncertain and Only Light Receipts Can Hold up Prices—Hogs Still Losing But Decreasing Weights Indicate the End of Marketable Stock is in Sight Excellent Crop Prospects Affecting Wheat Market.

(Written Specially for Farmers Mail and Breeze.)

Monday of this week receipts of cattle were about the same as a week ago, and prices were practically unchanged. Wednesday is looked forward to as determining the status of the market. Light receipts then will cause an advance. General demand is narrow, killers trying to hold prices to the present level. Demand for butcher cattle is quiet, and fairly active for stockers and feeders.

The May cattle market is out of its customary channel. Demand is unsatisfactory and very irregular likewise the supply. Neither buyers nor salesmen know what to expect from day to day in either the receipt or demand line. The most consistent treatment for such a condition is sharply reduced supplies. Early last week two days of reduced supplies sent prices up 25 to 40 cents, and in the following two days the market crumbled below the close of the preceding week with a decidedly weak close. The quickness of price changes made the entire week's market unsatisfactory and out of keeping with conditions that should be the governor of trade. Total receipts each week for some time past have not been above normal, but uneven distribution was one reason for wide price fluctuations. Killers now have their ideas set on an early run of grass fat cattle. In fact some steers are showing grass sap, and a considerable number from below the quarantine line have been fattened on grass and cottonseed cake. The run of regular grassers will not show up much before the first of July, but greenness in cattle is always a ground for discrimination. A good many cattle that have been on short feed through the winter have been turned out to grass with the idea of August and September preceding for the October market. Others are clearing their condition of the market. Some steers that were shipped to feed lots two months ago and full fed did not pay the board bill when marketed in the past 10 days. The Chicago market showed up a top of \$9.10 last week, and the best price uncovered at Missouri river markets was \$8.70. The bulk of the killing steers sold at \$7.50 to \$8.50, and above \$8.35 it was a finish requirement. Heavy steers are selling more slowly than the lighter weight kinds of equal flesh. The beef trade is said to be dull. Warmer weather has curtailed demand in no small degree. Commission men say that receipts are bound to decrease in the next six weeks or all estimates of feed lot supplies have been misleading.

### Unsettled Cow Market.

The general uncertainty in the steer trade unsettled the cow market and though prices at last week's close showed little change compared with the close of the preceding week, the movement in prices was 25 to 35 cents. Sharp advances occurred early in the week, and declines later. Heifers were in fairly active demand, though price fluctuations were about the same as for cows. Veal calves and bulls continued strong. Bulls are selling relatively higher than any other class.

### Small Trade in Stockers.

The volume of business in the stocker and feeder market is small due to the continued high prices, and the small number available. Feeders and pasture men would welcome increased supplies and lower prices and doubtless some price reductions will be made as the season advances, but no bargains can be sighted at present. Grass is off to a good start and if it continues good will be a source of strength throughout the summer. Thin cattle are quoted at \$6.50 to \$8.25 for steers and \$4.50 to \$7.25 for she stuff.

### Fluctuating Hog Prices.

Hog prices Monday were steady to 5 cents lower. Top price in St. Louis \$8.60, Chicago \$8.50, Kansas City and St. Joseph \$8.37½ and Omaha \$8.25. Receipts were about normal.

Prices for hogs this past week developed more uncertainties. New low levels were uncovered, but the low points were followed by moderate rallies. Shipping demand is at the fading point and as packers assume control of the situation they become bearish. The movement continues of fairly liberal volume but weight is on the decrease indicating that marketing has caught up with feeding. The entire movement in prices was confined to a 15 to 25-cent range. Eastern markets showed greater reductions than Western markets and at the same time the range in quotations narrowed materially. The bulk of the hogs now are selling at a 10 to 15-cent spread compared with a range of 20 to 25 cents three to four weeks ago. Feed lots however, are said to be about empty, and a sudden let up in the movement, indicating that final shipments had been made, would cause a rebound in prices. Packers have the 7-cent hog as their goal, and unless demand improves prices will fall below 8 cents, next week.

The mutton supply last week was augmented by a liberal movement of fat goats from the Southwest. Goats properly are not mutton, but they are all the same over the retail counter to an unknowing buyer. Clipped and woolled fed grades, and Texas grassers rounded out the other varieties plus a few spring lambs. The total supply proved fully adequate for all requirements and prices were lowered 15 to 40 cents. Fed woolled lambs were quoted off 15 to 25 cents, and clipped grades down 25 to 35 cents. Goats were off about 50 cents. Texans were in liberal supply and are filling demand for the low priced grades. Many buyers say that after 10 days woolled lambs will have all been marketed. Rising temperatures make shearing a necessity. Lambing time in the West is in the spot light and a big lamb crop is expected. Conditions for the young lambs have been especially favorable. Some spring lambs at markets sold at \$9 to \$9.75.

### The Movement of Livestock.

The following table shows receipts of cattle, hogs and sheep at the five western markets last week, the previous week and a year ago:

	Cattle	Hogs	Sheep
Kansas City .....	25,975	59,650	59,250
Chicago .....	46,100	124,000	86,000
Omaha .....	17,800	47,200	28,200
St. Louis .....	13,200	48,600	13,700
St. Joseph .....	8,150	29,900	18,000
Total .....	111,225	300,350	205,150
Preceding week .....	110,825	305,400	192,400
Year ago .....	110,290	273,100	146,500

The following table shows receipts of cattle, hogs and sheep at the five western markets, Monday, May 12, together with totals a week ago, and a year ago:

	Cattle	Hogs	Sheep
Kansas City .....	7,000	8,000	12,000
Chicago .....	20,000	42,000	18,000
Omaha .....	1,800	8,500	10,000
St. Louis .....	3,000	10,000	5,800
St. Joseph .....	2,000	3,900	3,500
Totals .....	33,800	71,500	49,300
A week ago .....	34,200	68,200	49,300
A year ago .....	23,200	74,200	39,900

The following table shows a comparison in prices on best offerings of livestock at Kansas City and Chicago for this date and one year ago:

	Cattle	Hogs	Sheep
Per 100 lbs. 1913 1912	1913 1912	1913 1912	1913 1912
Chicago .....	\$8.90 \$9.20	\$8.50 \$7.80	\$7.50 \$8.25
Kan. City .....	8.75 8.85	8.35 7.82	7.25 7.25

### Active Trade in Horses.

Demand for horses continues active at firm prices. This line of trade is showing more stability than any other division of the market. Country buyers say that farmers are too busy to sell horses, and consequently receipts continue small. Chicago, St. Louis and Kansas City all reported good clearances last week. Mules, though in fair demand are selling less freely than horses. Southern outlet is rather restricted. Heavy farm workers are the best sellers.

### Soft Wheat Lower—Corn Higher.

Prospects for one of the largest crops of wheat ever produced in the United States weakened prices. Soft wheat fell below \$1 a bushel the first time in some months past, and hard wheat was only slightly lower. At the decline hard and soft wheat were selling closer together than any time since last December. Corn prices continue firm on moderate receipts. Oats are in active demand. Hay prices show no important change. Alfalfa first cutting, will soon be available.

The following prices prevail for grain in Kansas City and St. Louis:

	Kansas City		St. Louis	
Wheat—				
Hard No. 2 .....	87¢	88¢	89¢	92½¢
Soft No. 2 .....	93¢	97½¢	1.03	1.04½
Corn—				
White No. 2 .....	57¢	57½¢	.60	.61
Mixed corn .....	57¢	57½¢	.57	.58
Oats—				
No. 2 white .....	35¢	36¢	.37	.37½
No. 2 mixed .....	33¢	34½¢	.35½	.35

The following comparison shows prices on best grades of wheat, corn and oats at Kansas City and Chicago for this date and one year ago:

	Wheat		Corn		Oats	
Chicago .....	1.03½	1.22	60	81½	39	58½
Kan. City .....	97	1.18	60	81	37½	58

### Seeds.

Kafir corn, No. 2, white, 83¢@83½¢ a cwt.; No. 3 white, 80¢@83¢ a cwt.; alfalfa, 19¢@12¢ a cwt.; flaxseed, \$1.07 a bushel; timothy, \$1.50@1.75 a bushel; cane seed, 55¢@90¢; red top, 60¢@85¢; millet seed, \$1.00@1.30.

### Broomcorn Quotations Unchanged.

Prices for broomcorn are quoted steady. There was no fluctuation in the market as sales were principally out of warehouse stocks, and practically nothing was offered out of first hands. Some

growers have brush to dispose of but they are too busy with work on the new crop to haul it to market. Choice self-working corn is quoted at \$80 to \$90 a ton; fair to choice \$45 to \$75; common to fair \$20 to \$40 a ton.

### Kansas City Hay Quotations.

Prairie, choice .....	10.50@11.00
Prairie, No. 1 .....	9.50@10.00
Prairie, No. 2 .....	8.00@9.00
Prairie, No. 3 .....	6.00@7.25
Timothy, choice .....	12.75@13.00
Timothy, No. 1 .....	12.00@12.50
Timothy, No. 2 .....	10.00@11.50
Timothy, No. 3 .....	6.50@9.50
Clover mixed, choice .....	12.00@12.50
Clover mixed, No. 1 .....	10.50@11.50
Clover mixed, No. 2 .....	8.50@10.00
Clover, choice .....	11.00@12.00
Clover, No. 1 .....	9.50@10.50
Clover, No. 2 .....	7.00@9.00
Alfalfa, fancy .....	16.50@17.00
Alfalfa, choice .....	15.00@16.00
Alfalfa, No. 1 .....	13.00@14.50
Alfalfa, standard .....	11.00@13.00
Alfalfa, No. 2 .....	8.50@10.50
Alfalfa, No. 3 .....	6.00@8.00
Straw .....	5.00
Packing hay .....	4.00@5.00

### Livestock in Kansas City.

Cattle prices at the close last week were steady to 10 cents lower compared with the close of the preceding week, but compared with Tuesday the high day they were 30 to 40 cents lower. Wednesday and Thursday were the days of a big decline and Monday and Tuesday of an advance. The top price for steers was \$8.70, and the bulk of the native steers sold at \$7.75 to \$8.35 on the native side and at \$6.50 to \$7.50 on the quarantine side. The top price for steers and heifers mixed was \$8.50, and for straight heifers \$8.40. Most of the good to choice heifers sold at \$7.50 to \$8.25. Veal calves were strong at \$6 to \$10.25, bulls \$4.50 to \$7.25. Feeders are quoted at \$7.25 to \$8.15, and stockers \$6.50 to \$7.85.

Hog prices Saturday were not unchanged compared with the close of the preceding week, 5 cents above the low day Thursday, and 10 to 15 cents under the high point of the week on Tuesday. Saturday's top was \$8.35 and bulk \$8.20 to \$8.30.

The following table shows the range in prices of hogs last week and in the preceding week:

	Last week	Preceding wk.
Monday .....	\$8.15@8.40	\$8.25@8.60
Tuesday .....	8.20@8.45	8.15@8.37½
Wednesday .....	8.15@8.35	8.20@8.40
Thursday .....	8.15@8.30	8.25@8.50
Friday .....	8.15@8.35	8.20@8.45
Saturday .....	8.15@8.35	8.15@8.37½

Receipts of sheep were the largest for some time past. More than 16,000 Texas goats, all kinds sold at \$3.25 to \$4. Killing goats brought \$3.40 to \$4. Lambs were down about 25 cents and sheep were 25 to 35 cents lower. Lambs are quoted at \$6.50 to \$8.40, ewes \$4.50 to \$6.25, wethers \$5 to \$6.50 and Texas clipped sheep \$4.75 to \$5.75.

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and same period in 1912:

	1913	1912	Inc.	Dec.
Cattle .....	548,286	499,943	48,343	.....
Calves .....	28,292	29,639	.....	1,347
Hogs .....	908,191	1,063,251	.....	155,060
Sheep .....	728,726	797,156	.....	68,430
H. & M. ....	38,356	39,372	.....	1,036
Cars .....	38,348	38,970	.....	622

### Livestock in St. Louis.

Cattle trade last week was unsettled and subjected to wide price fluctuations without any important net change. The first of the week prices were higher, and the sagging tendency developed on Wednesday. The bulk of the cattle offered were killing grades, a liberal run getting in on the quarantine side. Native beef steers are quoted at \$6 to \$8.75, cows and heifers \$4.50 to \$8.60, stockers and feeders \$6.50 to \$8. On the quarantine side Texas and Indian steers \$6.25 to \$8.25. Texas and Indian cows and heifers \$4 to \$7.25, calves in carload lots \$5 to \$7, and odd veals up to \$9.50.

The movement in hog prices last week was confined to 10 to 20-cent fluctuations and Saturday's prices were about net unchanged compared with the close of the preceding week. The top price Saturday was \$8.60, and bulk \$8.35 to \$8.50. The top price for the week was \$8.70. Sheep prices were quoted off 25 cents and the general trade was slower than for some time past. Receipts were fairly liberal for the season of the year. Woolled grades were scarce and clipped sheep predominated. Lambs are quoted at \$7 to \$8.50, and native muttons \$5 to \$7.

The following table shows receipts of cattle, hogs and sheep in St. Louis, thus far this year, compared with the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle .....	283,011	238,725	44,286	.....
Hogs .....	940,639	1,030,315	.....	89,686
Sheep .....	237,243	301,584	.....	64,641
H. & M. ....	62,826	77,229	.....	14,403
Cars .....	24,023	24,854	.....	831

### Livestock in St. Joseph.

The cattle market made a good showing early last week, and on Tuesday prices were up 20 to 35 cents. On Wednesday however, Chicago reported 22,500 cattle and a sharp decline and that forced local prices down. From Wednesday until the close of the week trade was dull at lower prices. Choice to prime steers are quoted at \$8.50 to \$8.85, good to choice \$8 to \$8.45, common to good \$7 to \$8. Cows and heifers showed about the same price changes as steers. Cows are quoted at \$4.50 to \$7.50 and heifers \$6 to \$8.35, calves \$5 to \$9.50, and bulls \$4 to \$7.

Monday and Tuesday hog prices were up 10 to 15 cents and the next two days prices fell back, reaching the low point

of the season Thursday. Friday the market was stronger, and Saturday about steady with a week ago, top \$8.37½ and bulk \$8.25 to \$8.30. Sheep showed more or less irregularity all week, and closed off a full quarter. Woolled lambs were rather scarce and in fair demand but clipped grades predominated. Woolled lambs are quoted at \$7.75 to \$8.40, sheep \$6 to \$6.50, clipped lambs \$7 to \$7.65, and clipped sheep \$5 to \$5.75.

The following table shows receipts of livestock in St. Joseph thus far this year compared with the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle .....	157,920	172,966	.....	15,946
Hogs .....	610,860	832,948	.....	222,118
Sheep .....	313,500	287,169	.....	26,331
H. & M. ....	14,249	19,659	.....	5,440
Cars .....	16,471	19,519	.....	3,045

### Butter, Eggs and Poultry.

Elgin, May 12.—Butter this week is firm at 28 cents.

