

THE FARMERS MAIL AND BREEZE

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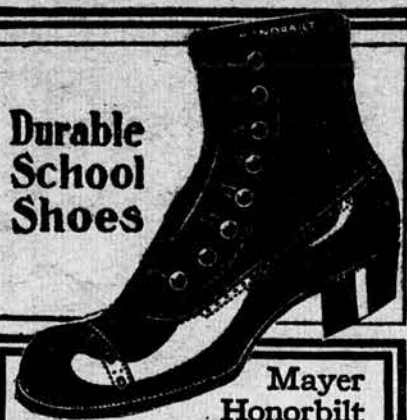
Number 7



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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 Palmer's Crop Statistics.

Mr. Editor—I was really pleased with your able editorial comment in the issue of Mail and Breeze of April 12 on Doolittle's bill regarding government issue of bonds to lend money to farmers. I would ask my brother farmers to give those comments a second reading and afterwards a whole lot of hard thinking.

To the article by Truman G. Palmer on Kansas' interest in the sugar beet industry, published in the same issue, I beg leave to express a few differences. Mr. Palmer to fortify his arguments by facts gives the crop statistics of 1869 and on those figures bases his assertion, that our yields of crops per acre are steadily growing less. Any sensible man ought to know that the smaller average of our crops results largely from including since that time, millions of acres of farming land in portions of the state where crop failures are more frequent than good crops on account of lack of rain.

I admit his argument about the benefits of deep plowing, hoeing and fertilizers, most farmers know that; we do not need to raise sugar beets to derive those benefits. They do lots of hoeing in European countries, even where no sugar beets are raised. I counted last year 30 women in one field hoeing drilled wheat in Germany. They say it pays. It would undoubtedly often pay in Kansas to hoe wheat and corn, but we can't hire women for 30 cents per day (and board themselves) for such work, as they can in Germany, and most of us farmers don't want to bring about conditions that would compel women to work in the fields for that wage.

It is true European governments have done and are doing much to assist and encourage the farmers. In that respect our own government might follow their example, but I think the day is passed when the farmers believe that they derive a benefit from protection that compels them to pay nearly double price for the sugar they use in their families.

I confess ignorance regarding the sugar beet industry in Kansas, but I know one thing, if protection could boost it there would have been plenty of time for it. Protection is not a new theory and especially in Kansas, where besides having the benefit of tariff we had for many years a special state bounty of I think 1½ cents a pound on home-made sugar. A few years ago before a government commission Clause Sprekles, who is a sugar grower and refiner and knows what he is talking about, testified that refined beet or cane sugar could be produced at a fair profit for 3 cents per pound.

I do not wish to be understood as objecting to scientific farming. I highly appreciate the work done by our own agricultural college and by the department in Washington, but I object to any scientific crop expert advising farmers to vote for a high protective tariff on sugar or anything else.

Lasita, Kan. M. Senn.

Too Many Studies for Children.

Mr. Editor—In the article on the weakness of the foundation work of our educational system, in the Mail and Breeze of April 4 I think Mr. Capper stated the facts plainly, correctly and forcibly. They load small children down with too many studies and rush them through the common grades too fast. They seem to be striving to separate the practical from the scientific and cut the practical out entirely. We need more practical education, the foundation of which should be laid with care and the use of plenty of time to do the work well. This foundation must be laid in the common schools.

The average man doesn't object to being taxed within the bounds of reason for the support of the free school sys-

tem if he sees he is getting value received.

I am glad you delivered that piece of goods through the Mail and Breeze for three reasons:

First—It is true.

Second—Many will get to read it.

Third—If a farmer had written such facts he would have been called a crank or pessimist that didn't know what he was talking about. R. S. Hartman. Route 1, Fowler, Kan.

School Districts Should Hear It.

Mr. Editor—I have read carefully Mr. Capper's masterful address before the Trades Industrial Council at Topeka on the educational question. Every sentence is a solar-plexus punch at our weak and still weakening school system. The writer has been interested in educational matters for more than 40 years, has reared a large family and assisted them through the grades. Excepting my little daughter of 11 years, I have found it necessary to supplement personally the work at school in order to get any satisfactory results.

Too much time and money is spent on impractical non-essentials. There is too much of a smattering and scattering of effort. Results: Inefficiency, wasted time, wasted money.

It would be a grand thing if Mr. Capper could deliver that same address in every school district in the land. It is a matter for regret that our leading educators have not awakened to the seriousness of the situation long ago.

Route 2, Kingman, Kan. J. M. Parks.

Progressive Can't Be Anything Else.

Mr. Editor—I am an Abraham Lincoln Republican and had four brothers in the war that freed the slaves, and I am a Progressive and worked for Arthur Capper. He stands for the common people, the ones who bear the burden of government. The Progressive party advocates the principles of the lowly Nazarene. When He sent out His disciples He charged them, in Matthew 10, verse 5-12; Luke 9, verse 1-6, and Luke 10, verse 1-6, that the gospel was to be preached as free as the water that runs. There is reason for Progressives in religion as well as in politics. The common people will not be fooled all the time. I believe in true Christianity, purer politics and free Christianity. When the Progressive party leaders go over to any of the old parties they sell their birthright and are traitors to the principles they advocate. We have had too much graft and dishonesty.

Melvern, Kan. G. W. Gray.

The Sentiments of 7 Out of 10.

Mr. Editor—I have just finished reading Mr. Capper's address before the Topeka Industrial Council and want to send him thanks for the common sense uttered in that talk. I think his the most sensible speech I have read for 20 years. I believe I utter the sentiments of 7 out of every 10 of the people of Kansas. Hurrah for Capper on common schools!

Fredonia, Kan.

Harmony Doesn't Appeal to Him.

Mr. Editor—I have been a reader of the Mail and Breeze ever since its existence, and I feel I could not get along without it. I notice some of the big men are talking "get together," but that they want the get-together to come their way. Last November rather than see a Progressive elected some of these same men boasted they voted the Democrat ticket, or anything to beat Capper and Stubbs. So if they want to get together, let them get together with the crowd they helped into office.

Winfield, Kan. F. R. Smith.

School Article Fine and Timely.

Mr. Editor—Mr. Capper's article on common schools is fine and timely. Our common school system at present isn't much more than a farce. Keep up the agitation. I am inclined to believe that we have a good president, and I hope you will always give him credit for what good he does and tries to do.

Cedar Point, Kan. F. Scharenberg.

Would Like Fewer School Fads.

Mr. Editor—Mr. Capper's ideas on the running of our great state are just along the line I would like to see them run. Mrs. Kaul and I want to congratulate him for his plea for more of the practical in Kansas schools.

Route 2, Holton, Kan. J. M. Kaul.

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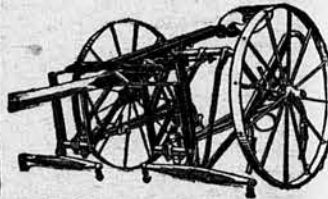
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THE FARMERS MAIL AND BREEZE

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PLOWING IS THE BEST WAY TO ESCAPE DAMAGE BY CUTWORMS

TO RID a field, or piece of ground of cutworms, the most effective treatment is to plow it in the late fall. This breaks up or throws out the underground cell in which the cutworm spends the winter and exposes the



George A. Dean.

hibernating worms to the winter weather.

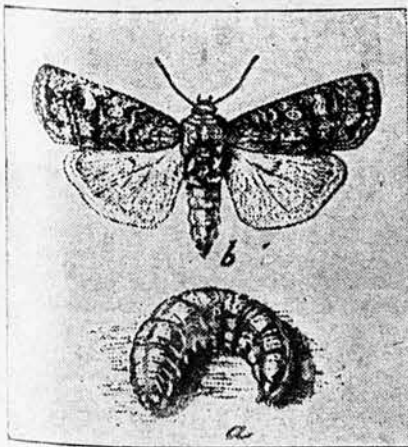
Plowing and thoroughly harrowing early in the spring are also recommended as this will keep the land fallow and thus starve them out.

It is a better

practice where land is to be planted in corn, or other crops subject to cutworm injury, to plow it as early as possible in the late summer of the preceding year and keep it fallow so that the moths of the cutworm will not deposit their eggs in it. If the land is left in grass, or weeds, the moths will lay their eggs there on the stems or leaves.

Dr. S. A. Forbes, state entomologist of Illinois, recommends the following methods of control where cutworms are injuring staple crops:

"Injury to corn by cutworms is best prevented by midsummer or early fall plowing, of grasslands to be planted to corn; by pasturing pigs on grass or clover lands to be plowed up for corn; by distributing, by the aid of a seed-drill, a line of dry bran or middlings, poisoned by mixing in paris green at the rate of 1 pound of the poison to 30 pounds of the bran, or food stuff, or by scattering poisoned food in spring along the borders of cornfields next to grass; and by replanting when corn is killed by them, postponing this step, however, until the cutworm injury has practically ceased for the season. The earlier the preceding year grasslands to be plant-



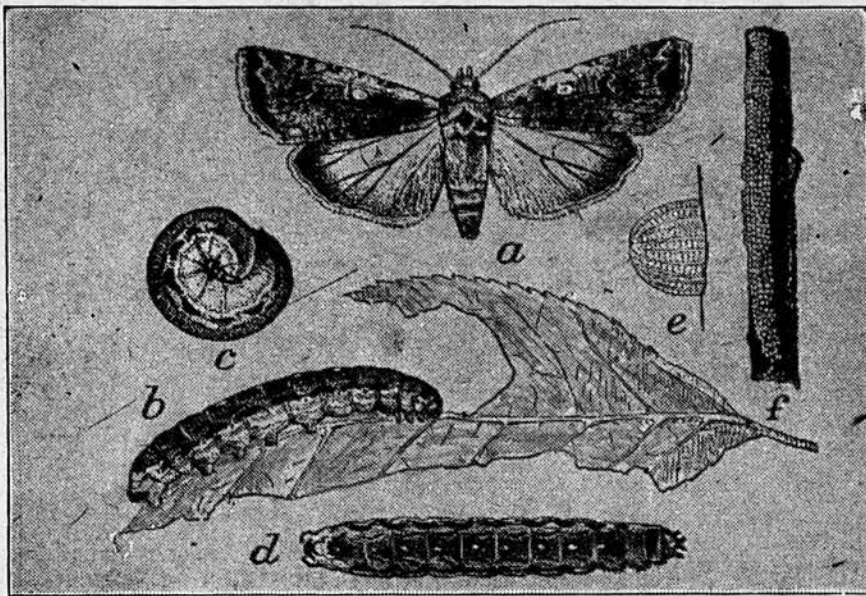
Moth and larva of the dark-sided cutworm (*agrotis messoria*); "a," larva; b, adult, natural size. (After Riley.)

Poisoned Mashies Offer Temporary Protection Where Worms Are Entering Fields or Gardens From Grassland Adjoining

BY GEORGE A. DEAN

Department of Entomology Kansas Agricultural College

Written For Farmers Mail and Breeze



The variegated cutworm (*peridromia saucia*); "a," adult moth; b, c, d, full-grown larvae; e, f, eggs, all natural size except e, which is greatly enlarged. (After Howard, U. S. Dept. Agri.)

ed to corn are plowed, the less will be the probability that the cutworm moths will have laid their eggs thereon, and the less will be the danger of injury by cutworms the following year."

Cutworms entering the cornfield from pastures or meadows adjoining, may be effectively and cheaply poisoned by placing along the edges of the field fresh clover or other succulent vegetation which has been cut after spraying thoroughly with paris green stirred up in water at the rate of 1 pound to 50 gallons.

Market gardeners frequently protect cabbage, tomato, and similar plants by placing a teaspoonful of poisoned bran mash near each plant. If the plants are growing closely in a row, the poisoned bait may be placed every 2 or 3 feet in the row. The bait should be distributed in the evening so that it will be moist when the worms come out to feed at night. To make the poisoned bran mash, mix at the rate of 1 pound of paris green, or white arsenic, to 25 pounds of bran or middlings. Stir a quart of cheap molasses in a gallon of water, and moisten the bran, stirring thoroughly, until it makes a stiff mash. Do not add so much water that the mash will be thin and thus cause it to cake when exposed. In case the cutworms are coming in from the adjoining

fields, it is often necessary to make a second application of the bran mash. However, a second application should not be made unless further injury is observed.

Poultry must be kept away from truck patches treated with the poisoned bran mash. As the birds that come to the garden for worms and various insects will also eat the bran mash when it is placed out in teaspoonful lots, one should go out early in the morning and cover the poisoned bait with soil. In case there should be too much danger of poisoning poultry and birds, fresh green clover or alfalfa, dipped in paris green water may be substituted for the bran mash. To make the paris green water, stir 1 pound of Paris green in 50 gallons of water (smaller amounts in proportion) and keep it thoroughly stirred while dipping the plants. In the evening place a little bunch of the poisoned vegetation at the base of each plant.

The caterpillars commonly known as cutworms are the larvae of several species of moths which are similar in general appearance and habits.

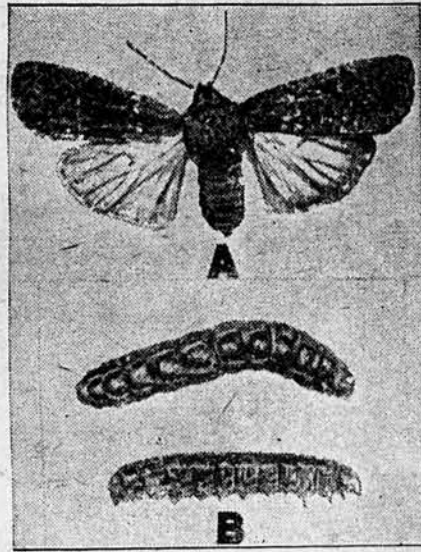
In the spring the cutworms destroy young plants by gnawing into the stems and cutting off the plants just at the surface of the ground. They work at night and on the approach of day hide under clods or bury them-

selves just beneath the surface of the soil. They are fleshy, plump, soft-bodied, smooth, naked caterpillars, varying in color from a dull-gray to a dark-brown. In many cases they are marked with longitudinal stripes, blotches, and oblique dashes. When found in the soil or thrown out, they are curled up in a closed spiral.

Some species of cutworms are more likely to attack certain crops than others. Most of them are found feeding on anything green and succulent, such as young corn plants, clover, alfalfa, all garden plants, and many species of flowers. In wheat and alfalfa fields they sometimes are very abundant, and migrate to other fields like the army worm.

The species of cutworm known as the climbing cutworm, climb young fruit trees, which have been planted in grassy lands, or which are allowed to grow in grass and weeds.

Most species of cutworms pass the winter about two-thirds grown, hibernating in the ground. The next spring they are hungry and in satisfying their appetites are very destructive of young plants. They become full grown during late spring and early summer, and pupate in the ground a few inches below the surface. In from three to four weeks the adult moths appear, usually in July and early August. The moths have dark forewings, variously marked with lighter or darker spots and narrow bands, and lighter colored hind wings. The wing expanse is about 1 3/4 inches. When at rest the wings are folded over the back. The females lay their eggs in grasslands or in any place which has been allowed to grow up to grass and weeds. The eggs are laid in patches on the stems or leaves of grasses and weeds and on trash in such places. In the central and northern states there is usually but one generation in a year.



Moth and larvae of the well-marked cutworm (*noctua clandestina*); a, adult; b, larvae, natural size. (After O'Kane.)

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**PASSING
COMMENT**
by
T. A. McNeal

WHY NOT TAKE THE ROAD TO PEACE?

The other day a captain in the United States navy, who is supposed to be an expert on battleships, gave it as his opinion that the proper thing for the United States to do is to throw its battleships into the junk heap and build 48 new battleships of the Dreadnaught type to take their places. That would mean an expenditure of not less than 480 million dollars. He says that we have not a single battleship that is prepared for war, although we are spending about 140 million dollars per annum on our navy.

The captain may be right. The average citizen knows nothing about battleships, except the fact that this government has spent a vast amount of money in building and maintaining a navy and it rather jars him to be told now after the billions that have been spent in that way, that not a ship in the bunch is really prepared for war.

According to this expert we are neither prepared for peace nor war. Certainly we have no need for an extensive navy in time of peace and if our navy is not ready for war then most of the money that has been spent on it has been money wasted.

His idea is that we should build up a navy that is as big and strong as any other navy. Well, no congress is going to do that and the sensible thing would appear to be to take the other horn of the dilemma and prepare for peace. The folly of the great nations exhausting their resources in building warships and equipping standing armies is so apparent that any one ought to see it. It is worse than mere folly; it is wicked waste of money and labor.

If this nation would only take the position that no matter what other nations may do we propose to show the world that we are in fact as well as in name a Christian nation; that we believe in peace and propose to practice it; that we will no longer waste our money in building vast warships that are ready for the scrap heap according to the experts almost as soon as they are built, my belief is that other nations might be persuaded to follow our example.

MONEY WASTED. The last legislature appropriated \$50,000 to be expended on a Kansas exhibit at the California shows that are to be pulled off in 1915.

My judgment is that it is just that much of the people's money wasted. It will no doubt furnish a nice outing for the individuals who may be selected as commissioners, to arrange and look after the exhibit. They will have a pleasant time at the expense of the state, but so far as Kansas generally is concerned the money might nearly as well have been thrown into the river.

Kansas has spent money on three different expositions. In 1876 \$30,000 was appropriated to make a

Kansas exhibit at Philadelphia. That was a good investment. It was made at a time when Kansas was just getting over the grasshopper plague and needed to be set right with the outside world. The exhibit was the most unique and attractive made by any state in the Union at that exposition. That it was the means of attracting hundreds of thousands of people to this state, there is hardly any doubt. It happened to be just the psychological period.

Kansas also expended considerable money on the World's Fair at Chicago in 1893, which perhaps was of some benefit to the state, though it is doubtful. In 1903 the state spent \$150,000 on the St. Louis exposition which further than gratifying state pride did the state no particular good.

But there were a number of arguments in favor of spending money on any one of these expositions where there is none for spending money on the California show.

FAVORS A GRAD- UATED LAND TAX.

George Schenck, writing from LeRoy, Kan., says: "I have for 40 years believed in the plan you advocate of taxing the small farms lightly and the large ones heavily to that extent that will make it easy to hold a small farm and hard to hold a large one. All experience, all history, shows that the ownership of homes tends toward happiness and stability of population, while extensive farms and landlordism tends in the other direction."

While I think this is true, the question is asked whether a large tract of land under a single management cannot be farmed more economically than the same amount of land divided up into small tracts and farmed by the separate owners of the several tracts. As that question is raised by a number of subscribers who have written me on this matter I will answer all at once.

Theoretically a large tract of land under a single management should be farmed at a less cost than the aggregate cost of farming a large number of tracts, but that is not by any means the whole thing to be considered. As Mr. Schenck suggests, I think the man who owns and tills a little land of his own is a more stable and generally a more contented citizen than the man who is simply a renter. So far as production is concerned the record per acre is certainly in favor of the small farms.

France, Germany, Belgium, Denmark and Holland are countries of small farms and while in point of natural fertility the lands probably have no advantage over the lands in this country, they produce on the average more than twice as much per acre, and what is fully as important, the lands are not being exhausted. They are more productive now than they were a hundred years ago.

There is however, a good deal of force in a suggestion made by several subscribers who write defending large land ownership. They say and truly, that the small farmer has to keep up nearly as much machinery and almost as many horses to farm his small tract as would be necessary to farm a much larger tract. It is also urged that the farmer with small means cannot afford to buy the best machinery with which to till his farm and therefore the farm is not as well tilled as the larger farm.

The answer to the latter part of that is that in the countries of small farms the land is very much better tilled than in this land of big farms, but it is true that there seems to be a good deal of waste in the way of machinery that might be saved if the right sort of co-operation among farmers were put into operation.

Suppose for example, that 4,000 acres of rich bottom land were divided up into 100 farms of 40 acres each. Might it not be practical to have a few steam plows owned by the farmers jointly that would do all the plowing for the hundred farmers? There are traction engine plows in operation now that will plow the ground at the rate of an acre every 20 minutes, or at the rate of 30 acres in a day of 10 hours.

A few of these machines would do all the plowing and do it better than the individual farmer could do with his single plow and probably a light team. The same engines that pulled the plows could pull the harvesters, run the threshers to thresh the grain, pull the trucks loaded with the products for the market and do a large share of the work that is necessary to be done and do it at a less cost than if it were done by the individual farmers. Here you would have on the one hand the economy of the large business together with the advantages that go with the small, individually owned farms.

I am perfectly well aware that you cannot measure any farmer's efficiency by the size of his farm. Some men who operate large farms get great results per acre and some men who own small farms are so inefficient and trifling that they get next to nothing.

THE PROPOSED INCOME TAX.

A subscriber at LaCrosse, Mr. Bender, makes inquiries concerning the proposed income tax. He has the impression that the income tax will be based on the citizen's gross income.

If for example, the total income of a farmer exceeds \$5000 from all sources, regardless of his necessary expenses, according to Mr. Bender's impression of the proposed law he will have to pay an income tax on all of his gross income in excess of \$5000.

While I have not seen the text of the proposed law I do not think this is intended. On that theory a man might be taxed on a deficit. His gross income might be \$6000 per annum and his expenses might amount to \$7000. He would in that case be in the hole \$1000 per annum but have to pay an income tax on \$1000. I hardly think any congress would be boneheaded enough to pass such a law as that.

I assume that the income means net income after deducting necessary expenses of conducting the business. If I am right, and I think there is no doubt I am, Mr. Bender will not need to worry unless his net income—that is, the amount of income he has left after deducting the necessary expenses of running his farm and other business in which he may be engaged, exceeds \$5000 a year. And I am not worrying or losing any sleep over the man whose net income exceeds \$5000 per annum. It is true, as Mr. Bender suggests, that in a way this is double taxation, but personally I would be pleased to be situated so that I would have to pay some of that double tax.

THE SINS OF THE SUGAR TRUST.

The other day I had a conversation with a very intelligent gentleman, who has been engaged in the business of manufacturing beet sugar practically all his life since he became a man.

He believes that if the tariff on sugar is removed entirely it will result in the shutting down of every sugar mill in the United States. He may be right about that. I do not know. Now it is my opinion that the people of the United States do not want to kill the sugar-making business in this country, nor would it be to the advantage of the consumers of sugar, which means everybody, to have the business destroyed, for the reason that if domestic manufacturers were put out of business a combination would be formed with the importers of foreign sugar that would raise the price above that now paid by consumers.

However, in this fight for free sugar the manufacturers will receive little popular help and sympathy, for this reason. The sugar trust, built up and controlled by Havemyer, by its conduct forfeited the confidence of the people of this country. It was proven guilty of gross frauds.

Through false weights it robbed the government of millions of dollars in the way of duties and was finally forced to disgorge at least a part of its stealings. It did all it could to kill the growing beet sugar industry. Finally it forced the beet sugar manufacturers to surrender.

It is the common impression that while the original Havemyer is dead, his policies still control the sugar trust and that the trust now owns or controls the beet sugar plants in this country. Consequently a large part of the people would look on the destruction even of the sugar plants without much sympathy or emotion, because they believe that the sugar trust would be the sufferer.

The gentleman with whom I was talking tells me that the popular impression about the ownership of these sugar factories is largely mistaken, that while it is true that formerly Havemyer did own large blocks of stock in these plants, at present the majority of the stock is in other hands, which would indicate that Havemyer and his associates were wise enough to unload on the public.

These plants, according to what this gentleman tells me, have made little money, although there is a popular impression that they have made a great deal. If he is correct then they are suffering for the sins of Havemyer and the others who controlled the sugar trust. He also claims that back of the demand for free sugar is the great refining house of Spreekles, who owns large interests in Cuba and wants sugar admitted free. This also may be true.

One of the great difficulties in determining what ought to be done in a legislative way is to get at the facts. It has often happened that under the guise of helping the people some powerful interest has been able to put over a flimflam game and the public has discovered when it was too late, that it has been buncoed.

POSSIBLE TROUBLE WITH JAPAN.

It seems that the people of California are sore at the Japanese. Just why they are sore I do not know, but from the best information I can obtain the subjects of the mikado are unpopular in the Pacific states. For that reason the California legislature is trying to pass a law that will make it difficult or perhaps impossible for a Jap to hold real estate in that state.

The government of the United States has a treaty with the Japanese government which provides that the subjects of that nation shall be treated as are the subjects of the most favored nations; in other words, that a Japanese shall have the same privileges in this country that are accorded to the subjects of any other government.

We have however, a peculiar dual system of government which leaves the question of land titles to be settled by each of the states. Here is an evident conflict of authority. The general government may make a treaty granting to the citizens of one country all the rights and privileges that are granted to the citizens of any other country, while the various states may place certain restrictions on the citizens of one country that do not apply to all.

It is not surprising at all that a government whose citizens are discriminated against cannot under-

stand this. Naturally the Japanese authorities ask what is the purpose of the government of the United States entering into a treaty when some state, a mere subdivision of that government, can abrogate in effect the terms of that treaty.

It is therefore not remarkable that there is a good deal of excitement in Japan and talk of trouble with the United States. It also must seem a little peculiar to these orientals to read of the president and secretary of state begging the authorities of a state to refrain from passing a law which will violate the spirit if not the letter of a national treaty.

I think the trouble will be smoothed over without getting into serious trouble with Japan. I cannot believe that the men in charge of the Japanese government are really hankering for war with this country, but it is idle to say that there is no danger of war. The Japs are fighters and they are cheery on account of the manner in which they trimmed China and Russia. They also know that in case of war this government has a fatally weak spot in the Philippine possessions.

Within three weeks after war was declared Japan could land an army of a quarter of a million men on the Philippine islands and take them in spite of anything we could do. I have no doubt that what soldiers we have in the Philippine islands are the equal man for man of any soldiers in the world, but it is idle to suppose that 12,000 or 15,000 American soldiers could hold their own against an army of 250,000 Japanese.

And after the islands were taken away from us it would be next to impossible to re-take them. There are enough fighting men in the United States to whip the Japs if they could be gotten across the Pacific, but how would it be possible to carry an army of half a million men across an ocean 7,000 miles wide?

The cost of re-taking the Philippines, if the job could be done at all would mean an expense of not less than 5 billions of dollars to say nothing of the loss of life. The Philippine islands always have been and always will be a weakness and curse to this country.

CALIFORNIA LIARS. Speaking of real estate liars a Salina subscriber who has recently returned from a trip to California, writes to the editor of the Mail and Breeze as follows:

Editor Mail and Breeze—The following quotation is from a big ad in the Chicago Examiner, which happened to catch my eye day before yesterday. I did not buy the paper, I do not read it. The advertisement sought the aid of solicitors in its circulation department, offering garden supplies, etc., as premiums, and as a stimulant this remarkable statement was made: "Out in southern California a colony of 300 people are each making from \$3,000 to \$7,000 a year off every acre of ground."

Imagine, if you can, Brother Coburn, ex-Governor Hoch, W. C. Palmer, and men of like character, making a crack like that. Is there a reader of the Mail and Breeze anywhere on earth, or the waters under the earth for that matter, who believes for a minute the statements contained in the quotation above? What possesses a paper, any paper, big or little, to publish such absurdities?

I have but recently returned from an extended visit to southern California, and have several times visited the colony to which this advertisement very likely refers. Be calm, dear reader, the day of returns of from \$3,000 to \$7,000 from acre farms, is not with us yet, and the Chicago Examiner should consult the Kansas "blue sky" laws.

C. M. WHITE.

Salina, Kan.

MR. LONG OBJECTS. Editor Mail and Breeze.—Mr. Rork's scheme to have the government coin legal tender and use it to pay its current expenses bobbed up again in your last week's issue. I ventured to send in only a very short note of comment on a similar article of his some time ago, but as it seems to have found its way into the waste basket I conclude that you approve of the scheme.

I would be glad to have you or Mr. Rork explain what would be the use, under that plan for the government to levy taxes in any form "to pay its current expenses." I thought that during the days of the Farmers' Alliance we thrashed out all there was in such schemes as irredeemable paper currency, free coinage, the I. and R. sub-treasury, "capita," etc.

W. A. White at that time called the movement an "intellectual epidemic," and now we find you and William and other "Progressives" advocating similar visionary schemes.

After telling what Venice accomplished Mr. Rork says we paid out during the war 1,800,000,000 of legal tender greenbacks "good as gold." This is somewhat surprising and I suppose he would have made it all the more so if he had not run out of figures.

As for it being good as gold, I would ask why the U. S. A. did not issue paper good as gold. The government could probably maintain more greenbacks at par with gold than it has now outstanding but the Cleveland administration found the "endless chain" quite long enough as it is.

At the time the greenbacks were issued that was the first time the government had ever exercised that power. The ablest lawyers found no warrant in the constitution for it, but necessity found a way in spite of the opposition of the Democrats in congress, which however was not prompted so much by reverence, for the constitution as a desire to cripple the Union and aid the enemy.

Afterward in 1865 they took a great liking to the greenbacks and Mr. Seymour on a platform demanding that 1600 millions of 5-20's be paid in that kind of money. What a misfortune that Lincoln did not have some of these later day "Progressives" to advise him in that crisis. Perhaps they could have devised a way to keep the paper of the government on a parity with gold in spite of the rumbling of the rebel artillery on the other side of the Potomac.

It is true of course, that you can legislate to compel a creditor to accept this kind of money in payment of a debt but neither the government nor any power on earth can compel me to accept any kind

of money for my farm produce that will not buy as much of the necessities of life as gold. So it all depends on the parity and the ability of the government to maintain it.

LEE LONG.

I have had no disposition to prevent Mr. Long from having his say. The fact is however, that I have on my desk more than 150 letters filled with suggestions and opinions on this and various other matters of interest. Some of these letters are long, some of them are not. A great many of them have suggestions of value that I would like to give space to if I could, but it is utterly impossible to give space to all or a quarter of them.

It has been my purpose to give as much space to those who disagree with me as to those who agree, for two reasons: First, a paper ought to be fair to the people who disagree with the editor, as they have a perfect right to do, and second, there is as much to be gained by fair criticism as there is by agreement.

I have not advocated irredeemable paper currency. I believe the time will come when exclusively gold redemption will be abandoned but I do not consider that it is necessary to raise that question now. The leading commercial nations of the world have adopted the gold standard and I presume will hold to it for a while until more equitable theory of money is adopted.

While it is true, however, that we have the gold standard in theory every sensible person understands it is only theoretical. We do not regard gold as the only money. We neither desire to do our business with gold nor would it be possible for us to do so if we did desire it. If we were compelled to do business on an actual gold basis instead of a theoretical one, commerce would be paralyzed.

The reason why commerce and business have developed so tremendously in this country is because, while we have stuck to the gold standard in theory we have abandoned it utterly in practice. The amount of gold money that is actually used is trifling as compared with paper money and other forms of credit.

It is proposed now that the government shall issue its bonds, sell them and lend the money thus obtained to farmers and possibly to others, for I take it that the dwellers in the cities and towns would demand that the government lend to them as well as to the farmer.

It is very generally conceded that the government bond would be good, but the same persons who seem

So many flimsy technicalities are blocking the wheels of justice, that it is only a question of time when the people will rise in mass and reform the courts.

—ARTHUR CAPPER.

to be satisfied to have the government issue interest-bearing bonds insist that it would be rank heresy and folly to have the government issue a non-interest-bearing note instead of the interest-bearing bond.

I have never yet heard one of these persons explain however, why a government that is able to redeem an interest-bearing bond would not be able to redeem a non-interest-bearing note which would circulate as currency.

Mr. Long asks why the Confederacy could not make its currency go. Of course for the same reason that it could not make its bonds go. The confederate currency was just as good as its interest-bearing bonds. And it might also be said that an absolute fiat confederate bill would have been worth just as much as a confederate bill that bore on its face a promise of the confederate government to pay in gold.

It has been a long time since I saw a confederate bill, but my recollection is that the confederate currency was all redeemable on its face. It was to be redeemed within a certain time after the Confederacy became a fully established government. That promise didn't help it any because the Confederacy went to smash.

If the time should ever come when the government of the United States cannot redeem its non-interest-bearing currency its interest-bearing bonds will be of no value. As a matter of fact the government of the United States ought not to have a dollar of interest-bearing bonds outstanding today. Its whole outstanding debt ought to be in the form of non-interest-bearing notes which would circulate as currency and should be a full legal tender.

NEW PLAN OF VOTING.

Editor Mail and Breeze—Never in my estimation will we escape from the clutches of those who are living on the money that the other fellow earned and did not get until we equalize the value of the voter's vote for president. As states we are all equal in the United States senate with our two votes each. As states we should each be equal in the electoral college. Without changing the representation of the various states as a whole, nor yet changing the number of representatives each state is entitled to in the college we could I believe, work out our salvation very soon if we adopted the following plan:

Each state elect two electors at large making the states as states in the college equal with a combined vote of all as states of 96 votes. Now each congressional district to have one representative in the college who shall be elected in the

district from which chosen and which he is to represent.

Now under this plan Tammany Hall probably would be able to control many of the electors from New York City, but outside of the city the elector would have to be a citizen of his district and I do not believe for one moment that the chance of Tammany Hall would be anywhere near as sure as it is when the electors are picked out by a bunch of organized men and then elected in a bunch.

Five states since my recollection recalls, have run the presidency since the days of Lincoln. This means not only that all other states must not put up a candidate, but it means that the five states shall also have the say as to who the cabinet shall be.

The Republican party was knocked out of existence this last summer by the same system as that of the electoral one used in its electing delegates to the Chicago convention. New York with its delegation used as a unit by virtue of the undemocratic way in which it was elected, succeeded in overthrowing the party that four years ago bid fair to run for 100 years. No doubt the Progressives will cut this system out and give to each district its proper representation.

So now I want to ask you to give this question the benefit of your philosophical mind through the columns of Mail and Breeze. Let each state as a state send two electors to the college and we will largely do away with the domination of Tammany Hall and Wall street.

S. C. WHITWAM.

Baldwin, Kan.

There is merit in the plan suggested by Mr. Whitwam. Personally, however, if I had my way about it I would abolish the electoral college entirely and let the people vote directly for president and vice president. I can see no reason why the vote of a man in one state should have more power in the selection of the president and vice president than the vote of any other man in any other state. Mr. Whitwam's plan rights a part of the inequality. I would do away entirely with the cumbersome, expensive and useless institution of the electoral college.

DOES NOT AGREE WITH THE EDITOR.

Editor Mail and Breeze—I know you to be a kind hearted man, sympathizing with the poor (like some others) but when it comes to the point I can't agree with you on certain subjects. I have read many interesting articles about land ownership. I do not wish to criticize or debate but only from knowledge of my surroundings it wouldn't be a fair deal for rich and poor, as you stated if a man owns more than a certain amount of acres of land you wouldn't take it away from him but tax him so high that he would get sick of his land and soon be willing to sell it for a reasonable price.

Now please tell me how many really would be willing to take it for a reasonable price, except such as had all they needed before. I have had plenty of tenants surrounding me who had just as much chance to be owners of tracts of land as the men that now own them. I could give you names of men that came to this part of the country as I did 30 years ago (I came to Clay Center with \$5 in my pocket) and they had the same chance I did.

They now are tenants and have not very much, but I must say for them that they are good workers. The trouble is they are not good managers and even if I gave them the opportunity to have half it wouldn't be five years until they would have a heavy plaster on it.

But, there are other tenants doing well and it will only be a few years until they have their own land. They go right along, and that is the right kind of people. They use common sense and go according to the Scripture, "In the sweat of thy face shalt thou eat bread till thou return unto the ground: for out of it wast thou taken: for dust thou art, and unto dust shalt thou return." (Genesis 3:19).

Now, Mr. Editor, I appeal to your judgment (which is generally sound and good) would it be justice or right to make a man with ability and ambition and who tends to his farm as a business man, pay the high taxes on account of owning much land, when the others with small farms, which generally do not raise such good crops and have all privileges, the country can give a man, go without taxes or very little? As a rule to farm on a big scale is cheaper and the land is cultivated better than on a small scale.

JOHN ROTH.

Bala, Kan.

THE WHITE SLAVE LAW.

Editor Mail and Breeze.—Tell me, why are our legislators so gentle on one subject that should occupy more thought and engage more strenuous efforts instead of being shoved into the background—the white slave? It seems that our legislators have been doing something. Really, they are severe! Almost as high a penalty for a crime before which all others sink into insignificance, as they inflict upon a horse thief and if at all inflicted the girl must prove a strictly moral character, etc. When was a case of this kind ever brought up but that the girl's character was assailed and proven immoral, etc?

The penalty for this devil's work should be the same as for murder. Many a person has taken life under excitement that I believe God will forgive but this other outrage on humanity is too base for the sanction of the evil one. Who would not rather lay a daughter in her grave?

MRS. J. B. HOWELL.

Allen County, Kan.

I think the foregoing is rather unfair to the white slave law passed by the last legislature. It would be unfair and might work a great injustice if the unsupported word of the woman were taken in all cases. I believe that Kansas has the most drastic white slave law of any state in the Union.

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

Wanted—A Hoister For Silage

Mr. Editor—I have been reading the many good articles on silo construction in the Mail and Breeze, but have not been able to find just the thing I am looking for. I am making two pit silos in a hillside. I intend to take the silage out on the lower side and will need some contrivance to hoist it from the bottom of the pit. What I would like to see is some handy plan by which one man could do this.

Nash, Okla.

F. B.

Sow Rape in Warm Ground

Mr. Editor—I have tried rape for hog pasture and think it as good as Red clover while it lasts. I prepared my ground as though I were going to sow any other small grain, pulverizing it well with the disk. I sowed Dwarf Essex seed broadcast and harrowed it in, using 6 pounds of seed per acre. The seed should be sown about May 1 or just as soon as the ground warms up enough to sprout the seed quickly. It will last until heavy frosts kill it in the fall.

Selma, Kan.

C. E. Cochran.

Best Stand on Early Disking

Mr. Editor—If farmers knew what a difference it makes to double disk ground before listing corn, more of them would do it. In the spring of 1912 I had occasion to double disk about 5 acres across at one end of one of my fields. When I began to list this field to corn, the ground was dry and weedy everywhere except on the plot I had double disked. This ground was moist and there were few weeds on it. Here the corn came up in four or five days and showed a good stand. On the rest of the field the corn did not appear until we had a rain and the stand was poor.

The disked ground was more easily worked during the season, and at husking time the corn on it made from 6 to 8 bushels more per acre than the rest of the field. "Throwing out" with a lister and double disk is just as good if not better than disking. With a walking lister one requires less horse flesh to throw out than to disk and a man can get over about the same acreage in a day. A heavy drag harrow will almost level double-listed ridges. Double disking and throwing out should not be done earlier than about three weeks before planting.

Seibert, Colo.

J. C. Love.

Sheep Profits High in Kansas

Mr. Editor—We have been in the sheep business several years and know that like most of the farmers and stockmen in the West, we don't get all out of the sheep we should on account of the way they are handled. It is no fault of the sheep but of the management. However, after figuring up at the end of the year the same men feeding and caring for them, we find there is more profit in sheep than in cattle or hogs and we handle a few of each kind. The trouble with the sheep men is that any place is good enough for the sheep. Sheep will live on pasture cattle and hogs would starve on and the reason is that we have only two weeds on the farms that they won't eat—mullein and horse thistle—everything else goes, and if crops are short more roughness can be fed to sheep than to any other stock.

We find ewes the safest proposition as we have the wool ready for market in May. We now have 600 young lambs that will be marketed in August, if the price is as good as it has been the last few years. If they were yours and you wanted them longer you could turn them in your cornfield and the weeds that you left would soon disappear. If you left them there long enough your corn would be cribbed and the result would be a nice, fat bunch of lambs that would sell in any market for as much profit as anything that you could feed your crop to.

Some good farmer will tell you that

land in Eastern Kansas is too valuable to raise stock on. I have made several visits to the old farms in Wigtownshire, Scotland. There are no better horses, cattle and sheep raised than these farmers raise and there are no better farmers. The land is so high there that there is no price on it. These farmers will tell you that sheep is the one thing that pays its way and makes the land richer. I think it will only be a short time until all the good farms in Eastern Kansas will have a drove of sheep, even if wool is placed on the free list. I am one sheep grower who doesn't believe the high tariff on wool helps the man who grows the wool nor the one who wears the cloth made from it.

Valley Falls, Kan. Neil McLeod

The Mail and Breeze has been trying for a year or two to get our Kansas folks to look into the sheep proposition. Probably there is no better way to encourage interest in it than to have good sheep men like Mr. McLeod tell us how to handle sheep in Kansas profitably. Also to give us some sort of insight into the rewards of the business. Who will be next?—Ed.

Kafir the Shortgrass Way

Mr. Editor—Out here in Meade county Kafir is a surer crop than corn. Kafir is more drouth resistant, and like a cat it seems to have 19 lives. If corn were just as sure as Kafir I would plant more corn. Corn is a less

The first time over I use a knife or disk sled, and follow with a harrow. As soon as the plants are large enough I cultivate with a walking cultivator. Weather conditions and harvest regulate the number of cultivations. Kafir starts off slowly and sometimes I only get it worked with the sled and harrow by harvest time, and must finish with the cultivator after harvest. The crop has won the confidence of us dry land farmers and you will have to show us something better before we will make a change. A good crop of Kafir, with a bunch of shoats for meat, a few cows, and a flock of chickens, will help to hold the family together when corn and wheat fail.

R. S. Hartman.

Fowler, Kan.

Test Your Kafir and Milo Seed

Mr. Editor—I have just tested four lots of Kafir seed and two of milo. The first lot was Blackhull white Kafir that had lain in the field until after April 1. Out of 81 grains tested only 43 germinated. The second test was made with the same kind of Kafir picked after frost last fall and stored in a dry place. Out of 64 grains tested 35 germinated. Some Pinkhull white Kafir, cut and shocked after frost and remaining out all winter, was tested and 59 grains sprouted out of 105 tested. I also tested some Red Kafir cut with a header after frost, threshed in winter and stored in a small bin. Only 27 grains out of 62 sprouted.

A sample of Standard milo picked after frost but before the foliage was killed showed 68 germinated seeds out of 70 tested. Seed from a lot of Dwarf milo that stood in the field until frost

would leave corn or Kafir for it. They did well on it while it lasted. I will plant more of it this year. I planted 8 rows of shallu beside the milo. This grew well at first and was much taller than the milo, but it was only half ripe when frost got it. The stock ate the shallu while green but after a feed of Kafir or milo they would only eat the heads. It is too much like broomcorn.

I have been raising both kinds of kafir but milo makes a crop on less rain in less time than either. My land is very thin and light, the kind known as "white" land. I have had no experience with the other members of the sorghum family except cane. I grew some cane last year that turned out to have a little of everything in it. There were at least 12 different varieties. What do you think of seed like that on the market?

Utopia, Kan.

T. W. Ruark.

Treatment For Wire Cuts

Mr. Editor—I see that a number of readers are having trouble in getting wire cuts to heal properly. Any good antiseptic healing powder will do more to heal a cut on a horse than all the grease you can put on it. It will heal almost any wire cut without leaving a scar and will keep the flies off in hot weather.

O. G. Burner.

R. 1, Latham, Kan.

Alfalfa For Corned-out Soils

Mr. Editor—My experience in Riley county has been that alfalfa is the great crop for poor soil. On rolling land it stops washing and on sandy soil it prevents blowing. I believe it would take 10 loads of manure per acre to equal in fertilizing value a crop of alfalfa plowed under. And it would not be necessary to plow under any part of the crop that would make hay. Turning under the stubble and roots alone would put the soil in splendid condition. Do not resow an old alfalfa field to alfalfa after plowing it up, for it will not produce well. Plant it to corn for a year or two. A neighbor bought same sandy land a few years ago that was so poor it would hardly grow corn. First he fed cattle on it, manuring it well, then put in alfalfa. After three or four years he plowed up this field and grew corn on it that made 60 bushels per acre.

John Dobson.

Manhattan, Kan.

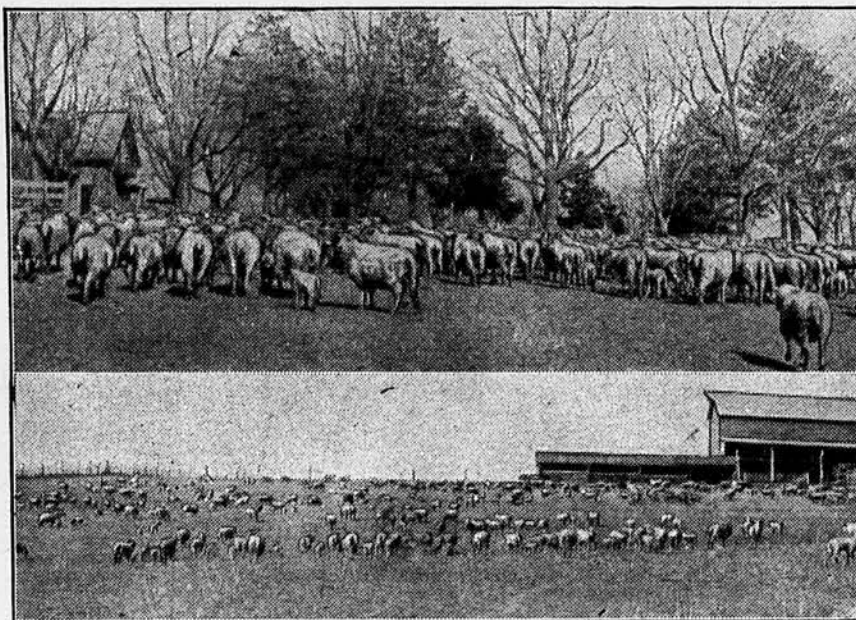
Sharing Stock on Farm Lease

Mr. Editor—A reader asks for an equitable division of livestock kept on shares where the landlord furnishes foundation stock, feed, pasture and buildings—the tenant nothing but his work. I lived in Iowa a few years ago and operated a small farm on terms which were satisfactory all around. Other farms around me were successfully leased and handled in the same way. Under these terms the landlord stocked the farm with enough brood mares to run the place, and suitable machinery to farm it. He also furnished the cows the place would support and some good brood sows. All stock was at least good grade, if not purebred. The landlord supplied feed and seed for a start and the tenant paid him interest on one-half the cost of it until he could pay for his half. Or he could leave as much undivided feed and seed when he left the place as was furnished him to start with. In other words, each party to the lease furnished half the seed and feed. The tenant furnished his half after getting started, since it was raised on the farm by the tenant's labor. Tenant and landlord divided the threshing bills equally, and all the products of the farm were divided equally.

These farm leases ran three to five years. In this kind of lease the tenant does not share in the increased or decreased value of the foundation stock, any more than he does in that of the farm which he works. The landlord retains all he furnishes, less the natural wear and tear. He would also have the privilege of weeding out and building up the original stock for the mutual benefit of both parties. One man here tells me he has had three farms leased in this same way and that it is the only way to handle a farm on shares.

W. C. Harrison.

Humansville, Mo.



These are Kansas muttons. The two views were taken on the farm of Neil McLeod & Sons, near Valley Falls, Jefferson county. Mr. McLeod and his sons handle quite a few cattle and hogs also, but find the sheep come first in profits. Elsewhere on this page Mr. McLeod discusses sheep as a Kansas proposition.

expensive crop to take care of than Kafir after the crop is made. With me the cost of raising the two is just the same, as I list and cultivate both alike. Kafir needs to be handled promptly as soon as ripe or before frost causes it to fall down, then it costs 5 cents to have it threshed. On the other hand, corn can wait and be gathered any time during the fall or winter, and if shelled the expense is only 1 to 1½ cents per bushel.

There is not much difference between the two in feeding value for work horses and hogs. As chicken feed it is superior to corn and is among the best of all egg-producing feeds. For horse feed Kafir should be ground. I select my Kafir seed in the fall while heading the crop. I take the large, well-matured heads from short, heavy stalks, and put them away until spring when they are shelled by hand. I double disk the ground for corn and Kafir alike and list the corn first, beginning April 15 to 25. Kafir and cane wanted for a seed crop are listed immediately after the corn. I usually finish up about May 10. Some years Kafir may be listed as late as the middle of June and mature seed.

had killed the plants completely showed a germination of 67 grains out of 82. This milo being in a valley froze harder than the first lot which grew on upland.

I believe it will pay all farmers to test their Kafir and milo seed, especially where it was frosted before being thoroughly cured. I tested my seed by spreading a piece of moist cloth over a plate, placing the seed on this in separate groups, then covering the seed with another cloth and a plate over this. The plate was then set in the incubator under the egg tray. But a temperature of about 70 degrees would be better than that of the incubator as 102 to 103 degrees of heat will cause a mold to form on the seeds.

Meade, Kan.

O. S. Newberry.

The Shallu Didn't Make Good

Mr. Editor—I had my first experience with milo last year. I planted 40 rows 100 rods long the last day of May. It was beaten down twice by hail to little more than half a stand. But the crop made more than a bushel of grain to the row and it was ripe and cut two weeks before our first frost. The stock all relished it and

Pig Crop 25 Per Cent Short

A Cold Damp March Caused Heavy Losses

BY FRANK HOWARD
Livestock Editor Farmers Mail and Breeze

THE spring pig crop of the great swine breeding states of Iowa, Nebraska, Missouri, Kansas, and Oklahoma, will be 25 per cent short of normal this year. As herds and brood sows are fewer than for years, the outlook is extremely good for the man with breeding stock or who is raising hogs for market. Heavy losses of pigs resulted from bad weather in March and short litters have been the rule from sows that survived last year's cholera epidemic. At present herds in all the five states are uniformly healthy.

Friday, April 4, I addressed a letter of inquiry to a large list of swine breeders in Iowa, Nebraska, Missouri, Kansas and Oklahoma. With each letter I enclosed a card to be filled out and returned to me, giving the number of sows yet to farrow and the condition of the herds. To date 200 of these cards have been returned. They list a total of 1,984 litters farrowed and 11,902 pigs saved. Two more pigs would make this a general average of 6 pigs to the litter saved, with 1,171 sows yet to farrow.

Many of the breeders report heavy losses of pigs. The most common reason given for this was the cold, damp weather of March, especially in the reports coming from the northern part of the territory covered by my letter of inquiry. Another cause given for the

loss of pigs and short litters, was the effect on the brood sows of last year's cholera epidemic. Many breeders reported a shortage not only in the purebred herds but in the herds maintained for pork production only.

The reports show a healthy condition in the herds all over the territory, only one case of disease being reported.

Ninety-three Poland China breeders reported 1,010 litters farrowed, 5,689 pigs saved and 563 sows to farrow.

Seventy-one Duroc-Jersey breeders reported 730 litters, 4,521 pigs saved and 367 sows to farrow.

Fifteen Chester White (O. I. C.) breeders reported 102 litters, 779 pigs saved and 82 sows to farrow.

Eleven Hampshire breeders reported 94 litters, 660 pigs saved and 79 sows to farrow.

Ten Berkshire breeders reported 48 litters, 253 pigs saved and 80 sows to farrow.

The Chester Whites averaged 7.64 pigs per litter saved, Hampshires 7.02, Duroc-Jerseys 6.19; Poland Chinas 5.63 and Berkshires 5.27.

These averages are low in every instance and especially so in the Berkshire and Poland Chinas. Everybody who knows Berkshires knows that the sows are prolific and the pigs hardy and easily reared. The general average does not represent more than 75 per cent of a normal crop and indicates good prices. With a short pig crop in sight, both in purebred and pork herds, and the demand pushing breakfast bacon a little higher every morning, the breeder of purebreds should confidently look forward to remunerative prices for his breeding stock and should insist on getting such prices.

New Fight on Cholera Begun

Kansas' Co-operative Plan Being Tested

A TEST of the Kansas Co-operative plan to banish hog cholera from a certain locality and keep it out ever after is now under way in the Silver Lake district of Shawnee county, where 150 farmers signed an agreement to vaccinate their hogs and observe certain rules. The first vaccination was done Monday morning of this week on the farm of Alonzo Beall, near Valencia. Dr. K. W. Stouder, of the Kansas Agricultural college, one of the foremost hog cholera experts in the country, is in charge of the work.

All hogs except those almost ready for market, will be given the simultaneous or life immunity treatment. After the mature hogs in this district are treated the work will be more simple and far less expensive, as all pigs will then be vaccinated on being weaned. A pig of this age can be vaccinated at an expense of from 25 to 40 cents, while to treat a 200-pound hog will cost about \$1.50. Besides this, the small pig takes vaccination better than an older animal. He is in more vigorous health, and there is far less probability of abscesses, infection, etc. Pigs have been vaccinated before being weaned, but this is not considered advisable. Pigs from an immune sow will themselves be immune so long as they obtain their nourishment from the dam. A hog should not be ringed or castrated within two to four weeks before or after vaccination.

Dr. F. S. Schoenleber, head of the veterinary department at Kansas Agricultural college, and one of the instigators of the experiment, addressed a meeting of Shawnee farmers at Silver Lake Saturday afternoon. The meeting drew hog raisers from various parts of the county who would like to have the lines of the district extended to include their farms. The college has promised to accommodate all communities that will organize as Silver Lake did. At Silver Lake a large share of the credit for getting the movement started was due to the men who circulated the petitions, and particularly the officers of the organization, President M. A. Hutchinson of Silver Lake, and Secretary Ambrose Howell of Kiro.

While the college veterinarians do not

compel a co-operator to feed and care for his hogs in a certain prescribed way, they make a number of good suggestions about feed and sanitation.

The Silver Lake plan of stamping out hog cholera is an innovation. The college veterinarians reason that if hog cholera can be banished from a single farm, why not from a section, a township, county or state? The progress of the experiment will be watched with interest all over the country, and if the results hoped for are obtained, these Shawnee county farmers and the Agricultural college will have done a service for the world that will be hard to compute in dollars and cents.

Can Serum Spread Cholera?

A TEST TO DECIDE IT.

A test now under way at Kansas Agricultural College will show whether a hog vaccinated with anti-hog-cholera serum can transmit the disease to a susceptible animal that has not been vaccinated. When a hog is vaccinated by the "simultaneous" method it undergoes a light form of the disease. It hasn't been proved to the satisfaction of veterinarians that an animal in this condition is not capable of transmitting cholera.

The experiment will show, it is hoped, whether it is advisable to bring susceptible pigs on a farm and place them in a pen with animals that have received the simultaneous treatment, or of vaccinating, simultaneously, only a part of a herd. Sixty or 70 hogs will be used in the experiment.

Pure Seed For Western Kansas

One of the county demonstration agents in western Kansas is making contracts for seven carloads of pure seed of Kafir. Gold mine millet, Sudan grass and milo, the seed to be sold to the United States department of agriculture for distribution in small quantities later throughout the district. Two other agents are emphasizing the value of careful seed selection in order to get early strains of milo, Kafir and other sorghums.

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Here they are, Mr. Farmer Man, a baker's dozen of them—in two books. Practical Plans for Barns and other Farm out-buildings, with detail drawings so that any home carpenter can easily and economically build from them. They are Vols. 4 and 20 of the famous "Cypress Pocket Library," hot off the press. They have a real value to you, especially if you think of building, or if you ever expect to.

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"SURE SHOT" SILO, will not freeze in any weather, nor chill at the curing season, nor bake in hot weather. Square outside for strength, practically circular inside—no corners to sour in—and economical and easy to build because it requires only stock lumber to be found in every yard. Investigate this. Working plans and specifications complete.

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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.

Apparently the last legislature didn't do its whole duty by the state. It didn't change the date for the annual school meeting. No doubt it was an oversight.

We held the school meeting this year in our new schoolhouse. It is a neat building and it is being used right along for Sunday school and preaching. It is our idea that the people should use their school buildings for every meeting of a public nature.

Plenty of rain has fallen here and we need only a few warm days to bring good pasture. Grass is starting well but it never pushes along as fast as we could wish. Each spring seems to be colder and more backward than the one preceding, but likely enough this is just imagination, probably the average weather of spring does not vary greatly from year to year.

It is sugaring time back in Vermont and we do wish we were there for a few days. If there is anything we enjoy it is to "scrape the pan" after the sugar has been turned out when "sugaring off." Sugaring time is hard work, but it is pleasant work and we know of nothing more enjoyable than to sit in front of the fire on some spring evening and watch the sap boil down.

We got that field sowed to grass this week by taking advantage of about the only day when we could have done the work. We finished on Monday and that night it rained so that we have not been able to get on the plowed land since. It was a good thing to be able to get the seed in in time to take advantage of the moisture.

We shall be late also with our rape sowing. Usually we aim to get it sown by the first of April, but the month will be almost half gone this time before we get it sown. The land is all plowed and if it does not rain we shall sow it tomorrow. To fit the land for this crop we had to plow under the old rape that had lived over winter and which was making a fine show of green ahead of the plow. But if we had let it stand it would not have made much pasture, for rape which lives over in this way soon runs to seed.

DR. TALKS ON FOOD Pres. of Board of Health.

"What shall I eat?" is the daily inquiry the physician is met with. I do not hesitate to say that in my judgment a large percentage of disease is caused by poorly selected and improperly prepared food. My personal experience with the fully-cooked food, known as Grape-Nuts, enables me to speak freely of its merits.

"From overwork, I suffered several years with malnutrition, palpitation of the heart, and loss of sleep. Last summer I was led to experiment personally with the new food, which I used in conjunction with good rich cow's milk. In a short time after I commenced its use, the disagreeable symptoms disappeared, my heart's action became steady and normal, the functions of the stomach were properly carried out and I again slept as soundly and as well as in my youth.

"I look upon Grape-Nuts as a perfect food, and no one can gainsay but that it has a most prominent place in a rational scientific system of feeding. Any one who uses this food will soon be convinced of the soundness of the principle upon which it is manufactured and may thereby know the facts as to its true worth." Name given by Postum Co., Battle Creek, Mich.

"There's a reason," and it is explained in the little book, "The Road to Wellville," in pkgs.

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

Our Duroc sows are trying to do their part toward relieving the shortage. When we went out one morning this week we found that three sows had discovered families during the night. There were an even 40 pigs with the three sows which is certainly doing well. But to spoil the average one old sow had to get mean and scatter her pigs all over the pens. By night she had succeeded in trampling on all except one. This leaves two sows with still enough for three, but do not dare to put any of them with the cross one.

Lots of ground will be listed to corn here this spring, but not much of it will be worked before the lister is put in. Some will disk and some will double list. Which is better is hard to say. Likely it will depend on the weather, the soil and the condition of the ground. Almost anything is preferable to waiting until planting time and then going in and listing out the hard ground. Even then there are seasons when preliminary work is thrown away and when just the one listing does as well as more. The best we can do is to guess at it and let it go at that.

The sky each night is bright with the light of burning prairies. Many are burning off their meadows while some are cleaning up the pastures. When a pasture has too much old grass left in it about the only thing to do is to burn it, for if it is not done stock will not browse where the old grass is. As to burning meadows, that is another story: Hay men say burn them, but they are mostly interested in getting hay that will grade well. If the meadow is not burned it will produce more tonnage, but the hay will not have so good a color. For the permanence of the meadow it must be best not to burn, for the grass which rots down each year must be a great help to the land.

When prairie meadow is mowed early and there is plenty of summer rain following, a good second crop of hay springs up. This is often mowed, especially by the men who have hay land leased. But it is a very bad thing to do from the standpoint of the next year's crop, for it is a fact that the exact line of the second mowing can be traced the next year in the diminished grass. We cannot tell why this should be so, but it is a fact. We do not know whether the injury extends any farther than the one crop, but we do know that all that is gained by the second mowing is lost and many times even more. Prairie meadows that are not burned, or mowed the second time, are apt to be badly infested with bumble bees and they make many a lively fight and have caused more than one runaway.

From a reader at Phillipsburg comes an inquiry for a safe way of getting rid of rats. He also asks what we think of the use of carbolate of lime for the purpose. We know nothing at all of it, never having heard of it before. The best thing we have found to get rid of rats is a good sharp rat terrier. Keep one or two and keep them on hand all the time even if you do have to pay the state \$1 each. Traps work well at times and we have used wire traps that would catch a dozen in a night but they soon become shy of them. The dogs will do the business if given a fair show.

In response to our inquiry in regard to share rents for livestock two weeks ago, we have a letter from a reader, at Parsons, who tells of what he did by share renting with stock. His landlord furnished an 80-acre farm, 4 horses, 15 Holstein cows and 100 Leghorn hens. The tenant did all the work and the shares or proceeds in all grain, increase of stock, cream, eggs, etc., was 45 per cent to the tenant and 55 per cent to the landlord. The tenant paid for half of all the repairs. Four sows were bought, the tenant paying 45 per cent

of cost and the landlord the rest. The hogs, both increase and foundation stock, were divided as above, but of the rest the landlord retained the foundation stock. At the end of every month a settlement would be made of the money taken in and paid out and the profits were divided. This reader says that he made \$1,397 the first year on this 80-acre farm. We think this was doing well and no doubt the receipts were largely from the 15 Holstein cows. This would seem to indicate that it is profitable both for landlord and tenant to go shares with both land and livestock.

A Political Administration

Under Governor Hodges progressive Kansas is getting an old fashioned political administration. One by one he is turning over the state's best managed and most important institutions to the spoilsmen.

The latest instance is the displacement of Mrs. Julia B. Perry, for 12 years head of the Girl's Industrial School at Beloit, who like Warden Coddington at Lansing, is famous the country over for her efficient and humane management of a difficult institution.

"The one institution charged with the most sacred and delicate duty of any other in the state," remarks the Beloit Gazette in a column-long criticism of the governor's course, "has no greater value in the eyes of Governor Hodges than to be made into simply a cog of his political machine and Mrs. Julia B. Perry has been notified that her services will not be needed as superintendent after July 1."

The Gazette points out there has not been a single scandal in any one of the state charitable or penal institutions since the placing of these institutions upon the humane basis where merit and service instead of politics governed. "Yet," adds the editor of the Gazette, "in the face of past experience and the almost universal sentiment of Kansas people, regardless of political parties, Governor Hodges seems determined to return these institutions to the political whirlpool. The warden of the penitentiary was the first to fall beneath his axe. That institution never made such progress as it has under the administration of Warden Coddington whom Governor Hodges removed to make a place for the biggest political faker in the state, Rev. Peruna Botkin. He then appointed one of his chief managers during his last campaign as superintendent of the Industrial Reformatory at Hutchinson to take the place of M. F. Amrine against whose administration not the slightest charge has been brought. Prof. C. E. White, a trained superintendent, was removed from the School for the Deaf at Olathe and a lady teacher was appointed in his stead. Dr. Uhls, superintendent of the State Hospital for the Insane at Osawatomie, has resigned (so it is stated) simply to keep from being fired, and the state is robbed of the services of one of the highest-rated superintendents of insane hospitals in the United States."

All Five For \$1.25

The Mail and Breeze is enabled to make the biggest clubbing offer it has ever had, and for only \$1.25 will send all five 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.

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POULTRY CULTURE, a "chicken magazine" full of practical, pertinent, timely and terse talk about the scientific money-making side of poultry raising. Edited by Reese V. Hicks, considered America's greatest poultry expert.

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 five of these big papers will be sent to one address or to five different addresses if so desired for only \$1.25. If you are a subscriber to any one of these papers your time will be advanced another year. You will be supplied with the best class of reading matter for a full year. Don't fail to mention the names of these papers in sending in your order. Send your order to the

MAIL AND BREEZE, TOPEKA, KANSAS.

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.

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.

This wagon, the only one of the kind, is the

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



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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Speed Market Investigation Government Urged to Use Energy

ARTHUR CAPPER, publisher of Farmers Mail and Breeze, left Kansas last week for Washington to attend a meeting of the executive committee appointed at Chicago by the National Conference on marketing and farm credit. The committee of which Mr. Capper is a member will urge the establishment by the government of a bureau for the thorough study of markets, crops and cost of transporting foodstuffs. Congress has already taken some steps in that direction, but the committee will ask for speedier action. It will urge an investigation of the methods employed by progressive agricultural communities in production and marketing; the effect of co-operative organization upon agricultural production, distribution of finance; and the relation of the cost of living to the business organization of the food-producing classes.

Other members of the committee are Dr. J. H. McConnell, president of Okla-

homa Agricultural college; E. W. Kirkpatrick, of Texas, president of the Farmers Congress; Lieutenant-Governor S. R. McKelvie, of Nebraska; John Sebastian, vice-president of the Rock Island railway; T. D. Harmon, publisher of the National Farmer and Stockman; C. A. Shamel, editor of Orange-Judd Farmer; and Dr. A. Caswell Ellis, of the University of Texas. The committee has been invited to appear at a conference which will be participated in by President Wilson, Secretary Houston of the department of Agriculture and the members of the agricultural committee of the senate and house.

While in the East, Mr. Capper will attend the annual meeting of the Associated Press in New York, and on his way home will participate in the American Peace congress in St. Louis, to which he has been appointed a delegate by the Topeka Commercial club.

How Live As Well On Less Easy For Farm Folk to Lower the H. C. L.