Kansas City, May 12.—Prices this week on produce are:

Eggs—Firsts, new white wood cases included, 18@18½¢ a doz.; seconds, 13@14¢; current receipts, \$5.15@5.20 a case. Butter—Creamery, extras, 28¢ a lb.; firsts, 27@28¢; seconds, 26¢; packing stock, 26½@21¢. Live Poultry—Broilers, 30@32¢ a lb.; spring chickens, 15@16¢; hens, 14¢; roosters, 10¢; young turkeys and turkey hens, 17@18¢; old toms, 14@15¢; cull turkeys, 7@8¢.

### Produce Prices Now and One Year Ago.

(Quotations on Best Stock.)

	Butter	Eggs	Hens
Chicago .....	27½ 29	18 18	11 14½
Kan. City .....	28 29	18½ 17	14 13

### Thirty-Five New Equity Unions

Mr. Editor—I have just concluded a three months' equity campaign on the Rock Island and Santa Fe railroads in Kansas and Oklahoma. I have started 35 equity unions at 35 good markets, and 14 or 15 Equity union exchanges. These exchanges will handle a fine crop of grain this year for the farmers instead of the speculators.

During the three months I traveled 6,256 miles, delivered 71 lectures, addressed 3,500 farmers, mailed 10,500 printed postal cards and distributed about 3,000 copies of our paper. Hundreds of good farmers at the 35 markets are meeting every month working for new members and boosting for their Equity exchange.

This campaign of organization and education must be renewed by our National union when the busy time is over. A successful Equity exchange must be established at each of the 35 union points and then the number must be doubled again and again, until every good town in Kansas and Oklahoma has an Equity union market instead of a speculator's market.

I find no millionaires among the farmers. They have given the speculators too many millions. The speculators system is robbing many poor people in southwest Kansas. These people are honest and industrious and will make the desert blossom as the rose if they are organized into the Equity unions and given protection from parasites.

We are now arranging for a campaign in the grain sections of Minnesota and South and North Dakota. We want the grain men organized and equipped to handle their crops at actual cost of handling. We are working for honest, efficient management and a large volume of trade in one channel. There is economy and power in our methods. We request every farmer to send 10 2-cent stamps for the Equity textbook.

C. O. Dayton.  
National President Farmers' Equity Union, Greenville, Ill.

### Promotions at Manhattan

W. M. Jardine, since the first of the year acting director of the Kansas Experiment station, has been elected to the full powers of that office. The place formerly occupied by him as head of the college agronomy department has been given to L. E. Call, heretofore associate professor of soils in the same department. George A. Dean, who has been first assistant in the entomology department becomes head of that department to succeed Dr. T. J. Headlee, who left Kansas last summer.

These promotions were made at a recent meeting of the board of administration and will be generally approved by the readers of the Mail and Breeze, who may be said to have a reading acquaintance with all of these Kansas authorities. Prof. Jardine who now succeeds E. H. Webster as director and dean of agriculture, is an authority on dry-farming of international reputation.

Yes, let the Mail and Breeze come, Mr. Capper, for I would miss it greatly. —D. Raines, R. 4, De Witt, Neb.

# BIG BARGAINS IN REAL ESTATE

Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

## Special Notice

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

**EASTERN** Kansas Impr. farms \$35 per a. up. Write for list. H. J. Walrad, Moran, Ks.

640 A. level land, Hamilton Co., Kan. Titles perfect. Only \$4,000. Chas. E. Hoffman, Kress Building, Salina, Kansas.

160 ACRES Franklin Co., Kan. One mile from town. \$42.50. Other bargains. Send for list. A. E. Clark & Son, Pomona, Kan.

**STEVENS** county; land on new R. R. in Stevens and Morton Cos. \$8 to \$20 per a. Write or see John A. Firmin, Hugoton, Kan.

FOR SALE. Fine 400 a. Marion Co. farm near Burns. \$40. 160 a. \$6,000. Both worth \$50. Guss Schimpf, Burns, Marion Co., Kan.

FOR SALE by owner, fine stock farm, 480 a., plenty timber, alfalfa; good water; good buildings. 1 1/2 mi. R. R. town; 1/2 mile of flour mills. W. S. McCulley, Alton, Kan.

WRITE for big printed list of corn and alf. farms in rain belt of Kansas. Biggest list choice farms in state. Kenyon & Holzman, Concordia, Kan. (Pioneer Kan. farmers.)

**BEST BARGAIN** ever offered. 160 a. near town, school, best imp. Free gas and \$1,400 gas royalty in adv. \$325 rental. \$10,000. More particulars. E. R. Dice, Neodesha, Kan.

260 A. good bottom land \$25 per a. under cash value. Mostly alfalfa land. If you see this farm you will buy it. Write for description and price. Box 1, La Cygne, Kan.

**FARMS** that will grow cattle, hogs, horses, corn, wheat, timothy, clover, bluegrass, alfalfa or anything else you plant and priced at \$30 to \$50 per a. McCarty, La Cygne, Kan.

160 A. 2 miles town, 1/4 mile school; 7 room house, large barn, 100 a. bottom; 40 a. alfalfa; fine orchard, fine improvements, nice home. Price \$85 per acre. GILB & BONSALE, South Haven, Sumner Co., Kan.

160 A. upland farm, near Salina; soil, black loam, 145 a. under cultivation, 15 a. grass, young orchard, bearing. Good water. Improvements good as new. Phone and rural delivery. Price \$8500. Easy terms. No trade. No incumbrance. C. H. Fox, owner, Route 2, Culver, Kan.

**SIT DOWN AND WRITE.** Land is selling 100% better than six months ago. Right now is the time to get in. Everything indicates delay will bring increase in prices. We have a few unusually good propositions. Write us what you want and we will tell you what we have. J. E. Couch Land Co., Anthony, Kan.

80 A. well impr. 4 mi. out; 65 a. under plow. 20 a. alf. 15 a. timber and pasture. Price \$3,500. \$1,000 cash will handle. J. A. Decker, Valley Falls, Kan.

160 A. in cult., 7 room cottage, barn 40 by 40, all nec. imp. and all in fine repair. Half bot. 3 alfalfa, hog tight, fields, splendid water, orchard. Ideal home. \$85 per a. Easy terms on \$8,000. W. E. Stephens, Owner, Delavan, Kan.

1,250 A., 300 a. alfalfa bottom, running water, up-to-date imp. 900 a. finest blue-stem pasture, fine location, 8 mi. Eldorado. \$40 per a., 1/2 down, as long time as desired on bal. at 6%. Other ranch bargains. V. A. Osburn, Eldorado, Kansas.

960 ACRE hay, grain and stock farm, located 3 miles of good town in Butler county, Kan., has fair improvements, 65 acres in cultivation, greater part of balance is mow land and very fine, will pay 6% on purchase price of \$30 per acre. No trade. E. E. Foley, Wichita, Kan.

312 ACRES improved Orange Co., Kansas, farm, 175 a. rich bottom land, 175 a. fine alfalfa land, 10 a. in alfalfa, 2 mi. from good town. Worth \$60 per a. Owner must sell within next 30 days at sacrifice of \$45 per a. No trades. J. W. Watkins, Quenemo, Kan.

**4 STOCK FARMS** for sale at \$36, \$41.50, \$60 and \$62.50 per a. PRALLE BROS., Bremen, Kansas.

**Stevens County** Write for prices on R. R. lands. Easy terms. Santa Fe Land Co., Hugoton, Kan.

**ALFALFA FARMS** Write for list of farms and ranches near the best college town in the state. **CATTLE RANCHES** T. B. GODSEY, Emporia, Kan.

**Good Quality at Low Cost** 235 acres near Garnett, Kansas, most blue-stem meadow, low price, 80 acres, well improved, 3 mi. of town, subject to one year lease, 160 acres, 1/2 mi. of town, well improved. SPOHN BROS., Garnett, Kan.

**400 ACRES FOR SALE** Two sets of improvements in fair condition; plenty shade trees, 2 good wells, windmills and concrete water tanks; also creek water at each place. 240 a. of bottom alfalfa land and 160 a. of upland (black soil). 200 a. in wheat, 30 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

FOR absolute bargains in any sized farm find C. D. Kregar, Lincolnville, Kan.

WRITE J. M. McCown, Emporia, Kansas, special bargain list, farms and ranches.

**AGENTS WANTED**, to sell Neosho Valley corn and alfalfa lands. \$40.00 to \$60.00 per a. G. W. Clark Land Co., Chetopa, Kan.

**CENTRAL** Southern Kan. alfalfa lands. 220 a. valley land, 200 suitable for alfalfa, \$8,000. 160 a. in valley, 120 in cult., \$4,800. For free list write P. H. THORNTON, Coldwater, Kan.

100 IMP. and unimp. farms for sale in Edwards, Ford and Hodgeman Cos., \$1,100 1/4 up. For further information and list call on or address THOS. DARCY, Offerle, Ks.

A **BARGAIN**—680 acres, 3 miles from town; 150 acres in wheat, balance in pasture. Price \$15 per acre if sold soon. Write PIONEER REALTY CO., Protection, Comanche Co., Kansas.

**SACRIFICE** sale; 320 acres, 60 acres pasture and hay, 2 good wells and a spring; 70 acres wheat, bal. in crops. Possession August 1st, 1913. 1/2 of all grain to purchaser; \$14,000. LOCK BOX 285, Wellington, Kan.

ARK. land. 444 a. sandy loam adjoining town of Washington; large house, 4 tenant houses, fine timber, plenty water, 80 a. Bermuda grass. \$25 a. Terms. Write for list. Horton & Co., Hope, Ark.

672 ACRE farm, 3 sets improvements, near Arkansas City, Kan. 65 in alfalfa. Best of terms. Ask about this good farm. 30, 160, 240, 320, 408, 620, all above farms are good prices from \$30 up to \$56 per a. W. M. GODBY, Arkansas City, Kan.

FOR SALE—Stock of hardware with some machinery, nearly new. Will invoice about \$14,000.00. Cheap rent, in as fine a location as in the city. Must sell on account of sickness. Will consider trade for land if located eastern Kansas or western Missouri and priced right. Chas. Doughman, Ottawa, Kansas.

**FOR SALE BY OWNER.** 16 quarters, adjoins German settlement Minneola. Small payt., bal. 8 years 6%. Write at once. Box 317, Minneola, Kan.

**COFFEY COUNTY, EASTERN KANSAS.** Good homes and investments. Corn, tame grass and ranch lands, \$30 to \$60 per a. List free. LANE & KENT, Burlington, Kan.

**MONEY-MAKERS AND GOOD HOMES.** Lands in Oklahoma, Texas and Kansas for sale, no exchanges. City property and stocks of mdse. to exchange. List free. JABEZ F. BRADSHAW, Lenexa, Kan.

**FOR SALE.** 320 acres level wheat land \$9.00 per acre. Carry 1/2 on land. Also many other good bargains in corn, wheat and alfalfa lands. L. E. PENDLETON, Dodge City, Kan.

**A BARGAIN.** 78 acres, five miles northwest of Humboldt, Kan. Four room house and good out-buildings. A bargain, if taken at once. O. L. ZENTZ, Dallas, Polk County, Oregon.

**SOUTHWEST KANSAS FARM LANDS.** Honest prices. Where wheat leads the world. Corn crop values best wheat and alfalfa growing leads the continent. LISTON DENNIS, Stafford, Kan.

**COMANCHE COUNTY BARGAIN.** 480 a. improved, 9 miles from Coldwater. 173 a. fine growing wheat, all goes, for quick sale, price \$27.00 per a. Terms if desired. C. A. HEATON, Larned, Kansas.

**LINN AND BOURBON CO. FARMS.** Biggest bargains in Kan. Corn, wheat, timothy, clover, bluegrass land \$15-\$80. Coal, wood, gas, abundance good water. Fruit, everything that goes to make life pleasant. Large illus. folder free. EBY-CADY REALTY CO., Pleasanton and Ft. Scott, Kan.

**HAY FARM FOR SALE.** 160 acres of land 3 miles from Colony, Anderson Co., Kansas. 100 acres in native meadow, 15 acres pasture, 45 cult., improved with house and barn, good water. The hay alone has been making \$500 per year. Am offering this at the low price of \$40 per acre as I have other interests and cannot see to it. For sale only. Address J. F. RESSEL, Owner, Colony, Kansas.

**Along the New Railroad** 5 quarters in Haskell, Grant and Stevens counties, near new railroad towns on D. C. & C. V., for \$7 per acre, on easy terms. Can sell single quarters. HAVE GOOD PROPOSITION FOR AGENTS. DON VAN WORMER, Richfield, Kan.

**Only \$3.00 Cash** **Balance \$1.50 Per Month**

pays for level, well located, 50x140 ft. lot at \$30 for inside lots and \$35 for corners—in the prosperous little city Plains, Kan. Where prices are advancing rapidly and good profits assured. Send first payment for contract on guaranteed lot or write for complete information. MUST ACT QUICK. JOHN W. BAUGHMAN, Desk G, Plains, Kan.

**Sedgwick Co. Farm Bargains** 80 a. farm only 3 miles of Wichita; best of land, improved, \$110 per a. Terms, 280 bottom land farm; none better for alfalfa, improved, 1 mile R. R. town, snap at \$50; terms to suit. 145 a. farm, house, 2 barns, good land, fine home. \$60 per a. \$2,000 cash, bal. long time. 21 a. farm, bottom land, good improvements, in edge of Wichita, \$6,500. Call or write H. E. OSBURN 315 E. Douglas, Wichita, Kansas.

GOOD farms for sale or ex. in Bourbon Co., eastern Kan. Fred L. Kent, Uniontown, Kan.

**BARGAIN:** 160 a. nicely improved, 1/2 mile out, \$6,000. Send for land list. F. C. LIBBY, Blue Mound, Kan. J. L. Wilson, Salesman.

FOR SALE—320 a., 5 1/2 mi. S. E. of Salina, Kansas, 3 room house, new barn with room for 14 head of horses, granary, chicken house, hog and machine sheds, 3 wells, cistern, windmill, 290 acres in cult., 240 a. in wheat. Will sell for \$75 per a. No trades. A. N. Armstrong, Atchison, Kansas.

**IF YOU WANT TO BUY LAND** in western Kan. for \$6 to \$10 an a., write Geo. M. Lynch, Co. Treas., Tribune, Kan.

**ALFALFA AND WHEAT LANDS** at \$20 up. Grass lands \$10 up. Crops are good; prices are rapidly advancing—NOW'S the time to buy. List free. A few exchanges considered—they must be gilt edge. WILLIAMS & PICKENS, Meade, Kan.

**OLD LADY MUST SELL.** 160 acres 1/2 mi. of town, 90 a. bottom land, 40 a. pasture, 10 a. timber; 120 acres in cultivation; 7 room house, barn 30x40. Price \$10,000, with terms to suit. MANSFIELD, Ottawa, Kansas.