Editor's Note.—Ask any town man if country folk haven't four chances to his one, when it comes to reducing the cost of the day by day living expenses, and he will cheerfully and readily admit it. But the truth is town folk might do better themselves. Many of them do not "farm" their backyards because once upon a time a neighbor's chickens scratched up the garden or a loose horse or cow ate it up in a single night along with the tops of a few rose bushes. Yet wire fencing is pretty cheap and plentiful. * * * These expense-lowering letters were called for several weeks ago and the response was hearty. So hearty that we shall have to make them a continued story. A few will be published each week. The parts of letters that duplicate paragraphs in the published letters will be omitted to avoid too much repetition.

[First Prize Letter.]

TO MAKE both ends meet and perhaps lap over a little, Benjamin Franklin said, "We must either increase our means or diminish our wants." As a penny saved is a penny made I hold that we have increased our means when a penny is saved.

To begin with, don't despise the pennies. Another excellent maxim is, "Learn to hate waste." As a rule Americans are exceedingly wasteful. Never buy anything you don't need, no matter how cheap. Learn to differentiate between the things you want and the things you need. Don't try to outdo neighbors and friends for the mere sake of outdoing them.

It is a saving to buy clothes that are not extreme in style, for extremes are soon out of date. Buying material of good quality is a saving because it wears better and saves sewing. No cheap "caliker" for me. Planning ahead and buying certain things at off seasons is an advantage. Many stores have annual white goods sales when reductions are made in all goods of this kind. By being a little forehanded, one may buy materials at this time both for clothing and household purposes. Blankets and similar articles usually sell at a big cut in February.

Home gardens, canning, and butchering, mean much in decreasing living ex-

penses, provided the time consumed and the attendant waste are not too great. Serving foods in season is a big saving over buying garden "sass" that is hot-house grown. The writer knows a family in moderate circumstances who several years ago was fortunate in growing a quantity of early tomatoes when they were retailing at 10 cents a pound. Instead of selling a portion at a nice profit they ate them all. That was several years ago and the family is still in moderate circumstances. Another family that makes a practice of eating what will not sell well is getting ahead financially.

To discover what pays best one should keep books. The farm family should keep accounts for they are both helpful and interesting. But for pity's sake, don't run bills. Charlotte V. Opfer. Clay Center, Kan.

A Living Grown on the Farm.

[Second Prize.]

Mr. Editor—On less than a half acre of ground we raise more vegetables of all kinds than we can possibly eat. I plant all but the potatoes myself, in fact I think I know more about gardening than my husband. Besides using the fresh grown vegetables it pays well to put up a supply for winter use. They will taste almost as good as if coming direct from the garden. We don't sell off our potatoes too closely for if we do they will usually have to be replaced by others at higher prices.

Our hens furnish all the eggs we want for the table and I sell several dozen each week. Besides the chickens sold through the summer the flock supplies our table with meat two or three days a week.

Less than four years ago we bought a cow for \$40. Two months ago we sold that cow and one of her calves for \$53. We still have two of her calves, one in milk now and one to be fresh this spring. At present values these two heifers are worth \$100 and a calf from one of them sold for \$7 last spring. From the one cow that was sold I made enough butter for the table and sold more than \$20 worth last year, besides using all the milk we wanted.

Last July my husband bought three small pigs for \$8.50. All they had was the waste from the kitchen, some refuse corn thrown back from the horses, and about half the milo from less than ¼ acre of sod land. Last November one of these pigs was sold for \$20.30 and the other two were butchered and will furnish our meat for the year.

I learned long ago how well it pays to put up fruit when it is plentiful for future use. I put up an oversupply so as to have enough in case of a fruit failure.

We waste too much in throwing away old garments. If too badly worn to serve longer as garments, they may be laid away to be made use of in various ways. They are good to pad covers or

(Continued on Page 27.)

I Want A Small Light Tractor — One I Can Operate Alone

That's what a prospective customer in Iowa wrote us the other day. Continuing, he said: "I just noticed from your ad in one of the farm papers that you are putting a small tractor on the market, and am anxious to get your catalog describing same. I have several catalogs of small tractors, but most of the concerns who are making them are new at the business and many of them are building only experiments."

This shrewd farmer is evidently familiar with Hart-Parr Quality and Service. Chances are he'll invest in a Hart-Parr "27"—the small, light tractor designed for 160 to 320 acres. It meets medium power needs.

With the Hart-Parr "Self-Lift" Plow (see illustration), it's a strictly One-Man Outfit. Plow is operated by a rope on the clutch lever. You run the entire outfit from the engine platform. Tractor is nearly all steel, strong but light. "Self-Lift" weighs one-third less than any other. Outfit will not sink and mire in soft soil.

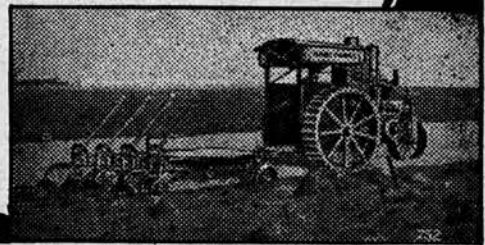
Plow has independent self-lift and hand-lift attachments. Strongly constructed, with large clearance, light draft, no gears to clog or break. Special spring beam coupler enables bottoms to readily pass over or skid around obstructions and immediately return to line of draft.

Tractor takes the place of 12 sturdy horses, uses cheapest fuels at all loads and is oil cooled. You can use it for all kinds of work requiring power, from breaking sod to grinding feed.

Write for Special circulars describing both outfits.

HART-PARR CO.
234 Lawler St.
Charles City
Iowa 77

THERE IT IS



"INGECO" Engines

Get The Most For Your Money

The cost of a farm engine in the end depends upon the length of time it will last and its economy of operation. A good farm engine lasts a lifetime, always does good work, and costs but little to operate. By getting a good engine you save both money and trouble.

"INGECO" Farm Engines are not high priced, but in design and construction they are the highest grade engines made. Remarkable for their economy in fuel — on steady work they soon pay for themselves. Reliable, quick to start, simple to operate. They run as long as fuel is supplied.

FROM 1½ H. P. UP TO 60 H. P. PORTABLE, SEMI-PORTABLE, STATIONARY.

Write at once for the name of the nearest dealer and catalog describing "INGECO" Engines, and the reasons why you should consider this engine. By all means do not buy until you have found out all about "INGECO" Engines. The "INGECO" is the best all round farm engine made. It is the kind of farm engine you need on your farm.

International Gas Engine Company
162 Holthoff Place, CUDAHY, WIS.
(Suburb of Milwaukee)



FREE Six Beautiful !! MONTHLY-BLOOMING ROSES !!

Here is the most attractive Free Premium offer ever made! It is an offer which should bring 50,000 new subscriptions to our popular farm magazine during the next few weeks. Everyone loves flowers and the one special favorite of all is the Rose.



In order to make this by far the most attractive and most winning offer ever advertised we have secured a superb collection of six of the most beautiful roses to be found in America. They are not cheap, common varieties — they are the rarest and most famous plants ever offered. They are well-rooted, strong and healthy — guaranteed to give satisfaction or money cheerfully refunded. We head this big-value collection with

The "Blumenschmidt" Wonderful

The Latest and Most Beautiful Rose Discovery! This latest and most beautiful variety is alone worth more than the small sum we ask you to send on this special offer. In this newest Rose creation we offer you an improved and glorifying, monthly blooming plant, with flowers of pure citron-yellow, outer petals edged with the slightest tint of rose. A variety of most vigorous growth and winner of many premiums at horticultural shows.

In all, Six Different Colors: Red, White, Silvery-Carmine, Golden Yellow, Pink and Crimson. The other Roses included in this most exceptional offer are all first quality plants, carefully packed and sent prepaid at proper time for planting. They are as follows: The wonderful new CRIMSON BEDDER; the HELEN GOULD, a magnificent, velvety, pink everbloomer; the BETTY, a remarkably fine shade of golden yellow; the MME. JENNY GUILLOT, finest silvery-carmine rose ever offered; the WHITE MAMAN COCHET, snowy white, with rich, full flowers. This liberal offer is made solely for the purpose of advertising our big farm paper, The Mail and Breeze. Here is our offer. We send all the above collection of six fine Roses with One Year's subscription for only \$1.00. Order at once before they are gone. Address

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HAYING TOOLS.
MADE OF
Wood or Galvanized Steel
Send for Free Catalog
E. WYATT MFG. CO.
Salina, Kan.
106
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Also a full line of implements on which we can save you money. Write for Big Free Bargain Book.



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 dairy cow offered for sale "cheap" these days is not to be trusted.

"Setting" milk in pans means a loss of anywhere from 10 to 50 per cent of the cream.

Butter for market containing coloring matter must be so labeled where the coloring matter is injurious as a food.

The amount of milk in the pail is about the only "mark" of a good milk cow that may always be depended upon.

The foresighted dairyman is not the kind who is caught these days selling heifer calves for veal, because prices are good.

Who is using a good milk house and wants to send us a plan and description of it in return for the Mail and Breeze for a year?

Stopping the churn at the right time has a good deal to do with making good butter. Stop when the grains are about the size of wheat kernels.

It is a good plan to have a grazing lot of some green crop near the barn, where the cows may pick at night. It helps to keep up the milk flow during the hot months.

Who Knows About Milk Goats?

Mr. Editor—Have any of the readers of Mail and Breeze had experience with milk goats? What of their usefulness and value?

Burrton, Kan.

J. A. W.

Here's a 2-Pound-a-Day Cow.

Mr. Editor—Since milk and butter records seem to be in order on the dairy page I want to submit a week's work of one cow we milk. She has some Jersey blood and has her second calf. We began saving her milk February 17 and during the week following we churned just 14 pounds of butter—2 pounds a day. As every one will remember, this was a stormy week too. We fed her 2 quarts of oats a day and all the sowed Kafir and straw she would eat.

Mrs. A. Vancuren.
Conway Springs, Kan.

Dairy Shorthorns to Kansas.

Among the latest importations of dairy stock from eastern states is the carload of dairy Shorthorns recently brought to Kansas by W. C. Parker of Oskaloosa. This shipment, Mr. Parker declares, is the first foundation herd of dairy Shorthorns in the state. The cattle are direct descendants of the Bates breeding of England and were selected from the May and Otis herds of Ohio and Pennsylvania. The bull that heads Mr. Parker's herd is out of Jewel who was grand champion of the breed at the International Stock show in 1911.

Soil Saving Value of the Dairy Cow.

A good cow, says Prof. O. E. Reed of Kansas Agricultural college, will produce 6,000 pounds of milk a year. If this milk is sold, \$6.27 worth of fertility is sold off the farm. To produce 6,000 pounds of milk, this cow will eat about 3 tons of alfalfa hay, containing \$28.50 worth of fertilizer constituents. If fed a grain ration of corn and oats she will eat about 1,250 pounds of corn and 750 pounds of oats, containing \$6.94 worth of fertilizer. Thus, by feeding this grain to the cow and selling the milk, the saving of fertility would be \$35.44 minus \$6.27, which equals \$29.17. If this cow made 300 pounds of butter from this 6,000

pounds of milk and the butter was sold from the farm, there would be a greater saving of fertility. The saving in this case would be \$35.44 minus 8 cents, which equals \$35.36.

First Place to Cowpea Hay.

[Prize Letter.]

Mr. Editor—I have fed cowpea hay for two years and don't believe it can be duplicated as a dry, rough feed for milk cows. They relish it more than alfalfa hay. I put some alfalfa hay in my cow barn and finished with pea hay. I fed off the pea hay and was surprised to find the cows would hardly eat the alfalfa hay at first although it was perfectly good.

I feed the hay with the peas on it. My regular feed in the winter was a mixture of 1 part bran, 1 part corn chop or crushed ear corn, and a liberal allowance of pea hay with corn fodder, night and morning. I give the pea hay most of the credit for the large amount of milk secured as I cut off all the bran and chop for a time and fed pea hay with corn fodder that had a little corn on it. I could hardly notice any falling off in the milk. I have just good, common Jerseys and grade cows but they give from 1½ to 2 gallons of milk right up to calving time.

The ground on which I grow cowpeas is disked well in the spring and the disking is repeated as often as necessary to keep down weeds. About May 20 to June 1, I list the field the same as in listing corn and also work the crop the same as corn. With a corn sled I throw the dirt away from the rows once or twice, then drag, and throw the earth back.

I cut the crop before frost, when the peas are ripe. After cutting I let them cure slightly, then put in small piles to finish curing. The main thing is to get them in the barn or stack with as many leaves on as possible. They must not be too green or they will mould, being very sappy. If pea hay is stacked cover with Kafir bundles or something that will turn water.

F. M. Moore.

Anthony, Kan.

Try Blood Meal for Calf Scours.

[Prize Letter.]

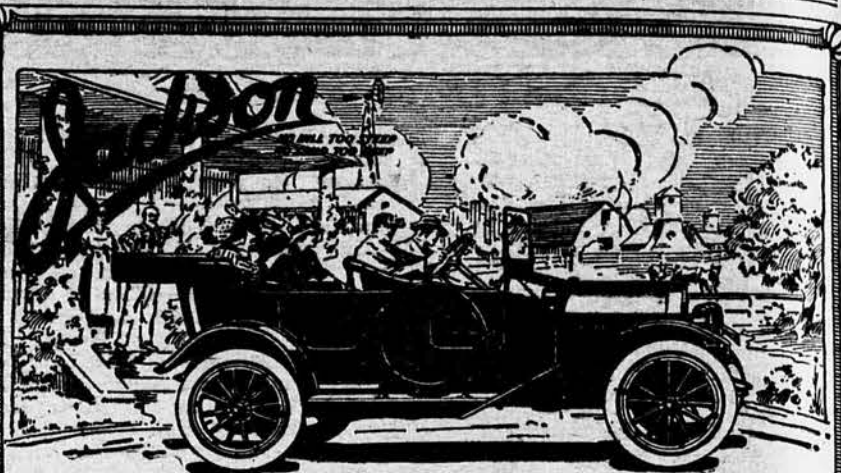
Mr. Editor—Previous to 12 or 15 years ago I had difficulty in bringing calves through and curing them when this ailment attacked them as it frequently does when they are quite young. I lost several young calves. I finally learned from the Experiment station that blood meal given two or three times a day would cure these cases. Blood meal is easily and quickly given, and there can be no danger in its use. Grab the calf, back him up in a corner and hold his head up. Have the blood meal in a long necked bottle. Put your finger in the calf's mouth, open it, and pour some dry blood meal down his throat but do not hold the bottle in his throat long enough to choke him. It is not important to restrict the dose to a spoonful or two spoonfuls; he is not likely to get more than is good for him as he will try to get his head down and spit it out of his mouth. But don't let him get his head down, try to make him swallow it. After you have dosed him a few times there will be nothing serious or technical about it, but he will get well within a day or two. Put the blood meal down his throat dry. You need not put it in milk.

In my 12 years' experience in using this remedy I have never lost a calf. Blood meal is also a great tonic. If a light portion of it is mixed with the feed for the calves, they will get used to eating it along with their feed and it will be found to improve their condition wonderfully.

Blood meal can be had at retail for about 5 cents per pound or in 100-pound lots at about 3¼ cents per pound. Get a dealer to buy it in 100-pound lots and pay him his profit on retail quantities and you will save time and save your calves. While not wishing and not needing to advertise this excellent remedy, the reader may wish to know that a postcard or letter directed to Swift and Company, Stockyards Station, Kansas City, Kan., will bring a prompt answer with the price card of this and other animal foods.

Thomas D. Hubbard.

Kimball, Kan.



Jackson "Olympic"—\$1500

Four cylinders, 35 horsepower; unit power plant; long stroke motor. 4¼ x 4¼ inches; 115-inch wheelbase; 34 x 4-inch tires. Complete equipment, including Disco starter. Black and nickel trimmings. Electric starter and lights, optional \$225 extra.

"Majestic", four cylinders, \$1975

"Sultan", six cylinders, \$2650

Jackson comfort more than merely soft cushions

We believe in deep upholstery and soft cushions; and we put them in our cars.

But we know—by virtue of eleven years of experience—that these are not the beginning and the end of real automobile comfort.

And we have done the best this long experience has taught us to put real comfort into Jackson cars.

The secret lies in engineering ability and engineering design.

Spring suspension, distribution and balance of weight, length of wheelbase, wheel size, all influence the car's riding qualities.

Jackson springs are all full elliptic, they ride 33 to 100 per cent easier than other types.

Jackson seat cushions are 10 inches thick; they are tilted slightly toward the rear. The seat backs reach to your shoulders.

Jackson wheelbases are long; and the wheel sizes are correctly proportioned.

All that engineering ingenuity can do to make the car ride easily, has been done in the Jackson.

Your problem is to choose the most comfortable car.

Write for the Jackson catalog and dealer's name.

Then ride in the car and your problem is solved—for you will find the Jackson car the most comfortable car you ever sat in.

JACKSON AUTOMOBILE CO., 1415 E. Main St., JACKSON, MICH.

\$15

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Thousands In Use giving splendid satisfaction justifies your investigating our wonderful offer to furnish a brand new, well made, easy running, easily cleaned, perfect skimming separator for only \$15.95. Skims one quart of milk a minute, warm or cold. Makes thick or thin cream. Different from this picture, which illustrates our low priced large capacity machines. The bowl is a sanitary marvel and embodies all our latest improvements.

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Our wonderfully low prices and high quality on all sizes and generous terms of trial will astonish you. Whether your dairy is large or small, or if you have an old separator of any make you wish to exchange, do not fail to get our great offer. Our richly illustrated catalog, sent free of charge on request, is the most complete, elaborate and expensive book on Cream Separators issued by any concern in the world. Western orders filled from Western points. Write today for our catalog and see for yourself what a big money saving proposition we will make you. Address,

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Positively the only book of its kind ever written. A complete Manual of Dairying for the modern business farmer giving ALL of the best, modern, scientific dairying methods in clear, plain English. No theories—just the sound, practical money-making facts that every cow owner should know. This book is priced regularly at \$1.25. FREE to you if you only write at once.

Get My 90-Day FREE TRIAL OFFER On the Great Galloway Sanitary Separator

I want to tell you how you can get the very latest and greatest product of the great Galloway factories—the wonderful Galloway Sanitary Separator—shipped right to your farm for 90 days' absolutely free trial. Unquestionably the most liberal separator offer ever made. I'll even pay transportation charges both ways if you think you can get along without this wonderful machine after the FREE trial. Send at once.

Special 1913 Offer: I want to tell you, too, how you may actually get one of these wonderful, new separators either partly or entirely without cost. No soliciting or canvassing. Just write me a postal or letter—get my big, money-making Cow Book and catalogs—all FREE.

Wm. Galloway, President
WM. GALLOWAY CO., 203 Galloway Sta., Waterloo, Iowa

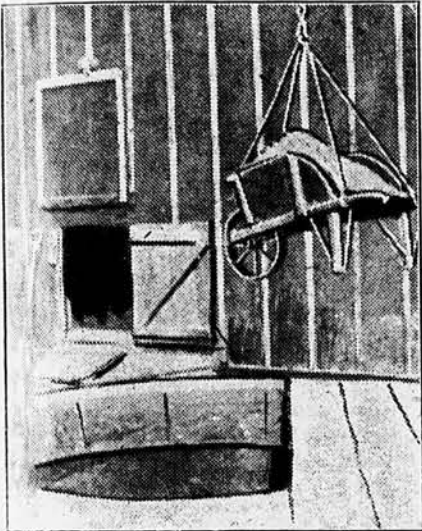
My "Mail and Breeze" Pit Silo

BY A. T. SMITH.

[Written for Farmers Mail and Breeze.]

Some time ago I saw instructions in Farmers Mail and Breeze on how to build an underground silo. Last summer I made one after this plan and the only thing that would be just as good would be another one like it. It is 8 feet in diameter and 14 feet deep. By means of a movable crane on the gable end of the barn the earth was hoisted out with a horse, and block and tackle. I used a wheelbarrow as the picture shows and when raised to the top we would swing it around and wheel it off on the runway boards.

I put two heavy coats of cement plaster on the walls and a 4-inch layer of concrete on the bottom. Exclusive of my own labor this silo cost me \$19.50. At the time of filling it I was unable to get any help other than a 14-year-old colored boy. The boy and I would bring in a big load of corn, my wife fed it through the cutter while the boy laid the corn on the cutter table, and I did the tramping in the silo. In this



Mr. Smith's Silo in Course of Construction.

way we put 2 acres of heavy corn into the silo at an expense of \$3 paid to the boy and 54 cents for gasoline. We had bought the standing corn for \$22, so that we were out \$25.54 all told. We used a 1½ horsepower gasoline engine on an ordinary hand cutter.

When I began feeding silage November 24 I found 4 inches of spoiled silage on top and had 11 feet of good silage left. I fed three cows, two yearling heifers, two 18-months-old heifers and a calf. Today, (March 19) I still have about 3 feet of silage left. I fed the stock all they would clean up which was about a bushel basket packed full for the cows and half that much for the young stock. Some of them were a little slow to eat it at first but now they will nearly run over me to get into the barn when it is ready for them.

I have a small block and tackle and pull the silage up with a large can. Near the top of the silo there is a suspended platform on which I keep a shallow box. Into this the silage is dumped which makes it handy to scoop up. The block and tackle is suspended from the gable roof which covers the silo. I think it is as easy to go down a small ladder and fill the can with silage as it is to climb up a ladder and throw the silage down. Furthermore, the silage in my silo does not freeze, I am not bothered with doors, hoops do

not get loose, air cannot get in to spoil the silage, there is no danger of it blowing down, and it requires less power to fill as no blower is needed on the cutter.

Since feeding silage our butter has been as yellow as if the cows had been on grass and there is just as much of it. I intend to build another silo just like this one, this summer. I would not advise anyone to build a silo of larger diameter than mine unless you have more stock to feed. If you do you won't be able to feed off the silage fast enough to keep it good.

Wathena, Kan.

Equipment For Filling a Silo

BY C. F. CHASE.

[Written for Farmers Mail and Breeze.]

Editor's Note.—The great objection to silos is their cost—not only of construction but of the equipment required to fill them after they are built. This expense is being diminished year by year through short cuts, better methods of management, and new ideas in silo building. Mr. Chase adds a good suggestion in the buying of smaller cutters, costing less money and requiring less help. He will be remembered as formerly one of the efficient members of the college staff at Manhattan. He is now with the North Dakota Agricultural college at Fargo.

Few farmers in Kansas can afford to be without a silo. A silo will cost from \$200 to \$500, depending upon its size and the material from which it is built. There is a greater range in the cost of equipment for filling silos than there is in the cost of the silo itself.

Intensive farmers are finding it more economical to use one of the small-sized cutters and put a smaller amount of silage into the silo each day. This allows time for settling, saves the labor of treading, and in most cases will do away with extra hired help.

In some localities the enclosed, sheet-iron, single-chain, web carrier is taking the place of the blower. Such a carrier and cutter requires about two-thirds as much power for operating as the blower cutter does.

The following table, with exception of cost figures, taken from data found in four recent trade catalogs and representing averages, shows the capacity and power required for different sized cutters:

Size, inches	Horsepower with carrier	Horsepower with blower	Capacity in tons per hour	Approximate cost
14	5½	10¼	9½	\$115
16	8 1-10	12 7-10	13½	135
20	11 1-10	18	18½	155

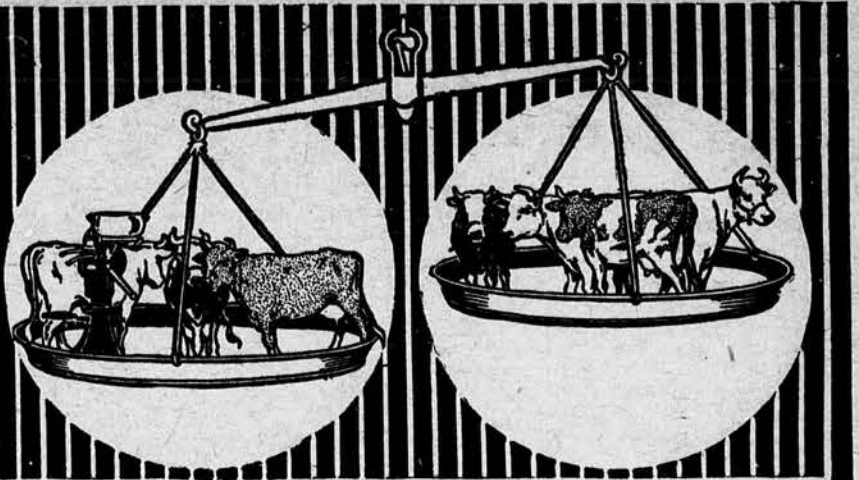
Comparative Cost of Equipment.

If we were to judge by the range in prices paid for gasoline engines we would conclude that there is no such a thing as a standard gas engine. The minimum cost of gasoline engines on skids is about as follows:

Six horsepower	\$150
Eight horsepower	240
Ten horsepower	330
Twelve horsepower	410

From these prices the total cost of equipment for the 14-inch cutter and web carrier is \$265; for the blower equipment and same sized cutter, \$445; 16-inch cutter and web carrier, \$375; 16-inch cutter and blower, \$545. These are minimum prices. They show comparative costs of carrier and blower equipment.

To drain butter well before salting helps the quality of the butter.



Three cows and a DE LAVAL CREAM SEPARATOR

will make more money than four cows with gravity setting

Thousands upon thousands of cow owners have already proved this statement; any experienced dairyman will verify it for you.

With such a big saving it is hard to understand why any cow owner should try to get along without a De Laval Cream Separator.

If you are selling cream or making butter, and have no separator, or else an inferior machine, we know if we could put a De Laval on your place we would be doing you a personal favor.

If you haven't a separator don't make the mistake of starting with a "cheap" or inferior machine. When you do buy a separator—as soon or later you surely will—be sure to get the best—the De Laval.

Remember, you can't make money by trying to save money in the purchase price of a cream separator. A De Laval costs only a little more than the cheapest and will save you twice as much and last five to ten times as long as other separators.

THE DE LAVAL SEPARATOR CO.

NEW YORK CHICAGO SAN FRANCISCO SEATTLE

Farmer Onswon on Cream Separators

Talk No. 2—Close Skimming

I've already told how I saved \$35.00 by buying the high grade Beatrice Separator. But price alone did not control me. I saved the \$35.00 and got every good feature that you get in any separator.

Take the most important point of all, close skimming. My Beatrice gets all the cream.



Time and again I have tested it. I let the skimmed milk stand for 24 or 36 hours, even until it gets to be clabber, and I never find even a trace of cream on it. That's close enough skimming for me.

There are a lot of other important things—easy cleaning, big capacity, durability, etc. I want to take

them up separately. The Beatrice has the advantage on every one of them. Watch for my next talk.

But right here I want to say the Beatrice Separator is a wonder for keeping "always in order." Nothing ever seems to go wrong. And if repairs or extra parts are needed you can get them quick at a much lower price than on other separators.

My advice: Talk to a Beatrice dealer, or write direct to the manufacturer. Address nearest office.

THE CONTINENTAL CREAMERY COMPANY
Topeka, Kansas, Oklahoma City, Okla.

Coming Next Week

Every once in a while somebody takes the floor and tells us how much better off we were in a farming way 25 or 30 years ago in Kansas. You will have a good answer for all pessimists of this kind if you will save the chart that will be published in next week's Mail and Breeze. This chart will show yields and values of Kansas crops and livestock in 1912 and 25 years ago, side by side. You will find the differences more than striking. The chart will be part of an extremely interesting Coburn article on "The Growth of Kansas Agriculture." A splendid article on growing the sorghums by A. H. Leidigh, a Kansas authority on these crops, will be another feature of next week's Mail and Breeze. It will contain timely suggestions for sorghum growers.

BUY HARNESS FROM MAKER—SAVE 1/3 TO 1/2

We Pay Freight

You not only save one-third to one-half when you buy Harness from us, but you get the best Harness in the world; made by expert harness makers, in a splendidly equipped shop, from the best materials money can buy. Every Harness built on honor and sold direct with but one small profit between maker and user. Get our big Harness Book before you buy. Free—Send today. H. & M. Harness Shop, 78 Ill. Av., So. St. Joseph, Mo.



CAPPER BOYS CORN CLUB

Founded 1907



by Arthur Capper

Arthur Bulot lives in Frontenae, Kan., and of course hasn't a whole acre of ground on which to grow his corn but he wants to get into the contest any way. Of course this would rule him out of the acre-yield contest but he can go after a prize in the single-ear division. The boys who live in town are just as welcome as the country boys. They may not know as much about farming, but they will have more time to put on their ground than the farmer boys.

Several boys have written to know if they are to plant a certain kind of corn, and a few have asked if the planting must be done at a specified time. Each boy may select the variety that suits him best, or two of them if he wishes. The time of planting is left entirely to the judgment of the boys for it would be impossible to name a certain time to do the planting that would be suitable for all the boys.

Farmer Martin of Shawnee county, Kansas, not only has his corn planted but it is up. He first plowed his ground shallow—about 4 inches deep, then let it lie that way until time to plant when he put it in with four horses and a lister. He has 7 acres out.

The corn club man is of the opinion that the question about the moisture coming up through a packed surface better than through a loose mulch, was a little too much for most of the boys. The main thing after all is to know that it does it. The "why" of it is not so important but here it is anyway: Every boy knows that a magnet will draw steel. In the same way every particle of earth, no matter how small, attracts water. If these particles of soil are packed close together the water easily gets from one to the other, but if the soil is loose there is more or less space between the particles and very little water will get across from one to another. Does that sound reasonable? Well, you boys who attend high school or college later on, will study the philosophy of it some time. Ralph Allen of Neodesha, Kan., came nearest to hitting it right in his letter. Two other good letters came from Dallas Fogo, Otego, Kan., and Walter Chambers, Pomona, Kan. We are sending each of these boys a package of souvenir post cards for their trouble.

Corn Contest Rules

Any boy under 20 years old may enter the Capper Boys' Corn-growing Contest, for which cash prizes are offered in four states, namely: In Kansas, in Oklahoma, in Nebraska and Missouri. For best acre yield in each state \$50; for champion single ear in each state \$25; for best ear in each state from seed of a boy's own raising \$25.

There is a separate contest for boys in Shawnee county, Kansas, in which \$25 is offered for champion ear in that county, \$15 second prize, \$10 third prize.

All contestants in the Capper Boys' contest are to furnish their seed and must do all the work of preparing the ground and planting and cultivating their crop themselves.

In the acre contest each contestant will keep track of the number of hours' work

performed by himself and his team and be prepared to render a report of the methods he used, on a blank to be sent him at his request before the end of the contest, December 1, 1913. The acre may be a part of a field of corn or a single acre.

Capper Girls' Tomato Club

Some of the girls still think the blanks filled out and sent in will be acknowledged. As has been said before, all that is necessary is to fill out the blank and mail it to this office. If you do not hear from us you may rest assured that your blank was properly filled out and that you have been entered as a full fledged member of the club. Otherwise, you may expect to hear from us.

Bess Clark of Baldwin, Kan., asks if it is fair to buy the plants instead of growing them herself. Yes, this will be entirely within the rules. Maude Ashton of Holton would like to plant her plot in long rows instead of a square patch 33 feet each way. This is allowable, of course; the main thing is to get the plot the right size. Bess

A Pig For Each Winner

Editor Farmers Mail and Breeze:

Since there are to be two state fairs, I will offer a registered Hampshire pig to the winner of the boys' pig contest at each fair, the one at Topeka and the one at Hutchinson. Tell the boys to write me when they win.

Olathe, Kan., April 11, 1913.

FRANK H. PARKS.

sie Edwards of Seguin asks for further information concerning the contest. All the rules of the contest are given below and if any of them are not clear we shall be glad to explain them more fully to anyone who asks.

It will soon be time to set out the plants, in fact the tomato club man put out his first plants April 17. But there were only a few of them so they may be easily protected in case of frost. There is no need of waiting for rain before setting out the plants. As soon as they are large enough, take them up, leaving as much earth clinging to the roots as possible. Before planting, puddle the roots in mud thick enough to make it stick, and the plants will keep right on growing even if the ground is not wet. It is a good plan to shade each plant the first few days by sticking a shingle down on the south side of it. Pieces of cardboard cut about 6 by 8 or 10 inches also are good. Bend each one lengthwise in the middle and stick it deep in the soil so the wind will not blow it away.

TOMATO CONTEST RULES.

Any Kansas girl 10 years old and no more than 18 may become a member of the Capper Girls' Tomato club and contest for the prizes.

Each member is to plant and tend a plot 33 feet each way. The men folks may

plow and harrow the patch to prepare it for plants or seed, but the rest of the work must be done by the contestant. Plants may be bought if desired.

Each member must keep a record of the weight of all tomatoes picked and report the total number of pounds of the entire yield at the end of the contest. Also how the crop was disposed of—both canned and sold—or for home use.