**STOCK FARM FOR SALE.** One of the best stock and farm ranches in Central Kansas for sale, containing 480 acres, 1 1/4 miles from Niles, a good shipping point on branch of U. P. R. R. This is all tillable except about 40 acres and has abundance of good water both living springs and well. There are 200 acres in cultivation. Buildings are in good condition and consist of a 2-story frame dwelling, containing 10 rooms, well built and a splendid barn 30x50, 16 foot corner posts with annex 12x30, cement floors and mow above. Feed yard with good shedding, 12 breeding pens, ice house, rock smoke house, tool house and wagon shed detached from other buildings. This is ideal for stock or farm home. The owner has retired and moved to town and will sell cheap but it must be sold all together. Call on or write to C. W. TALMADGE or T. J. BRANIFF, Salina, Kansas.

**ARKANSAS** ARKANSAS farms for sale. Terms. List free. J. C. Mitchell, Fayetteville, Ark.

80 A. Impr. valley farm; on Ry. 35 cultivation. \$15 a. Robert Sessions, Winthrop, Ark.

891 A. alfalfa and cotton land; some improved, tracts to suit. \$75 per a. New list free. Pope Co. R. E. Co., Russellville, Ark.

**BE INDEPENDENT.** don't rent. Poultry ranches, fruit, stock farms, timber lands. Terms, Exchs. Star Land Co., Gentry, Ark.

348 ACRES Arkansas bottom land, 2 1/2 mi. from Co. seat; 200 acres in cult. Rents pay \$2,000 annually. \$60 per-acre. No trade. Frank Bates, Waldron, Arkansas.

160 ACRES one mile from Oliver, Ry. town; church, school; partly improved; good timber. In Scott county, Arkansas. Price \$3 per acre, cash. Box 308, Heavener, Okla.

17,000 ACRES, no rocks, hills or swamps. Any size farms Grant Co. \$1.50 per a. down, bal. 20 yrs. at 6%. Employment. TETER & Co., Op. Union Depot, Little Rock, Ark.

FOR SALE—80 a., 45 in cultivation, good buildings, 3 acres orchard, fine water; 1 1/2 mile to station; 3 1/2 from county seat. Big Bargain. \$1,350. F. J. Ray, Little Rock, Ark.

260 A. rich 2nd bot. land, nearly level; springs, running water. 30 a. high land, red sub-soil, no stone. \$8 a. Terms. Write NOW. F. & M. Bank & Trust Co., DeQueen, Ark.

150 ACRES; 1 1/2 miles Waldron; 125 a. in cult., 60 a. bottom. Fenced and cross fenced hog tight. Fine pasture with creek; two houses. This farm will grow anything. Splendid good bargain at \$35 per acre. Easy terms on one-half. Hubert Hall, Waldron, Ark.

**FREE TRIP TO ARKANSAS** If we cannot show you land that will make 75 to 100 bu. of corn; 1/4 to 1 1/2 bales of cotton; healthful climate; good school and churches; artesian water; good markets. Write us today. Ask questions. Rand Bros. Land & Inv. Co., Fulton, Ark.

**LOUISIANA** 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.

**FOR SALE.** Farms and timbered land. A half million dollars has been made by the berrymen and the season is not more than half over. If you want a berry farm, write T. E. Sanders, Box 14, Independence, La.

**LOUISIANA LANDS.** We offer some bargains in Louisiana lands near Shreveport. Write for free map of state. W. A. Jones, Shreveport, La.

**NEW YORK** WE HAVE all kinds of farms for all kinds of people. Bargains coming every day. Write for catalog. Hall's Farm Agency, Owego, Tioga county, N. Y.

**CANADA** **CANADA** For sale, improved farms, ranches and raw lands in Southern Alberta. LYNN W. BARRETT, Aidersdyde, Alberta.

## OKLAHOMA

INDIAN LANDS eastern Okla. rain belt. Write J. J. Harrison, Pryor, Okla.

N. E. OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.

20 FINE farms, bargains. N. E. Okla. valley. Dennison & Griswold, Claremore, Ok.

160 A. of land 8 mi. S. W. of Sharon, Okla. Want to trade for improved 5 or 10 a. tract near some good town. T. B. Hillmon, 3604 6th Ave., Sioux City, Iowa.

900 A. smooth black land, adjoining the town of Caddo. 800 in cult. 4 good sets of impr. Can sell in small farms. Price \$50 per a. E. Holcomb, Durant, Oklahoma.

**BEST alfalfa farm** in Oklahoma. 90 a. growing alfalfa, 25 a. wheat, 25 a. oats; 3 mi. hog tight fence; one-half mile to \$50,000 federal building. The greatest bargain ever offered. One-half mile to this city. C. W. Smith, Kingfisher, Oklahoma.

**INDIAN FARMS** for sale in rain, corn and oil belt of N. E. Oklahoma at from \$15 to \$35 per acre. Easy terms. A perfect title is guaranteed. For description and prices write the owner, W. C. WOOD, Nowata, Oklahoma.

**WRITE US FOR DESCRIPTION OF FARM** That pays 10% cash income this year and that we guarantee to pay 9% on cost price next year. Also inquire about pasture land at \$3.50 to \$90 per acre. SOUTHERN REALTY CO., McAlester, Okla.

## 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.

**HOMESEKERS farm list.** Southwestern Land & Imm. Co., Springfield, Mo.

Chicken ranch, \$600. Terms. Other farms. Pictures, maps, free. Box 594, Mt. View, 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.

\$5 DOWN, \$5 monthly, buys 40 acres; fruit, poultry, grain land near town. Price \$200. \$10 monthly buys 80 acres. Address Box 372-R, Carthage, Mo.

**VALLEY FARMS, \$25 to \$50;** unimproved lands, \$6 to \$20; orchard and berry farms, \$40 up; water and climate unexcelled. Literature and free list. ANDERSON REAL ESTATE CO., Anderson, Mo.

I HAVE for sale fine farms from 40 a. to 1,000 acres, at \$5 per a. and up, in one of the best counties in the state of Missouri; new railroad now building. For list and particulars write W. D. Blankenship, Buffalo, Mo.

ONE of Howell Co., Mo., good farms. 279 a.; 170 cult., 9 room house, good cellar. Large barn, other buildings. Orchard, fine water, 3 mi. railroad town, 6 mi. county seat, West Plains, on R. F. D. and phone line. 1/2 mi. school. \$40 a. No trade. A. P. COTTRELL LAND CO., Pomona, Howell Co., Mo.

A SNAP—120 acres Vernon Co., Mo. 10 mi. Eldorado Springs. Valley land; in cultivation; 4 room house. Barn and orchard. J. R. Ford, Agt., Eldorado Springs, Mo.

**BATES COUNTY FARMS** ranging from 40 to 800 acres; \$40 to \$75; located 60 miles south of Kansas City, Mo. J. D. SAGE, Amsterdam, Mo.

**A SNAP FOR THE CASH.** 200 acres, 160 fenced, 120 cultivation, 2 1/2 miles to postoffice, 1 mi. to school, 10 to county seat. Good house and barn; everlasting spring, fruit; price \$4,000. Will give terms. KIRWAN & LAIRD, West Plains, 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 5 1/2%. Price \$1,400. List free. JAS. B. WEBB, West Plains, Mo.

**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., Rolla, Mo.

## A Remarkable Bargain

320 A. all level land, 65 a. in cult., 80 a. pasture; bal. saw and tile timber. 180 fenced, wire and rail; 9 room house, good well at house; barn 70x76; good well at barn; smoke house, other outbuildings; phone in house; handy to school and church; 6 mi. to North View on Frisco R. R. 5 mi. to Fairgrove; 8 mi. to Co. seat, Marshfield; price \$17,000. Incumbrance \$5,000, 5 per cent, due 6 years; will exchange for good Kansas farm. Will assume as much as \$9,000. What have you to offer? See or write PURDY & COMPANY, Springfield, Mo.

## Ozark Unimproved Farm Bargain

150 acres of good unimproved farming land, near Van Buren, county seat of Carter Co. Fine pasture land, good for dairy, fruit and in fact you can raise almost anything you can raise in the North. Located in the Ozarks of Missouri. Makes the climate the very best. Excellent water. Price \$10 per acre. For full particulars write JOHN M. CARNAHAN, Van Buren, Mo. (County Recorder Carter Co.)

# FOR SALE OR EXCHANGE

GROCERIES for land or land for mdse. F. Gass, Joplin, Mo.

EXCHANGES—all kinds—free list. Foster Bros., Independence, Kan.

OZARK farms and mdse for sale or trade. Noah Atkinson, Marshfield, Mo.

GOVE COUNTY real estate for sale or exchange. What have you? F. B. Hazelwood, Clerk District Court, Gove, Kan.

FARMS and ranches for sale or exchange. Describe fully what you have or want. M. F. Simmons, 817 Walnut St., Kansas City, Mo.

80 ACRES, all tillable, 2 miles town; located in Allen county, Kansas. Price \$50 per acre; owners want to trade for city property. Mansfield, Ottawa, Kansas.

1,120 ACRES Gove Co., Kansas, well improved, all good land, clear, \$21 a. Want hardware or lumber, or good business equal value. Buxton Land Co., Utica, Kan.

160 A. good land, 10 mi. Dodge City; 90 a. cult.; fenced, house; \$3,200, carry \$1,100 6%. Consider trade for rental or mdse. Write for list. L. L. Taylor & Co., Dodge City, Kan.

HAVE a fine 1,120 acre stock ranch to trade for small place as part pay and give good terms on difference. \$15 a. clear. Write Walter A. Doerschlag, Ransom, Kan.

WHAT have you to trade for Arkansas level cutover land? Close to railroad; no overflow; no negroes; no rocks. Shaeffer Land Co., 640 Reserve Bk. Bldg., Kansas City, Mo.

120 ACRES, all new improvements, 5 room house, barn 30x40, other good outbuildings, 2 wells, 3 miles of town. Owner wants to trade for a livery stock. Mansfield, Ottawa, Kan.

SNAP—Good flour mill in heart of grain belt. Cash price \$15,000 clear. Would exchange for good land. Full description on request. A. W. Bremeyer & Co., McPherson, Kan.

160 ACRES 8 miles from Marlon, well improved, for sale or exchange. Owner wants more land near German Lutheran church with moderate improvements. Will assume \$3,000 or \$4,000 on something suits. Price \$85 per acre. W. P. Morris, Marlon, Kansas.

FREE—Loose Leaf Exchange Book. It will match your trade. Write Desk A. E. P. JOHNSON, Ordway, Colo.

FOR EXCHANGE, 160 a. near Ft. Morgan, Colo., at \$10,000 and 63 a. near Brush, Colo., at \$150 per a. Both farms clear. Walter Hanson, Sabatha, Kansas.

640 acres 6 miles from Ingalls, Gray Co., Kan. All tillable, 170 acres in cultivation, 320 acres under fence, good well, house, and barn, \$17.50 per acre. Terms, \$6,200.00 cash, balance time at 6% interest. Will take automobile as part payment. Address James Pizinger, Holsington, Kan.

WRITE Fred L. Kent, Uniontown, Bourbon Co., Kan., for honest prices on farms.

TRADES everywhere. Get our large list. Burrow's R. E. Ex., Warm Springs, Ark.

\$16,000 GENERAL merchandise, never changed hands; for good Kansas land. A. W. BREMEYER & CO., McPherson, Kan.

WE HAVE a section of unimproved Sherman county land that we can trade for a stock of mdse. or good clear rental property. Kysar Realty Co., Goodland, Kansas.

FOR SALE—Choice wheat, corn, and alfalfa lands, in Clark, Ford, and Meade Cos. Write for list, trades. NATE NEAL, Real Estate, Minneola, Kan.

FARMS, stocks, and city property for sale or trade. What have you to offer? Bigham & Ochiltree, 802 Corby-Forssee Bldg., St. Joseph, Mo.

280 A. Ness Co., Kan., well improved; price \$30 per a. Mtg. \$4,000. Wants 5 or 10 a. Write for information. Good time to list now. Owner's Sale & Exchange, Independence, Ks.

160 A. irrigated farm in Colorado to trade for good hotel. Three clean modern residences located in eastern Kansas, town of 3,000 to trade for good improved farm 80 to 120 a. Also fine bargains in alfalfa farms and suburban properties; 5, 10, 20 and 40 acre tracts. For information address Box 193, Garnett, Kansas.

FOR SALE AND EXCHANGE. Washington Co. improved farms at \$50 to \$180 a. Write F. E. Beeson, Washington, Ks.

FOR SALE OR EXCHANGE for hardware, (other property considered), 2 quarter section land. For particulars, address Box 44, Wayne, Kansas.

Buy or Trade with us—Exchange book free Bersie Agency, Eldorado, Ks

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-Forssee Bldg., St. Joseph, Mo.

For Sale or Trade \$4,200.00 first mortgage due in less than two yrs. at 6% on 313 acres of land in St. Clair Co., Mo., near Appleton City. Want merchandise of equal value or about, hardware preferred. 160 acre well improved farm within 4 mi. Valley Falls, Kansas. Want 80, 200 or 240 acres in Missouri within 60 miles of St. Joseph. Price \$100.00 per acre and worth it. Inc. \$2,000.00. W. L. BOWMAN REALTY CO., King City, Mo.

## A New National Policy

(Continued from Page 3.)

clares, such a system has supplied from such deposits, as high as 98 per cent of all the money required by the German farmers for their operating expenses. This mortgage banking system of Germany has brought more than 2 billion dollars to the German landowners for the development and improvement of their land. In France, the mortgage bonds of the Credit Foncier, which are only farmers' mortgages under another form, sell at lower interest rates than even first-class industrial bonds. Secretary Houston informed me that if a mortgage banking system could be established in the United States, billions of dollars of additional money could be secured for farmers at much lower rates and on better terms than at present. He believes that with the great development in American farms which this money would make possible, food production in the United States, now rapidly decreasing, would no longer occasion alarm.

### A Time to Think and Plan.

So, it seems, slowly but steadily, the man who for centuries has patiently toiled, accepting another man's price for that which he has to sell and paying another man's price for that which he has to buy, is at last getting recognition which is his rightful due. It will take time no doubt to get the results—for action in regard to all great questions is necessarily slow. Meanwhile, every one of us should carefully study the matter from its various angles and talk over the needs of our own particular community. By so doing we get closer step by step to our ultimate goal. Each man must do his part. Whenever the farmers of these great central farming states fully awaken to their needs and to the necessity of working together they will get whatever they may rightfully demand.

Co-operative marketing is undoubtedly the key that will open the door to more profitable farming and a better farm life.

It is my opinion that an organized or co-operative system of direct marketing need not be feared by any class of men. It is not unlikely that nearly as many handlers will be needed under the new system as is required by the old, and readjustment will be gradual. The chief difference, in my opinion, will be a more equitable distribution of rewards, in which the producer will receive a deservedly greater share proportionately than he now does, and the consumer a lightening of his burden. There will be an end then, I think, to our wasteful carting of raw material from one end of the United States to the other and its reshipment as a manufactured product back to its place of origin. We shall stop all that.

### Shawnee County's Best Crops

Based on a soil survey of the county, and the county's market opportunities, the government's soil experts say the two most important farm industries of Shawnee county should be dairying and alfalfa production. Shawnee is in the northeastern part of Kansas and Topeka is its county seat town. One-third of all the apple seedlings sold in the United States are grown in Shawnee county.

The experts recommend that alfalfa, Red clover or cowpeas should be included in every rotation. Cowpeas are not extensively grown in the county at the present time. When sown with corn, cowpeas not only add to the amount of forage but also are beneficial to the succeeding crops. Red clover sown in the spring in wheat makes excellent pasture after the wheat is removed and can be mowed for two years. Alfalfa can be grown on all soils in the county and is an excellent soil renovator. The experts say that corn should not be grown on the same land continuously for more than two years. For a rotation covering a long period of years alfalfa would be excellent.

The report is illustrated with a map showing the extent and location of the different types of soil as well as the roads, streams, farm houses, churches and schools. Reports will in time be made for each county in the state.

I am receiving the Mail and Breeze regularly and would not be without it.—S. Jensen, Scandia, Kan.



**10 DAYS FREE TRIAL**  
We will ship you a "RANGER" BICYCLE on approval, freight prepaid, to any place in the U. S. without a cent deposit in advance, and allow 10 days free trial from the day you receive it. If it does not suit you in every way and is not all or more than we claim for it and a better bicycle than you can get anywhere else regardless of price, or if for any reason whatever you do not wish to keep it, ship it back to us at our expense for freight and you will not be one cent out. We sell the highest grade bicycles direct from factory to rider at lower prices than any other house. We save you \$10 to \$25 middlemen's profit on every bicycle. Highest grade models withuncture-proof tires, imported roller chains, pedals, etc., at prices no higher than cheap mail order bicycles; also reliable medium grade models at unheard of low prices.

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I absolutely guarantee to save you \$50 to \$300 on any Galloway gasoline engine. Made in sizes from 1 3/4 h. p. to 15 h. p. My famous 5 h. p. engine—without an equal on the market—sells for \$99.50 for the next 60 days only! Buy now! Same nice costs \$225 to \$300 through your dealer. Think of it! Over 50,000 Galloway engines in use today. All sold on same liberal, free 90 Day Trial Offer I make you—and all giving satisfaction. Isn't that proof enough?

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Write me before you buy any other style or make. Get my catalog and low direct price on the famous Galloway line of frost-proof, water-cooled engines. Free Service Department at your disposal. My special 1913 offer will help you get an engine partly or wholly without cost to you. Write today. Do it now. **WILLIAM GALLOWAY COMPANY,** 45 Galloway Station, Waterloo, Iowa.

## FREE This Famous Sewing Awl

You can sew old or new harness, saddles, canvas, tents, rugs, carpets, quilts, shoes, grain bags and many other things. You can use any kind of thread in the Myers Awl, and it makes a lock stitch same as a sewing machine. It is very simple; a woman can use it as well as a man. It is one of the most practical devices ever invented. They are put up with two needles; one is straight and one curved, with a small screw driver and wrench combined. Also a reel of waxed thread with each awl ready for use. The cut does not show full size. With needle the awl is 6 1/2 in. long. It is the Myers Famous Lock Stitch Sewing Awl. It is the only Sewing Awl made with a groove running the full length of the needle, so as not to cut the thread when sewing, and has what is known as a diamond point. Every teamster and farmer should own a Myers Lock Stitch Sewing Awl, as there is use for one in almost every household. The Myers Awl is nicely finished, the metal parts are nickel plated, the needles and wrench are kept in the hollow handle which has a screw top. Anyone who will send \$1.25 to pay for a one-year's subscription to our big farm paper can receive one of Myers' Lock Stitch Sewing Awls, which we will send by mail, postage paid, as a free premium. Use Coupon below.

### MAIL AND BREEZE

is the biggest and best farm journal in the West with over 100,000 readers. Established in 1873. Price, 1 yr., \$1.00. The best edited farm journal in America.

Pub. Mail and Breeze, Topeka, Kan.  
Dear Sirs:—Enclosed please find \$1.25. Send me your paper regularly for 1 year, and one of the famous Lock Stitch Sewing Awls free and prepaid.

Name .....  
P. O. ....  
County..... State..... R.R.No....

## Grocery Stock Wanted!

In exchange for one or two good quarters of fine land in east end Hodgeman county, Kansas. Land is clear, but want mortgage back on land for one-third value. Don't write about anything else. Don't want buildings. M. W. PETERSON, Hanston, Kan.

### TEXAS

CORN, cotton, potatoes and rice are making our farmers good money. Prices from \$25 an acre up. A few special bargains. Fidelity Immigration Co., Eagle Lake, Tex.

GERMAN CATHOLIC colonization proposition. 5,000 a. in South Texas, near Co. seat; good church and schools; 9-10 population German Catholic. \$20 per a. Also smaller tracts. D. W. GRANT, Palacios, Texas.

THE BEST cheap land proposition in the United States today. Wheat yielding from twenty to forty bushels per acre, all other crops equally good. Write us for particulars. J. N. JOHNSON LAND CO., Dalhart, Tex.

GOOD FARM AND RANCH near station in Montgomery county, Texas. 1/2 black land, 3 residences; 5 tenant houses; 1/2 cultivated, all fenced. 600 acres at \$16 per a. WINSTON McMAHON, 708 Union National Bank Bldg., Houston, Tex.

HALF THE PRICE You pay in the North, or less, will purchase prairie land, 160 acres up. Will yield 40 bushels corn per acre, only \$40 per acre. Plenty rain, fine climate. Have some exchanges. See or write JNO. C. PENN LAND COMPANY, Houston, Tex.

BARGAINS IN GULF COAST LANDS. FACTS about the Mid-Gulf-Coast Country of Texas. Production, climate, rainfall, soil, markets, water. Large or small tracts. Write at once for free booklet and price lists. Reference given. John Richey & Co., Blinz Bldg., Houston, Tex.

PROFITS IN GULF COAST LAND. Wonderful production, large increase in value, an attractive home. Get our Free Booklets, "The Road to Prosperity" and "A Pointer on Where to Buy Land." Will send you free "The Gulf Coast Bulletin" for 6 mo. Write THE ALLISON RICHEY LAND CO., 2nd Floor Carter Bldg., Houston, Tex.

### CALIFORNIA

CALIFORNIA alfalfa and fruit lands. Only \$50 to \$110 per acre including water right. Terms, one-fourth cash, bal. 8 payments commencing second year. Send for booklet 161. Agents wanted. The Cal-Tex Inv. Co., 908 Security Bldg., Los Angeles, Cal.

### NEW MEXICO

IRRIGATED alfalfa land at bed-rock prices. No alkali, cyclones or hot winds. Pure water, supply guaranteed. New pump-and-field. Ground floor proposition. Lovington Realty Co., Lovington, New Mexico.

### COLORADO

EASTERN COLORADO—The new home-stead law. Bargains in relinquishments. Farm land. You can buy it, if you try it; come and see it and you will do it. Lock Box 713, Garden City, Kan.

GOLDEN opportunities for a home and investments—NOW. Fine farms, ranches, \$3 to \$10 per a. A few relinquishments. Did you see "bleeding, aims-receiving Kansas" become the wealthiest state per capita? Only a few hours' west of Salina, no finer soil on earth; 50 schools, 4 banks, churches, best of Colorado. Now. Pamphlet. R. T. CLINE, Towner, Colo.

THE INTERNATIONAL REALTY & INV. CO. 618-20 Gas and Electric Bldg., DENVER, COLORADO. Write us for highly improved irrigated and dry farms, choice Fruit Tracts in Colorado, and City Property in Denver.

### A British Farmer's Opinion of the Mail and Breeze

Mr. Editor—The Mail and Breeze is a very valuable paper and should be taken by all persons engaged in farming or ranching. I note you offer every inducement for subscribers to become interested in its columns, and I sincerely trust your efforts for their well being will meet with a ready response.

Our English climate is of rather fickle nature. During December and January we had a great rainfall. In February, during a fortnight or so of favorable weather for drying up the land, large tracts of grain, wheat, oats and barley were planted, sown mostly with 10 or 12 furrow drills, but occasionally broadcasted. March again was rather wet and work on arable land impeded. Most of the grain planting is completed. The principal work now is preparing the ground for marigolds, sweet turnips, etc., and chain harrowing and rolling grass ground. All kinds of livestock are in great demand, and command high figures.

JOHN HODGETTS.  
West Lodge, St. Witley, Worcester, England.

# WHAT BREEDERS ARE DOING

**FRANK HOWARD,**  
Manager Livestock Department.

### FIELDMEN.

A. B. Hunter, S. W. Kansas and Oklahoma, 1124 So. Market St., Wichita, Kans.  
John W. Johnson, 820 Lincoln St., Topeka, Kan., N. W. Kansas and S. Nebraska.  
C. H. Walker, N. E. Kansas, N. Missouri, 3632 Flora Ave., Kansas City, Mo.  
Geo. W. Berry, N. Nebraska and W. Iowa, Capper Bldg., Topeka, Kans.  
Harry W. Graham, E. Iowa and Illinois, Chillicothe, Mo.  
Ed 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.

### Percherons.

May 21—J. C. Robison, Towanda, Kan.  
**Poland China Hogs.**  
May 27—H. C. Graner, Lancaster, Kan.  
Aug. 12—H. Pesenmeyer, Clarinda, Ia.  
Aug. 13—John B. Lawson, Clarinda, Ia.  
Aug. 13—J. W. Prander & Sons, Clarinda, Ia.  
Oct. 1—D. C. Lonergan, Florence, Neb.  
Sept. 6—J. C. Stalter, Jasper, Mo.  
Oct. 21—H. B. Walter, Effingham, Kan.  
Oct. 15—R. B. Davis, Hiawatha, Kan.  
Oct. 17—Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb.  
Oct. 22—H. C. Graner, Lancaster, Kan.  
Oct. 25—J. W. Leeper, Norton, Kan.  
Oct. 28—W. R. Webb, Bendena, Kan.  
Oct. 29—Walter Hildwein, Fairview, Kan.  
Oct. 30—Harry Wales, Peculiar, Mo.  
Oct. 30—Merton Williams, Valley Falls, Ks.  
Nov. 1—John Belcher, Raymore, Mo.  
Nov. 5—Joe Schneider, Nortonville, Kan.  
Nov. 5—B. B. Davis, Hiawatha, Kan.  
Feb. 10—H. B. Walter, Effingham, Kan.  
Feb. 12—Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb.  
Feb. 13—J. E. Willis, Prairie View, Kan.  
Feb. 14—J. F. Foley, Orinogue, Kan.  
Feb. 17—L. E. Klein, Zeandale, Kan.  
Feb. 18—J. H. Harter, Westmoreland, Kan.  
Feb. 19—J. L. Griffiths, Riley, Kan.

### Duroc-Jersey Hogs.

Oct. 17—Moser & Fitzwater, Goff, Kan.  
Oct. 31—A. M. Rinehart & Son, Smith Center, Kan.  
Nov. 1—N. B. Price, Mankato, Kan.  
Nov. 5—W. E. Monasmith, Formoso, Kan.  
Nov. 7—Leon Carter, Asherville, Kan.  
Jan. 28—W. E. Monasmith, Formoso, Kan.  
Jan. 29—N. B. Price, Mankato, Kan.  
Jan. 31—A. M. Rinehart & Son, Smith Center, Kan.  
Feb. 5—Samuelson Bros., Cleburne, Kan.  
Feb. 6—Leon Carter, Asherville, Kan.  
Feb. 7—E. G. Munsell, Herington, Kan.  
Feb. 9—E. A. Trump, Formoso, Kan.  
Feb. 10—Agricultural College, Manhattan, Kan.  
Feb. 11—Thompson Bros., Garrison, Kan.  
Feb. 20—John Emigh, Formoso, Kan.  
Feb. 21—Dana D. Shuck, Burr Oak, Kan.

### Shorthorn Cattle.

June 4—John M. Bay, Aledo, Ill.  
June 6—C. S. Nevius, Chiles, Kan.  
June 11—H. Rees & Son, Omaha, Neb.  
June 13—Whittitt Bros., Preemption, Ill.

### Holstein Cattle.

May 28—H. N. Holdeman, Meade, Kan.  
**Aberdeen Angus Cattle.**  
Oct. 22—W. F. Eckles, Green City, Mo.

## S. W. Kansas and Oklahoma

BY A. B. HUNTER.

H. R. Russell, Sedgwick, Kan., is making attractive prices on choice O. I. C. pigs of February and March farrow. Buy a pair or trio of these pigs while they are cheap. It will cost but little to ship them to you. Mr. Russell guarantees satisfaction. Read his ad in this issue and write today for full particulars. Mention this paper.

### Spring and Fall Boars.

G. C. Norman of Winfield, Kan., is offering special prices on spring and fall boars. He is especially anxious to move them at once as he needs the room for his spring crop. These boars are sired by Graduate Col. and Col. Selon, and out of as richly bred dams as walk the earth. There is no better bred boar in the Duroc-Jersey breed than Graduate Col. Neither is there in the breed a boar that has produced more prize winners or more high selling sons and daughters. A son of Graduate Col. would add prestige to any herd of Duroc-Jerseys in the land. Write Mr. Norman at once for full descriptions and prices.

### Holstein Cattle and Percheron Horse Sale.

H. N. Holdeman of Meade, Kan., the well known breeder of Holstein-Friesian cattle, will sell at the state fair grounds, Hutchinson, Kan., Wednesday, May 28, 23 head of Holsteins and eight head of Percheron horses. The Holsteins are rich in the best blood of the breed and include a number of his prize winners at both Kansas and Oklahoma state fairs. There will be cows and heifers in milk, others showing in calf, also young bulls of various ages. They are by such sires as Princess' Lad, Sarcastic, Shady Brook, Gerben Sir De Kol, whose nine nearest dams averaged 26 pounds of butter in seven days. Some are by Niko De Kol Lad, who has several proven sons and daughters and whose dam had an official 3-year-old record of over 17½ pounds. This is as good an offering of Holsteins as can be found in Kansas. Registration papers will be furnished to purchaser. They have all recently been tuberculin tested,

and if you want a start in Holsteins don't miss this opportunity. The Percherons include both stallions and mares consisting of one proven top stallion, 8 years old; one 3 and one 2-year-old stallion; also two good mares, one a filly of exceptional size and quality. These Percherons are all registered in the Percheron Society of America. Since there are only a few Percherons to be sold they will likely not attract enough buyers to make them bring their worth. Read display ad in this issue and write today for catalog, mentioning the breed in which you are interested. Remember the sale will be at Hutchinson, Kan., but address H. N. Holdeman, Meade, Kan., mentioning this paper.