The contest will end October 10, 1913. A blank form of report will be sent to each contestant at the end of the contest.

The member growing the greatest number of pounds of tomatoes on her plot will be awarded first prize, \$25 in gold. The one getting the next largest yield will receive a cash prize of \$15. The third prize is \$10. To insure fairness to all contestants the winning reports will be verified.

To join the Capper Girls' Tomato club and participate in the contest fill out and mail the entrance blank on this page as directed and you will be ready to begin your preparations.

Capper Boys' Swine Club

I believe we ought to make Frank H. Parks, of Olathe, Kan., an honorary member of the Capper Boys Swine Club. I know if it were put to a vote he would be unanimously elected. He has put up a second registered Hampshire pig so that there will be one for the winner at both the Topeka and Hutchinson fairs. How is that for liberality? In his letter making this offer he says: "Since there are to be two fairs, I will offer a registered Hampshire pig to the winner of the boys' pig contest at each fair. Tell the boys to write me when they win."

Ivan Russell of Sedgwick, Kan., weighed his pig on April 1 and it tipped the scales at 24 pounds. "I was lucky to get my O. I. C. pig on March 1," writes Ivan, "and I have been mak-

ing a prize pig of him ever since. I weighed the pigs April 1 and two of them weighed 24 pounds each. I am in the contest to win if a good pig and good care will do it." There is plenty of time yet to select a pig farrowed on or after March 1 and get into the contest.

SWINE CONTEST RULES.

To be eligible to enter the Capper Boys' Pig Contest at the Kansas State Fair (Topeka or Hutchinson) a boy must be 20 years of age or under March 1, 1913. He must own and feed his pig. The pig must be purebred, eligible to record, the sire and dam being recorded in the proper record association, and be of one of the following breeds: Poland China, Berkshire, Duroc-Jersey, O. I. C. (Chester White), or Hampshire, and farrowed on or after March 1, 1913, on the home place or land.

The prize will be \$30 in cash—\$15 going to first award, \$10 to the second award and \$5 to third award.

All four of the breeds will compete and the entry may be either a boar pig or a sow pig.

The prizes will be awarded by the regular swine judge or judges of the fair. Pigs shown in the regular classes at the fairs will be eligible to this class.

To join the Capper Boys' Swine club and to enter the contest all you have to do is to fill out and mail the entrance blank on this page as directed and you are ready to begin when you get your pig.

"Horse, Truck, and Tractor."

This is the title of a new book written particularly for horse owners, though all farmers will find it interesting if not useful. The book presents some startling facts in regard to the horse industry and the comparative expense of horse-farming as compared to the new motor farming. It advocates the displacing of horses by motors and trucks as an economical move, presenting facts to prove that it would be an economy. L. W. Ellis, formerly of the U. S. department of agriculture, but now with the Rumely company, is one of the authors. The book sells at \$1.50 per copy net, and may be had by addressing the publisher, F. G. Browne, 1575 Transportation Building, Chicago.

I think Farmers Mail and Breeze is the best farm paper in the world.—G. A. Hawkins, Winfield, Cowley county, Kans.

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You can examine the "STANDARD" at your dealer's—take it home and try it if you like, without the slightest obligation to buy. Our Money Back Guarantee protects you always. Write for Catalog Standard Separator Co. 322 Poreles Bldg. Milwaukee, Wis.

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This Blank Enters You in the Contest

ARTHUR CAPPER, 800 JACKSON STREET, TOPEKA, KAN

Please enter me in the Boys' Corn Growing contest, Boys' Swine contest, Girls' Tomato Growing contest.

(Draw a line through the contest you do not wish to enter.)

My name is.....

P. O. or R. F. D.

State

My age is.....

Properly filled and mailed as directed, this blank entitles the signer to the full benefits of the club and contest, without further notice or formality.

Clean Your Sorghum Seed

IT WILL MEAN MUCH.

[Written for Farmers Mail and Breeze.]

A GREAT per cent of the sorghum seed that will be used this year will be taken from the bin and planted. When this is done it is necessary to observe many precautions if a good yield is desired. One is to remove the seed from the bin immediately and grade it carefully in the best fanning mill obtainable.

The seed should then be treated for smut, for on almost every farm where Kafir and other sorghums are grown, there is some sorghum smut, often enough to destroy as much as 10 to 25 per cent of the crop.

After the smut treatment the seed should be tested for germination in order to avoid planting seed with low germinating power and low vitality.

When the seed is run through the fanning mill at least one-half to two-thirds of the seed, consisting of the lighter kernels and chaff should be discarded, leaving one-half to one-third for planting. This should then be treated for smut. Milo is the only sorghum not troubled by smut and need not be treated.

Simplest Way to Kill Smut.

The simplest treatment consists of soaking the seed in a solution of formalin, composed of 1 pound of formalin to 30 gallons of water. (The formalin may be secured at the local drug store in pound bottles at a cost of 50 to 75 cents per bottle. It should be a guaranteed 40 per cent solution.) The seed should be immersed in this solution for about one hour. This is easily done by mixing the solution in a barrel or tub and suspending the seed in the solution by means of gunny sacks. The gunny sacks should not be more than half full so the seed can be loose in the sack and can be stirred by moving the sack up and down in the solution. After the seed has been soaked for one hour the sack should be removed and the seed spread out on a clean floor or canvas to dry.

The treatment will not injure the germination of the seed if directions are followed. The seed should always be tested for germination before planting, however, so that if the germination is poor for any reason either the quantity of seed sown can be increased, or the seed discarded and better seed obtained.

Hot Water Is Just As Good.

For those who do not want to use the formalin treatment, the so-called hot water treatment is just as good. A little more care must be exercised in its use, however. A good Fahrenheit thermometer, a barrel or tub, pail, gunny sack and hot and cold water are necessary. Hot water is poured into the barrel or tub and then cold water is added until the temperature is 137 degrees. The seed is placed in gunny sacks, in wire baskets or in tin pails with bottoms perforated with numerous holes. The sacks or other vessels should never be more than half full. These are then immersed in the warm water for 10 to 12 minutes, being moved up and down so that every kernel becomes equally heated. The heat will kill the smut spores clinging to the seed but will not injure the seed if care is taken to keep the water at a uniform temperature of 134 to 140 degrees all the time. It can be kept at this temperature by pouring in hot or cold water as necessary and stirring constantly. After 12 minutes the sorghum seed is taken out of the water and immediately spread out on a clean floor or canvas to dry. If not spread immediately it should be plunged into cold water to cool it rapidly and then spread out for drying. It can then be planted at any time.

This treatment will not injure the seed, if correctly applied, but a test of germination should always be made to make sure that only good seed is planted.

Head Smut is Different.

The head smut of sorghum is very different from the kernel smut. Its life history is probably similar in some ways to that of the common smut, spores of which are blown around by the wind and lodge in the field or in the barnyard where they rest over the winter. In the spring they germinate and pro-

duce other spores which are again distributed by the wind and falling on corn plants, germinate, grow and cause the formation of large smut masses. No satisfactory methods are known for preventing either the head smut of sorghum or the head smut of corn.

How can good seed be obtained? This question should have been answered in part last fall and the sorghum seed selected in the field before the crop was cut. At that time it is easy to judge which plants are good ones and which are poor and which it is desirable to propagate. Seed selected from these and kept during the winter in a dry place should be of strong vitality this spring.

EDWARD C. JOHNSON.

Kansas Agricultural College, Manhattan.

His Mail and Breeze Scrapbook

Mr. Editor—Have been a reader of the Mail and Breeze for some time and think there is none better. I have a loose leaf note book in which I insert clippings from the Mail and Breeze. I now have a good sized book, each item being placed under a head bearing on that

particular subject. There are 25 or 30 different subjects, each pretty well covered but I manage to find something new in every issue. This book contains lots of valuable information on most any subject of interest to a farmer.

Ordway, Colo.

A. P. Hagen.

Equity Meetings Next Week

Mr. Editor—Farmers Equity union meetings will be held at Pleasant Valley school house, Tuesday night, 7:30 p. m., April 29; Kiowa school house, Wednesday night, 7:30 p. m., April 30; North Star school house, Thursday night, 7:30 p. m., May 1; Fairview school house, Friday night 7:30 p. m., May 2, and there will be a grand Equity Union rally at Bucklin, Ford county, Saturday, May 3, at 2 p. m., preceded by a band concert at 1:45 p. m. The Equity Union is now planted in eight states. It is started at 20 good towns on the Rock Island and at 10 on the Santa Fe. Farmers "stick" in the Equity Union. One hundred fifty are sticking at Liberal, Kan., and prating to themselves over \$7,000 for their patronage. This is a good show-

ing for the first year. We want 200 farmers to trade together at Bucklin and pay back to themselves all the profits on their business. Co-operation puts all the profit into the farmer's pockets instead of the middleman's pocket. It will pay farmers to co-operate. Our great weakness is in our separation. We must unite. "How to Unite the Farmers and Keep Them United" is C. O. Drayton's subject. Hear him at Pleasant Valley school house, April 29, 7:30 p. m.; Kiowa school house, April 30, 7:30 p. m.; North Star school house, May 1, 7:30 p. m.; Fairview school house, May 2, 7:30 p. m., and at the Equity rally at Bucklin, Saturday, May 3, 2 p. m. Bring your family and come early. A large group photograph of the Bucklin gathering will be taken at 2 p. m.

J. P. HUNTER,
D. BIRNEY,
T. L. LANE,

Committee.

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.

No-Rim-Cut Tires 10% Oversize

How Do We Afford Them?

You ask, perhaps, how tires like these can be sold at Goodyear prices.

The utmost in tires—the final result of 14 years of betterments.

Tires that can't rim-cut—tires 10 per cent oversize.

One process alone costs us a million dollars yearly more than processes generally used.

How are such tires—tires that give such mileage—sold as low as Goodyears? Let us tell you.

Our Cost

We are the world's largest tire builders. We build almost as many tires as any other two plants combined.

Our factories are new. Our equipment is modern. We have invented a wealth of labor-saving machinery. We employ efficiency experts.

Our capital cost is exceedingly low, due to small capitalization.

Grade for grade, our cost of making must be far below the rest.

Our Profit

Then our profit is kept at minimum. To assure you of this, every year we advertise our profits.

In times past this profit has averaged a round

8½ per cent, out of which must come the interest on millions of Capital invested.

This year with our reduced prices we do not expect to exceed that.

Those are the reasons why tires like these can be sold at the Goodyear prices.

Lower Prices

Of course tires can be made to cost less. Tires can be sold at half our prices, yet pay a larger profit.

But tire cost means the cost per mile. Goodyears cost far less per mile than any other tire that's built.

The Evidence

This is shown by the fact that Goodyears far outsell the rest, after 2,000,000 have been used.

Our sales last year were larger than the previous 12 years put together.

That's the result of testing these tires on hundreds of thousands of cars. Men have proved enormous savings.

The No-Rim-Cut feature ends rim-cutting completely. The 10 per cent oversize, with the average car, adds 25 per cent to the tire mileage.

You will see these savings clearly when you test these tires.

Write for the Goodyear Tire Book—14th-year edition. It tells all known ways to economize on tires.

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No-Rim-Cut Tires
With or Without Non-Skid Treads

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(1082)



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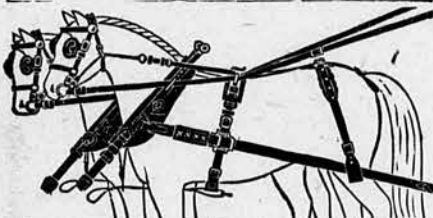
It's handy, easy to run and of light weight. It does the work of a dozen horses—goes where a single team can go and brings money back with it.

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Ask for GasPull Data-Book, No. 352, and the name of our nearest dealer.

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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.

To keep rid of weeds kill them before they come up.

Rich, well drained, and well worked soil is the kind that makes tomatoes thrive.

If the grape arbor needs rebuilding, the job should be done before the vines begin to leaf.

Time to plant sweet corn. Plant a row or two every two weeks until July and have roasting ears all summer.

Sweet potatoes are a warm weather crop and the plants will not do much growing until the ground is thoroughly warmed up.

Cabbage and celery are the best crops for the lowest ground in the garden. Corn, beans and peas will do better on high ground.

We have found the best place to grow melons, cantaloupes, and cucumbers is around old straw stacks.—J. A. Voth, Kremlin, Okla.

To get a good stand of celery plants scatter the seeds on the surface and cover with boards until sprouted. Then sift a little earth over them.

Old hay is better than straw for mulching in at least one respect. There is no grain in the hay to sprout and take possession of the potato patch.

A hard crust on the potato patch will mean a poor stand. Better break it up with the harrow so the plants can get through. Harrowing won't hurt the plants even if well started.

For Early Celery Plants.

Mr. Editor—A good way to start celery plants is to sift some rich loam into a shallow box, sow the seed then sift 1/2 inch of earth on top. Lay two or three thicknesses of newspaper over the box and pour on some warm water. Repeat this every morning for two or three days, but do not have the water as hot as the first time. I have had good success in raising the plants this way.

Alice Secoy.
Toronto, Kan.

Long Wide Rows Make Less Work.

Mr. Editor—We plant nearly everything in our garden in long rows, nearly as wide as corn rows so we can work the different vegetables with a horse cultivator. Our peas, beans, beets, cabbage, tomatoes, potatoes, etc. are all planted this way and only the radishes, onions, and lettuce are put in beds to be tended with a hoe. I usually go over the garden after each cultivation to straighten up the plants that have been covered and get what weeds escaped the cultivator. By cultivating frequently the moisture is kept from drying out. I find the vegetables will grow much larger and better when tended in this way.

Mrs. C. R. Cramer.

R. 1, Parsons, Kan.

A Good Living From the Garden.

[Prize Letter.]

Mr. Editor—With the exception of our seed potatoes I think a dollar would cover the whole seed bill of our 1912 garden. Tomato seed was planted in shallow boxes the latter part of February. The earth in the boxes was kept warm and moist by laying a cloth over the top. When the tiny shoots began to appear the boxes were set in the sun and how the plants did grow! Cabbage and celery seed were sown in the same way the middle of March.

The tomato plants had to be reset twice before we were able to set them out in the garden permanently. On April 26 we set out some of the thriest and by the middle of July began picking ripe tomatoes, and kept picking them

till frost. We had about 75 plants out and from them we sold about 5 bushels, canned 40 quarts, and made 5 gallons of tomato butter and yellow "pear" preserves, besides putting up green tomato preserves and pickles. We kept the vines trimmed back to two or three main stalks and kept the ground well worked.

We planted potatoes April 20 and set out the cabbage plants May 1. On July 4 we had cabbage slaw and new potatoes for dinner. We planted a bushel of Early Ohio and are not yet out of potatoes. We had lettuce, radishes, beets, and beans in abundance. A good supply was put up for winter use. Two or three plantings of sweet corn furnished a long season of roasting ears, besides what was put away for winter use. From less than a dozen hills of cucumbers I put up 10 gallons of pickles, besides eating them fresh all season.

We had to fight all kinds of insects all spring and summer and in spite of everything the bugs took our squashes. But a flock of White Holland turkeys helped us out with the grasshoppers.

Our truck patch was 50 feet wide by about 250 feet long and part of it is set to young fruit trees and berries. We did not depend altogether on the rain for moisture as we have a small reservoir from which we irrigated whenever necessary. It was all hard work but it paid and we hope to do even better this year. With a good garden, a few dozen chickens, a flock of turkeys and four or five good cows, a good living on the farm is assured.

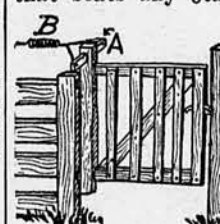
Meade County Farmer's Wife.

Fowler, Kan.

A Self-Closing Garden Gate.

[Prize Letter.]

Mr. Editor—I have a self-closing gate that beats any other I have ever seen.



A cross piece is put through the upright on the inner side as shown and a wire or small chain leads from each end to a coil spring from a binder or mower. This spring is wired back to the second post in the fence. This gate will swing either way but will also close from either side. If pulled back as far as it will go it will remain open.

Selden, Kan. Henry Westerman.

Uncle Sam's Cutworm Poison

One of the worst garden as well as field pests we have to fight is the cutworm. He will soon be around again for his annual toll on crops which amounts to thousands of dollars each year. The U. S. department of agriculture recommends a poisoned bait but this can be used only where poultry and other farm stock can be kept away from the poison. This is the formula:

"Take a bushel of dry bran, add 1 pound of arsenic or paris green, and mix it thoroughly into a mash with 8 gallons of water, in which has been stirred 1/2 gallon of sorghum, or other cheap molasses. After the mash has stood several hours, scatter it in lumps of about the size of a marble, over the fields where injury is beginning to appear and about the bases of the plants set out. Apply late in the day so as to place the poison about the plants over night, which is the time when the cutworms are active. Apply a second time if necessary. Clean cultural methods and rotation of crops are advisable, in combatting cutworms, also fall plowing and disking. Many cutworms can be destroyed where it is possible to overflow the fields. This is particularly applicable where irrigation is practiced."

A Help Up in the Ozarks.

Mr. Editor—We feel that as long as we live on the farm we cannot do without the Mail and Breeze, which we have taken for a long time and greatly enjoy. If you wish a letter from the Ozarks once in a while I should be glad to let you have it, so others will know of the progress of this country.

Mountain View, Mo. C. C. Miller.

It is now predicted that ships will be passed through the Panama canal by October 1.

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11 1/2 cts. a rod for a 26 in. high fence; 17 1/2 cts. a rod for 47 inch high stock fence; 28 1/2 cts. a rod for a 60-inch heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barb wire, 60 rod spool, \$1.55. Catalog free. INTERLOCKING FENCE CO. BOX 25 MORTON, ILLINOIS

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—he has not, drop us a line and we will send circulars and prices. Clipper Lawn Mower Co. Box 10, Dixon, Ill.

Growing a Crop of Sweet Potatoes

GROWERS' METHODS.

[Prize Letter.]

Ground for sweet potatoes should be plowed early so it may be well pulverized. A lister is a good tool to make the ridges. I throw them up then go over them with a sled 2 feet wide to level them down and pack the soil ready for setting the plants. A team is hitched to the sled and the driver rides.

The last four years I have dispensed with a hotbed altogether in starting the plants. When danger of freezing is past I throw up a bed of sandy loam where the ground is well drained and plant the potatoes in the bed 1/2 inch apart. I prefer a rich, loose soil to cover them and put on 2 or 3 inches. If there is not sufficient moisture from rains I sprinkle them. In case of cold, heavy rains the bed should be covered.

Experience has taught me that May 10 is early enough to set out the plants here and I have always had plants large enough by that time. I set plants out last year when it was so dry there seemed no hope they would live but very few died. The ground between the rows should be kept stirred to keep it from getting dry and hard, and to keep out weeds. The hoe must also be freely used. After the vines cover the ground they will usually take care of the weeds.

My crop last year made 10 bushels for every 1,000 plants while in 1910 the same number of plants averaged 20 bushels.

Pryor, Okla. A. H. Miner.

Good Results From Mulching.

[Prize Letter.]

Mr. Editor—Last year we planted our last sweet potato plants in June. This planting was made on our mulched potato patch where the Irish potato vines had already begun to dry off. These plants turned out far better than those planted on unmulched ground. The runners did not root in the straw as they do on bare ground, the potatoes were much larger and smoother, and they were not stringy like the others. I have also set out tomato plants between mulched potato rows and they made a good crop. I have found that sweet potato runners may be cut off at the ends and planted the same as slips. Cut them off about 3 or 4 inches as soon as the runners are formed. They are just as good in every respect as other plants and you can more than double the number by doing this.

Mrs. A. J. Regier.

Renfrow, Okla.

Plowing and Later Cultivation.

[Prize Letter.]

Mr. Editor—I plow deep and early and make the ridges two or three weeks before time to set out the plants, smoothing off the tops with a garden rake. I make the ridges with three horses and a 16-inch plow, running them north and south. The plants are set about 18 inches apart. When the ridges get weedy I take a cultivator and throw the earth from the plants, leaving a narrow ridge on top where the plants stand. This is cleaned by hand and left so the sun has a chance at the roots. When weeds come on again the vines are thrown over to one side and the earth thrown back with a small plow and again clean the top by hand. The vines are then twisted along the row to let the sun at the ridge.

Leanna, Kan. A. D. Reed.

A Knack in Bedding the Seed.

[Prize Letter.]

Mr. Editor—I use an ordinary hotbed such as has been described in the Mail and Breeze, for bedding sweet potatoes for slips. I do not bed the potatoes until the weather has warmed up. Potatoes an inch or more in diameter make the best slips. The potatoes are laid close together and just covered with fine soil. Then I put on 4 inches of sand, the last inch being quite coarse. The sand prevents the surface from crusting after watering the bed and also causes the slips to throw out more roots in search of food.

Sulphur, Okla. Charles R. Hill.

Trellised Vines Yielded Better.

Mr. Editor—I became convinced years ago that better sweet potatoes could be grown if the runners could be kept from rooting. Last year I trained part of my vines up on trellis supports and let

the others grow in the regular way. The former yielded enough better to pay for the lumber and time used in making the trellis.

James F. Stone.

Fort Dodge, Kan.

Soil Analysis By Microscope

Certain soils in Georgia and elsewhere could not be tilled because in working them the feet of both horses and farmers became sore. A chemical analysis of the soil failed to reveal the trouble, but a mineralogical analysis showed it to be a small, sharp glass-like sand.

It is probable that soil analysis by the chemical method, which often requires days, will give place in future to mineralogical analysis that may be completed in an hour or less. A chemical analysis shows only what chemical elements are present. The other not only shows this but the mineral elements and the form in which they are combined. This is important, as it indicates what material the plant may extract from the soil. When the minerals of a soil are known, its chemical composition also is known. A so-called petrographic microscope is used for the purpose of making a mineral analysis of soils. The subject is treated in Bulletin No. 91, recently issued by the bureau of soils, U. S. Dept. of Agriculture.

To Find Weak Spots in Schools

A survey of Kansas schools by counties to locate the weak spots, is one of the plans of the new state superintendent, W. D. Ross, a Kansas teacher of experience. There are many weak school districts which cannot employ high-grade teachers and cannot have anything more than a "box" schoolhouse and must get along without a library or other school equipment. The survey is to locate all of these weak places in every county, find out just where the weakness is and the cause. Then something definite can be done through the legislature to bring them up to a standard.

The state superintendent proposes to increase the quality of the school buildings, the amount of school equipment, the length of time of the school work and the salary of the teachers. All of those entered into the efficiency of the school work of the state.

The Hamburgs Shelled Out.

Mr. Editor—I have renewed my subscription to the Mail and Breeze, for it is the best farm paper in the West. I like the poultry department in particular and want to give you the egg record of a pen of four Silver Spangled Hamburg pullets. These four pullets laid 97 eggs in January and 88 in February. The first thing they had in the morning was warm water, then some wheat and Kafir thrown into a litter. At noon I gave them meat scraps or crushed bone, and at night whole corn. I have a hopper of cracked wheat, cracked Kafir, cracked corn and a little linseed meal before them all the time. They also have free access to alfalfa hay.

Pratt, Kan.

W. J. Cook.



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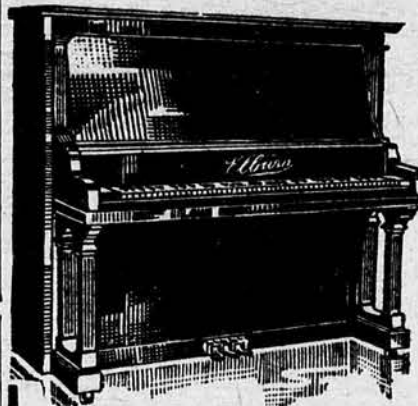
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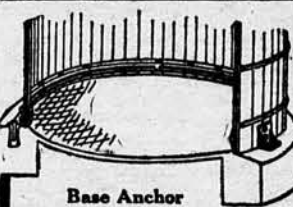
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Central National Mutual, Topeka, Kansas	5,644	14,135	2.50
Kansas Mutual Hail, Sterling, Kansas	2,432	7,376	2.98
Home Mutual Hail, Wichita, Kansas	2,790	6,192	2.21
Grain Growers Hail, Topeka, Kansas	5,000	9,000	1.80
Harvesters Mutual Hail, Osage City, Kansas	2,130	5,747	2.69
State Farmers Mutual Hail, Waseca, Minn.	194,967	55,818	.29

Jan. 1, 1913, all six Kansas Cos. had but \$22,000 in cash assets combined. Jan. 1, 1913, the Waseca Co. had \$165,521 in cash assets and \$351,234 in additional assets, our total net assets being \$516,755. 1-4 cheaper, yet incomparably Better and Safer Insurance.

The Waseca Company is the oldest and strongest hail company in the United States. In eighteen years it has never pro-rated a loss. We have paid over \$60,000 in losses to Kansas Farmers (send for list) and will pay \$1,000 for proof that a single loss was not paid in full as adjusted. In disastrous years we pay while others pro-rate.

SPECIAL NOTICE.—Losses this year will be paid in cash in full at time of adjustment immediately following the storm the same as by Stock Companies. Our rates are the cash rates of the Stock Companies in your county less one-fourth or 25 per cent. Insure today before your neighbor secures the preference, as we write but \$1600 in a section. Cut out and mail application at once.

This Company is absolutely dependable.—Farmers Nat'l Bank, Waseca, Minn.

Your Premium will be returned at once if Policy is not satisfactory

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I hereby apply for membership and indemnity in accordance with the by-laws and rules of the Company against loss or damage of the following described crops by hail, commencing with issuance of policy and ending September 15, 1913.

\$.....on.....acres of wheat on S.....T.....R.....

\$.....on.....acres of.....on S.....T.....R.....

\$.....Total Ins. all situated in.....Co.,

Kansas, and diagrammed as follows:

Sec.....Sec.....

Twp.....Twp.....

Rge.....Rge.....

I enclose herewith \$.....in full payment of premium, being three-fourths of the rate charged by capital stock Ins. Cos. in this county.

It is understood that upon receipt of the policy if it is not satisfactory to me in every respect that I may at once return same to the Company by registered mail in which case this premium remittance will be returned to me in full.

Name.....P.O.....Kans.
Use pencil and mail TODAY to State Farmers Mutual Hail Ins. Co., Waseca, Minnesota

CROPS and FARM WORK

Farm Operations Well Up With the Season Due to a Stretch of Fine Spring Weather—Corn Planting Under Way—Grass and Wheat Responding Nobly to the Growing Weather—Condition of Wheat Exceeds 10-Year Average

(Crop Reporting Service of Farmers Mail and Breeze.)

A 10-day stretch of almost perfect spring weather has enabled farm folks to put in some good ticks toward catching up with the season. Oats are all in, gardens and potatoes planted, and corn planting is now proceeding. The warm weather has brought out grass and pastures and G. W. Kiblinger of Anderson county, Kansas, says the first alfalfa harvest will be ready by May 1. Bottom land pasture is furnishing plenty of grass for cows, according to E. L. Griffith of Lyon county.

Contrary to reports last week, southwestern Kansas seems to have been slighted in the general rains of week before last. Rain is badly needed at least as far east as Reno county and farmers in some sections will plant no corn until rain comes. Wheat is still making excellent headway. The swarm of chinch bugs during the warm days of last week was an unpleasant reminder of what might happen later on but there's no use crying before we're hit.

According to the government's crop reporting service winter wheat on April 1 showed a condition of 91.6 per cent the country over as against 80.6 per cent on April 1, 1912, 83.3 per cent on April 1, 1911, and 83.6 per cent as the average condition of April 1 for the last 10 years. The following table shows the condition of growing wheat in Mail and Breeze states on April 1 of this year and 1912 as compared with the 10-year average:

State	April 1, 1913	April 1, 1912	Ten-year average
Iowa	90	91	90
Missouri	93	76	86
Kansas	90	85	86
Nebraska	92	83	89
Oklahoma	94	82	82

KANSAS.

Pottawatomie County—Oat sowing finished. Farmers cutting stalks and some have begun listing. Ground in fine condition for corn planting. Hogs of all ages scarce.—S. L. Knapp, April 18.

Franklin County—Wheat in excellent condition. Unusually large acreage of oats sown. Some farmers have just finished. Good demand for horses at high prices. Light crop of pigs.—H. O. Cain, April 19.

Reno County—Wheat fields look better than last year at this time. Very little corn planted yet. Everybody waiting for rain. Wheat is 80 cents but not much left, corn 50. Hogs would be \$8 if there were any.—D. Engelhart, April 18.

Labette County—Farmers well along with their work. Corn planting is in order. Wheat looks good but a few green bugs are present. Oats also look well and present indications point to a good crop. Eggs 15 cents, butter 25.—Wilbert Hart, April 19.

Washington County—Rain kept farmers out of fields nearly all last week. Lot of oats still being sown. Some gardens up and growing fine. Others just being planted. Wheat looks fine and pastures and alfalfa greening up.—Mrs. H. A. Birdsley, April 16.

Marshall County—Wheat is fine and shows a 100 per cent stand. Oat sowing about finished. Some will be late but ground is in good condition and seed will be up in a few days. Good show for first alfalfa crop. Corn planting will begin next week.—Frank Stettinich, April 17.

Jackson County—Weather warm this week, is making grass and gardens grow. Wheat looking well. Oats about all sown. Fall seeding of alfalfa looking well. All stock high. Milk cows bring \$50 to \$100. Hogs \$8.50 to \$8.75, wheat 80 cents, corn 50.—F. O. Grubbs, April 16.

Clark County—Nice rain April 8 which was badly needed. Oat sowing about finished and early sowings are up. Wheat is in splendid condition and growing fast. Pastures greening up. Stock is in good shape and high. Corn 50 cents, Kafir and milo 40.—W. E. Theander, April 12.

Hodgeman County—Had 1/4 inch of rain last week but need more. Some wheat ground blowing but most of it is all right. About same acreage of spring crops being put out. Lots of feed left over. Stock in

fine condition and selling high. Hogs scarce.—E. N. Myler, April 15.

Ford County—Good rain in northeast part of county April 18. Wheat has made some growth in spite of continued dry weather. Most oats and barley up and looking fairly well. Farmers disking for corn and feed crops. Most corn land too dry. Pastures will be no good until it rains.—John Zurbuchen, April 19.

Lincoln County—Fine growing weather. Corn shows a good stand. Cotton being planted. Alfalfa nearly ready to cut. Peaches will be a failure but apples promise a full crop. The business men of Chandler gave away 100 bushels of Kafir seed today and the affair drew an immense crowd.—J. B. Pomeroy, April 19.

Lyon County—Wheat and oats growing fast and looking good. Ground in good condition to plow and disk for corn. No corn planted yet. Pasture growing fast. Plenty of bottom land grass now to turn cows on. Chinch bugs were thick in the air April 16 to 17. They seemed to have blown here from other parts.—E. R. Griffith, April 19.

Anderson County—Wheat never looked finer at this time of year. Oats up to a good stand. A good rain would help shove things along. Ground in fine condition and corn planting began April 14. Grass of all kinds in fine shape. Alfalfa 6 inches high and will be ready to cut by May 1. Pig crop rather light.—G. W. Kiblinger, April 18.

Morris County—Everyone busy since the rain to make up for lost time. Ground works fine. Alfalfa starting off luxuriantly. Chinch bugs flying thick some days. Grass coming on rapidly and at the present rate pasture will be extra good by May 1. Plenty of corn in the country at 50 cents. Butter fat 32 cents, eggs 15.—J. R. Henry, April 19.

Seward County—Weather unusually dry for four weeks. Extremes of heat and cold following each other. Had 1/4 inch rain April 8. Ground blowing badly in sand hills. Wheat and barley show poor stand. All stock unusually high except young horses and mules. Milo, Kafir, and corn 38 cents each, eggs 12, butter fat 29.—J. W. Rosson, April 17.

Phillips County—Wheat in fine condition. Farmers are disking and getting ready for listing. Alfalfa starting briskly. Potatoes nearly all planted. Peach trees in bloom. Stock in fine shape and much feed left over. More farmers have hired hands than usual. Altogether a good year is in prospect. Hogs \$8.60, butter fat 32 cents, eggs 13.—N. E. Schneider, April 19.

Woodson County—Weather has been hot but is a little cooler today. Quite a lot of corn planted. Oats up and looking fine but need a good shower. High winds have taken moisture out of ground. Chinch bugs swarmed during the warm days. Feed is high. Grass growing slowly. Corn 60 cents, eggs 14, cream 30, hay \$6 to \$8, hogs \$8.—E. F. Opperman, April 18.

Logan County—Early sown wheat looks well; late sowings not much good. Acreage small. Acreage of early spring crops also short and look as though thistles would get them. Farmers paying more attention to milo, corn and cane. Many farmers talking silos. More stock is the only salvation of this country. Butter fat 31 cents, eggs 13.—A. O. Brooking, April 19.

Gray County—Early sown wheat looking well especially on early plowing. Late sowings not as good. Too dry for oats and barley. Need rain to germinate the seed. Sub-surface in good shape. Large acreage of Kafir and cane to be put out. Many sales and livestock sells high. Farmers coming in from eastern counties, many of whom are settling along the new railroad. Corn 40 cents, oats 35 to 40, eggs 13, butter fat 29.—A. E. Alexander, April 19.

OKLAHOMA.

McClain County—Nice weather for farming. Corn coming up. Some cotton being planted. Large acreage of Kafir to be put out. Corn 45 cents, eggs 12 1/2, butter 25.—Floyd Harmon, April 16.

Clay County—Wheat is fine and at least two weeks earlier than usual. Oats showing up well. Farmers busy disking corn land. Many will begin planting next week. Chinch bugs were flying thick during the warm days this week.—H. H. Wright, April 19.

Pottawatomie County—Weather fine for corn planting and nearly everyone has finished. Some cotton planted. Oats and alfalfa looking fine. Had a 1/4-inch rain April 7 but need more. Potatoes coming up to a good stand. Feed plentiful.—L. J. Devore, April 19.

Texas County—Wheat, oats and barley looking fine in spite of the dry weather. Good deal of double listing and blank listing done for corn. Some corn planted. Farmers have done excellent work in burning thistles. Some farmers just moving

into county and will still put out spring crops. Some young grasshoppers with us already. Wheat 76 cents, corn 40, eggs 12, hogs \$8.—Frank Free, April 19.

Alfalfa County—Need rain badly here as wheat is suffering. Corn planting begun. Grass starting slowly. Cold spell of April 10 did considerable damage to fruit. Milk cows high and stock cattle bring all they are worth. Not many fat hogs.—J. W. Lyon, April 17.

Caddo County—Weather fine and soil is in good condition. Wheat never looked better. Corn planting in order. Oats a little late on account of cold spell in March. Fine rain April 7. Peach and apple trees look promising. Stock in good condition.—S. A. Gilmore, April 19.

Tillman County—Wheat and oats need rain badly. Corn coming up. Cotton planting will begin about May 1. Some Kafir being planted now. Milo shows a poor stand on tight land. Several silos to be put up here this summer. Gardens are up. Hogs \$8, cream 30 cents, eggs 14.—E. T. Austin, April 19.

Choctaw County—Weather warm. Corn is up but looks bad since frost of last week. Everybody busy planting cotton. The acreage will be the largest ever planted by a third. Oats doing well now but were damaged by hail and cold weather three weeks ago. Fruit was also damaged by hail. No spring pigs.—J. W. Jones, April 18.

Woods County—Wheat in good condition but needs rain. Oats and barley will soon suffer for want of moisture. Corn planted. Only light acreage of broomcorn to be planted. No Kafir put out yet. Cattle were put on grass April 15. Milk cows bring from \$50 to \$100, mules from \$225 to \$425 per span. Corn 60 cents, wheat 80, hogs \$8.50.—W. C. Douglass, April 18.

Canadian County—Corn planting in progress. Spring alfalfa all sown and is coming up. Plenty of moisture and I believe the subsoil is wet clear down. Wheat looks fine and alfalfa is 6 to 8 inches high. Oats look bad. Stock in good condition with plenty of feed. Cattle (top) \$8.55, hogs (top) \$9.10, alfalfa hay \$11, wheat 78 cents, oats 35, corn 48.—H. J. Earl, April 14.

Finds the Forecasts Accurate.

Mr. Editor—We could not get along without Mail and Breeze. I especially appreciate Foster's weather forecasts. I have found them extremely accurate and prefer them to an almanac. Every page is full of valuable information.

Thomas Rabb.

R. 1, Barnston, Neb.

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Call For Special Report

Under date of Saturday, May 10, we ask each and every crop correspondent on our staff to make a special report on the condition of winter wheat on that date. Give the facts as nearly as you can ascertain them and mail reports in time to reach this office Monday, May 12. First, is the acreage larger or smaller than last season? Second, what is the condition of the crop on the basis of 100 per cent representing a good average condition? Third, what amount has or will be abandoned, and for what reason? Fourth, what is the situation with regard to bugs and flies?

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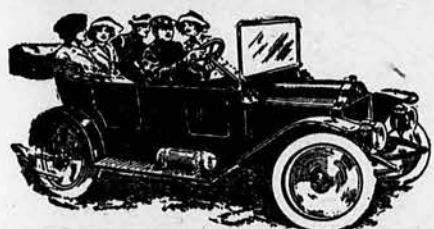
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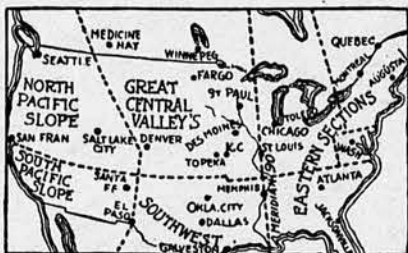


FOSTER'S FORECASTS

(Copyright 1913 by W. T. Foster.)

Washington, D. C., April 26.—Last bulletin gave forecasts of disturbance to cross continent April 26 to 30, warm wave 25 to 29, cool wave 28 to May 2. This disturbance will be of greater than usual force but no very dangerous storms are expected to accompany it. All should be on the alert for this is a year of great storms and we can not always gauge their force. Temperatures will continue to average above and rainfall below normal for the continent and particularly for the great central valleys from the gulf to northern cultivated sections of Canada but in years of great storms the rainfall is often concentrated and it is difficult to locate the limited areas where the heavy and sudden rains will fall. It is always safe to expect temperatures on the Pacific slope and the Atlantic coast to be the reverse of the great central valleys.

Next disturbance will reach Pacific coast about May 2, cross Pacific slope



(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.

by close of 3, great central valleys 4 to 6, eastern sections 7. Warm wave will cross Pacific slope about May 2, great central valleys 4, eastern sections 6. Cool wave will cross Pacific slope about May 5, great central valleys 7, eastern sections 9.

Temperatures will average above normal through the time covered by this disturbance. Force of the storm will be a little above normal till it reaches meridian 90 when it will begin to increase and by the time it reaches Atlantic coast it will begin to be a furious storm. Steamship lines will have trouble with this storm out on the Atlantic not far from May 9. At the same time—May 8 and 9—shipping will meet with a furious storm on our north Pacific coast and for these dates our danger signals will hang out warning all interests on both coasts.

What a Farmer Gets for His Share.

Mr. Editor—A few years ago our agricultural department under the direction of Secretary Wilson made a thorough investigation to determine what per cent of the retail value of his produce the farmer received. The report of this investigation places the farmers' share at 49 per cent, if I am not mistaken. J. J. Hill's system in a like investigation places this per cent at 46. Numerous other authorities that might be cited give figures in between these two extremes, so I assume we shall be perfectly safe to call it 50 per cent. This means that if a farmer in Neosho county drives to town with a load of farm produce that costs the consumer \$100 he is to get one-half of this amount and the "in between fellows" the other half. In your issue of the 5th inst. "Lumberman" thinks this farmer should be cited to the legislature for contempt if he refuses to drive to his yard and hand over to him \$22.00—(44 per cent) of his 50 for helping him on with a load of shingles. In other words, for this \$100 worth of produce (retail value) the farmer gets \$28 worth of shingles, less transportation charges from manufacturer to Neosho county and the other fellows get \$72 plus such charges.

But that is not so bad. A few days ago I sent my daughter to a hardware store for carriage bolts and the merchant charged her 30 cents per dozen for bolts that the despised catalog house of-

fers to sell me for 41 cents per 100. In this case I get \$10 out of the 100 and the "other fellows" get \$90.

But that is not so bad.

A neighbor went to another hardware store and paid 31-3 cents each for cotter pins that the catalog house offers to sell for 59 cents per thousand. Let the Capper boys figure out the farmers' share of this deal.

Northwest Kansas.

N. N. S.

Kansas Fairs in 1913

Following is a list of fairs to be held in Kansas in 1913, their dates, locations and secretaries, as reported to the state board of agriculture and compiled by Secretary F. D. Coburn:

Allen County Agricultural society: F. S. Beattie, secretary, Iola; September 2-5.

Allen county—Moran Agricultural Fair association: G. H. Ford, secretary, Moran; September 17-18.

Barton County Fair association: W. L. Bowersox, secretary, Great Bend; October 7-10.

Brown county—The Hiawatha Fair association: J. D. Weltmer, secretary, Hiawatha; September 23-26.

Butler County Fair association: T. P. Mannion, secretary, Eldorado; September 29-October 3.

Butler county—Douglass Agricultural society: J. A. Clay, secretary, Douglass; September 24-27.

Clay County Fair association: J. W. Nordstrom, secretary, Clay Center; October 7-10.

Clay county—Wakefield Agricultural association: Eugene Elkins, secretary, Wakefield; October 3 and 4.

Cloud County Fair association: W. L. McCarty, secretary, Concordia; September 16-19.

Coffey County Agricultural Fair association: S. D. Weaver, secretary, Burlington; August 25-29.

Cowley county—Eastern Cowley Fair association: Asa Cooper, secretary, Burden.

Cowley County Agricultural & Livestock association: Frank W. Sidle, secretary, Winfield; August 11-14.

Decatur County Fair association: J. R. Correll, secretary, Oberlin; September 3-5.

Dickinson County Fair association: G. C. Anderson, secretary, Abilene; October 1-3.

Douglas County Fair and Agricultural society: C. O. Bowman, secretary, Lawrence; September 23-27.

Elk County Agricultural Fair association: Fred R. Lanter, secretary, Grenola; September 2-4.

Franklin County Agricultural society: J. R. Finley, secretary, Ottawa; September 16-19.

Gray County Agricultural society: Lester Luther, secretary, Cimarron; September 4-5.

Greenwood County Fair association: J. C. Talbot, secretary, Eureka; August 25-28.

Harper county—Anthony Fair association: L. G. Jennings, secretary, Anthony; August 5-8.

Harper County Agricultural association: Chas. H. Simpson, secretary, Harper; September 17-19.

Leavenworth County Fair association: Lucien Rutherford, secretary, Leavenworth; September 2-5.

Lincoln county—Sylvan Grove Fair & Agricultural association: R. W. Wohler, secretary, Sylvan Grove; September 17-19.

Linn County Fair association: C. A. McMullen, secretary, Mound City; September 30-October 3.

McPherson County Agricultural Fair association: Milton Hawkinson, secretary, McPherson; September 9-12.

Mitchell County Agricultural Fair association: E. C. Logan, secretary, Beloit; September 30-October 4.

Montgomery County Fair association: Elliott Irvin, secretary, Coffeyville; September 22-27.

Montgomery County Agricultural society: Chas. Kerr, secretary, Independence.

Nemaha County Fair association: M. R. Connett, secretary, Seneca; September 30-October 3.

Neosho county—Four-County District Agricultural society: Geo. K. Bideau, secretary, Chanute; October 7-10.

Ness County Agricultural association: J. A. Cason, secretary, Ness City; September 3-5.

Norton County Agricultural association: M. F. Garrity, secretary, Norton; August 26-29.

Ottawa County Fair association: J. E. Johnston, secretary, Minneapolis; September 23-26.

Pawnee County Agricultural association: T. C. Wilson, secretary, Larned; September 30-October 3.

Pottawatomie County Agricultural society: J. A. Lister, secretary, Wamego.

Pratt County Fair association: Walter Pedigo, secretary, Pratt; July 28-August 1.

Reno county—Central Kansas Fair association: A. L. Sponsler, secretary, Hutchinson; September 13-21.

Republic County Agricultural association: H. L. Pierce, secretary, Belleville; September 9-12.

Rooks County Fair association: O. A. Higgins, secretary, Stockton; September 2-5.

Russell County Fair association: J. B. Funk, secretary, Russell; October 7-10.

Rush County Agricultural and Fair Association: T. C. Rudicel, secretary, Rush Center; August 20-22.

Shawnee county—Kansas State Fair association: H. L. Cook, secretary, Topeka; September 8-12.

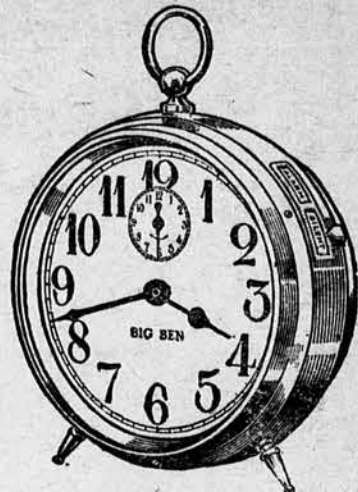
Sherman County Agricultural and Racing association: Wade Warner, secretary, Goodland; August 19-22.

Smith County Fair association: H. C. Smith, secretary, Smith Center; September 2-5.

Stafford County Fair association: R. B. McKay, secretary, St. John; August 26-29.

Fair Dates at Richmond.

A letter to the Mail and Breeze from C. E. Kelsey of Richmond, Franklin county, Kansas, secretary of the Richmond Fair association, announces September 2-3 as the days on which the Richmond fair is to be held next fall.



The Men Who Make Big Ben

About 26 years ago a German clockmaker came from the East to La Salle, Illinois.

His only baggage was an idea—the plan of an automatic process he had invented, and which would make more alarm clocks and better alarm clocks than hand labor could ever hope to turn out.

With the backing of some local merchants and with a handful of clockmakers, a small factory was started on the edge of the town. —Beginnings were hard, competition intense. They weathered storms that would have knocked the fight out of weaker hearted men.

But when success at last came in sight they had built one of the best equipped clock plants in the world and one of the greatest names in the American clock industry—Westclox, La Salle, Illinois.

Big Ben is the ideal of the Westclox people. He is their conception of what a perfect alarm clock should be. He is only two years old, but in this short time 18,000 jewelers—70 per cent. of the total United States number—have already adopted him.

Only the finest materials are used in his making—he is strong, massive and punctual. His face is frank, open, easy to read. His keys, big, handy, easy to wind. He rings steadily for five minutes or intermittently for ten. He calls you every day at any time you say. If you have him oiled every other year, there is no telling how long he will last.

He's sold by 18,000 watchmakers. His price is \$2.50 anywhere in the States, \$3 anywhere in Canada. If you can't find him at your jeweler's, a money order mailed to Westclox, La Salle, Illinois, will send him anywhere you say express prepaid.

Get A Canadian Home In Western Canada's

Free Homestead Area
The Province of Manitoba has several New Homestead Districts that afford rare opportunity to secure 160 Acres of excellent agricultural land FREE.
For Grain Growing and Cattle Raising
This Province has no superior and in profitable agriculture, shows an unbroken record of over a quarter of a century.
Perfect Climate; Good Markets; Railways Convenient; Soil the very best, and social conditions most desirable.
Vacant lands adjacent to Free Homesteads may be purchased and also in the older Districts lands may be bought at reasonable prices.
For Further Particulars, address

Canadian Government Agent
125 W. 9th St.
Kansas City, Mo.

or write Superintendent of Immigration, Ottawa, Canada.

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WOODWORTH TREADS

Woodworth Treads are steel-studded leather tire protectors. They are puncture-proof and one of the best possible anti-skids. They preserve the tire enough to pay much more than their cost. Anyone can easily apply them to any make of tire.

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Young man, learn the Automobile Business. This Book is Free and it is full of money-making information. Tells how to learn all about an automobile so you can repair any make of automobile and drive any car on the market. Lots of good positions open as repairmen, salesmen or drivers. Pay \$75.00 a month up. Only 6 weeks time required. Send Your Name Today, and we will mail you this big free illustrated book which will tell you how to qualify in a few weeks' time for a good job or business. Automobile Training School 1165 Locust St., Kansas City, Mo.



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 eagle is the bird to soar.
The hawk is king of the woods;
The mocking bird can sing the score.
But the hen delivers the goods.

Leghorns make poor sitters.

The fresh egg is best for hatching.

Little and often should be the feeding rule with chicks.

A cheese box makes an excellent hover for a homemade brooder.

In case eggs need washing, a dip in lime water will remove the "shine."

A good grain mash to push broilers is made of 1 bushel each of cornmeal, wheat middlings, and ground oats, mois-

Tells Why Chicks Die

J. C. Reefer, the poultry expert of 1828 Main St., Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhea and How to Cure It." This remarkable book contains some new scientific facts on white diarrhea and tells how to prepare a simple solution that cures this terrible disease over night; everyone interested in poultry should certainly write Mr. Reefer for one of these free books.

The Fostoria Incubator

This incubator has been thoroughly tested in the hands of users and has proved its superiority. It is made of the best redwood lumber and is worth the price. It has a double acting regulator that acts quickly, surely and always. Equipped with Tycos thermometer, the best made. It requires less oil. A special feature is the alarm which makes care of the machine easier and is another check on the temperature. No, it isn't fool proof, but if handled according to simple instructions it will hatch the hatchable eggs. Find out all about the incubator made in the good state of Kansas. Two sizes, 150 and 200 eggs. 30 or 60 days' trial. Money back if not satisfied. Send for the free catalog.

FOSTORIA INCUBATOR COMPANY,
B Street, FOSTORIA, KANSAS.

tened with skim milk. After 4 or 5 weeks old increase the cornmeal.

Analysts have found that white eggs contain more fat and less protein than brown eggs.

Cresol in water makes one of the best disinfectants and sprays to use in poultry quarters.

An elevation with natural drainage and a porous soil, is an ideal location for a poultry run.

A smooth wire stretched 5 or 6 inches above the board or picket fence will prevent birds flying over it.

An Experience Like Mr. Hatch's.

Mr. Editor—Mr. Hatch's account of his chickens dying suddenly in large numbers with apparently no symptoms of sickness, recalls several such experiences of mine. It always happened within two days after plowing up the garden and I have always believed the hens ate something in the freshly plowed ground—either some poisonous growth, or some insects or insects' eggs. I wonder if this was not the trouble in the case Mr. Hatch tells of.

Mrs. W. C. Clark.

Shadeland, Tex.

First Care of the New Hatch.

[Prize Letter.]

Mr. Editor—I warm up my brooder, cover the floor with papers, and then fumigate it with sulphur before putting in the chicks. When 48 hours old they have their first feed of a mixture of fine cornmeal, a little salt and pepper, some Hess's poultry food, dampened and mixed with shorts until perfectly dry. I keep a box in front of the brooder door in which feed, water, and sand are kept and the chicks are allowed to run in and out as they please. I wrap a little asafetida in a cloth and tie it

in the drinking water to ward off disease. Brooders are cleaned twice a day and water fountains scalded every morning. I used to lose hundreds of chicks with bowel trouble but am no longer bothered with it.

Mrs. Maggie E. Adams.

Norwich, Kan.

Believes Salt Saved the Chickens.

Mr. Editor—I read the account in the "Farm Doin's" page telling of chickens dying suddenly. I had a somewhat similar experience. One morning in February I found five of my hens dead. The next morning three more were dead, and the third morning I found nine dead ones. By chance I happened to read a paragraph in a poultry paper which said that when chickens dropped off the roost dead, their combs and gills purple, it was the result of kidney trouble. This the paper said was a sure indication the chickens should have more salt. The paper advised setting out a bucket of water with a handful of salt in it. I did this and lost no more chickens. I now make it a rule to put out a bucket of water with salt in it, once a week. My neighbors and friends who have tried this treatment have had the same results as I and lost no more chickens.

Mrs. P. P.

Pomona, Kan.

[The salt remedy is new to the Mail and Breeze staff of poultrymen but we trust it may do all Mrs. P. claims for it. Salt given to poultry at all should be given in small quantities as an overdose is fatal.—Ed.]

Raising the Whole Hatch

A READERS DISCUSSION

Mr. Editor—Last winter we started out with a breeding pen of nine hens and two cockerels. From this mating we raised 725 chicks between January 1 and August 1, 1912. These were all sold last fall. During this period our hatches made a general average of 95 per cent. Nearly every egg was fertile and the chicks strong and healthy. We believe these good results were caused directly by the way we handled our breeding pen. The males alternated in the pen every other day.

Bert McDonald.

Blue Jacket, Okla.

Feeds Prevent Bowel Ills.

[Prize Letter.]

Mr. Editor—The last two years I have hatched and raised hundreds of chicks and have not lost one through diarrhea. I attribute this to the methods of feeding. I give them nothing at all until 48 hours after the last chick is out, then I give them only dry feeds such as bread crumbs, corn chop, and a feed of bran about every other day. I feed them four times a day until a week or 10 days old, when three times is enough. I do not wet the feed under any circumstances. I always keep plenty of fresh water before them, also sand and broken crockery pounded up fine. It is to the dry feed and plenty of grit that I lay my success. My favorite feed for older chicks is Kafir.

Stroud, Okla.

F. I. Richards.

Too Much Pampering Not Good.

[Prize Letter.]

Mr. Editor—It is amusing to read of the many different ways in which people raise their chicks. Some go to a lot of trouble boiling eggs, baking corn bread, mixing corn meal and water, etc. I try to imitate the feed they would have in the wild state as nearly as possible, but always keep them tame. Did you ever hear of young quail or prairie chicken having all those dopes fixed up for them?

As soon as the chicks are old enough to pick up grain, which is about 30 hours from the time they are hatched, I begin feeding cracked wheat. Years before I heard of commercial chick food I cracked wheat for the chicks in a coffee mill. Grit and drinking water are always handy for the chicks.

It is very seldom that I have a sick chick. I believe that much of the bowel trouble and other ills are caused by feeding so much sloppy feed while young. After they have gotten their growth they can stand it better.

Dewey, Okla.

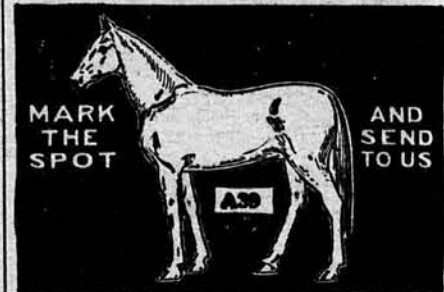
O. M. Holcomb.

John W. Harris, Hamburg, Ia., R. 3, writes: "I think the Mail and Breeze the best farm paper a farmer can have. I am sending \$2 to pay my renewal for two years."

Cures Lame Horses

Makes Limping, Idle Horses Sound of Limb and Valuable Pullers.

We absolutely guarantee Mack's \$1,000 Spavin Remedy to cure Bone or Bog Spavin, Ringbone, Thoroughpin, Curb, Capped Hock, Shoe Boli, Sprung Knees, Lacerated and Ruptured Tendons, Sweeny and all other forms of



lameness affecting a horse. It's a powerful remedy that goes right to the bottom of the trouble and cures the lameness in just a few days while the horse is being worked as usual. Contains nothing that can injure the horse and heals without leaving scar, blemish or loss of hair. We have deposited \$1,000 in a local bank which must be forfeited if we fail to do as we say. If you are not absolutely sure what causes the lameness, mark with an "X" on horse above where lameness occurs, tell how it affects the gait and give age of horse, and send to us. Our expert graduate veterinarian will tell you what it is and how to cure it.

Your druggist will obtain Mack's \$1,000 Spavin Remedy for you if you ask him. If for any reason you can't get it, write us. We will see that you are supplied. Ask for instructive free book "Horse Sense" No. 8. McKallor Drug Co., Binghamton, N. Y.

SAVE THE HORSE

This BOOK—Sample Contract and Advice—ALL Free to (Horse Owners and Managers only). Address TROY CHEMICAL CO., 15 Commerce Ave., Binghamton, N. Y. Druggists everywhere sell Save-The-Horse WITH CONTRACT or we send by Parcel Post or Express paid.

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There is no better time than while the horse is working and sweating for our treatment; which penetrates both bone and tissue—reaching the cause—and cures without blistering or loss of hair.

We Originated the treatment of horses—Under Signed Contract to Return Money if Remedy Fails. Our Latest Save-The-Horse BOOK is our 17 Years' Discovery. Fully describes how to locate and treat 58 forms of lameness—Illustrated.



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Hog Cholera Serum

A positive insurance against this dread disease. Prepared by skilled veterinary surgeons in one of the largest and most sanitary serum laboratories in the world—secured from only carefully selected U. S. inspected immune hogs, it is guaranteed to be of the highest potency and purity.

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You take no risk when you buy a buggy from us. We guarantee it to please you, and to be a bigger value for your money than you can get anywhere else, or you needn't keep it. Reference; S. Ill. Natl. Bank, East St. Louis, Ill.

Mutual Buggies, Surreys, Wagons, etc., are the highest quality, handsomest, most stylish vehicles built. The only line guaranteed 5 years. We sell direct at wholesale prices—and save you \$25.00 to \$100.00. Write for catalog and delivered prices.

MUTUAL HARNESS at \$5.85 per set up; double \$14.10 up; work harness \$19. up, all genuine leather; highest quality; Fully Guaranteed 25 to 50% cheaper than retail. Catalog Free. Write today. MUTUAL CARRIAGE & HARNESS MFG. CO., Station 88D, E. St. Louis, Ill. or Station 88D, 6 E. Eleventh St., Kansas City, Mo.



KANSAS MADE

\$600 FORD AUTOMOBILE GIVEN AWAY

You Can Get This Auto Free! Free! Free!

The Farm Magazine will give this car in their big automobile contest, which opens May 1st and closes June 30th. Any one is eligible to enter this contest. Whether a subscriber to our paper or not. Mail the coupon and let us tell you all about it.

OUR METHOD This contest is different from any you ever heard about. There are no strings to it in any way. It costs nothing to enter. We will give not only the automobile as first prize, but twenty-four other grand prizes as well, among them are \$100 in gold, gold watches, silver sets and many other valuable gifts. To those who do not win a prize, we have a very liberal commission offer.

Here is a fine chance for you to win an elegant prize. Just think, a little work each day and a fine new Ford automobile as a reward. This new machine has never been run a mile, and is ready for you or some other industrious person.

Would You Like This Auto



OBERA PETIT, Anita, Ia.

YOU CAN GET THIS AUTO

Anyone who enters this contest can win the auto by just a little effort. We want to increase our subscription list in your locality. All you have to do is to take subscriptions to our paper and send them to us. For each subscription we will allow you votes, according to the vote scale, which we will send you. The person who has the most votes on June 30th will get the auto FREE. The person who gets the second largest number of votes gets \$100 in gold. And so on until the prizes are all awarded. If you have felt that you could not afford to buy an auto heretofore, now is your chance. You can earn this fine machine without one cent to pay. If you win the auto and do not wish the car, we will send you the equivalent of the car in money, which is \$600. We will gladly furnish you the names of other contestants who have won prizes to assure you of our fair and square method. We will also gladly refer you to any bank or business house in Omaha as to our standing.

Here is a Letter From Our Last Winner

Contest Editor: Anita, Ia. I take this method of thanking the people of Anita and vicinity who so kindly helped me in winning the automobile in the contest. I also wish to thank the people of Pontanville and Bridgewater who were so kind and generous to me. And I wish to thank the contest manager, he treated me so fair. Yours truly, OBERA PETIT.

10,000 Votes Free

In order to give you a start, we will give you 10,000 votes FREE. All you have to do is to send in the coupon below. Then you can add to this by sending in subscriptions, for which you will be credited with up a big lot of votes to your credit. The first thing to do is to send in your name and address on the coupon and we will send you full particulars, also a picture of the auto—subscriptions. Don't delay. Mail this coupon at once.

FARM MAGAZINE, Omaha, Neb. Enter my name in your contest and send full particulars. Name Address This coupon will give me 10,000 votes to start.

\$7.55 Still Buys World's Champion 140-Egg Incubator

Double cases all over; best copper tank; nursery, self-regulating. Best 140-chick hot-water brooder, \$4.95. Ordered together, \$11.90. Freight Paid (E. of Rockland). No machines at any price are better. Satisfaction guaranteed. Write for book today or send price now and save time. Jim Rohan, Pres. Belle City Incubator Co., Box 21, Racine, Wis.

KOUNS' Steel Stackers

LOADERS AND BARN FILLERS Are superior to all others. Let me show you. KOUNS, Salina, Kansas

Bees for the Farm Need little attention and pay big profits. If you are interested in them send for a sample copy of *Gleanings in Bee Culture*. Also a bee supply catalog.

THE A. L. ROOT CO. Box 319. Medina, Ohio

Poultry Magazine Big 40 to 80 page illustrated monthly 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, 800 Jackson, Topeka, Kan.

How to Fight Chicken Mites

BY H. C. PIERCE,
Iowa Agricultural College.

Mr. Editor—The worst external parasite of poultry is the common chicken mite or red mite. Hens which are attacked by mites stop laying, become poor, dumpish, listless in action, and the feathers roughen and drop out. The head and comb become pale and the bird presents a sickly appearance. These symptoms are caused by the irritation and loss of blood due to the nightly visits of the parasites. Attacks upon sitting hens often result in the hen leaving the nest or in her death and even if the hen withstands the mites the newly hatched chicks are attached as soon as they emerge from the shell and are often killed in a short time.

Where to Look for Them.

Unlike the louse the mite does not live on the birds at all times except in cases of extreme infestation. They may be discovered, by careful examination of the cracks and roosts, nests and walls of the building, lifting up the roosts and bottoms of nests. Here they will be found gathered in patches which have the appearance of grayish or reddish brown, powdery deposits. The adult female mite lays her eggs in the cracks and crevices of the roosts, walls, nests, or boxes, usually where there is some manure or other filth. Under favorable conditions the eggs will hatch in a few days.

Ways of Combatting Them.

The best remedies for mites are cleanliness, sunlight, and spraying with disinfecting solutions. The poultry house and fittings should be so built as to be easily cleaned and as free from cracks as possible. A good spray for mites is made of cresol soap. Shave or chop one 10-cent cake of laundry soap into 1 pint of soft water. Heat or allow to stand until a soap paste is formed. Stir in 1 pound of commercial cresol and heat or allow to stand until soap paste is dissolved. Stir in 1 gallon of kerosene. For use dilute with 50 parts of water. Commercial cresol is a coal tar by-product and may be obtained from the druggist at about 30 cents per pound. Do not get any of it upon the hands or face as it will cause intense smarting.

Kerosene Always Fixes 'Em.

Kerosene emulsion also is good. Shave or chop ½ pound of hard soap, add to a gallon of soft water, place on a fire and bring to a boil to dissolve the soap. Remove from the fire and stir in while hot 2 gallons of kerosene. For use dilute with 10 parts of soft water. It is better to apply it hot if possible.

Kerosene and Flake Naphthalene.—Dissolve in 2 gallons of kerosene all of the flake naphthalene it will take. Apply without dilution. Flake-naphthalene is the basis of moth balls and has the same penetrating odor. It may be obtained from the druggist at a cost of from 8 to 15 cents per pound.

Kerosene and Carbolic Acid.—Add 1 part of crude carbolic acid to 3 parts of Kerosene. Apply without dilution and keep stirred while applying. Crude carbolic acid is preferred to the better grades because of its containing other coal tar compounds in addition to phenol.

Apply With Brush or Sprayer.

Of these preparations probably the best is the cresol soap solution as it is readily prepared, cheap, efficient, and easily applied. It is used at this station in preference to all other similar preparations. Any of the commonly advertised coal tar stock dips may also be used with satisfactory results. They may be diluted with 50 parts of water. These mixtures may be applied with a large brush or with a spraying machine. Two thorough sprayings should be made on the first day. The next day a careful examination should be made and if any mites can be found alive the house should be thoroughly treated again. The houses should be thoroughly sprayed twice again at intervals of one week to catch any mites that have hatched out from eggs laid previous to the first sprayings.

Before sitting hens are placed upon eggs for hatching the nest should be thoroughly saturated with some one of these preparations to kill any mites that may be present and to forestall immediate infestation. A teaspoonful of

the undiluted cresol soap solution placed beneath the straw in the hollows of the nests will keep them free from lice as well as mites but it should not come in contact with the eggs.

Ames, Ia.

Good Report From a Mixed Flock.

Mr. Editor—In a recent Mail and Breeze Gustaf Nelson gives an account of his 41 White Crystal Orpington hens that laid 211 eggs in 10 days. I believe I can go him one better both to number of eggs and length of time. My 40 mixed hens laid 690 eggs during March and are still keeping it up at about the same ratio. I feed Kafir in a deep litter morning and noon. At night they have a bran mash with potato parings, turnips, or beets, and sometimes scalded alfalfa leaves with 2 parts bran and 1 part each of shorts and chop. I keep them busy. They have bran before them all the time, and a shallow box of ashes for dust baths. I have not had a sick hen all winter.