### Alford's Good Duroc Sale.

S. W. Alford & Sons, Enid, Okla., sold Monday, May 5, at the farm near Enid, 53 Duroc-Jersey hogs, consisting of 41 gilts and 12 young boars. The gilts were bred to their several good herd boars and many of them were not yet quite a year old. The sale made a total of \$2,312.50 on 53 head. The 41 gilts averaged \$50.30. It was a nice smooth bred gilt offering and those bred to Tattletale's Volunteer seemed to be most in demand. Sales ran very even. The lowest priced gilt sold at \$30 and the top was \$70. The following is a representative list of sales:  
No.  
1—Ed Widrow, Enid, Okla. .... \$32.50  
2—H. L. Burgess, Nash, Okla. .... 50.00  
3—John Higgins, Abilene, Kan. .... 65.00  
5—Edmund Frantz, Enid, Okla. .... 70.00  
6—T. B. Lincoln, Enid, Okla. .... 65.00  
10—W. L. Wells, Crescent, Okla. .... 51.00  
11—J. E. Charleston, Enid, Okla. .... 56.00  
12—Bert Roark, Laboma, Okla. .... 71.00  
13—Richard Avery, Kingfisher, Okla. .... 46.00  
14—John Ellen, Enid, Okla. .... 50.00  
15—Chas. Dorr, Osage City, Kan. .... 42.00  
17—W. I. Drummond, Enid, Okla. .... 43.00  
20—F. P. Sylvester, Hennessey, Okla. .... 62.50  
22—W. C. Allen, Enid, Okla. .... 56.00  
24—Wm. Allen, Enid, Okla. .... 41.00  
25—Dr. Cotton, Enid, Okla. .... 45.00  
27—C. F. Abbey, Jefferson, Okla. .... 45.00  
28—J. E. Osborne, Hennessey, Okla. .... 41.00  
30—Glen Waters, Enid, Okla. .... 51.00  
33—W. B. Johnson, Enid, Okla. .... 66.00  
35—W. C. Maxey, Enid, Okla. .... 50.00  
36—H. D. Compton, Milton, Kan. .... 50.00  
38—F. A. Smith, Blair, Okla. .... 61.00  
42—C. H. Peters, Enid, Okla. .... 52.00  
44—Samuel Campbell, Carrier, Okla. .... 42.00  
47—W. H. Dunlap ..... 40.00

## N. W. Kansas and S. Nebraska

BY JOHN W. JOHNSON.

J. H. Harter, Westmoreland, Kan., is offering some choice fall boars for sale at attractive prices. They are of big type, out of big mature sows and sired by his well known big type boars. The boars offered for sale are all well grown and of the best of individuality. Write for prices and descriptions, mentioning Farmers Mail and Breeze.

N. E. Copeland, Waterville, Kan., is a well known breeder of big smooth Polands. He is improving his herd each year. This spring he has 65 March and April pigs and a fine lot of fall boars and gilts. He has for immediate sale about a dozen fall boars at attractive prices that are big smooth fellows that have been carefully grown and are good enough for any herd. The gilts will very likely be kept for a bred sow sale but the boars are for sale. If you need a boar at a reasonable figure write Mr. Copeland at once.

### Jewell Co., Farmer-Breeder.

J. W. Shuck & Sons, Esbon, Kan., are among the pioneer breeders of Duroc-Jerseys in Jewell county, where there are now 15 herds of this popular breed. Mr. Shuck owns one of the fine farms of Jewell county and two or three years ago built one of the finest homes in the county. He owns a large body of land where he lives and it is well improved and cared for. They have 71 pigs of March and April farrow. Also 16 fall gilts. The Shucks have added choice breeding animals to their herd during the past two or three years from Kansas, Iowa, Missouri, Nebraska and Ohio. The herd boar at the head of their herd at present is Pawnee Crimson by Crimson Wonder 3d. Lina was his dam, she by

B. & C's Col. He is 2 years old and a splendid individual and breeder. He is bred right and is right as an individual and sire.

### Lobough's Bred Gilts.

A. C. Lobough, Washington, Kan., a breeder of strictly big type Polands, has bought a boar of the Big Orange family, Orange Lad, by Big Orange and out of the great sow Fussy, by Big King, by Pawnee Lad, is a yearling, bred along the lines that insure size and other qualities that hog raisers are demanding at the present time. He is the sire of about all of Mr. Lobough's spring pigs and they indicate pretty clearly the advantage of good blood lines. Some of the spring pigs were sired by L's Mastiff, by King Mastiff, the first prize boar at the Nebraska State Fair two years in succession. The 20 fall gilts are by L's Mastiff and bred to Orange Lad. Mr. Lobough is one of the best breeders of strictly big type Poland Chinas in northern Kansas and has a fine herd adjoining Washington. Write him about bred gilts.

### Myers a Successful Auctioneer.

Will Myers, Beloit, Kan., is a young man who took up the work of fine stock auctioneering a few years ago and has made good beyond the expectations of himself or his friends. He is a farmer and stock raiser and a good one. He owns a nice farm in Mitchell county and has it well stocked. He made and assisted in all of the purebred sales in Mitchell county last season and in addition made nearly all of the big farm and horse sales made in that section of the country last year. Everyone is his friend and is boosting for him. Not only because he is a good fellow but because of his ability to make good owing to his knowledge of the stock business and his hustling qualities. His card appears regularly in the auctioneers' column and if you want a first class salesman to sell for you the next time you make a sale write Will Myers, Beloit, Kan. His prices are reasonable.

### A New Fair Circuit.

The new fair circuit organized during the winter in which five or six of the successful county fairs of central Kansas decided to co-operate as far as possible in helping each other in interesting livestock exhibitors is proving a success. Senator E. C. Logan of Beloit, secretary of Mitchell county's big fair, was the instigator of the "get together" plan for the county fairs of central Kansas. It is a move in the right direction and is sure to help all concerned and the state fairs as well. Senator Logan is a director of the state fair at Topeka. He was the first president of the Mitchell county fair and it was owing to his untiring efforts that it was finally successful and one of the big fairs of the state. He is now secretary and with the present arrangements will make the Mitchell county fair more successful than ever. Rooks county has taken the second week in September; Sylvan Grove, third week; Minneapolis, fourth week; Beloit, first week in October; and Russell, second week in October. It is a good arrangement and will add to the interest generally in these fairs. Write to either of them for premium lists. Address secretary of the fair whose premium list you want.

### Polled Durhams and Polands.

T. M. Willson of Lebanon, Kan., breeds Polled Durham cattle and Poland China hogs. His herd of cattle numbers 25 head and his herd of Poland Chinas 70 spring pigs, 10 fall gilts and a line of herd sows that would be a credit to any herd. Spring Brook Hadley, by Hadley Leader, and a yearling by Orange Tee, are the herd boars. All the spring pigs and fall gilts are by these boars. A fine litter in this herd, farrowed early this spring, is by Hayden's Big Hadley 2d. For five or six years Mr. Willson has been quietly building up a herd of Polled Durham cattle. He has been a liberal buyer from the Auchenbach Bros.' well known herd at Washington, Kan. His herd bull is a 2-year-old, weighing around 1,400 pounds, that came from the Ed Staglin herd. He is recorded as Good Enough and is a smooth, blocky fellow that has proven more than satisfactory to Mr. Willson. Mr. Willson has nothing for sale at present but will have some dandy bulls for sale later on. His farm is a few miles south of Lebanon, Kan., and visitors are always welcome. Any time you are coming through Lebanon and can stop off, phone Mr. Willson and he will come for you in his auto and return you whether you want to buy or not. If you are interested in Polled Durhams or Poland Chinas write him.

### Fall and Spring Boars and Gilts.

A. L. Albright, Waterville, Kan., is a breeder of Poland Chinas that has never changed very much in his ideas of type.

He has been in the business for a long time and improved his herd every year and found a ready market close at home for his surplus. Today his herd is one of the large herds of that section of the country. His herd foundation is made up of big smooth sows that have all the quality that could desire with the quality that makes the herd at once in a class almost by itself. The boar heading this herd is a 2-year-old, sired by King Mastiff, first at Nebraska State Fair two years in succession. He was bred by Cavett of Phillips, Neb., and is recorded as Cavett's Mastiff. He is one of the best individuals we know of and has proven himself a sire of big, even litters with the quality, finish and size that has put him in a class with the noted sires. Cavett's Mastiff is one of the best Poland China boars in northern Kansas at least. He is assisted by Tom Jr., by Big Tom, a noted show boar. His dam was a Big Victor bred sow. Mr. Albright has about 40 spring pigs and probably has many more fall boars and gilts. He will offer all of his pigs, both fall and spring, at private sale. Most of the spring pigs are by Cavett's Mastiff and all of the fall pigs are by him. His card is to be found at all times in the Poland China section of Farmers Mail and Breeze. Write at once for prices and descriptions. Mention Farmers Mail and Breeze.

## N. E. Kansas and N. Missouri

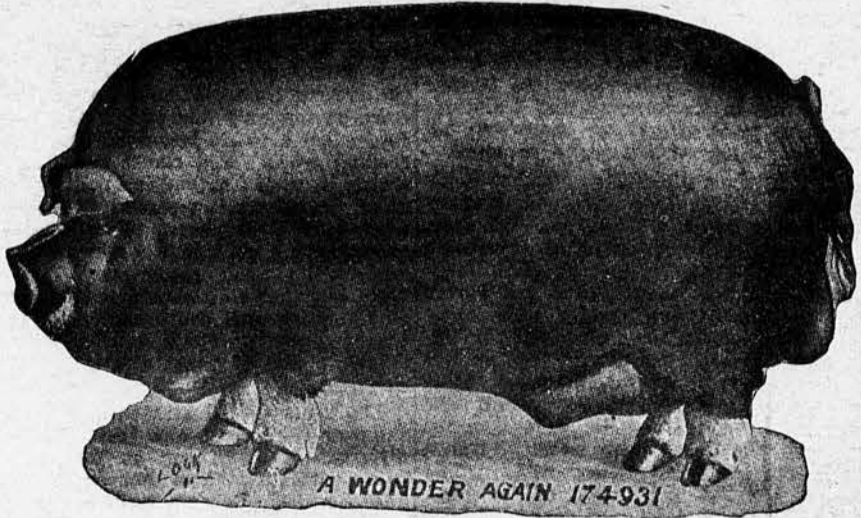
BY C. H. WALKER.

### Grist's Berkshire Bargains.

Over 400 head of Berkshires, intensely strong in the blood of the great Black Robinhood, raised in the open with plenty of alfalfa range and pure running water; bred and fed and raised with an eye to scale, bone, constitution, prolificacy, quality and finish and because of this the kind that go out and make good in other herds is the big business of which W. J. Grist of Ozawie, Kan., is proprietor. It is a sight for sore eyes to the man who loves hogs and appreciates what an undertaking such a plant as this is. Mr. Grist owns several hundred acres of the best land in that part of the state, has it stocked with purebred hogs, cattle and thoroughbred horses. He breeds Shorthorns and Jerseys and produces each year a high class lot of runners that make the big circuits—and usually bring home the bacon. But in this connection the Berkshires are the most important. Starting with a foundation of the best Black Robinhood blood obtainable and continuing along that line with sires of the same blood Mr. Grist has built up a herd that is a credit to any breeder. His Berkshires are line bred Robinhoods and not until the present young boar has he infused new blood. Now he is using Ajax, a son of Rival's Lord Premier, out of the great sow, Longfellow's Duchess 4th. This sow in turn was out of Duchess 279, giving the young boar world champion blood on both sides. He should do a great work in this herd. But the best proposition and one that should appeal to men, farmers and breeders alike, who are admirers of good sows and are in need of them, is that Mr.

### LIVESTOCK AUCTIONEERS.

- Jas. T. McCulloch, Clay Center, Kan.**  
Reference: The breeders I am selling for every year. Write for open dates.
- Wm. H. Harper, LIVESTOCK AUCTIONEER, GLASCO, KANSAS.** Phone for Dates.
- JAS. W. SPARKS Live Stock Auctioneer MARSHALL, MO.**
- COL. HOMER BOLES, Randolph, Kan.**  
Livestock and General Auctioneer.
- Col. D. F. Perkins, Concordia, Kan.**  
Up-to-date methods in the Auction business. Purebred stock sales and big sales generally. Write for dates.
- L. R. BRADY LIVESTOCK AUCTIONEER**  
Manhattan, Kan. Write or wire for dates.
- COL. S. B. YOUNG, Osborne, Kan.**  
Livestock Auctioneer. Write for dates.
- N. S. HOYT, Mankato, Kan.**  
Livestock Auctioneer. Big Horse and other Stock Sales a specialty. Terms reasonable. Special service to breeders.
- Col. J. R. LLOYD, ATHOL, KANSAS**  
LIVESTOCK AUCTIONEER.  
Write for terms and dates, and reference
- G. A. Drybread The Auctioneer Elk City, Kan.**  
Live Stock and Farm Sales made anywhere. Prices reasonable. Give me a trial. Satisfaction guaranteed.
- W. B. Carpenter,**  
Live Stock and Real Estate Auctioneer. Also President Missouri Auction School. 14th and Grand Ave., Kansas City, Mo.
- Will Myers** Beloit, Kan. Is already booked on leading breeders' sales in Central Kan. Choice dates still open. Write or wire.
- John D. Snyder HUTCHINSON, KANSAS**  
LIVE STOCK AUCTIONEER  
Wide acquaintance and practical knowledge of draft horses and pure bred live stock, all breeds.
- Learn Auctioneering**  
at World's Greatest School and be independent. Write today for free catalog. Jones National School of Auctioneering, Washington Blvd., Chicago, Ill. Carey M. Jones, Pres.
- FRANK J. ZAUN FINE STOCK AUCTIONEER**  
Independence, Mo., Bell Phone 675 Ind.  
My References: America's best breeders for whom I have been selling for years.  
**Get Zaun He Knows How**



A WONDER AGAIN 174931

He Belongs to the Poland China Aristocracy.

The above is a good picture of A Wonder Again, J. L. Griffith's premier herd boar. He was sired by Long Prospect and out of the noted Mollie B., a full sister to the dam of Ellerbroek's A Wonder and a half sister to Fesenmeyer's famous boar, A Wonder. A Wonder Again was brought to Kansas from Iowa where he was in his zenith. He was selected to head Mr. Griffith's herd because of his ability as a sire.

**POLAND CHINAS.**

**Sunny Side Poland Chinas** Sows bred for summer and fall farrow. Stock priced right. Satisfaction guaranteed. J. G. BURT, SOLOMON, KANSAS.

**NEBRASKA TYPE POLANDS** Choice summer and fall boars and gilts, by Haden's Big Hadley sire, Pan Wonder, and Sire Chief. C. C. INGRAM, Bloomington, Neb.

**Poland China** tried sows and fall gilts, bred or open. Big type boars and big mature dams. J. F. FOLEY, Oronoque (Norton Co.), Kan.

**100 SPRING PIGS** Sired by King Hadley, King Blain, Jr., King John and Long John 2nd; orders booked for May and June delivery. W. Z. BAKER, Rich Hill, Mo.

**Cleburne Breeding Farm!** Big type spotted Poland Chinas. Male pigs for sale, fall and spring pigs. Alfred Carlson, Cleburne, Kas.