Niotaze, Kan. J. D. Hampton.

[In justice to Mr. Nelson it must be said that the record of his Orpingtons was made during the 10 days beginning February 23 when the weather was not as favorable for egg-laying as it averaged through March.—Ed.]

Give the Egg-Sucker an Emetic.

Mr. Editor—Tartar emetic is an inexpensive and very effective remedy for an egg-sucking dog. Remove a piece of the egg shell from one end in such a way that it may be replaced. Take out part of the contents and if the dog is a large one mix in a level teaspoonful of the emetic and refill the egg. Replace the shell and leave the egg where the dog will find it. It will make him very sick for a day but it will kill his appetite for eggs. For a small dog give a much smaller dose as an overdose would kill him.

Harry A. Snook.

R. 2, Winfield, Kan.

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SINGLE COMB BUFF LEGHORN eggs, 15, \$1.00; 100, \$5. Emery Babb, Wakefield, Kan.

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

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

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ROSE AND SINGLE COMB Brown Leghorns. Winners. Eggs, 75c per 15, \$4.00 per 100. Mrs. Ida Standiford, Reading, Kan.

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

DORR'S prize Rose Comb White Leghorns, grand champion silver medal winners. Eggs \$1.00 per 15, \$5.00 per 100. A. G. Dorr, Osage City, Kan., Route No. 5.

SINGLE COMB BROWN LEGHORNS. Standard birds. Farm raised, vigorous, extra heavy layers. Eggs \$4.00 per 100. Mrs. J. A. Jacobs, Manchester, Okla.

S. C. W. LEGHORNS of quality. Standard bred, heavy egg producers. Eggs. Orders booked now. Prices right. Mating list. Freeman & Post, Colony, Kan.

S. C. BROWN LEGHORNS. Eggs, 15 \$1, 105 \$5.00. Pure bred; safe delivery; satisfaction guaranteed. A. B. Haug, Centralia, Kan. Ship from Centralia or Seneca.

SINGLE COMB White and Buff Leghorns, White Wyandottes, Buff Rocks. Eggs 15 \$1.00, \$5.00 100. Buff Wyandottes \$2.00 15. V. M. Davis, Winfield, Kan., Route No. 2.

PRIZE WINNERS. S. C. Buff Leghorns. 100 eggs \$4.00, 15 75 cts. Baby chicks 10c. Indian Runner ducks, light fawn and white, 13 eggs \$1.00. Ella Beatty, Lyndon, Kan.

SINGLE COMB BROWN LEGHORNS exclusively for 10 years. High-scoring, heavy laying strain. None better. Eggs at farmer's prices. J. F. Crandall, Barnes, Kan.

RANGE RAISED laying Leghorns, S. C. White. High scoring stock with size and quality. This breed my specialty. Stock, eggs. Circular. Alex Spong, Chanute, Kan.

YOUNG'S STRAIN Single Comb White Leghorn eggs, from large, white birds scoring 94 and above. Four grand matings, \$1 \$2, \$3 and \$4 per 15. Wm. A. Sanford, Manhattan, Kan.

ROSE COMB WHITE LEGHORN eggs for sale. From Pen-No. 1 \$3.00 for 15 or \$4.00 for 30; Pen No. 2, \$1.50 for 15 or \$2.00 for 30; Pen No. 3, \$1.00 for 15 or \$1.50 for 30. Mrs. W. E. Masters, Manhattan, Kan.

LIGHT BRAHMAS.

LIGHT BRAHMAS exclusively. 15 eggs \$1.50. J. B. Loveless, Frederick, Okla.

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

PURE BRED Light Brahmas. Eggs 75 cts. for 15. Mrs. Emil Grunewald, Alma, Kan., R. No. 3.

Reliable Poultry Breeders**DUCKS.**

PENCILED RUNNER ducks. White eggs, 10c each. Paul Grill, Ellsworth, Kan.

BLUE SWEDISH ducks. Eggs \$2.50 per setting. F. J. Pechanec, Tlmken, Kan.

FAWN AND WHITE Runners. White egg strain eggs \$1.00 per 13. Celestia Easley, Exeter, Mo.

INDIAN RUNNER ducks. Eggs, twenty for dollar. Munnimaker Poultry Co., Crothersville, Ind.

LARGE PEKIN ducks; fine layers. Eggs \$1.00 per 11. Mrs. S. W. Hellman, Pleasanton, Kan.

INDIAN RUNNERS, Buff Rocks. Standard stock. \$1 and \$2 settings. Geo. Wasson, Anness, Kan.

INDIAN RUNNERS, fawn and white. Eggs \$1.00 per 15. Baby ducks 25c each. J. W. Fretz, Bosworth, Mo.

INDIAN RUNNER ducks and White Cochins Bantams. Catalogue. Harry E. Duncan, Humboldt, Kan.

FAWN AND WHITE Indian Runner duck eggs, 13 for \$1.00, 50 for \$3.00. Mrs. J. D. Barton, Laddonia, Mo.

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

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

INDIAN RUNNER duck eggs. Fawn and white. \$1.25 per 13, \$4.00 per 50, \$7.00 per 100. G. Richmond, Alma, Kan.

INDIAN RUNNERS, fawn and white; white eggs, \$1.00 12, \$5.00 100. Mrs. Robt. Whitesell, Clearwater, Kan.

PURE WHITE MUSCOVY ducks, something fine, \$2.50 per pair. Eggs \$1.50 per setting. S. H. Lenhart, Abilene, Kan.

FAWN AND WHITE Indian Runner duck eggs. English Walton strain. \$1.25 per setting. \$8.00 per 100. Lotta Lisk, Lenexa, Kan.

FAWN INDIAN RUNNERS and Buff Orpington ducks; genuine white egg strains. Circular. Hillcrest Farm, Blackwater, Mo.

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

TRUE LIGHT fawn and white Indian Runners. Circular free. White eggs 15, \$1.50; 50, \$4.00. R. Harrison, Jewell, Kan.

INDIAN RUNNER duck eggs, English strain. Prize winners at American Royal, K. C., Mo., 1911-12. Geo. E. Hobson, Pittsburg, Kan.

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

INDIAN RUNNER eggs, \$1.25 per 13, \$4 per 50, \$7 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.

FAWN AND WHITE INDIAN RUNNER eggs, fine color, shape and markings. \$1.00 per setting. S. C. Buff Orpingtons \$1.00. Ethel Hammons, Bronson, Kan.

HIGHCLASS INDIAN Runners. White eggers. American Standard and pure English type. Eggs \$1.00 to \$3.00 per 15. Free circular. Lillie Greve, Earlton, Kans.

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.

INDIAN RUNNERS, light fawn and white and English penciled. Great layers. White eggs only. \$2 for 15, \$7 for 100, charges prepaid. Mrs. Ed Bergmann, Route 9, Paola, Kan.

FAWN AND WHITE RUNNERS. White eggs. Won 3 blue ribbons State Show, 1913. Per 15, \$2.50. Pen 2, \$1.50. Rose Comb Red, 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.

INDIAN RUNNER ducks, both English and American Standard fawn and white. Eggs \$1.50 per 13. White Holland turkey eggs \$2.50 per 11. R. C. Rhode Island Reds \$1.00 per 15. Mrs. V. A. Stewart, Morganville, Kan.

WHITE RUNNERS and Single Comb White Leghorns. Eggs from trapnosed stock cheaper than asked for guess-work breeding. Free catalog, pictures of Runners and Leghorns. Send for it. Jas. R. Snyder, Box T, Frazer, Mo.

Reliable Poultry Breeders

PLYMOUTH ROCKS.
BUFF ROCK eggs, 15 \$1, 100 \$5. H. H. Carson, Muncie, Kan.
WHITE ROCK eggs, 15 75c, 100 \$3.50. D. S. Cumming, Adair, Okla.
PURE BARRED ROCK eggs, \$1.50 per 15. W. J. Rye, Albany, Mo.
BARRED ROCK eggs 15, \$1.00; \$5.00 per 100. Bertha Evans, Lyons, Kan.
WHITE ROCK eggs 7c each. 10 years a breeder. James Jensen, Kinsley, Kan.
WHITE ROCK eggs, Fishel and Bickerdike strains. Ed Clausen, Mead, Neb.
PURE BARRED ROCK eggs, 15 \$1, 100 \$5. Mrs. H. Buchanan, Abilene, Kan.
BUFF ROCK eggs \$1 per setting, \$5 per hundred. William Small, Wilson, Kan.
BUFF ROCK EGGS \$2.25 per 50; \$1.00 per 15. J. H. Mellenbruch, Morrill, Kan.
QUALITY WHITE ROCKS. Eggs for hatching. J. A. Kauffman, Abilene, Kans.
SHELLEY BROS. pullet line. Eggs, 15 \$1.50, 60 \$5.00. Oscar Daub, Elmdale, Kan.
WHITE ROCKS. Fishel strain. Eggs, 15 \$1.25, 100 \$5.00. Mrs. Frank Powell, Buffalo, Kan.
BARRED ROCK eggs. 15 \$1.50. Extra fine quality. Write Milton Deihl, Lawrence, Kan.
"RINGLET" BARRED ROCK eggs, four dollars per hundred. Chas. Carey, Peabody, Kan.
SINGLE COMB Rhode Island Red eggs, \$1.50 per 15. J. L. Carmean, Neosho Falls, Kan.
BUFF ROCK eggs \$2.00 per 15, prepaid. Circulars free. Ferris & Ferris, Effingham, Kan.
BUFF ROCK eggs, \$1.00 for fifteen, \$4.00 per hundred. Mrs. S. H. McNeeley, Cedar Vale, Kan.
BARRED ROCKS exclusively. Eggs, 100 \$4.50, \$0 \$1.75. Catherine Beightel, Holton, Kan.
BARRED ROCK eggs \$4.00 per hundred. Fine large birds. Chas. Cornelius, Blackwell, Okla.
WHITE ROCKS. Free range. Eggs, 15 75c; 100 \$3.00. H. F. Richter, Hillsboro, Kan., R. 3.
PURE BRED Barred Rock eggs \$1.00 setting, \$4.00 100. Wm. C. Mueller, Hanover, Kan., R. 4.
BARRED ROCKS. Fine, vigorous farm flock. 50 eggs \$2. Mrs. Ernest Rowe, Jewell, Kan.
EGGS from prize Buff Rocks, \$2.00 15; good cockerels reasonable. A. L. Nice, Columbus, Kan.
FANCY BARRED ROCK eggs, mated pens, \$1.00 and \$2.00 per setting. M. P. Thielen, Russell, Kan.
PLYMOUTH ROCK eggs for sale at \$1.00 per setting, \$3.00 per 100. Ernest Peters, Lorraine, Kan.
WHITE ROCK eggs, farm range, 15 \$1.00, 50 \$2.50, 100 \$4.00. R. M. Rehm, Hutchinson, Kan., Route 1.
BAKER'S BARRED ROCK eggs, 15 \$1.00, 100 \$5.00. Dave Baker, R. No. 2, Conway Springs, Kan.
BARRED ROCKS, big boned, fine barred. \$1.00 15, \$4.00 100. Mrs. Wm. Sluyter, Jewell, Kan.
WHITE ROCK cockerels and eggs. Fine, pure white. Write W. J. Lewis, Lock Box 153, Lebo, Kan.
100 BUFF ROCK eggs \$4.00. From pens \$1.50 and \$3.00 per 15. Mrs. M. E. Stevens, Humboldt, Kan.
SELECTED PEN Barred Rocks from winners Kansas, Nebraska. Eggs, 15 \$2.00. Clay Dawson, Rulo, Neb.
PURE BRED Barred Plymouth Rocks exclusively. Eggs, 15 75c; 100 \$3.50. S. B. Shaw, R. 3, Goff, Kan.
WHITE ROCK baby chicks, 12 cts. each. Incubators going now. Mrs. Geo. Woodworth, Route 2, Lebanon, Kan.
BARRED ROCKS—Eggs \$1.00 15, \$2.50 50. Scored stock \$2.00 15. Mrs. A. M. Markley, Mound City, Kan.
WHITE PLYMOUTH ROCKS—Eggs from show winners \$1.50 per 15, 100 \$5.00. W. H. Beaver, St. John, Kan.
BUFF PLYMOUTH ROCKS—Eggs and baby chicks at reasonable prices. Mrs. Fred Miller, Wakefield, Kan.
EGGS from pedigreed Barred Rocks \$1.50 per 15, express paid. Catalog free. Gus Schaback, Atchison, Kan.
BARRED ROCKS exclusively: 8 years' careful breeding. Eggs, 15 \$1.00, prepaid. Jeff Burt, Macksville, Kan.
BARRED PLYMOUTH ROCK eggs \$3 hundred. Indian Runner duck eggs, 50 \$2.50. Anna Steele, Melvern, Kan.
WHITE ROCKS—Scored to 94% by Stoner. Eggs, \$1.00 15, \$4.00 100. Mrs. J. W. Hoornbeek, Winfield, Kan.
BARRED ROCK eggs. Prize winning stock. \$1.50 for 15, \$7.00 per 100. Star Breeding Farm, Elk City, Kan.
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.

Reliable Poultry Breeders

PLYMOUTH ROCKS.
WARRENBURG'S Barred Rocks. Eggs, 15 \$3.00, 100 \$12. Quality makes price. O. Warrenburg, Centralia, Kan.
BARRED ROCK eggs. 15 \$1.00, 50 \$2.50, 100 \$4.00. From pens \$3.00 and \$1.50 per 15. Mrs. C. N. Bailey, Lyndon, Kan.
WHITE PLUME POULTRY FARM, Bogue, Kan. White Rocks, baby chicks, eggs; White H. turkeys, White Pekin ducks.
IVORY WHITE ROCK eggs from special mating, \$3.00 15. Grand farm flock, \$5.00 100. Minnie Clark, Haven, Kan.
BIG TYPE BARRED ROCKS. Thirty-five years' scientific breeding. Eggs and stock. A. H. Duff, Larned, Kan.
PURE BRED WHITE ROCKS. Farm range. Eggs, 15 \$1.25, 100 \$4.00. Satisfaction guaranteed. G. M. Kretz, Clifton, Kan.
PURE BRED Barred Rocks exclusively. Eggs 50 cts. per 15, \$2.50 per 100. Mrs. Jessie Seabloom, Stockton, Kan.
PURE BRED BARRED ROCKS; farm raised. Eggs, 15 \$1.25, 30 \$2.00, 100 \$5.00. Mrs. John Yowell, McPherson, Kan.
FRED HALL'S Barred Rocks have won 60 premiums in 1912 and 1913. Eggs \$2.50 and \$1.50 per 15. Lone Wolf, Okla.
WHITE ROCK EGGS, best strains, extra layers, \$1 for setting, \$5 per one hundred. Mrs. E. E. Williams, Sabetha, Kan.
BARRED ROCK eggs; fine exhibition matings; fifteen eggs \$3.00, 30 eggs \$5.00. Frank McCormack, Morrowville, Kan.
WAGNER'S BARRED ROCK prize winners; eggs \$1.50, \$2.00. Write for mating list. Mrs. E. C. Wagner, Holton, Kan.
WHITE ROCKS EXCLUSIVELY—Bred 12 years. Eggs well packed \$1.00 per 15, \$5.00 per 100. S. M. Chestnut, Holton, Kan.
WHITE PLYMOUTH ROCKS, blue ribbon winners, scoring to 95; 15 eggs \$1.00, 100 \$5.00. Mrs. Jennie Waldron, R. 6, Butler, Mo.
THOMPSON'S "Ringlet" Barred Rocks. Best layers, finely barred. Fifteen eggs \$1.10 for \$5. Tracy's, Conway Springs, Kan.
PURE BRED BARRED ROCKS exclusively. Eggs \$1.00 per 15, \$4.00 per 100. Safe arrival guaranteed. C. E. Romary, Olivet, Kan.
WHITE IVORY ROCKS. Two pens mated from prize winners past season. Settings reasonable. A. F. Holmgren, Lincolnville, Kan.
WHITE PLYMOUTH ROCK eggs for sale from prize winners. Splendid layers. \$1.00, 15; \$5.00, 100. W. K. Trumbo, Roseland, Kan.
BIG TYPE blue Barred Plymouth Rocks. Fine birds, none better. Eggs, 15 \$1.00, 100 \$5.00. Mrs. T. B. Mitchell, McPherson, Kan., R. No. 5.
BARRED ROCKS—Weigher-layer. 103 premiums. Eggs \$1.00 15, \$5.00 100. Special matings \$3.00 15, \$5.00 30. W. Opfer, Clay Center, Kan.
BARRED ROCKS, Blue Jacket Ringlets. Eggs for hatching. Pen, \$2.00 15; utility, \$1.00 15, \$5.00 100. Mrs. P. A. Pettis, Wathena, Kan.
BARRED ROCK eggs. Cockerels from choice scored stock; red eyes, yellow beaks and legs. Latham strain. Mrs. H. Schmidt, Humboldt, Kan.
BARRED PLYMOUTH ROCK eggs, thoroughbred, fifteen \$1.25, hundred \$5.00 prepaid. Nebraska, Kansas. Ethel Richardson, Belleville, Kan.
WHITE ROCKS only for 16 years; large flock. Can fill large orders promptly. \$1.00 per 15, \$4.00 per 100 eggs. Josias Lambert, Smith Center, Kansas.
PLYMOUTH ROCKS that are Barred. State Show winners. Both matings. Eggs \$2.50 per 15 up. Write for mating list. C. V. LaDow, Fredonia, Kan.
BARRED ROCKS—Fine birds chosen especially for color and size. 15 eggs for \$1.00. C. D. McIlree, Lorraine, Kan. Member Kansas Poultry Federation.
BUFF P. ROCKS. Eggs from prize winners, high scoring birds, won silver cup for best pen in American class. Write for special price. J. S. Humphrey, Pratt, Kan.
BARRED PLYMOUTH ROCKS exclusively—Ringlet strain; good layers, rich color, fine, narrow, regular barring to the skin and good size. \$2 per 15 eggs. L. P. Coblenz, La Harpe, Kan.
BUFF ROCKS exclusively for eleven years. Eggs from high scoring pens, \$3 per fifteen, \$5 per thirty. Farm range, \$3.75 per hundred, \$2 per fifty. Mrs. Homer Davis, Walton, Kan.
PARTRIDGE PLYMOUTH ROCK stock and eggs for sale. Prize winner of Chicago, St. Louis, Mo., Detroit, Boston and many other places. All farm raised. Paul Lafromboise, Mt. Pleasant, Mich.
PARTRIDGE ROCKS. Noftzger strain. Beauty eggs. Ckls. for sale. 30 eggs \$5. W. Wyandottes, R. C. Reds, B. Rocks 50 eggs \$5. Poland Chinas. Polled Shorthorns. Centerdale Stock Farm, Pratt, Kan.
WHITE PLYMOUTH ROCK eggs for hatching from a pure bred, healthy, vigorous farm ranged flock. Size and fancy points combined with excellent laying qualities. Eggs fresh and true to name, packed to ship any distance safely. Mrs. Walter Cline, Versailles, Mo.
BARRED ROCKS—68 premiums, Topeka, Manhattan, Clay Center, Denver, 24 regulars, 9 firsts, 4 specials in the show season. Eggs, 15 \$3.00, 30 \$5.00. Utility, 12 premiums, 15 \$1.25, 60 \$4.00, 100 \$6.00. Mrs. D. M. Gillespie, Clay Center, Kan.

Reliable Poultry Breeders

PLYMOUTH ROCKS.
SHELLEY BROS.' BARRED ROCKS won 82 premiums at Kansas' largest shows—35 firsts, specials and sweepstakes. Eleven premiums last state and central Kansas shows. Eggs, 15 \$3.00, 30 \$5.00. Elmdale, Kan.
WHITE ROCKS, pure white, big boned, farm raised. Baby chicks 15c a piece by the 50 or 100, 20c a piece by the doz. Eggs \$1.00 for 15, \$2.50 for 50, \$5.00 for a hundred. Good laying strain. Prize winners. B. E. Miller, Newton, Kan.
LANGSHANS.
WHITE LANGSHAN eggs, \$1.00 per 15. Wm. Wischmeier, Mayetta, Kan.
BLACK LANGSHAN eggs for hatching. C. C. Cunningham, Kinnard, Neb.
BLACK LANGSHAN. 75c per 15; \$4.00 per 100. Ethel Marcy, Virgil, Kan.
PURE BLACK LANGSHANS. 15 eggs \$1, 100 \$5. Mary McCaul, Elk City, Kansas.
PRIZE WINNING Black Langshans. Eggs from best matings, 15 \$1.25. Martha Haynes, Grantville, Kan.
GOOD farm raised Black Langshans. Eggs, 15 \$1.50, 100 \$7.50. Mrs. Geo. W. King, Solomon, Kan.
KLUSMIRE'S Ideal Black Langshans. Eggs from choice matings. Write for prices. Geo. Klusmire, Holton, Kan.
BLK. AND WHITE LANGSHAN. Choice mating eggs \$3.00 15; range flock, \$6.00 100. H. M. Palmer, Florence, Kan.
BLACK LANGSHANS. Eggs, 15 \$1.25, \$1.50, by parcel post. Baby chicks 15 cents. Mrs. J. B. Stein, Smith Center, Kan.
BLACK LANGSHAN, Houdan cockerels two fifty to five dollars each. Write for mating list. E. D. Hartzell, Rossville, Kan.
BLACK LANGSHANS EXCLUSIVELY. Cockerels from stock scoring 98. Eggs in season. Mrs. D. A. Swank, Blue Mound, Kan.
LANGSHANS, Black, White and Buff. Grand matings of each breed. Eggs. Roscoe H. Gosney, Langshan Specialist, La Belle, Mo.
PLEASANT VIEW FARM. Black Langshan cockerels. Eggs scored pens \$1.50, \$2.00. Range \$6.00 100. John Bolte, Axtell, Kan.
BLACK LANGSHAN eggs from high scoring stock, \$1.50 per setting, \$5.00 per 100. Geo. W. Shearer, Elmhurst Farm, Lawrence, Kan.
BUFF AND BLACK LANGSHAN eggs \$2.00 15, \$6.00 100. Positively no better Langshans in America. John Lovette, Mullinville, Kan.
TENNEHOLM LANGSHANS. The big, black kind. Eggs, \$1.50 per 15, \$2.50 per 30. A few good cockerels left. Mrs. E. S. Myers, Chanute, Kan.
BIG BONED, greenish glossy, black eyed Black Langshans, scored 92 to 96; eggs \$3 for 25, guaranteed; cockerels \$3.00 each. H. Osterfoss, Hedrick, Iowa.
EGGS FOR SALE. White Langshan, \$2.00 per 15. Black Langshan, Pen No. 1 headed by second prize cockerel at Kansas City Royal, \$2.50 per 15; Pen No. 2, \$1.50 per 15. Frank A. Vopat, Lucas, Kan.
TURKEYS.
WHITE HOLLAND turkey eggs 20c each. Frank Darst, Fredonia, Kan.
MAMMOTH BRONZE eggs 25 cts. each. Carrie Thompson, Cimarron, Kan.
WHITE HOLLAND turkey eggs, \$2.00 for 11. Mrs. Grace Dick, Harlan, Kan.
WHITE HOLLAND turkey eggs, \$2.25 per 11. Mrs. Ellen Finney, St. Marys, Kan.
EGGS from prize winning Mammoth White Holland turkeys, \$2.50 per setting. S. H. Lenherg, Abilene, Kan.
BOURBON RED turkey eggs, \$3 for 11; with directions for raising them. Mrs. C. B. Palmer, Uniontown, Kan.
TURKEYS—Pure Mammoth Bronze. Tom 40 lbs., hens to 25, pullets 16-19; some score 97. 10 eggs \$4. Cecil McArthur, Walton, Kan.
BOURBON RED turkeys. Mostly two-year-old breeders. Standard size and markings. Eggs \$3.00 per 11. Stover & Myers, Fredonia, Kan.
MAMMOTH BRONZE turkey eggs from Standard birds at \$2.50 per nine. White Orpington eggs at \$7.00 per 100. Maud E. Lundin, Columbus, Kan.
SEVERAL VARIETIES.
LIGHT BRAHMA, White Wyandotte, Runner duck, Bronze turkey eggs. Emma Ahlstedt, Roxbury, 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.
S. C. BUFF LEGHORNS, Blue Andalusians. Eggs, \$1.25 to \$5.00 15; \$5.00 100. Circular free. John A. Huber, La Crosse, Kan.
BARRED ROCKS, Pekin ducks, Embden geese, Bronze turkey eggs. Circular on request. Mrs. John Steele & Son, Chillicothe, Mo.
43 VARIETIES, Poultry, Pigeons, Ducks, Geese, Turkeys, Guinea, Incubators, Dogs. Catalogue 4 cents. Missouri Squab Co., Kirkwood, Mo.

Reliable Poultry Breeders

SEVERAL VARIETIES.
EGGS! EGGS! EGGS!—From Brd. Ply. and W. F. B. S. chickens, \$1.50 per setting. Satisfaction guaranteed. Gus H. Brune, 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.
WHITE ROCKS, White Wyandottes (Fishel) eggs \$2.00 setting or two settings \$3.00. Mrs. W. E. Cochran, 1916 Cypress, Kansas City, Mo.
SILVER SPANGLED HAMBURG, White Orpington, Partridge Wyandotte, Buff Cochlin Bantam eggs, \$1.00 per 15. Mrs. Geo. Church, Burlington, Colo.
EGGS from White Rocks, White Wyandottes, White Holland turkeys, White Cochlin bantams, Pekin ducks. Have some fine Spitz pups. A. T. Garman, Courtland, Kan.
EGGS. White, Buff, Barred and Partridge P. Rocks, Buff Orpington, White Wyandotte, S. C. Rhode Island Reds, Mammoth Bronze turkey. Free catalog. A. D. Murphy & Son, Essex, Iowa.
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.
MAMMOTH PEKIN duck eggs ten cents each; 50 eggs, charges prepaid. Mating list Partridge Wyandottes, Crystal White Orpingtons now ready. Investigate Page's Poultry Farm, Salina, Kan.
SILVER LACED WYANDOTTES, Rose Comb, farm raised, well laced, big bone birds. Can ship from Barnes or Hanover. Eggs 75c per 15, \$4.00 per 100. Mrs. Earl Ballard, Hanover, Kan., No. 3.
EGGS FOR HATCHING from pure bred Mammoth Bronze turkeys, \$2.00 per 6, \$4.00 per 12. Rouen duck, Barred Rock and Brown Leghorn eggs, \$1.50 per 15, \$2.75 per 30. The Hillside Farm, St. Peter, Minn.
WHITE WYANDOTTES. Fancy stock—Pen No. 1, hens scoring to 94%, cockerel 95. Eggs \$2.50 setting. Farm range—cockerel 94 points, \$1.25 setting, \$5.00 hundred. Mammoth Bronze turkeys \$2.50 setting. I. B. Pixley, Wamego, Kan.
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.
THE LINWOOD Poultry Farm, Ewing, Mo., offers eggs for hatching from blue ribbon winners, S. C. W. Leghorns, S. C. R. I. Reds and Indian Runner ducks. I guarantee fertility and eggs from pens ordered. Send for free catalogue; also breeder of English blood hounds, American fox hounds and Duroc-Jersey hogs. Joseph Keller, prop.
CRYSTAL WHITE ORPINGTONS. Eggs for hatching, stock direct from Kellerstrass pens; mated and scored by Jas. Swan, Kellerstrass's former superintendent. You will pay Kellerstrass \$30.00 for no better. Our price, to introduce our stock, \$3.00. Also Fawn and White Indian Runner duck eggs, the white kind, \$2.50 for 13. Walnut Lodge Farm, R. 7, Olathe, Kan.
BARRED ROCKS Our birds again demonstrate 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.
S. C. Black Minorcas
Hatching Eggs \$2.00 per 15
Eggs from my prize-winning pens at greatly reduced prices.
R. G. TUTT, Box F, Kirkwood, Mo.
Cook's Barred Rocks
My last exhibit at Topeka in Jan., 1911, I won 1st, 3rd chl.; 2nd cock; 4th, 5th hens; 3rd pen, silver cup for best display, and GRAND CHAMPION MALE. TOPEKA CHAMPION was declared by expert opinion to be beyond question the best cockerel ever shown in the west; he won \$54 in cash, a beautiful silver cup and silver medal for best cockerel in the show. His blood greatly predominates in my flock. Better try some eggs which I am selling at \$1.50, \$per 15; \$5.00 per 50 and \$6 per 100. CHAS. J. COOK, Box 14, Marysville, Kan.
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. E. 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.
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The WOMEN

Conducted by



FOLKS

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 we only knew how to make the best use of the things we have we should all be millionaires in the things that really make life worth living. But so many of us don't know how.

Why should a woman balance herself on the edge of a chair for 10 minutes or on the edge of the buggy seat for half an hour when she might just as well lean back and rest? Women who do this always complain of being tired, and then wonder why.

Sometimes when along in the middle of the afternoon you feel utterly tired out, your voice full of weariness and your heart full of woe, a cup of hot milk and a bit of toast, or something else that's hot, will help out wonderfully.

The need of minimum wage legislation for women seems to have appealed to all the country at once. Bills providing for some standard minimum wage have been introduced in several of the state legislatures, and a similar bill is before congress at Washington.

This Will Get the Roaches.

Dissolve 2 tablespoons borax in 1 pint of water and with this water make a stiff dough of cornmeal. Do not cook. Put it where the roaches can get at it at night. Two or three applications are generally sufficient.

Mrs. Walter D. Ward.

R. 3, Neosho Falls, Kan.

Inexpensive Quilt Tops.

I make comfort tops out of the old coats and pants. I have eight which I have pieced from them. Take the parts that are not much worn and sew them together in strips, then sew the strips together. They make a very warm cover without much expense. They require a layer of cotton and 7 yards of outing for lining, and should be tacked at intervals of about 4 inches. If the goods is faded much I turn best side out.

Mrs. George Walker.

Prentiss, Okla.

How to Soft-Boil Eggs.

[Prize Letter.]

Instead of watching the clock three minutes to soft-boil eggs pour plenty of boiling water over them, cover the vessel tight and push on the back of the stove away from the fire. By the time you have taken up your meal the eggs will be just right, without watching.

Muskogee.

The editor knows this rule is good because she has tried it. The eggs cook to a creamy consistency, particularly gratifying to those who enjoy a soft boil.

Rule for Homemade Soap.

[Prize Letter.]

Here is a tested recipe for soap which is much cheaper than buying. Take water 2 gallons, grease 15 pounds (any kind), lye 3 cans. Let boil till grease is all eaten up, then add 2½ gallons cold water and draw the fire away. Stir continuously till soap is thick and smooth. The more you stir it the better. This soap will float on water, and I have never had it freeze and drip as other soap does. Make in cool weather, as it is hard to get it cool in hot weather.

Mrs. Lizzie Stamps.

Wapanucka, Okla.

A Meal of Flank Steak.

Don't turn up your nose at flank steak. It is good if properly prepared, and its use will aid in reducing the high cost of your meats. Select a flank steak next time and try smothering it. This is how it may be done:

Chop 1 good sized onion and a tablespoonful of parsley; mix together a teaspoonful of salt and a salt spoonful

of pepper. Sprinkle the bottom of the baking pan with a little onion and put the steak on top. Brush it with an egg slightly beaten with a tablespoonful of warm water, and then spread with the remaining portion of onion and parsley. Add ½ cupful of stock to which you have added the salt and pepper. (If you have no soup stock use warm water.) Place in a hot oven and cook for 30 minutes then lift the steak, thicken the stock to make a gravy, season it and pour over the steak. This dish may be garnished with cooked vegetables.

Accident That Might Have Been.

I had such an unusual experience recently, one that might have resulted in a serious accident, that I will relate it for the benefit of other mothers. I had washed a two-gallon jar and set it on a kitchen table. My 3-year-old boy climbed on a chair and put his head in the jar and could not get it out without help. If he had lost his footing nothing could have saved him from breaking his neck. After this I shall see that the jars are bottom side up when young children are around.

Muskogee.

Ironing the Table Cloth.

It has been the problem of many housewives to know how to launder a linen cover so it will retain its silky finish as when new. I will tell my way, and all who may chance to try it can't be otherwise than pleased with the results. Wash and rinse well, run through the wringer and roll up in a sheet; let lie one hour, then iron dry with hot irons. It will have a bright, lustrous, satin-like finish like new, the finish which is so much desired by all good housekeepers.

Mrs. E. H. Callaway.

Greenland, Ark.

Golden Cream Cake.

[Prize Recipe.]

Take 3 cups flour, 2 teaspoons baking powder, 1 cup sour cream, 1 teaspoon vanilla, 4 eggs. Sift flour and baking powder together. Beat the eggs to creaminess. Mix sugar and cream together, then mix in flour and eggs alternately. Lastly add the cream, sugar and vanilla, and beat hard for 3 minutes. Bake quickly in gem pans greased and well floured. When cold cover with whipped cream. When preparing the whipped cream take 1 cup sweet cream and whip until thick, then add 3 tablespoons sugar and 1 teaspoon vanilla.

Codell, Kan. Mrs. E. W. Buffum.

Farmer's Table Fit for a King.

[Prize Letter.]

A varied, well prepared table is the one thing more than any other which keeps our families healthy and happy. We should study food values at least enough to know how to prepare a well balanced meal, and then see to it that our foods are thoroughly cooked, so that every fiber in vegetables and meats is tender. Cereals should be started to boil, then set back on stove and allowed to cook very slowly for two or three hours. Oats and rice should never be cooked in 15 or 20 minutes. They need an hour or two. Dry beans should be cooked slowly four or five hours. This slow cooking breaks up the fibers, making food much more palatable and nutritious.

Variety is said to be the spice of life. In order to have our menus varied in winter as well as in summer we must begin with the garden, which should be well prepared to furnish a supply of vegetables for canning, such as tomatoes, cabbage for kraut and to can, beets for pickles and to can sweet, beans, peas, corn, and cucumbers for pickles. This with a supply of canned fruits, jellies and jam, chickens, eggs, milk, butter, fresh pork, beef and lard together with

groceries from town, certainly will make our cooking a pleasure in winter as well as in summer. With a little work and forethought we will be able to set a table fit for a king 365 days in the year.

Mrs. Amy Frazier.

R. 1 Selma, Kan.

No Trouble to Dry Feathers.

[Prize Letter.]

To those who save chicken feathers I wish to tell my way of drying feathers. I took a box 13 inches wide, 1 foot high and 2 feet long and took the boards off from three sides. In place of these boards I took narrow pieces 1 inch wide and about ½ inch thick and nailed from end to end at each of the open corners to make a frame. Then I bought 40 inches of window screen 2 feet wide, tacked one end on one of the narrow strips and drew it around the box, so that it covered three sides. The fourth side is for the lid. I find this way of drying feathers much better than drying in a sack. I turn the box upside down (lid down) so the sun can shine through top of box.

Augusta, Kan.

Cassie Brower.

[Some people think putting feathers in the sun draws out the oil in the quill and makes them strong. Those who find this so can set the box in a breezy place in the shade, as under a tree, and still find it useful.—Editor.]

Her Sulphured Apples Spoiled.

Last summer I saw so many recipes in our Women Folks department for drying fruit with sulphur that I tried it, but met with poor success. I peeled and quartered two market basketsful of apples. I had a goods box large enough to hang the baskets in, and had the box and all covered with oilcloth and an old comfort. I burned sulphur on live coals, renewing every two hours. The recipe said smoke six hours, but I found it hard to keep the coals hot, so to be sure I had smoked them long enough I kept them smoking most of the day. I put them down in a five-gallon jar (stone) with an ordinary dinner plate over them, covered well with paper tied securely down, and laid a brick on top. Half the apples, those in the bottom of the jar, kept just fine, but those on top soured and spoiled. Now I would be very glad to know what was the trouble, as I would like to try the method again if I could get it to work. Should the plate entirely cover the apples and should they be weighted down? Some say the stone jar I put them in should have been sulphured. I did not do this, as the recipe I used did not call for it.

Macksville, Kan.

Mrs. C. J.

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.
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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, kimono and underclothes.
How to make children's coats and school clothes.
How to make baby clothes, long and short.

We are giving these valuable dressmaking books away absolutely free just to introduce our popular publication. Send us your name and address at once, together with 4 cents in stamps to cover mailing expense, and secure one of these valuable books before the offer is withdrawn. Address ARTHUR CAPPER COMPANY, Dept. DM-11, Topeka, Kansas.



The perfect coffee is ground at home. The grocer's mill may have ground a dozen grades of coffee, whose leavings sift into your favorite blend. Moreover, ground coffee rapidly loses its strength and aroma. The CRYSTAL keeps your coffee in an air-tight glass hopper, free from dust and deterioration. A turn of the crank and the coffee with all its delicious flavor intact goes into the pot. Buy of your dealer if he has the genuine "CRYSTAL," if not, slip your remittance in an envelope and the Parcel Postman will place one in your hands by return mail. "The CRYSTAL"—Black enamel finish \$1.00, Blue enamel \$1.50, Nickel Plated \$1.75. "CRYSTAL DE LUXE"—Oxidized Copper finish, \$2. ARCADE MFG. CO., Dept. 2, Freeport, Ill.

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Talking Machine Headquarters.

819 Kansas Avenue

Topeka.

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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 blanks. Reference, American Exchange National Bank. Address SOUTHERN FEATHER AND PILLOW CO., Dept. 54, Greensboro, N. C.

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Write McKie School for Stammerers, 2400 E. 12th St., Kansas City, Mo. Home and school combined. Highly endorsed. Conducted by former stammerer. Stammering, if neglected, ruins your chance for success in life, but it can be speedily corrected by proper training.

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1913 Take-down Pat-

tern, with all latest improve-

ments, walnut stock and grip.

Shoots accurately 22 long or short, handsome,

durable. SEND NO MONEY. Just send your name and

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We give LADIES' SMALL and gentle size, HUNTING and open case watches to anyone, for selling our art post cards at 10¢ a packet. Order 20 packets now. When sold send \$2.00 and we will send you FREE a stem-wind, 6-yr. guaranteed watch, highly engraved, proper size; also signet ring and handsome chain.

PALACE MFG. CO., Dept. 74, CHICAGO

HOME DRESSMAKING

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



No. 5694 is a dress for misses and small women. The closing is at the front. Medium size requires 5 yards of 36-inch material with $\frac{5}{8}$ yard of 24-inch silk. The pattern is cut in sizes 14, 16 and 18 years.

The pattern for ladies' shirtwaist No. 5942 is cut in six sizes, 32 to 42 inches bust measure. Size 36 requires $3\frac{3}{4}$ yards of 27-inch material.

Ladies' four-gore skirt, 5701, is made with a high waist line. The pattern is cut in sizes 22 to 30 inches waist measure. Size 24 measures $2\frac{3}{4}$ yards around the lower edge and requires $3\frac{3}{4}$ yards of 36-inch material.

USE THIS COUPON FOR PATTERN ORDERS.

Farmers Mail and Breeze, Pattern Department, Topeka, Kan.

Dear Sir—Enclosed find cents, for which send me the following patterns:

Pattern No. Size.
Pattern No. Size.
Pattern No. Size.

Name

Postoffice

State

R. F. D. or St. No.

BE SURE TO GIVE NUMBER AND SIZE.

Why Not Try This?

My plan for making extra pin money is writing for papers. Many papers and magazines offer cash prizes for short articles on various subjects, for contests, recipes, suggestions, sewing and fancy work hints, household helps and devices, original ways of doing any work to save time or money, also pin money ideas. I have also made money telling how to reduce the cost of living. One magazine gives 25 cents for cute stories heard. I have received many checks for 50 cents and \$1 for descriptions of homemade contrivances, recipes, etc., and \$1 and sometimes \$5 for short cuts in house work and sewing. I received \$1 for suggesting a good pin money scheme, also \$1 for short cuts in mending. I received 50 cents for an idea of a table against the wall to save space in a small room, and 50 cents for an idea of a home-

made mop brush or ceiling brush made from a common scrub brush and broom handle. I have earned money or prizes from the Woman's Home Companion, The Household, Missouri Valley Farmer, Mail and Breeze and Spare Moments. Mrs. George P. Ernenwein. Verona Station, N. Y.

Supplying the Kitchen With Water.

[Prize Letter.]

I note the different ways of supplying the kitchen with water but do not find any of the pattern that has been in use in my home and which does away with the always empty water pail. We have a sink, with a drain leading from it to the garden, where the water can be used for irrigation. At one end of sink is a common pitcher pump connected with a 200-barrel cistern just outside of house. At top of pump is a small cylinder with plunger connected to pump handle. This pumps air through a $\frac{1}{4}$ -inch pipe that runs to bottom of cistern, pumping the air in at the same time the water is pumped out, and keeping the water in the cistern from becoming sour. We also have a waste pipe connected with filter to pump off warm water standing in pump when we want a fresh drink in warm weather. This outfit complete cost less than \$25, and can be installed by any farmer in a few hours, after having the pipe cut by the hardware dealer.

Nash, Okla. Frank Black.

Things Learned by Experience.

[Prize Letter.]

When washing windows add a few drops of kerosene to the clear warm water. Polish with soft paper, and note the brilliancy.

Add a small piece of fresh lard to your boiled starch. It will give the clothes a pretty gloss and prevent the irons sticking.

When making cabbage slaw with cream use sour cream and add a pinch of cinnamon.

Use sour cream instead of sweet in your mashed potatoes. They will be light and flaky.

Add a well beaten egg to your dressing just before putting it in the oven to bake.

Add a little vinegar to the water when boiling a piece of tough beef. It will require less cooking to make tender.

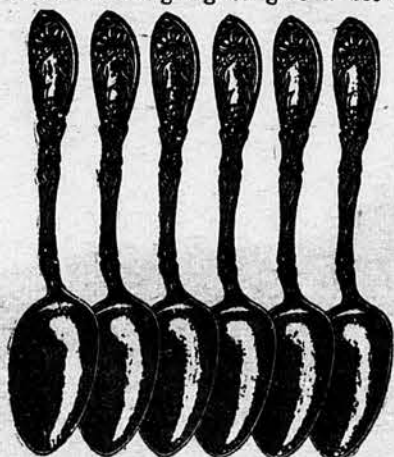
When the butter seems crumbly and will not gather, set the churn in warm water for a few minutes.

Dip onions in clear cold water often when peeling, and they will not affect the eyes.

Hooper, Colo. Mrs. Ida Buchner.

SIX SILVER NARCISSUS TEASPOONS FREE.

I have just consummated a most remarkable purchase whereby I secured at a ridiculously low figure 5,000 sets of beautiful Silver Plated Narcissus Spoons made by the famous Oxford Silver Plate Co. Each spoon is extra heavy, full standard length, extra deep bowl and with beautifully embossed and engraved handles. I am going to give a set of



these handsome spoons absolutely free, postage paid, to all who send just \$1.00 to pay for a year's subscription to my big farm weekly, The Farmers Mail and Breeze. Send your subscription order at once and secure a set of these beautiful and serviceable spoons. State whether you are new or old subscriber. Time will be extended one year if you are already paid in advance. Address Arthur Capper, Publisher Mail and Breeze, Topeka, Kan.

The Kitchen Sink Needs



The sink, the taps, the kitchen cutlery, the cooking utensils, the floors and the woodwork—all need Old Dutch Cleanser, if you wish them kept spotless and hygienically clean. Old Dutch Cleanser routs out the grease, grime, water stains and rust in a jiffy. Does it without a fuss or a muss. Does it economically—a little goes a long way. Keeps the hands soft and white—free from kitchen stains.

Many uses and full directions on large Sifter Can—10c.

This \$30 Kitchen Cabinet Sent to Your Home for 30 DAYS FREE TRIAL

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This "Gold Medal" Kitchen Cabinet is the greatest labor-saving kitchen convenience ever invented. It saves the tired housewife thousands of steps and hours of toil. It will pay its cost many times over in the time and labor it will save in one year. More than one thousand kitchens in Kansas and the Southwest have been modernized by this beautiful substantial, guaranteed "Gold Medal" Cabinet. We want to modernize your kitchen and 999 others during the next sixty days. And we are going to make an offer that will surely accomplish this result. We will send the "Gold Medal" direct to your home for thirty days' free trial. Place it in your kitchen and let it prove its value to you! If it comes up to your expectations you can pay our very low factory price of less than one-half retail value in very small monthly payments—amounting to just a few pennies a day. You will say, as have hundreds of others, that you

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That's a fair offer isn't it? It couldn't be more so!

First Members May Secure Cabinet Absolutely FREE!

Furthermore, if you are the first to join our club from your neighborhood you will be entitled to our great club commission plan whereby you may secure a Gold Medal Cabinet absolutely free of cost and without any canvassing or public work of any kind.

This is the most liberal offer ever made. It has saved hundreds of dollars for hundreds of our club members. It may mean a Gold Medal Cabinet absolutely free of cost to you.

The Gold Medal Cabinet comes in beautiful Golden Oak finish. Cabinet top 40x38x12 inches. Sanitary flour bin with glass indicator and dust-proof sifter. Large china closet, spice bin, etc. Base 30 inches high, 40 inches long and 28 inches wide, with nickel top. Large cupboard, three commodious drawers, kneading board, etc. Two-compartment removable metal bread and cake box. Room for everything you need in the kitchen.

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Fish Bite Like hungry wolves any time of the year if you use Magic-Fish-Lure. Best fish bait ever discovered. Keeps you busy pulling them out. Write to-day and get a box to help introduce it. Agents wanted. J. F. Gregory, Dept. 31, St. Louis, Mo.

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FOR SALE—100 bushels of White Wonder seed corn. \$1.50 per bu. Call or write to E. B. Sayler, Route 3, St. John, Kan.

A LIMITED amount of Spanish peanuts at \$1.75; also alfalfa seed at \$8.00 per bu. W. K. Stambaugh, Medicine Lodge, Kan.

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NOW is the time to order Dunlap strawberry plants. Write for our free booklet, "Strawberry Culture." Walton and Son, Troy, Kan.

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

PURE SEED CORN. Hildreth Yellow, Kansas Sunflower Yellow, Boone Co. White, Commercial White, White Pearl, also Kafir. Write for free sample and circular. J. M. McCray, Manhattan, Kan.

SPANISH PEANUT seed and Whippoorwill peas. Carefully selected, recleaned, fanned, and handpicked at our own mills. Get next to these splendid crops—today. Williams-Hubbard Peanut Co., Texarkana, Ark.-Tex.

JOHNSON CO. WHITE, selected at husking time, guaranteed pure and satisfactory. Germination test 98%. Won first at Manhattan. In ear sacked or crated \$2 per bushel. H. H. Neumann, Hanover, Kan.

SEEDS AND NURSERIES.

I HAVE 50 bushels recleaned alfalfa seed, raised by myself, guaranteed free from dodder, foxtail and Sweet clover, 13c pound while it lasts; cash with order. Geo. Poinson, Route 2, Las Animas, Colo.

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. Let us hear from you. Brooks Wholesale Co., Ft. Scott, Kan.

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LANDS.

FOR SALE—A 320-acre farm. Write to R. Hamble, Otis, Kan.

GOOD RESIDENCE, good location. Bargain. J. E. Frampton, Lamar, Mo.

FOR SALE—160 acres improved good farm land 2 1/2 miles west of Rosalia. Price \$50; terms. E. C. Steenburg, Potwin, Kan.

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

HALF SECTION Finney Co., Kan., 2 miles new railroad grade, all tillable, cheap, terms. Bennington Realty Co., Bennington, Okla.

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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.

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

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WANTED—150 head of cattle and 25 head of horses for pasture. L. J. Farrell, Nadeau, Kan.

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BAD DEBTS collected without suit. Everywhere. 24 years exclusively in this work. Bank references given. N. S. Martin & Co., Arkansas City, Kan.

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LEARN how to double your egg yield; how to mate and breed for best results; how to produce and market \$100 fowls. Get on the "big money" side of the poultry business. This is not a book-selling scheme. Full information free. Address R. V. HICKS, Dept. L, 801 Jackson-st., Topeka, Kan.

Effective Spray for Lice.

Mr. Editor—Last summer I bought at the drug store a small tin spray costing 50 cents, also a gallon of crude carbolic acid costing 50 cents. After the hen house is swept clean—which should be once or twice a week—the roosts and floor are sprayed with this mixture. If there is any sign of mites the walls are treated the same way. Nest boxes are sprayed before the straw is put in. Since I have been using this spray I have had no mites. Although this is the second summer I have used it I still have some of the first gallon on hand. The roosting place of the young chicks is cleaned in the same way as the hen house. Mrs. Al Mastin, Nemaha county, Nebraska.

MARKET PROBABILITIES

Cattle Prices Holding Strong With Preference Shown For Lighter Weights—Break in Hog Market Last Week Being Gradually Repaired—Grain Showing Advances, Especially Corn and Oats

(Written Specially for Farmers Mail and Breeze.)

Receipts of cattle Monday were moderate compared with the opening of the preceding week, but the market showed no quotable advance. Prices however, were stronger and trade active in all lines. Good kinds were favored.

Steer trade last week, especially that part that had to do with the fair to good kinds in the weighty class, was jolted heavily by a falling off in demand, and a general turning to the lighter weights. Prime beefs in all weights, however, were affected only slightly, and except 10 cent declines in some cases the net change for the week was small. In the heavier classes that sold at \$7.75 to \$8.50 about 25 cent losses showed, while in some light weight cattle from \$8 up and as high as \$9 in Chicago moderate net advances occurred. Killers took the position that this is the season of demand for light cuts of beef, and that with the final movement of heavy steers from feed lots in progress, they would get as many heavy steers at lower prices, as they would if they boosted prices. These were the general conditions that caused an extreme of strong to 25 cents lower prices during the week. The downward movement on heavy steers started Monday and was not checked until Thursday, and then only by moderate strength. Receipts were liberal as the result of better weather, and the anxiety of feeders to be rid of cattle before corn planting was well started. Missouri, Iowa, Illinois and Kansas contributed the large part of the week's supply. Receipts from below the quarantine line were small and far western states sent in comparatively few beef pulp and hay fed steers. Packers and commission men both believe that the big runs of fed cattle are over. Kentucky has a considerable supply of distillery cattle to move and Pennsylvania will also be a factor in the supply of the next six weeks. However, such offerings will supply little competition for western fed cattle, as they are of different quality. Colorado still has a fairly liberal number of hay feds, and South Texas is liable to cut loose fair supplies of caked grasses. It looks as though strictly prime finished beefs in all weights will meet a strong demand. Congress and its deliberations were given no consideration insofar as the market was concerned, and live stock men, aside from filing protests against reduced tariff rates, regard the matter with growing indifference. They see their strong position, and know it will be maintained regardless of tariff schedules.

Spreading Butcher Cattle Prices.

Advances for tidy weight heifers, steers and heifers mixed, and choice cows, and sagging prices for the medium and plain kinds, and especially those that showed grass sap, either from early pastures, or wheat fields, rendered the spread in quotations for butcher cattle. Extreme quotations \$3.85 to \$8.75 and a possibility of \$9 for prime finished grades made more than a \$5 range. Packers are seeking to lower prices on anything that shows greenness, but they consider the light weight dry lot kinds worth the money. Receipts of she stuff, however, continue light and there is little prospect for any surplus showing. Though already late in the season, demand for stock cows and heifers continues to supply competition with killing grades. Veal calves and bulls continue firm.

Scarcity of Stockers Apparent.

Countrymen continue to buy the choice stock and feeding grades at very high prices. Some 777 pound high class stockers, 80 head from Kansas, sold at \$8.50 last week, a price seldom equaled at shows, and never surpassed on the open market. The plainer classes were plentiful, but there was a tendency to weakness. The country is still in need of good thin cattle, and the next few weeks will not uncover very large supplies. A great many cattlemen are going to be long on grass and short on cattle this summer and it is predicted that high prices for stock and feeding cattle will continue for another twelve months.

Big Break in Hog Prices.

At the outset this week the hog market showed a flash of strength, but urgent orders were soon filled and the bulk of the hogs sold down 5 cents. The top price in Chicago was \$9.25, St. Louis \$9.10, Kansas City, and St. Joseph \$8.95, and Omaha \$8.85.

Last week started off with fairly liberal receipts of hogs and a withdrawal of shipping demand. Prices consequently turned down and the decline was unchecked until Thursday. Thursday's drop was the largest, being quoted at 15 to 20 cents, and in some cases 25 off. On Wednesday prices were 25 to 35 cents under the close of the preceding week. However, the market steadied on Thursday and the remainder of the week gains of 10 to 15 cents were quoted. St. Louis

and Chicago lead river markets by a good margin on light weights, but there is not a shipping spread on the heavier classes. Light weight hogs have been scarce. Good weather caused a material increase in receipts the first three days of the week, but after that time supplies were moderate, indicating that the rush to market was about over. Packers say that light receipts will cause still higher prices, but that increased supplies will cause a general setback. Countrymen say that hogs have been marketed closely,

Lower Prices for Sheep.

Sheep have fallen from their high estate and the market late last week was very dull and unsatisfactory. Killers attribute their lack of interest in the market to a slack demand for mutton. Chicago supplies were light, but elsewhere receipts were liberal. Large supplies of clipped sheep and lambs in feed lots near the big markets was also a factor in depressing prices. The temperature was high and woolled grades were depressed as much as the shorn class. The general decline on lambs was placed at 40 to 65 cents, and sheep 25 to 50 cents. Late last week few lambs sold as high as \$8.50, compared with \$9 for tops at the close of the preceding week. As the season advances, Southern spring lambs and clipped Texas grassers appear as big factors in the future supply. Packers will welcome any kind so long as they tend to lower prices. Feed lot supplies are pretty well cleaned up, and the hot weather last week hastened shearing operations. Lighter receipts next week would benefit the market materially.

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	31,375	50,800	39,200
Chicago	52,400	113,000	73,500
Omaha	16,600	49,500	46,800
St. Louis	11,375	45,000	12,550
St. Joseph	8,300	30,000	20,000
Total	120,050	288,300	192,050
Preceding week	113,100	260,200	208,200
Year ago	105,100	330,500	170,150

The following table shows receipts of cattle, hogs and sheep at the five western markets Monday, April 21, together with totals a week ago, and a year ago:

	Cattle	Hogs	Sheep
Kansas City	11,000	8,000	9,000
Chicago	19,000	42,000	22,000
Omaha	3,200	6,000	12,000
St. Louis	2,500	9,000	2,000
St. Joseph	1,500	4,500	4,000
Totals	37,200	69,500	49,000
A week ago	48,000	65,400	58,600
A year ago	39,480	94,500	44,100

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			
Chicago..	\$9.50 \$8.75	\$9.25 \$7.85	\$7.85 \$7.25
Kan. City	9.00 8.50	9.00 7.75	7.50 7.00

Horses and Mules Sell Readily.

All the principal horse and mule markets of the country reported a good demand last week. Chicago quoted prices stronger on heavy drafters, and a good clearance on other classes. St. Louis and Kansas City reported a good demand for Southerners, farm horses and mules of all classes at firm prices. Receipts have been none too large at any markets. Active farm work has increased demand and decreased receipts.

Grain Prices Firm; Hay Steady.

Continued light receipts of grain with country roads in better condition than in the preceding week improved demand, and prices were moderately higher. This was especially true of corn. Oats sold readily. In the speculative market some traders attempted to start a chinche bug scare, but reports along that line were discounted. Hay trade continued dull with no important change in prices. Receipts were light.

The following prices prevail for grain in Kansas City and St. Louis:

	Wheat—	Kansas City	St. Louis.
Hard No. 2...	\$.89	@ .90	\$.91 @ .92½
Soft No. 2....	1.00	@ 1.04	1.06 @ 1.09
Corn—			
White No. 2..	.57½ @ .58		.60½ @ .61
Mixed corn...	.57 @ .58		.58½ @ .59
Oats—			
No. 2 white..	.36 @ .36½		.37½ @ .38
No. 2 mixed..	.34 @ .34½		.34 @ .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
1913 1912			
Chicago...	\$1.09 \$1.20	57½ 82	37½ 59
Kan. City..	1.04 1.13½	59 80½	36½ 59

Seeds.

Kafir corn, No. 2 white, 81¢@82¢ a cwt.; No. 3 white, 78¢@81¢ a cwt.; alfalfa, \$9@2 a cwt.; flaxseed, \$1.05 a bushel; timothy, \$1.50@1.75 a bushel; cane seed, 55¢@55¢; red top, 75¢@85¢; millet seed, \$1.00@1.30.

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	15.00@17.00
Alfalfa, choice	13.00@14.50
Alfalfa, No. 1	8.50@11.50
Alfalfa, No. 2	5.00@8.00
Alfalfa, No. 3	4.00@4.50
Straw	4.00@5.00
Packing hay	4.00@5.00

Broom Corn Still in a Rut.

Warehouse men are finding a slow outlet for their stocks of corn, and countrymen report little or no demand for stock out of first hands. A large plant is in progress in the Southeast and broom makers are awaiting early returns from crop conditions before they buy in advance of immediate needs. Prices were largely nominal, and unchanged. Choice green, selfworking corn is quoted at \$80 to \$90 a ton; fair to good, \$45 to \$75; common to fair \$20 to \$40 a ton.

Live Stock in Kansas City.

Light weight cattle had the call last week to the exclusion of the heavier kinds, and rough heavies and medium steers were quoted down 15 to 25 cents. The light weight cattle were higher. Some steers and heifers mixed sold at \$8.75, and 1206 pound Nebraska steers \$9. Some steers and heifers mixed brought \$8.35 on the quarantine side, and some 777 pound stockers sold up to \$8.50. Variations in prices occurred on all but the prime classes and the general market showed a rather unsettled condition. Tuesday and Wednesday hog prices broke 25 to 30 cents, but on Thursday and Friday stiffened up some, and on Saturday, owing to common quality, made a poor showing on the close, with the top price \$8.92½ and bulk \$8.70 to \$8.90, or 20 cents under the close of the preceding week.

The following table shows the range in prices of hogs last week and in the preceding week:

	Last week	Preceding wk.
Monday	\$8.90@9.25	\$8.75@9.05
Tuesday	8.75@9.12½	8.80@9.10
Wednesday	8.60@8.90	8.80@9.10
Thursday	8.65@8.92½	8.90@9.15
Friday	8.70@9.00	8.90@9.20
Saturday	8.70@8.92½	8.90@9.20

Sheep trade turned to dullness after the first two days of the week, and net losses of 25 to 50 cents were reported. Choice woolled lambs are quoted at \$7.50 to \$8.40, yearlings \$7 to \$7.50, wethers \$6.25 to \$6.75, ewes \$6 to \$6.50, clipped lambs, \$7 to \$7.75 and sheep \$5.50 to \$6.50.

The following table shows receipts of cattle, hogs and sheep in Kansas City thus far this year and the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	467,082	427,647	39,435	.....
Calves	25,300	25,394	.....	94
Hogs	758,164	916,565	.....	158,401
Sheep	591,852	664,334	.....	72,482
H. & M.	34,061	34,958	.....	897
Cars	32,308	33,393	.....	1,085

Live Stock in St. Louis.

Receipts of cattle last week were fairly liberal and with the exception of some tidy weight grades in the yearling class, prices were off 10 to 15 cents and exceptions as much as 25 cents. Few steers sold above \$8.60, or below \$8. Cows and heifers were off 15 to 25 cents and calves down to 50 cents. A good many heifers sold at \$8 to \$8.50. Choice to prime steers are quoted at \$8.50 to \$9, others \$6.50 to \$8.45, cows \$4.50 to \$7.75, heifers \$5 to \$8.75, calves \$5.50 to \$9.50, bulls \$4.50 to \$7.50, and stockers and feeders \$6 to \$7.75.

After a break of 25 to 30 cents at mid-week all but 15 cents of the loss was regained on Thursday and Friday, and the closing prices Saturday were \$9.20 to \$9.25 and bulk of sales \$9 to \$9.20. Receipts continue moderate.

Sheep prices fell back 25 to 50 cents, and the market closed at the low point of the week. Woolled lambs are quoted at \$8 to \$8.50; woolled sheep \$6 to \$6.75; clipped lambs \$7 to \$7.65, and clipped sheep \$5.50 to \$6.75.

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	245,676	202,844	42,832	.....
Hogs	797,693	895,588	.....	97,895
Sheep	196,300	265,693	.....	69,393
H. & M.	55,468	69,721	.....	14,253

Live Stock in St. Joseph.

The choice to prime steers in all weights held steady last week, but the plainer kinds were off 10 to 20 cents. Receipts of beef steers were liberal. The top price for the week was \$8.75 and a good many Western steers sold at \$8.10 to \$8.45. Cows are quoted at \$4 to \$7.75, and heifers \$5 to \$8.60. There was a good demand for the light weight butcher grades. Veal calves are quoted at \$7 to \$9.50, and bulls \$4.50 to \$7.25.

Saturday's top for hogs was \$8.95, and bulk \$8.80 to \$8.90, showing a net loss for the week of 10 to 15 cents, but a gain of

10 to 15 cents over Wednesday, the low point. Good heavy hogs were relatively higher here than at competitive points.

The following table shows receipts of cattle, hogs and sheep in St. Joseph thus far this year compared with the same period in 1912:

	1913	1912	Inc.	Dec.
Cattle	134,679	148,382	.....	13,703
Hogs	523,136	724,050	.....	200,914
Sheep	263,086	249,581	13,555	.....
H. & M.	12,075	17,992	.....	5,917
Cars	14,027	16,880	.....	2,853

Large Texas Calf Crop.

Frank Hastings, manager of the 'S. M. S.' ranch, Stamford, Texas, who was at the Kansas City stockyards last week, stated that Texas would have a large calf crop this year. Mr. Hastings said that owing to the open winter and large amount of feed available that cows came to spring in an unusually vigorous condition, and since then the weather has been ideal for young calves. He also said that more than 4,000 calves had been dropped this spring on the S. M. S. ranch and that 6,000 more are expected. Practically all will live and make strong, vigorous calves. A big Texas calf crop means much to the corn belt feeder, as that state from now on will have to supply a large per cent of the cattle fed in the corn belt. The Texan's foresight in producing quality makes such cattle especially desirable.

Baby Beef Demand Strong.

Killars pay more attention to yearling cattle now than at any previous time this year. This is a normal condition for the season, made so by general requirements for small cuts of beef. Just why beef eaters in the spring and early summer want light cuts has not been clearly demonstrated, but the fact is very evident in all retail butcher shops. The theory is that in the spring the average housewife serves additional vegetable dishes, that cheaper eggs enter more largely into the general menu, and that the entire beef diet is modified accordingly. Consequently a two-pound loin steak is superseded by one of less weight, but in order that weight reduction may be made without reducing the thickness of the steak a smaller loin is required. Small loins are available only in tidy weight heifers, steers and heifers mixed, and yearling steers, all classed as yearlings. Such offerings, line weight, are selling freely at \$8 to \$8.75 a hundred pounds, while heavy steers show about the same top price, though a wider spread downward.

Butter, Eggs and Poultry.

Elgin, April 21.—Butter this week is firm at 32 cents.

Kansas City, April 21.—Prices this week on produce are:

Eggs—Firsts, new white wood cases included, 17½¢@18¢ a doz.; seconds, 14¢@15¢; current receipts, \$5@5.05 a case.

Butter—Creamery, extras, 32¢@33¢ a lb.; firsts, 30¢@31¢; seconds, 29¢@30¢; packing stock, 24¢@24½¢.

Live Poultry—Broilers, 30¢ a lb.; spring chickens, 15¢@16¢; hens, 15¢; old roosters, 10¢; young roosters, 11¢@12¢; young turkeys and turkey hens, 17¢@18¢; old toms, 14¢@15¢; cull turkeys, 7¢ to 8¢.

Produce Prices Now and One Year Ago.

	Butter	Eggs	Hens
1913 1912			
Chicago.....	34 31	18 19	16 14
Kan. City....	33 31	18 18½	15 13

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NAME OF PAPER AND PLACE OF PUBLICATION.	Our price for both
"sw" semi-weekly, "w" weekly, "am" semi-monthly, "m" monthly.	
1.50 St. Louis Republic.....sw	1.35
1.25 Farm Progress.....sm	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 Harper's Magazine, N. Y.....m	4.50
2.00 Kansas Farmer, Topeka.....w	1.75
2.25 Munsey's Magazine, N. Y.....w	1.95
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1.00 Review of Reviews, N. Y.....m	3.50
1.00 The World, New York.....tri-w	1.65
2.00 Toledo Blade, Toledo.....w	1.25
1.50 Housekeeper, Minneapolis.....	1.50
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1.25 K. C. Weekly Jou. na.....	1.15
1.25 K. C. Weekly Star.....	1.10
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...w	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
1.35 Farm and Fireside.....	1.20
1.50 Every Woman's Magazine.....	1.30
1.50 Farm and Home, Springfield...w	1.25
2.00 La Follette's Magazine.....w	1.60
1.50 St. Louis Star Farmer.....	1.25

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.

FOR absolute bargains in any sized farm find C. D. Kregar, Lincolnville, Kan.