**Albright's Fall and Winter Boars and Gilts for sale.** 40 head of nice, smooth individuals, sired by Cavett's Mastiff, by King Mastiff, and out of big type sows. Write for prices. A. L. ALBRIGHT, Waterville, Kansas

**LARGE WITH PLENTY OF QUALITY!** Handsome young boars, gilts bred or open. Best of large type blood lines. Some boars, head headers Satisfaction guaranteed on all breeding stock. OLIVIER & SONS, DANVILLE, KANSAS.

**Summer Poland Chinas** Big type Aug., Sept. and Oct. gilts open but will breed to Best Price 25201 or Gold Mine. Some extra good tried sows for July and Aug. farrow. 7 Aug., Sept. and Oct. boars for sale \$25 each, sired by Gold Mine and Pan Look. DIETRICH & SFAULDING, Richmond, Kansas

**GREEN LAWN STOCK FARM** 100 spring pigs and 20 fall gilts for sale, representing the leading prize winning, big type Poland China blood lines. J. T. ELLIS, Adrian, Mo. Successor to A. J. Erhart & Sons

**Harry Hoak's Poland Chinas** Spring boars and gilts, pairs and trios unrelated. Fashionable big type blood lines. The finest lot of pigs we ever raised. Call or write today. HARRY HOAK, Attica, Kan.

**HOWARD R. AMES, MAPLE HILL, KANSAS** No sales. March pigs sired by big type boars and out of my big sows for \$10 each to July 1st. Both sexes. Certificate with each pig. Address as above. Satisfaction guaranteed.

**NEBRASKA BIG TYPE BOARS** Some outstanding September boars by Reformation 9623 and out of Whiteface Queen. Real Herd Header material priced low to make room. A. N. WAECHTER & SON, Riverton, Nebr.

**Schneider's Poland Chinas** A few toppy fall boars for sale, out of my best sows, by Guy's Expansion and Goldust Hadley. Also a great lot of Feb. and March pigs—pairs or trios. Joe Schneider, Nortonville, Kansas.

**Big Type Poland!** Young boars ready for service and open gilts ready to breed. They are strong in the blood of Big Hadley and A. Wonder. The smooth kind. Every description guaranteed. Call or write. A. R. ENOS, RAMONA, KANSAS.

**COLUMBUS** The 1650-lb. Grand Champion, 1912, Nebraska, Kansas, Missouri and American Royal, heads my herd **Big Type Poland Chinas** R. B. BAIRD, Central City, Nebraska

**Klein's Tabor Valley Herd** Big type Poland China fall gilts bred or open, sired by my Iowa boar and out of my big matured sows. Write for prices. L. E. KLEIN, ZEANDALE, KANSAS.

**John Harter's September Boars** 25 selected Sept. boars to pick from. Sired by Mogul's Monarch, Long King, Prince Hadley and Gebhart. Well grown and desirable as herd boars. Prices right. Satisfaction guaranteed. J. H. HARTER, WESTMORELAND, KAN.

**Dean's Mastodon Poland** 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

Head headed by Mastodon Price, Columbia Wonder and Gitter's Longfellow 3d. Everything guaranteed and sold worth the money. Address CLARENCE DEAN, WESTON, MISSOURI

**POLAND CHINAS!** Bred sows at private sale. Also fall and spring boars. Sows bred to Tom Lipton, Weltoner, Iron Clad 2d and others. Priced right. Ask for prices and descriptions. JOSEPH M. BAUER, ELMO, KANSAS.

**Expansive Chief is SOLD** You will have to hurry if you want one of those toppy fall boars. A few good ones left but they are going fast. They are sired by Expansive Chief, Expansive's Wonder and Long King's Best. All are cholera immune. Write now. H. B. WALTER, Effingham, Kansas

**A. D. JONES** of DUNLAP, IOWA has for sale 40 fall boars sired by 1,000 pound boars and from 600 and 800 pound dams; strictly big type Poland Chinas. I breed for length, bone, large litters and quick maturity. I also have 50 fall gilts, to be in the market this fall and winter and 100 spring pigs that are doing fine.

Grist is in a position to offer a number of sows, the same kind and same quality he keeps in his herd, bred for May and June litters. He has 25 of these that can be bought worth the money. They are the biggest bargains imaginable at the prices asked and we suggest to those who are in the market for good prolific sows, bred to good boars, to get in touch with Mr. Grist at the earliest opportunity. Write him per his card in this issue for prices and further information. Kindly mention the Farmers Mail and Breeze when making inquiry.

**Graner Has Great Poland Offering.** One of the best, most uniform and most valuable offerings of Poland China bred sows that has gone through a sale ring this year will be the offering which Henry Graner & Son will sell at Lancaster, Kan., on May 27. They are all yearlings, uniform in size, color and quality and will weigh 200 pounds by sale day. They are of May, June and July farrow, sired by big type boars that insure size, heavy bone and constitution and are out of Mr. Graner's best sows, which insure broody, prolific mothers. They are bred to boars that are guarantees of all these desirable qualities. They are to be sold at a time when the farmer and breeder can best save the pigs; at a time when they never were as good property and they are all immune from cholera. It is one of the last sales of bred sows to be held before fall—in fact there are all kinds of reasons why this offering should attract buyers. Mr. Graner extends a cordial invitation to all hog men to come to the sale. He has a great lot of spring pigs, the best he ever has bred or raised and he wants to show the breeders and farmers what he is doing at the Pleasant Hill Stock Farm. He justly feels that this offering, while not as large as former ones, is better in quality, just as good in breeding and he is offering them at an advantageous time for the buyer and is selling them immune. He will gladly mail a catalog to those interested enough to write and will gladly furnish further information for the asking. Write him per his advertisement in this issue.

**Good Hereford Sale at Kansas City.** SUMMARY. 60 bulls .....\$10,250; average.....\$170.83 32 females .... 7,360; average..... 230.00 92 head ..... 17,610; average..... 191.41

The above summary shows how the Hereford cattle sold in the breeders' sale of Herefords at Kansas City on May 6. The attendance was heavy and represented a wide range of territory. Buyers were there from as far as Mississippi and Tennessee on the south, Illinois and Michigan on the east, Colorado and Wyoming on the west and North Dakota on the north, with all the corn belt states heavily represented. It was one of the best Hereford sales held in years when it is considered that a big portion of the offering lacked flesh. The buyers realized, however, that they were buying regular breeding cattle in breeding condition. They were not paying good prices for cattle that had been pampered, but were getting good, dependable breeding material. As usual Kansas and Missouri were heavy buyers of the better stock and the breeders who contributed Missouri and Kansas Herefords had some of the best stuff in the sale. The Kansas Agricultural college had the distinction of selling the highest females in lots 61, 60 and 59. The top was \$500 paid by D. W. Woods of Clements, Kan., for a 5-year-old cow by Hobson 97721, bred by W. B. & J. M. Rodgers of Beloit and consigned by the K. S. A. C. Mr. Woods also bought lot 59, a fine daughter of Advance 203945, consigned by the K. S. A. C. Guggell and Simpson sold a great line of Anxiety females and E. E. Wall of Leeton, Mo., had an exceptionally fine lot of bulls in the sale. A great many new breeders and farmers were in attendance at the sale and realizing the demand for Herefords added to their herds and in many instances started new ones. R. T. Thornton, manager of the sale, is to be congratulated as well as the consignors for the fine lot of cattle gotten together and the way the sale was handled. Col. Zaun, Drybread and Reppert were the auctioneers.

**Good Sale for Branic's Poland.** The entire Poland China herd, including sows, open gilts, herd boar and about 25 spring pigs, owned by C. L. Branic of Hiawatha, Kan., sold in his dispersion sale Wednesday, May 7, for a general average that exceeded \$30. It was a remarkably good sale when it is considered that the 1913 spring pigs, little fellows, that sold from \$8 to \$10 each cut the average. The bred sows averaged better than \$50. It took several automobile loads to transport the breeders from a distance to the sale and only a very few horses stayed in the county. Mr. Branic's reputation for buying good stock and the reputation he has attained with O. K. Lad attracted breeders from a wide range of territory. Jos. H. Orr of Leavenworth, who owns one of the biggest farms in that county, operating something like 2,000 acres, was the heaviest buyer, securing close to 30 head. What was considered by many to be the bargain of the sale was the herd boar, O. K. Lad. Roy Johnston of South Mound, Kan., secured this great sire for the very reasonable price of \$161. O. R. Strauss of Milford, Kan., topped the sow offering at \$86 for a fine sow, by Union Leader, W. R. Webb's former herd boar. The sale showed conclusively that the better class of stock is in great demand and that the demand is far in excess of the supply. Col. Chas. M. Scott, formerly of the Poland China firm of Scott & Singer at Hiawatha, conducted the sale in excellent shape and made many friends by his good work. Below is a list of buyers of the bred sows and herd boar.

- Lot 1—O. K. Lad, Roy Johnston.....\$161.00
- 2—H. C. Rogers, Stockdale, Kan.... 40.00
- 3—H. C. Graner, Lancaster, Kan.... 63.00
- 4—H. B. Walter, Effingham, Kan.... 51.00
- 5—H. B. Walter, Effingham, Kan.... 39.00
- 6—H. B. Walter, Effingham, Kan.... 50.00
- 7—Jos. H. Orr ..... 63.00
- 8—Same ..... 40.00
- 9—Same ..... 40.00
- 10—Same ..... 40.00
- 11—R. B. Davis, Hiawatha, Kan.... 32.50
- 12—J. W. Anderson, Leonardville, Kan. .... 59.00
- 13—Jos. H. Orr ..... 60.00
- 14—O. R. Strauss ..... 86.00
- 15—Jos. H. Orr ..... 32.00
- 17—S. B. Amcoats, Clay Center, Kan. .... 60.00

**DUROC-JERSEYS.**  
**10 Duroc Jersey Boars**

of summer and fall farrow. \$25 each to move them quick. Sired by Model Chief and out mature sows. Dana D. Shuck, Burr Oak, Jewell Co., Kansas

**Duroc Boars For Sale** Zeke Col. by B. & C. Col., my great herd boar, also a few of his fall boars, price \$20. Good bone and thrifty. S.C. Buff Leghorn eggs \$1 per 15, \$4 per 100. JOHN FERRENOUD, HUMBOLDT, KAN.

**Stith's DUROCS** Sows and gilts bred to and young boars and gilts by Model Duroc, one of the best sires of the breed. His half brother and sister were grand champions. His sire was a champion. Write today. CHAS. STITH, Eureka, Kansas

**Hillside Herd** Only a few late fall 100 pound boars left and a few fall gilts. Lots of fine weanling pigs by Dandy Model 131783. W. A. WOOD & SON, ELMDALE, KANSAS.

**Dreamland Colonel** Summer and fall boars and gilts for sale. Everything immune. Nothing but desirable animals offered. Prices reasonable. LEON CARTER, Asherville, Kan.

**Bonnie View Farm** Duroc-Jerseys: Fall and spring pigs. Plymouth Rocks: Eggs in season. Searle & Cottle, Berryton, Ks.

**Robinson's Mammoth Poland Chinas!** My herd boars weigh from 800 to 1,025 lbs. Now have for sale, two good tried boars and a few extra good last fall pigs of both sexes. My terms are: If you are not satisfied return the hog and I return your money. F. P. ROBINSON, Maryville, Mo.

**BIG TYPE BRED SOWS FOR SALE** Daughters of Long Wonder (a double bred A Wonder) and King Mastodon 2nd, bred for May and June farrow, to Orange Model 2nd, by Big Orange and out of a Pawnee Lad dam and to Expansive Wonder, by Expansive. These are extra good, strictly big type with quality and will please. Write or call. W. E. LONG, Meriden, Kansas

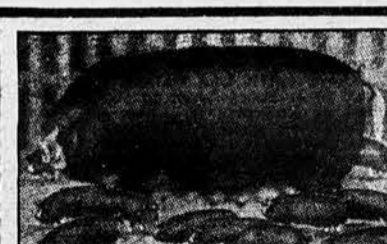
**BIG TYPE UNPAMPED BERKSHIRES** 200 sows bred to Fair Rival 10th, King's 4th Masterpiece, Truetype, King's Truetype, and the great show boar King's 10th Masterpiece. All long, large and heavy boned. Sows farrow all through April, May and June. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth. E. D. KING, Burlington, Kansas

**EX B. by EXPANSIVE** one of the greatest breeding boars of the day heads my herd of over 250 head. Two extra good boars by him, August farrow, for sale. Also choice line of fall gilts, open. Booking orders for spring pigs. Write or call. W. R. WEBB, BENDENA, KANSAS.

**Pleasant Valley Stock Farm!** Big Boned Poland Chinas H. C. LOOKABAUGH, Prop. We are now offering a few choice fall boars at choice prices. They are the kind that make good. Satisfaction guaranteed. Address L. W. CUTRIGHT, Mgr., Watonga, Okla.



**Advance 60548**  
The half ton grand champion with an 11 inch bone and  
**Kansas Big Bone 65379**  
head my Black Mammoth herd of Poland Chinas. Herd sows are daughters or grand-daughters of that grand old sow Black Mammoth 127627 and sired by such boars as Expansion Wonder, grand champion Mo. State Fair, 1910; Cowles's Tecumseh, one of the best hogs bred by John Blain; Expansive Chief, by Expansive, and other such sires. Am pricing my entire 1913 spring pig crop at prices that will move them quick. The best boar pigs by Advance at \$25. All other boars and all gilts at \$20 each or two for \$35. All pigs guaranteed satisfactory. Buy good pigs now and save big express bills.  
**PAUL E. HAWORTH, 1503 Mass. St. LAWRENCE, KANSAS**



**Here's Your Chance to Buy Bred Sows!**  
Sows like this that farrow big litters, because they are bred and developed that way—Poland China sows sired by and bred to the best big type boars—this sort of an opportunity is offered in the Henry Graner sale to be held at  
**Lancaster, Kan., Tues., May 27, '13**  
A selected offering of yearling gilts and a few tried sows bred for June litters; bred to farrow at a time when close to 100 per cent can be saved and selling at a time when a good brood sow is about the most valuable proposition for the farm. That is what this sale offers. These yearlings and sows are sired by Long King's Best, the fine breeding son of Long King; Guy's Monarch, one of the best sow sires ever in Kansas, and by Kansas Victor, a son of the champion, Big Victor. These are bred to King's Jumbo, the best pig sired by Long King's Best in the Graner herd last year, and to Sampson Ex. It is the opportunity of the year—don't miss it. 10 head of good fall boars. These gilts will weigh 200 pounds—and are immune. For further information, catalogues, etc., drop a card to  
**H. C. GRANER, Lancaster, Kan.**  
C. H. Walker, fieldman for this paper; Jas. W. Sparks, Auctioneer.

**DUROC-JERSEYS.**

**Duroc March Pigs \$9.00** and up, by Model Agala, Long Led and Tarrax Boy. R. W. Baldwin, Conway, Kan.

**A Fine Offering Fall Boars and Gilts**  
Booking orders for spring pigs. Best of breeding.  
R. C. WATSON, ALTOONA, KANSAS.

**DUROC - JERSEYS** 10 head of well-bred boars and gilts for sale.  
J. R. JACKSON, KANOPOLIS, KANSAS.

**White Rock Duroc-Jerseys**  
Tried sows and gilts for sale and some choice fall boars. Write  
N. B. PRICE, MANKATO, KANSAS.

**E. A. TRUMP, Formoso, Kan.**  
Breeder of fashionable Duroc-Jerseys  
Stock for sale at all times. Write for prices and descriptions.

**Big Type Durocs**  
Sold out of bred sows and gilts. Plenty of fall gilts open. Fall boars with all kinds of quality. Fall sale Oct. 17.  
MOSER & FITZWATER, Goff, Kansas

**BRED GILTS** I have an exceptionally fine lot of Duroc gilts bred to my prize winning boars for sale, bred right and fed right. Write for prices and description.  
CHAS. L. TAYLOR, OLEAN, MISSOURI

**Royal Scion Farm Durocs**  
Fashionably bred Durocs. Spring and Fall boars and gilts by the great Graduate Col. 23779 and Col. Soton 100771. Out of choice dams. G. C. NORMAN, Route 10, WINFIELD, KAN.

**Deep Creek Herd Durocs!**  
Orders taken now for early spring pigs, dams either state fair prize winners or sired by prize winners. Write for low prices.  
C. O. ANDERSON, MANHATTAN, KAN.

**Good E. Nuff Again King 35203**  
Heads our great herd. Sale average: March 11, sows, \$77.50, sows and gilts, \$53.00. Write for prices.  
W. W. OTEY & SONS, Winfield, Kansas

**Quivera Place Durocs**  
A few, choice summer boars and gilts, sired by Quivera 106611.  
E. G. MUNSELL, Herington, Kansas.

**Bancroft's Durocs!**  
We hold no public sales. Nothing but the best offered as breeding stock. 12 choice September boars. September gilts open or bred to order for fall litters. 90 March pigs. Pairs or trios not akin. Prices right. Customers in 8 states satisfied. Describe what you want, we have it.  
D. O. BANCROFT, OSBORNE, KANSAS.

**O. I. C. SWINE.**

**O.I.C. Pigs** Pair, \$25.00. Harry Haynes, Meriden, Kansas

**Maple Leaf Improved Chester Whites** All ages, the round. Priced to sell. R. W. GAGE, Garnett, Kan.

**RUSSELL'S O. I. C.'s** February and March pigs ready for shipment. The large prolific type. Satisfaction guaranteed. H. R. RUSSELL, Sedgwick, Kan.

**GOOKIN'S O. I. C. HOGS.** Booking orders for five different boars, out of sows not akin. Priced to sell.  
F. C. GOOKIN, RUSSELL, KANSAS.

**O. I. C's., Oxford Down Sheep, BARRED ROCKS**  
2 good boar pigs, large enough for service of the big boned, growthy kind. Also a few extra good gilts, bred to Commodore and out of Olimax, one of "The King of the Wind."  
W. W. WALTIRE & SONS, Peculiar, Missouri

**Grand View Stock Farm**  
Choice O. I. C. fall gilts, bred or open. White Wyandotte chickens. Eggs for sale now. Stock in season. Write for prices.  
ANDREW KOSAR, GLASCO, KANSAS.

**Neef's Cholera Immune O. I. C's.**  
Pure bred seeds and S. C. R. I. Reds. Hogs all ages for sale at reasonable prices. Booking orders for spring pigs—boars and gilts. Have choice lot Reid's Yellow Dent, Boone Co. White and Carter's seed corn at \$2.00 per bu. shelled and \$3.00 in ear. Reclaimed Texas Red Rust Proof seed oats and seed rye. Some fancy S. C. R. I. Red cockerels at \$1.00 and \$2.00 each. Eggs for setting \$1.00 per 15, \$4.00 per 100.  
Riverside Farms, J. H. NEEF, Boonville, Mo.

**BERKSHIRES.**

**LEON A. WAIT'S Berkshires**  
A good herd at Winfield, Kan., headed by Lord Duke 3d, 132922.

**Hazlewood's Berkshires!**  
Choice spring boars and gilts priced to sell. Write today.  
W. O. Hazlewood, R. 8, Wichita, Kansas

**New York Valley Berkshires**  
30 gilts bred for August and September farrow. Some show prospects in open gilts and boars ready for service. 75 pigs, either sex, ready for shipment in May and June. J. T. Bayer, Yates Center, Ks.

**Bred Berkshire Sows**

25 head of young tried sows, representing the best Robinhood strains and bred for May and June litters to Ajax, a son of Rival's Lord Premier and Longfellow's Duchess 4th. These are extra good and are priced to sell. They won't last long. Write at once.  
W. J. GRIST, Ozawkie, Kan.

**W. Iowa and N. Nebraska**

BY GEO. W. BERRY.

**Bayers' Berkshire Hogs.**

J. T. Bayer & Sons of Yates Center, Kan., are offering in this issue 30 Berkshire gilts bred for August and September farrow. Also some open gilts that are good prospects for the fall shows. They have 75 spring pigs that will be ready for shipment in May or June. There are no better bred Berkshires than those handled by Messrs. Bayer. This firm is thoroughly reliable and any representation that they make will be guaranteed.

**Black Mammoth Poland Chinas.**

Paul E. Haworth of Lawrence, Kan., is starting an ad in this issue of Farmers Mail and Breeze in which he is offering spring pigs from his Black Mammoth herd of Poland Chinas, at prices that should move them very rapidly. Mr. Haworth has one of the best bred herds in Kansas. Last year he sold all of his pigs on mail order and his customers were universally pleased with their purchases. At the head of the herd stands Advance 60548. A grandson of Old Expansion out of Colossus Queen, by Colossus. This boar weighed 570 pounds before he was a year old and has developed into a half-ton sire, with a strong, flinty bone that measures 11 inches. He is assisted by Kansas Big Bone, a grandson of A Wonder, out of Queen Model, by Model Nelson. The dams of the pigs offered by Mr. Haworth are either daughters or granddaughters of Black Mammoth 127627 and are sired by such boars as Expansion Wonder, Cowles Tecumseh, Expansive Chief and other such noted boars. He guarantees every representation and guarantees his pigs to give satisfaction. In buying pigs of this age you not only save on cost of the pig but also in express rates. Write Mr. Haworth, mentioning Farmers Mail and Breeze.

**S. E. Kansas and S. Missouri**

BY ED. R. DORSEY.

**Improved Chester White Hogs.**

We wish to call the reader's attention to the card ad of one of the leading I. C. W. herds of hogs in Kansas, that of R. W. Gage of Garnett. Mr. Gage is an active member of the association, keeps up with the times, never lacks in energy and is prompt in his correspondence as well as in sending out his pedigrees at the time of the sales. He is in good standing with his fellow breeders and his way of handling his business is a bread winner and is making money not only for himself but his customers also. He has now nearly 100 pigs that will soon be ready to ship and now is the time to place an order securing a selection from the tops.

**D. & S. Poland China Boars.**

To any of our readers wanting strictly first class Poland China boars we cheerfully recommend the firm of Dietrich & Spaulding of Richmond, Kan. These men have been in the business of breeding Poland Chinas for more than a quarter of a century and during all this time they have been at the top of the business. They have used the best blood for both foundation brood sows and herd boars that has been available. Their herd boars have been prize winners in the leading state shows and have produced prize winners for the same shows. At present their boar offering consists of seven August, September and October farrow. The price on these is \$25 each. They are sired by Gold Mine and Pan Look. In addition to the boars they are offering gilts open or they will breed them to Best Price or Gold Mine. They also have a few good tried sows bred for July and August farrow. On any of the females they will make attractive prices. Write your wants and mention Farmers Mail and Breeze.

**A Week Among the Breeders.**

We first called on J. H. Baker of Butler, Mo., and found him well up with all of his spring work, with fine growing crops; also with a good jack and stallion business. His pens are full of high class Poland China pigs that will be put in proper shape for his October 23 sale. While in Butler we met Col. Clyde Robbins. He is still busy, selling nearly every day but he has stood the long sale campaign remarkably well and is feeling fine. The next day we attended the combination Hereford cattle sale at Kansas City, under the management of R. T. Thornton, with a number of excellent cattle contributed by Guggell & Simpson, of Independence, Mo.; E. E. Wall & Son, Leeton, Mo.; Samuel Drybread, of Elk City, Kan.; Kansas State Agricultural college; R. J. Fields & Son, Lees Summit, Mo.; Jno. Schmidt, Tipton, Kan., and others of prominence. The sale was conducted by Col. Fred Ruppert, Geo. Drybread and Col. Frank J. Zaun. We went from there to Evergreen Stock Farm, owned by E. E. Carver & Son of Guilford, Mo., and carefully looked over their fine herd of Shorthorn cattle and Poland China hogs. We went from there down to see Mr. Hugh Whitford of Guilford, Mo., one of the Missouri Ruralist's good advertisers of white-faced cattle, and we will say his herd only numbers about 60 head but every one is of the very best, none better anywhere. We stopped at Iola where we called on J. R. Cline, who has 60 nice spring pigs. He has been buying the very best Poland Chinas he could find for some time and today he has one of the good herds of the country. From there we came to Fort Scott to see Jno. Ramsey. He is very busy getting in his crops and caring for 60 spring pigs. He is breeding Duroc-Jerseys and has a real nice lot of the larger type. Mr. Ramsey is a careful buyer and a good breeder. We will have more to say of his herd later.

**Editorial News Notes.**

A very interesting paper was recently read before the American Chemical Society, at their annual meeting held recently at Milwaukee, Wis., by Mr. D. M. Buck, chief chemist of the American Sheet & Tin Plate Company of Pittsburgh, Pa. Mr. Buck gave full details of some instructive experiments, extending over a number of years, that were made with metal roofing sheets from ordinary steel, and also sheets

**Lookabaugh's Shorthorns**  
**Sold on Time at Private Treaty**

Six or nine months if desired. What we want is your trial order. Young Heifers and Bulls at \$50, \$75, \$100 and up. Two Heifers and a Bull, not related, \$200 for the three—Others higher.



**Over 200 Head From Which to Select**

A great variety of prize winners and prize winning blood. 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, Blaine Co., Okla.

**Registered GALLOWAY CATTLE**

We Breed Market Toppers." JAS. & W. R. CLELLAND, New Hampton, Mo.

**14 Head of Kentucky Mammoth Jacks**

from 3 to 6 years old, from 15 1/4 to 16 hands high with 9 and 10-inch bone; priced to sell quick. Write today for prices and description. Five Percheron stallions left for sale cheap. Farm and sale barn on 21st Street, one mile east of Wichita Union Stock Yards.



J. C. KERR, WICHITA, KAN.

**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.

**HAMPSHIRE.**

WRITE J. F. PRICE, Medora, Kans. For prices on Pedigreed Hampshire Hogs

**REGISTERED HAMPSHIRE**

Well Bred Well Banded SUNNY SLOPE FARM, Frank H. Farks, Prop., Olathe, Kan.

**Pedigreed Hampshires** of various ages. Boars every hog properly vaccinated. C. E. Lowry, Oxford, Kan.

Write Dr. E. G. L. HARBOUR, Baldwin, Ks. for prices on pedigreed Hampshire Poland Chinas and Duroc-Jersey Hogs, all cholera immune.

**PURE BRED HAMPSHIRE**

Breeding stock all sold. Booking orders for spring pigs.  
ALVIN LONG, Lyons, Kansas

**CLOVERDALE HAMPSHIRE!**

A few gilts open or bred to order for fall litters. Booking orders for spring pigs in pairs or trios not akin sired by my four great boars.  
T. W. LAVELOCK, PRINCETON, KANSAS.

**MULE FOOT HOGS.**

**Mule-Footed Hogs** The coming hogs of America; hardy; resist disease; the best rustlers known; pigs ten to sixteen weeks old, \$30 pair. Circular free.  
DE. W. J. CONNER, LABETTE KANSAS.

**Mule Foot Hogs** Bred gilts for spring farrow all old. Some choice boars for sale. Am now booking orders for pigs of February and March farrow, in pairs not related.  
ZENE G. HADLEY, Box D, Wilmington, Ohio

**PUREBRED HORSES.**

**The Best Imported Horses** One thousand each, Home-bred regis. tered draft stallions—\$250 to \$650 at my stable doors.  
A. LATIMER WILSON, CRESTON, IOWA.

**PUREBRED HORSES.**

**Truman's Pioneer Stud Farm**  
America's Largest Importers

Shire, Percheron and Belgian Horses  
Write for Illustrated Catalogue.  
TRUMAN'S, Box E, BUSHNELL, ILLINOIS

**Percheron Stallions**

Black, 6 years old, weight 1800 pounds. Black, 3 years old, 1700 pounds. Dapple gray, 4 years old, 2,000 pounds. Roan, 2 yrs. old, 1400 pounds. Sound, well broke, tried breeders, with plenty of colts to show. Gilt-edge guarantee. No better horses in any importer or breeder's barn in the state, and I am offering them at sacrifice prices.  
RED POLLED CATTLE and DUROC JERSEY BOARS  
GEO. W. SCHWAB, Clay Center, Nebraska

**ABERDEEN-ANGUS.**

**DENTON'S Angus** Bulls all sold but a fine lot coming on for fall trade. Write your wants.  
W. G. DENTON, DENTON, KANSAS

**ANGUS CATTLE**

Bulls and females for sale; singly or in carload lots. Address SUTTON & PORTEOUS Lawrence, Kan.

**HOLSTEINS.**

**Registered Holstein Bulls!**  
Only 5 ready for service, and seven 8 to 12 months old left. Sired by King of the Butter Kings, \$10,000 Milk and Butter King, and King Segis Hengerveld, nearly all out of A. R. O. dams. Prices \$85 to \$125. No females.

**ROCK BROOK FARM**  
Station B. Omaha, Nebraska.

HEREFORDS.

**KLAUS BROS.' HEREFORDS**

A few choice young bulls and heifers for sale, sired by Fulfiller 3rd, Fulfiller 25th and Beau Onward. Our calf crop is the best we ever had.

**KLAUS BROTHERS, BENDENA, KANSAS.**

**STAR BREEDING FARM**  
HEREFORDS AND DUROCS.

We are offering (40) two year old bulls, (25) bulls from twelve to fifteen months old. They are right, bred right. Sold singly or in carload lots.

**SAM'L DRYBREAD, ELK CITY, KANSAS.**

DAIRY CATTLE.

**FOR SALE** 35 choice young Holstein dairy cows, fresh and springing. Special price on herd. **Jack Hammel, 215 Adams St., Topeka, Kan.**

**Holstein-Friesian Bulls**  
Prices right. **H. N. HOLDEMAN, Meade, Kan.**

**HOLSTEINS FOR SALE** 50 head registered heifers and large bulls. 33 head milking and coming fresh grade heifers and cows. **M. P. KNUDSEN, Concordia, Kansas**

**HOLSTEINS** —CHOICE BULL CALVES  
**H. B. COWLES, TOPEKA, KANSAS.**

**OAK HILL HOLSTEINS**

Bulls ready for spring service by Shadybrook Gerbea Sir Korndyke out of A. R. O. dams. Heifers bred. Also a few fresh cows. All tuberculin tested.

**BEN SCHEIDER, NORTONVILLE, KAN.**

**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.**

**Register of Merit Bull—Jersey**

Year old. Solid fawn. Son of Flora's Golden Fern, 4 in B. of 4. Dam Su tan's Beauty, 5.2 lbs., 1 year, when 23 months old. \$150.00. Bargain cannot be equalled.

**R. J. LINSOTT, Holton, Kansas**

**HOLSTEINS**

FOR SALE: Thirty head extra selected high-grade Holstein cows and heifers. Two registered bulls, "yearlings".

**ARNOLD & BRADY, MANHATTAN, KAN.**

**BONNIE BRAE**

**Holsteins For Sale**

75 head high grade Holsteins, consisting of coming 2-year-olds and about 50 head of heavy springers, from 2 1/2 to 5 years old. All first class dairy cattle. Also registered bulls.

**IRA ROMIG, Sta. B, TOPEKA, 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.**

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.**

RED POLLED CATTLE.

**Red Polled Cattle**

Cows and heifers for sale. No bulls over six months.

Poland China big type registered fall boars. Write **CHAS. MORRISON & SON, Phillipsburg, Ks.**

**Foster's Red Polls**

Write for prices on breeding stock.

**C. E. FOSTER, R. R. 4, Eldorado, Kansas.**

SHORTHORNS.

**SHORTHORN CATTLE**

POLAND CHINA SWINE and CLEVELAND BAY HORSES. All stock pedigreed. Prices reasonable. **Thos. B. Murphy & Sons, Corbin, Kas.**

**Glenwood Farms Announce**

Shorthorn Sale, bulls and cows, June 6, 1913. Can spare no more bred cows. Have a few choice heifers left. Plenty of Shorthorns, always. We build the most complete concrete silo yet offered the public. Have several on our place. They are a success. Write for particulars. Address:

**C. S. NEVIUS, CHILES, KAN.**

**Pearl Herd of**

**Shorthorns**

Young bulls up to 13 months of age, either Scotch or Scotch-Topped breeding. Well grown and in good growing condition. Can ship via C. R. I & P., A. T. & S. F., U. P., and Mo. Pac. Address:

**C. W. TAYLOR**  
**ABILENE : : KANSAS**

to which copper had been added. The exhaustive treatment was conducted with extreme care in a practical manner, leaving nothing to chance or conjecture, so that the results obtained are authentic and dependable. The object was to establish the relative value of small amounts of copper in metal roofing when exposed to natural corrosion under varied atmospheric conditions. Actual service tests were made in the Pennsylvania coke regions, where the air is impregnated with sulphuric acid and other corrosive fumes. Excellent results were obtained, which showed conclusively that in every instance the roofing which contains copper lasts much longer and gives far better service than sheets without copper. The difference in the atmosphere at the various testing stations produced interesting data of much value in deciding the correct amount of copper to be used. After long research and much experimenting the American Sheet & Tin Plate Company has adopted copper bearing steel exclusively for roofing tin. This represents a very important step forward in the tin roofing business. Copper bearing steel can also be furnished in both black and galvanized sheets. Mr. Buck's instructive address, liberally illustrated with photographs of the tests, and with valuable tables, has been published in book form. The information given on this new departure in the making of metal roofing and siding will be of much value to builders and others who are interested in securing more durable roofing tin and sheets for roofing and siding purposes. A copy of the book can be secured by addressing the American Sheet & Tin Plate Company, Frick building, Pittsburgh, Pa.

On page 16 of this issue appears the advertisement of August Post, Moulton, Iowa, who is again advertising his Anti-Trust binder twine with us. Mr. Post has been selling direct to the farmer for 25 years and is himself a practical farmer. Be sure to read his ad and write for his prices and samples of twine. He makes a specialty of car lot orders, but also appreciates orders from the small buyer.

**Making Life Easier on the Farm.**

"If it weren't for the chores, I'd never have left the farm," said a city-dweller, in telling why he had waved farewell to the old homestead and entered the field of commerce in the city. "I liked farm work, I didn't mind plowing, cultivating, or the big things about farm work as a young man, but the everlasting little jobs, such as working the grindstone, turning the fanning mill, pumping water when the wind failed to blow, sawing wood, running the cream separator, the feed grinder, etc., finally 'got my goat' as the boys say, and one day I slid out. But I'm getting ready to join the back-to-the-land movement as soon as I can put by a few more hundred dollars. And I want to tell you, my farm is going to be run by gas power and not by man-power, just as much as conditions will allow. My boys are not going to be dissatisfied with farm life as I was. My wife is not going to wear herself to death working a heavy churn or washing machine. When 15 to 25 cents a week will cover the labor cost, why should I make a machine out of myself? I don't have to be an expert to run a gas engine. The principle is simple. So simple, in fact, that my wife grasped the essentials in 15 minutes when we looked one over the other day. Just open the throttle, close the switch, give the fly wheel a few turns and away goes the engine. It is then ready to do your work. If a farmer had as much regard for himself as he has for his pedigreed stock, he wouldn't let another day go by without availing himself of the tremendous labor-saving help of a gas engine on the farm. The Fuller & Johnson Company, 5 Manning Street, Madison, Wis., have recently issued a new catalog describing their famous farm pump engine. If you wish to save yourself a lot of useless drudgery write for copy today which fully explains their make of engines.

**Buy Witte Engines Now at Wholesale.**

Every farmer can now buy the famous Witte gas, gasoline and kerosene engines at wholesale prices. For twenty-six years these engines were sold through dealers. Some time ago, however, the manufacturers changed their method of selling, and now sell direct to engine users for the same prices the dealers used to pay. Through the inventions of that master engine builder, Ed H. Witte, thousands of power users, in all parts of the United States and in foreign countries, have profited to the extent of hundreds of thousands of dollars per year in money saved on fuel, and repairs. And all the while they have steady continuous power—no shut downs, no delays, no troubles in starting or stopping. Witte engines are conceded to use the least fuel for a given amount of horsepower. They meet the demands of careful buyers, who insist on engines of long wearing qualities; with all wearing parts always easily and inexpensively renewable; qualities possible only with the best of materials, workmanship and designs. Not only are five-year guarantees demanded, but also engines like the Witte, that will more than make good under them. In hundreds of elevators, as on thousands of farms, Witte engines have been proving their superior worth, over and over again, year after year. A striking feature of the Witte construction is that all wearing parts are made in small units, so any needed repair is available by fast mail or express train. Besides that, it makes the repair cost a very small item. It is not uncommon to find Witte engines that have been in continuous service for 20 years, that have not had \$5 worth of repairs in that whole time. Everyone who has, or will have need for power—reliable and cheap power, should thoroughly investigate the long famous Witte before arranging to buy any kind of an engine. A new book, "Witte Power," is just coming out. It contains vital engine information not before published. A copy can be had by merely writing to ask for it, to the Witte Iron Works Co., 1541 Oakland Ave., Kansas City, Mo.

Please send the Mail and Breeze another year as it has become indispensable in our household. We enjoy the comments by T. A. McNeal and Truthful James cannot be surpassed, to say nothing of the useful advice and methods contained in the paper.—Mrs. R. P. Wickerson, Fredonia, Kan.

**STANTON'S GREATEST**  
**Scotch Shorthorn**  
At Sittyton Grove Farm **MONDAY**  
Wheaton, Ill. **Sale** **June 2, 1913**

**50 HEAD** 44 Females with 15 Calves—6 Choice Bulls  
The closing out of the GEO. J. SAYER herd of superb breeding and prize-winning cattle

I have purchased the entire herd. Will keep a few, give my friends a chance at the rest. Am putting in as good as I am keeping, including all the SHOW HERD and many other prize winners.



**THE HERD BULLS,** Prince Imperial, White Star, Roan Sultan and Masterpiece are included. Four better and more noted bulls were never offered in one sale before. Three Junior bull calves by Prince Imperial are listed.

**AMONG THE COWS** are Imp. Fair Start, with roan bull calf by Roan Sultan; Queen Mildred, bred to Roan Sultan; the junior champion 78th Duchess of Gloster; Sittyton Anna; Sittyton Lady 2d, a full sister to Sittyton Lady that sold for \$1025.

The entire offering consists of foundation stock of the very best with which to establish the best of herds. Not an old cow in the sale. If you want the best, turn out to this sale. Write me for catalog at once.

**THOS. STANTON, Wheaton, Ill.**  
Take Interurban to Glen Ellen, near farm from Elgin, Wheaton or Chicago.  
**AUCTIONEERS: Jones, Reppert and others.**  
Harry Graham will represent this paper.

**Holstein Cattle and Percheron Horse Sale**  
at  
**Hutchinson Kansas**  
**Wednesday**  
**May 28th**



Twenty-three registered Holstein-Friesian Cattle. Eight head now in milk, several head showing in calf, and a number of good young bulls. This offering will contain a number of my Kansas and Oklahoma State Fair prize winners. They are richly bred and good individuals, all tuberculin tested.

**Percheron Stallions and Mares**

Five Percherons, three stallions and two mares, all registered in the Percheron Society of America and all of breeding age and ready to begin making money for the buyer. For the better accommodation of our patrons this sale will be held at the State Fair grounds, Hutchinson, Kan. Write for Catalog today. Please mention in which breed you are interested.  
Address  
**H. N. HOLDEMAN, Meade, Kan.**  
Auctioneer, John D. Snyder; Fieldman, A. B. Hunter.

**Pure Bred Holsteins**  
**Prices Reduced—To Move Quick**  
**The Ganzdale Herd. Tuberculin Tested "Quality Above Quantity"**  
We offer you young bulls or bulls old enough for service from big producing dams, that combine the blood of several world champions at prices extraordinarily low to move the surplus quickly. We welcome all enquiries and answer the day received. Don't put off buying your bull until you need him. Remember, purebred Holstein cattle, nothing else.  
**CASPAR A. GANTZ, Prop., King City, Mo.**

# Friends for Forty Years

Just forty years ago Ward's first catalogue came, a stranger, into a few thousand homes.

Back of this first tiny, homely book there was a sincerity of purpose—an honesty of statement, a bigness of value and a *pledge of honor* that made for it many friends—friends that are still its friends after forty years.

The first book of 32 pages is now a thousand-page volume.

But the honest value, the high quality, the truthful statements are still there.

And the pledge of honor "Absolute satisfaction or your money back"—the first guarantee ever given by merchant to buyer is still in force.

If you have not seen this store in book form, you should send for the 1913 edition today.

Millions have it.

Millions buy from it. And these millions of customers, these millions of friends save millions of dollars each year on their purchases.

No matter what it is you want, whether it be something to eat or wear, something for the home or farm, you can get it at a big price saving through this thousand-page book.

Ask for your copy today. Address Dept. W16.

**MONTGOMERY WARD & COMPANY**

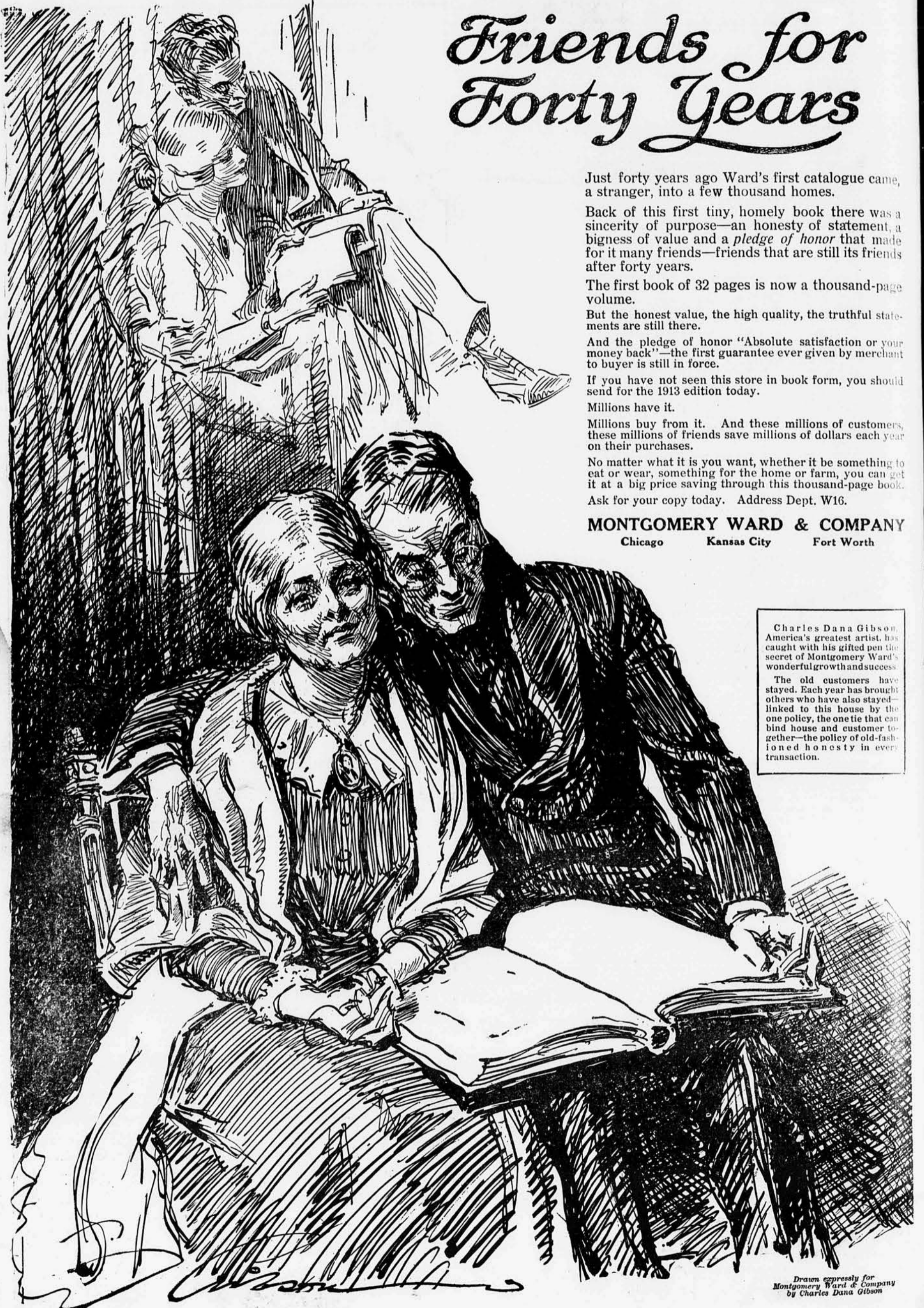
Chicago

Kansas City

Fort Worth

Charles Dana Gibson, America's greatest artist, has caught with his gifted pen the secret of Montgomery Ward's wonderful growth and success.

The old customers have stayed. Each year has brought others who have also stayed—linked to this house by the one policy, the one tie that can bind house and customer together—the policy of old-fashioned honesty in every transaction.



Drawn expressly for  
Montgomery Ward & Company  
by Charles Dana Gibson