GOOD farms for sale or ex. in Bourbon Co., eastern Kan. Fred L. Kent, Uniontown, Kan.

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 Schimpff, Burns, Marion Co., Kan.

RESTAURANT business; fixtures, stock and everything that belongs to the business for sale for cash. Good reason for selling. T. E. Gordon, Waterville, Kansas.

WRITE for big printed list of corn and alf. farms in rain belt of Kansas. Biggest list choice farms in state. Kenyon & Holtsman, Concordia, Kan. (Pioneer Kan. farmers.)

PAWNEE CO., Kan. 154 a. wheat and alfalfa land; fair impr. 85 wheat, 15 alfalfa. Bal. corn, pasture; smooth land. \$8,500 with all crops till May 1. Hy Schultz, Rozel, Kan.

GREAT Jeff. Co. bargain. 93 a. 3 mi. R.R. high school town. 70 a. cult. Bluegrass past. timber. Owner widow. \$5,000 house; outbldgs. \$65 a. J. A. Decker, Valley Falls, Ks.

118 A., all tillable, 15 a. bluegrass, 2 never failing wells; 5 r. house, barn 30x40, hen house, 3 miles of a good town. Price \$68 per a. Worth \$100. Terms to suit the buyer. Mansfield, Ottawa, 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. 1/4 of all grain to purchaser; \$14,000. LOCK BOX 285, Wellington, 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 \$65 per acre. GILE & BONSALL, South Haven, Sumner Co., Kan.

1,250 A., 300 a. alfalfa bottom, running water, up-to-date impr. 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.

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.

IN MONTGOMERY COUNTY. 320 acres fine meadow and pasture at \$20 per acre; improved 80 acres at \$2,500. Nice acreage tracts adjoining Independence, easy terms; other bargains. FOSTER BROS., Independence, Kan.

50 ACRE FARM, A BARGAIN. 50 a. joining town. 7 r. house, shade, 2 barns, calf shed, hog sheds and pasture, 2 hen houses, corn crib, wood house, milk house, 2 cisterns, 2 wells, 1 a. small fruit. 8 a. alfalfa. 15 a. hog tight fence. Blue-grass pasture. 20 a. fine bottom land. F. W. BERTSCHINGER, Leocompton, Kan.

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. T. B. GODSEY, Emporia, Kan.

CATTLE RANCHES T. B. GODSEY, Emporia, Kan.

For Sale—7400A. Stock Farm

Two sets good improvements, living water; five miles Mo. P. R. R. in Ness county. A snap. Liberal terms. Write J. C. HOPPER, Ness City, 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, 1/4 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). 201 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.

Improved Stock Ranches

6,000 acres. \$5.00 per acre for 3,000 acres. Balance lease land, all fenced; mountain trout creek runs through place. 1,250 acres, highly improved. Two good springs. 500 acres farm land, balance first class pasture land. 20 miles south of Denver, on main road from Denver to Colorado Springs. Price \$20 per acre. 550 acres, dandy mountain ranch, 125 acres in hay and farming. 9 room house, barn, and corals. Water piped through house. 25 head of horses, 14 head Durham cattle, all farm implements. Price \$15,000. JOHN HUGHES, 213 Colo. Bldg., DENVER, COLO.

WRITE J. M. McCown, Emporia, Kansas, special bargain list, farms and ranches.

BARGAIN: 160 a. nicely improved, 1/2 mile out, \$6,000. Send for list. F. C. LIBBY, Blue Mound, Kan. J. L. Wilson, Salesman.

FINE residence in Wichita, \$5,000, want good 80, 160 a. 3 mi. town, Brown Co., \$15,000. Send for list. Walter Hanson, Sabetha, Kan.

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. 320 a. valley land, 200 suitable for alfalfa, \$3,000. 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. DARCEY, Offerle, Ks.

A BARGAIN—880 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.

672 ACRE farm, 3 sets improvements, near Arkansas City, Kan. 65 in alfalfa. Best of terms. Ask about this good farm. 80, 160, 240, 320, 408, 670, all above farms are good prices from \$30 up to \$56 per a. WM. GODEY, Arkansas City, Kan.

FOR SALE—160 acres all in cultivation and highly improved, within two miles of Moran, Kan. Also 160 acres near Oswego, Kan. Both of these places will be sold at a real sacrifice. Write us for price and description. Standard Land Co., 609 Waldheim Bldg., K. C., Mo.

275 A. 3 mi. of good town, 125 a. creek bottom, 20 a. timber, running water on land, 30 a. bluegrass, 12 a. orchard, well and windmill, barn 40x50, hog house 100 feet long with cement floor, 7 room house, scales, other outbuildings. Loan \$10,000 at 6%. Price \$80 per acre. Owner will trade for a stock of goods. Mansfield, Ottawa, Kansas.

280 A. 2 1/2 mi. from Garfield, Kan. In great Arkansas river valley. About 1/2 bottom land, remainder upland; about 200 a. broke, bal. pasture. Good new 7 room house; other outbuildings in good repair. This is an ideal location for a stock or dairy farm being close to main line of A. T. & S. F. R. R. Priced for quick sale at \$30 an a. Address owner. C. R. MURRAY, Garfield, 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.

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.

SOUTHWEST KANSAS FARM LANDS. Honest prices. Where wheat leads the world. Corn crop values beat 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.

160 ACRE FARM BARGAIN. 2 1/2 mi. town. No waste land. Woven wire fence. New 7 r. house, furnace, 2 large new barns. Shade, orchard. 60 a. wheat, 40 a. grass. R.F.D. Tel. Ideal home. \$12,000. L. H. MOORE, Conway Springs, Sumner Co., Kan.

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.

SHARON VALLEY FARM. 160 acres, 3 mi. of Sharon, Kan., good 6 room house, barn 40x80, 2 chicken houses, cave and smoke house, good orchard, 30 acres pasture, 8 acres wheat, 10 acres alfalfa, balance for spring crop; no waste land; a bargain at \$50 per acre. No trade. E. E. FOLEY, Wichita, 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.

Early Dawn Stock Farm

320 a. Grant Co., Kan., 5 mi. Co. seat, 160 a. imp. 6 r. house, barn 48x52, poultry, milk and hog houses, jack barn, well and mill, corral, free range. Snap for young man. Soil acc. my age. \$4,800 1/2 cash, bal. to suit. Wm. Bethelheimer, Bearden, Ark.

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.

FOR SALE

480 a. good wheat land, located Pawnee Co., Kan., with house, barn, windmill, granaries, fencing. 1/2 in wheat, bal. still unbroken. Will sell at \$55 per a. Also 160 a. wheat land, 1/2 in wheat, good buildings and fences, \$65 per a. Owners will loan \$40 per a. at 7%. Write B. A. Plummer, Marietta, Ohio, or W. R. Adams, Larned, Kan.

IF YOU WANT TO BUY LAND in western Kan. for \$6 to \$10 an a., write Geo. M. Lynch, Co. Treas., Tribune, Kan.

4 STOCK FARMS for sale at \$36, \$41.50, \$60 and \$62.50 per a. PRALLE BROS., Bremen, Kansas.

MONEY-MAKERS AND GOOD HOMES. Lands in Oklahoma, Texas and Kansas for sale, no exchanges. City property and stocks of mds. to exchange. List free. JABEZ F. BRADSHAW, Lenexa, Kan.

KANSAS RANCHES FOR SALE. We have Kansas ranches for sale from 1,000 to 25,000 acres. Prices \$12.50 to \$30.00 per acre. Write for free list. V. E. NIQUETTE, Salina, 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.

WOULD THIS INTEREST YOU? 160 acres 3 1/2 mi. from Anthony, county seat of Harper county, Kansas, on county road, one-half mile from school. 155 acres in cultivation; rich loam soil, no sand or gravel; 30 acres in alfalfa, balance first class alfalfa land; unimproved except fencing; over 100 acres fine growing wheat. Must be sold; can give reasonable terms, but absolutely no trades. Price \$40 per acre. J. E. COUCH LAND CO., Anthony, Kan.

SEDGWICK COUNTY FARM BARGAINS. 280 a. first bottom farm, improved, one mile to good R. R. town. Biggest snap in state \$45 per a., terms to suit. 240 a. valley farm, a crop producer, good improvements, 10 miles to Wichita, every acre good. Short time, \$55 per a. Be quick for this. 80 a. first bottom farm, near Sedgwick, well improved, in home of alfalfa, \$100 per a., worth \$150. 4 new modern cottages, 5 rooms each, in Wichita, rents \$45 per month, \$6,500. Trade for farm. Call on or write H. E. OSBURN, 315 E. Douglas Ave., Wichita, Ks.

ARKANSAS

FOR SALE: Well imp. 240 a. near city, \$12.50 a. J. A. Webb, Russellville, Ark.

CHEAP homes. Send for literature. F. & M. Bank and Trust Co., Horatio, Ark.

OZARK fruit farm. Income \$7,000 in 1912. Heart's delight. H. Hall, Waldron, 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.

IF you want to know about Ashley Co., Ark., send 10c in stamps for Hamburg Budget, for 3 mos. Add. Budget, Hamburg, 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.

ATTENTION. We have selected list of very best bargains in farm, fruit, alfalfa and timber lands in Ark. Get our list of bargains. A. W. Estes Co., Little Rock, Ark.

FOR SALE—80 a., 45 in cultivation, good buildings, 3 acres orchard, fine water; 1 1/4 mile to station; 3 1/4 from county seat. Big Bargain. \$1,350. F. J. Ray, Little Rock, Ark.

ARKANSAS lands for all staples at reasonable prices, on good terms. Prices are steadily advancing. Now is the time to buy. New list free. HORTON & CO., Hope, Ark.

157 A. improved rich valley farm; 67 cultivation; bal. timbered; 2 mi. Ry., on public road; white neighborhood; \$12.50 per acre. SESSIONS BROS., Winthrop, Ark.

DO YOU want a home? Do you want unimp. land for an investment? Let us show you some bargains. Some exchanges. STAR LAND CO., Gentry, Benton Co., Ark.

280 A. rich 2nd bot. land, nearly level; springs, running water. 80 a. high land, red sub-soil, no stone. \$8 a. Terms. Write NOW. F. & M. Bank & Trust Co., DeQueen, Ark.

FOR SALE: I have 80 a. dark sandy loam, 50 a. cult., bal. timber, 5 room residence, barns, fine water. 5 mi. to Cabot and in fine white neighborhood. Price \$18 per a. if sold soon. W. M. Hudson, Cabot, 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.

CANADA

CANADA For sale, improved farms, ranches and raw lands in Southern Alberta. LYNN W. BARRETT, Aldersyde, Alberta.

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.

HOMESEEKERS farm list. Southwestern Land & Imml. Co., Springfield, Mo.

Chicken ranch, \$600. Terms. Other farms. Pictures, maps, free. Box 594, Mt. View, Mo.

FREE, "The Ozark Region." Contains new list cheap lands, and valuable information. Durnell & McKinney, Cabool, Mo.

WRITE for list improved farms in heart of Corn Belt (Northwest part of State). H. J. Hughes, Trenton, Missouri. Seller of Missouri Black Dirt.

\$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.

LAND BARGAINS—\$5 down, \$5 monthly buys 40 acres, good timber land, south Missouri; price \$200. Perfect title. Write for list Mo. lands. Fred Jarrell, Mt. Vernon, Ill.

VALLEY FARMS, \$25 to \$50; unimproved lands, \$6 to \$8; 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. COTRELL LAND CO., Pomona, Howell Co., Mo.

FOR SALE. Your chance! Act! \$5,760 is the benefit or added value of the average 160 acres as reported by the commissioners appointed by the court to find the benefits on the 63,000 acres in our new levee and drainage district. These are as fine corn lands as can be found. As we are selling these lands at \$30 an acre the man who buys now before work begins on these improvements will get the increase in value. Free literature and further information furnished bonafide inquiries. EDWARDS BROS. REALTY CO., New Madrid, 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.

MISSOURI AND KANSAS FARMS. We can show you some splendid farm values. We have an excellent farm of 240 acres. SPECIAL PRICES AND TERMS! Ask us about it. STIPP & CHAPPELL, Merwin, Mo.

OZARK LANDS FOR SALE. 40 a., all fenced with woven wire, 38 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., Bolivar, Mo.

A Remarkable Bargain

320 A. all level land, 65 a. in cult., 80 a. pasture; bal. saw and tie timber. 180 fenced, wire and rail; 9 room house, good well at house; barn 70x70; 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 \$17,600. Incumbence \$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.)

NEW YORK

BIGGEST BARGAIN EVER OFFERED. 72 acres, 52 a. cultivated, 20 a. timber; 12 room house, fine spring water; barn 30x60 with two wings; cow stables for 12 cows; wagon house, plenty fruit. One mile from village. Price \$1,800, \$500 cash, balance time at 5%. HALL'S FARM AGENCY, Owego, Tioga Co., New York.

FLORIDA

FOR SALE BY OWNER: Four very desirable improved pieces of property in Alachua county, Fla. 30, 20, 30 and 30 acre tracts on large lake. Not to be classed with the ordinary Florida lands being offered for sale. Terms to suit customers. T. S. McMANUS, Waldo, Fla.

TEXAS

FREE. Taylor's Texas Investor (Magazine). A money saver, write now; six months free. H. S. Taylor, Houston, Tex.

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. 6,000 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., Daltart, 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.

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.

Mid-Coast Country of Texas Lands in tracts to suit. Prices are rapidly advancing. NOW is the time to buy. New list and free abstract of information. INFORMATION BUREAU LAND CO., Bay City, Texas.

OKLAHOMA

INDIAN LANDS eastern Okla. rain belt. Write J. J. Harrison, Pryor, Okla.

20 FINE farms, bargains. N. E. Okla. valley. Dennison & Griswold, Claremore, Ok.

KAY COUNTY corn, wheat and alfalfa lands, \$20 to \$75 per acre. New list free. N. E. SAYLOR, Newkirk, Okla.

FOR SALE—An alfalfa farm of 160 acres in Grant county, Oklahoma, 85 acres of which is now seeded to alfalfa. F. L. PATTEN, Kingfisher, Oklahoma.

800 ACRES black land, 2 1/2 miles from railroad. 450 acres in cultivation, 4 sets of improvements. \$30 per acre. E. HOLCOMB, Durant, Oklahoma.

CADDO COUNTY WINS First on agricultural products at State Fair. Write for information, corn and alfalfa lands. Baldwin & Gibbs Co., Anadarko, Okla.

FOR SALE OR EXCHANGE

GROCERIES for land or land for mdse. F. Gass, Joplin, Mo.

OZARI farms and mdse for sale or trade. Noah Atkinson, Marshfield, Mo.

FOR results list your property for sale or exchange with S. H. Rhea Real Estate and Auction Co., Moline, Kan.

960 A. Trego Co.; 200 creek alfalfa land, impr. \$24,000. Would consider good 160 acre farm for part. Stevens & Ruby, Stockton, Kan.

PROPERTY owners, if you want a quick trade list with us. Now preparing new list. Send for listing blank. Buxton Land Co., Utica, Kan.

200 A. stock farm E. Kan.; 40 a. alfalfa land. \$45 a. cash. 160 a. Pawnee Co., Kan. 135 a. wheat. Trade for E. Kan. 80. J. W. Watkins, Quenemo, Kan.

WOULD you trade your farm; city residence, rental property; mdse.; hotel; steam plow; auto or other property for good land? Write Kysar Realty Co., Goodland, Kan.

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 outcrop land? Close to railroad; no overflow; no negroes; no rocks. Shaeffer Land Co., 640 Reserve Bk. Bldg., Kansas City, Mo.

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.

FREE—Loose Leaf Exchange Book. It will match your trade. Write Desk A. E. P. JOHNSON, Ordway, Colo.

FOR SALE—Choice wheat, corn, and alfalfa lands in Clark, Ford, and Meade Cos. Write for list, trades. NATE NEAL, Real Estate, Minneola, Kan.

CHOICE alfalfa land for sale or exchange; from 40 acres to a section. Also a few extra good bargains for cash. CHAS. D. GORHAM, Garden City, Kan.

OKLAHOMA

OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.

MUSKOGEE county, corn, cotton and alfalfa lands in rain belt of Eastern Oklahoma at \$20 to \$35 per a., near good towns, schools, churches and markets. Easy terms. Maps and lists free. Beard Land Co., Muskogee, Okla.

240 A. 9 ml. 13 R. R. towns, one of which is McAlester, 190 a. tillable valley bot. land, no rock. Never overflows. 20 a. timber, 115 a. cult. 35 a. meadow. Productive as any land in Okla. \$20 per a. Terms. No exchange. SOUTHERN REALTY CO., McAlester, Okla.

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.

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, \$8 to \$10 per a. A few relinquishments. Did you see "bleeding, alms-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.

APPLE ORCHARD. 40 a. highly improved orchard near Grand Junction, Colorado. 30 a. orchard, 8 a. alfalfa, good residence. Paid up water right. Cash price \$25,000 clear. Want to exchange for good eastern Kansas or Nebraska farm. Will assume up to \$10,000. KARL F. MURDOCK, 224 Res. Bank Bldg., Kansas City, Mo.

THE INTERNATIONAL REALTY & INV. CO. 619-20 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.

ARIZONA

ARIZONA for good government land. Climate healthy, summers cool, winters mild, soil fertile. Grain, fruit and dairy. 200 ml. auto ride through valleys. ELGIN COMPANY, 723 Finance Bldg., Kansas City, Mo.

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.

How Live as Well on Less

(Continued from Page 9.)

bed comforts and will make serviceable rugs or carpets for the floors in winter. They may not look as pretty as Brussels but they are just as warm.

It is expensive to follow the fashions. But they do not change enough to keep one from looking neatly dressed even in a last year's frock. We need not be making or buying new dresses to clothe ourselves well.

It pays to buy in quantities for you get more for your money and only have one package to waste from. But the main thing is to stop waste, repair that which is broken, mend that which is torn, for it costs money to replace these things and a bank account is no more than dollars and cents.

Mrs. C. M. Bolding.

R. 3, Rocky, Okla.

Farm Accounts Teach Much.

[Third Prize.]

Mr. Editor—A good start toward cutting down expenses is to keep an account of expenditures in a classified way, itemizing the food, clothing, household supplies, taxes, rent, insurance, church, etc. An account of this kind faithfully kept will go a long way toward reducing expenses because one can see in plain figures the amounts spent, and thus know where to cut to bring about a proper proportion.

Buying supplies in quantities or on special sales will greatly lower expenses. Instead of buying sugar by the quarter's worth, get 100 or 200 pounds and save from \$2 to \$4. Instead of buying one bar of soap at a time, buy a box and save 50 cents to \$1. I know of three families that have combined their orders for two winters past and buy direct from producers. On rice they have made a saving of 55 per cent by buying direct from the growers.

We should take our grain to the mill and have corn meal and flour made from it. The cost is about half what flour would cost at the store. Some people have funny excuses for not making a garden. I have known several women who declared their families did not care for vegetables but when they ate at my table it was very evident they did care for them. I know of one family that bought canned beans while their own string beans were going to waste in the garden.

It pays to put up plenty of vegetables. Pickles, kraut, and catsup may be made. Corn, peas, tomatoes, etc., may be canned. Potatoes, onions, beets, turnips, carrots, cabbage, etc., may be stored in the cellar as they are for winter use.

Farmers need not patronize the packers and pay 18 to 25 cents for meat when they can produce their own that is just as good for 10 or 12 cents. It pays to fatten and butcher your own pork, and put away lard, bacon, ham and sausage for summer use.

Buy good clothing and make repairs as soon as a break is noticed. Every family should have a shoe repairing outfit. Household utensils should be mended as soon as the need occurs. A few cents spent in this way will often save dollars.

Another thing that counts is promptness in doing one's work so that nothing will be lost from neglect. The housewife needs judicial ability in order to determine what should "come next." Co-operation in the family is also a factor in economy. Let each do some one thing that shall make for the general welfare of all. I know of one family in which one daughter does all marketing of produce and buying of household supplies. She has become expert in this and saves many dollars in a year while at the same time the family is better clothed and fed than before.

Maple City, Kan.

Texas Has a Rural Credit Bank

Bee county, Texas, has organized a co-operative rural credit bank, possibly the first one in the United States. It is at Tuleta and the bank will be known as the Bee County Credit Union. Edwin Chamberlain of the Law School of the University of Texas has investigated the Tuleta plan and says it will not interfere with other banks, as it will extend a line of credit not possible under the present system.

FITZ OVERALLS

Hard work and reliability are the legs of success. Put a pair of Fitz Overalls on them and they're sure to win.

BURNHAM-MUNGER-ROOT
DRY GOODS CO.
KANSAS CITY, MO.

Ruptured People—Get This On 60 Days Trial

You know you can't possibly tell anything about a truss or anything else for rupture merely by trying it on, for a truss or so-called "appliance" may seem alright at first and afterward prove utterly worthless. But here is something you can try sixty days—just as a test—without having to risk a single cent.



Away With Leg-Strap and Spring Trusses

So far as we know, our guaranteed rupture holder is the only thing of any kind for rupture that you can get on 60 days trial—the only thing we know of good enough to stand such a long and thorough test. It's the famous Cluthe Automatic Massaging Truss—made on an absolutely new principle—has 18 patented features. Self-adjusting. Does away with the misery of wearing belts, leg-straps and springs. Guaranteed to hold at all times—including when you are working, taking a bath, etc. Has cured in case after case that seemed hopeless. Write for Free Book of Advice—Cloth-bound, 104 pages. Explains the dangers of operation. Shows just what's wrong with elastic and spring trusses, and why druggists should no more be allowed to fit trusses than to perform operations. Exposes the humbug—shows how old-fashioned, worthless trusses are sold under false and misleading names. Tells all about the care and attention we give you. Endorsements from over 5000 people, including physicians. Write today—find out how you can prove every word we say by making a 60 day test without risking a penny.

Box 545—Cluthe Co., 125 E. 23rd St., New York City

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 select 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, Hampton, Kan.



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.

Milk Fever.

What is the best means of preventing or curing milk fever in cows?—W. T. W. Rice county, Kansas.

The exact cause of milk fever in cows is still unknown. We know that it usually appears in animals that are well fed and are heavy milkers. The best means for preventing it is to restrict the diet somewhat for a day or two before calving.

due to intestinal disease such as chronic catarrh of the stomach or intestines, or nervous trouble, it would be hard to control. I would suggest that you pay careful attention to the diet and give a tablespoonful twice daily of the following mixture:

Charcoal, 1/2 pound.
Nux vomica, 2 ounces.
Gentian, 2 ounces.
Licorice, 1/4 pound.

(2). The mare with the swelling on each side of her throat may be having the distemper again or possibly the swelling may be the result of some injury. If an abscess should form it should be opened and thoroughly washed out with carbolic acid about two teaspoonsful to one pint of water.

Dry Feeding the Year Around.

Mr. Editor—The year 1912 was a prosperous one for us with our 11 cows. Three of these were 2-year-old Jersey heifers with their first calves, two are 3-year-olds, and the rest pickups. From these cows we sold 2,943 pounds of butter during the year which at 30 cents a pound amounted to \$882.00. Calves were sold to the amount of \$18, six heifer calves were raised that are

Many Kansas Farmers Use System

The readers who are judging the Farm Office letters say they are the best letters the Mail and Breeze has ever received. They predict that their subsequent publication in the Mail and Breeze will create something of a sensation, even in quarters where the progressiveness of Kansas farmers is not underestimated. The letters show that a surprising number of Kansas farmers take an inventory once a year, keep a careful account of the profit and loss of their various farm operations, file their letters and papers, farm bulletins and press clippings, and maintain more or less of an office system in the conduct of their affairs.

These office systems are simple, many of them devised to fit the special needs of the men who use them, but are readily adaptable to any kind of farming or stock raising. It is believed the description of them to be published by the Mail and Breeze in the near future will prove useful to other farmers in need of such aids. The great number and high merit of these Farm Office letters is giving the judges a good deal of trouble in deciding the contest.

ing. After calving do not milk out all the milk or allow the calf to completely empty the udder for a day or two. If some of the milk is allowed to remain so as to cause some pressure in the gland the danger of milk fever occurring is very much lessened. After the symptoms have appeared, injected air or oxygen or some antiseptic solution into the udder is the best known remedy. This treatment is invariably followed by recovery. Avoid giving drugs by the mouth, as they generally cannot swallow and there is great danger of it getting in the lungs and causing pneumonia.

Foundered Cow.

Something over a year ago one of my cows got too much ear corn and foundered on it. After freshening she got better and about. I bred her again. She is now becoming lame again. Her hoof does not wear off as those of other cattle and it makes her walk on the back of her foot. What can be done for this animal?—T. G. S., Harper county, Kansas.

Your cow has probably chronic laminitis or founder and it is doubtful if she will ever recover. It is easy to understand why the symptoms would be aggravated just before calving on account of the close relation in the structure of the skin and the mucous membrane lining the genital regions. I would suggest that you trim off her hoofs so as to get them into normal shape as near as possible and to keep her off the board or hard floors. Rubbing some liniment or blister around the tops of the hoofs might assist some.

Diarrhea; Distemper.

(1) One of my mares has been scouring all winter and have tried everything I know of with no good results. She does not scour while running on grass but as soon as I put her up she begins.

(2) Another mare had distemper last spring and it left a swelling on each side of her throat. In the last few days her throat has swollen all up along her cheek bone. Is this the distemper returning?—F. O. N., The Dalles, Ore.

(1). Sometimes diarrhea in horses is rather hard to control. It may be due to irregularity in the feeding, disease of the digestive tract or from a nervous condition. If it were due to irregular feeding the observance of proper feeding should overcome the condition. If it is

worth \$180, 2,200 pounds of pork sold for \$154, milk for chickens and other purposes was worth \$50, and 22 tons of manure produced should be worth \$55. This would represent a total income for the year of \$1,337.90. We fed 44 tons of alfalfa hay which at \$9 would amount to \$396, 22 tons of corn chop at \$20 per ton, \$440; 2 tons bran \$40; and 2 tons cottonseed cake, \$60. This would make the feed bill \$936 which deducted from the income would leave \$401.90. These cows have been kept in a dry lot the year around, this being the second year we have kept our cows on this plan. We make the same grade of butter in January as in July. We have been talking about building a silo but our grocer advises against it as he is afraid the silage would flavor the butter.

Hall and Condell.

R. 4, Eldorado, Kan.

[Your grocer's fears are groundless. Good silage will not taint butter nor injure the flavor of butter or milk in any way. By way of a test at the Illinois Experiment station, the milk from two lots of cows was sampled by 372 persons. These persons had no knowledge of the feeds used. Sixty per cent of them preferred the milk from the silage fed cows.—Ed.]

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.

Treat and Train Your Own Horses

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

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

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

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

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

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

Part Two contains Prof. Gleason's Famous System of Horse Breaking, Taming and Training. Gleason's mar-

velous skill in training and treating horses is known throughout the entire world and he is considered the world's greatest authority in this field.

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

Good To Read Anywhere.

Mr. Editor—We all enjoy reading the Mail and Breeze and would hate to do without it even if we have left sunny Kansas. We enjoy its coming here just the same.

Mrs. Jesse E. Moore.
Corrumpa, N. Mex., February 18, 1913.

Farmers Mail and Breeze Pays Advertisers.

Farmers Mail and Breeze, Topeka, Kan.

Gentlemen—Your letter of the 18th at hand and in reply will say you may continue my ad for four more issues. Am getting lots of business from the ad. Yours very truly,

STAR LUMBER COMPANY.
Real Estate Dealers.
Gentry, Ark., March 21, 1913.

Farmers Mail and Breeze, Topeka, Kan.

Dear Sirs—The advertising in Farmers Mail and Breeze has sold 18 hogs for me. Five of these have gone to Oklahoma and the remainder have stayed in Kansas. Every time there is a mail train whistle I get an order for a hog and sometimes I get three or four. Please change my ad as I have sold all the bred sows. You may run my ad for another quarter. Yours very truly,

A. R. ENOS,
Breeder of Poland Chinas.
Ramona, Kan., March 28, 1913.

Every week for years Farmers Mail and Breeze has printed voluntary letters from its advertisers and different letters are printed every week.

OIL - OIL - OIL

WHOLESALE PRICE TO CONSUMERS—Combining best quality with low price. NO WATER IN MY KEROSENE OR GASOLINE.

XXX 46 gravity water white kerosene.....\$6.00 for 52 gal. bbl.
XX 42 gravity kerosene (the kind usually sold)\$5.25 for 52 gal. bbl.
XXX 64 gravity gasoline.....\$10.00 for 52 gal. bbl.
1 case graphite axle grease (2 doz. 3 pound pails)\$3.50
40 gravity prime white stove distillate.....\$4.50 for 52 gal. bbl.
38 gravity stove distillate.....\$4.25 for 52 gal. bbl.
60 gallon (26 gauge) galvanized steel tank with pump and hood cover complete—a great convenience in every home.....\$3.60
Extra heavy pure crude oil, steamed and settled, (black oil) good lubricant, just the thing for greasing tools.....\$4.00 for 52 gal. bbl.
STANNARD'S PROCESSED CRUDE OIL, the best dip made for killing lice and curing mange. One application will do more to kill lice and cure mange than three applications of any other dip made (it destroys the nits).....\$5.00 for 52 gal. bbl.
I also carry a full line of lubricating oils.
I will pay \$1.25 each for my crude oil barrels, \$1.50 each for my refined oil barrels returned to me at Coffeyville, Kansas, in good order, less freight charge on same.

C. A. STANNARD, BOX M, EMPORIA, KAN.

55 Head of DUROCS

Sell from the ENID DUROC FARM

Enid, Ok., Monday, May 5

43 Bred Females, 12 Fall and Summer Boars

Four of the Greatest Boars of the Breed and Most Fashionable and Valuable blood known. Combined with the best of individuals head our herd, namely: Alfred's Col., Dew Drop Chief, Pilot Chief's Col. and Tattletale's Volunteer.

This offering is sired by Alfred's Col., Dew Drop Chief and Pilot's Col., and bred to the four boars referred to above. The dams of this offering are by such boars as B. F.'s Ohio Chief, Top Commodore, Pilot Wonder's Chief, I Am Advance, Red Wonder and G. C.'s Col. Every hog in this sale is at least either a granddaughter or a grandson of a champion. They are all in good flesh and in splendid breeding condition. This is our 13th sale and is the best offering, all considered we ever put through a sale ring either in Iowa, Kansas or Oklahoma. We also offer three registered Shorthorn bull calves, coming yearlings, of high quality. Sale held in tent, rain or shine. Send for catalog today. Address

S. W. ALFRED & SONS, Enid, Okla.

Auctioneer—Fred Reppert.

Fieldman—A. B. Hunter.

HEREFORD SALE

110 HEREFORDS, 65 BULLS, 45 COWS

BREEDERS' COMBINATION SALE KANSAS CITY, MO. MAY 6, 1913
In the Fine Stock Sale Pavilion at the Stock Yards

50 Big Strong Bulls of serviceable age, royally bred, showing both character and quality, including 7 good Polled bulls. 40 Young Cows of superior quality and most popular breeding. A carefully selected and reserved lot of High Class Herefords, both males and female, from 10 of the best herds of Missouri, Kansas and Iowa, contributed by the following well known breeders: Mousel Bros., Cambridge, Neb.
Z. T. Kinsell, Mt. Ayre, Iowa, 12 cows.
J. L. McGinnis, Moulton, Iowa, 6 bulls.
E. D. Gorman, Linville, Iowa, 3 bulls.
R. M. Fields & Son, Lees Summit, Mo., 2 bulls 2 cows.
E. W. Elliott, Montezuma, Iowa, 4 cows, 4 bulls Polled.
Ed. Walton, Bowen, Ill., 3 bulls Polled.

R. T. THORNTON, Sales Manager, 1317 E. 15th St., Kansas City, Mo.



Sale to begin promptly at 10 o'clock a. m.
For Catalogs or other information address

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 7—C. L. Branic, Hiawatha, Kan.
May 27—H. C. Graner, Lancaster, Kan.
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. 28—W. R. Webb, Bendena, Kan.
Oct. 29—Walter Hildwein, Fairview, Kan.
Oct. 30—Harry Wales, Peculiar, Mo.
Nov. 5—R. B. Davis, Hiawatha, Kan.
Feb. 10—H. B. Walter, Effingham, Kan.
Feb. 12—Thos. F. Walker & Son, Alexandria, Neb., at Fairbury, Neb.

Duroc-Jersey Hogs.

Oct. 17—Moser & Fitzwater, Goff, Kan.

Hereford Cattle.

May 6-7—Breeders' sale of Herefords, Kansas City, Mo. R. T. Thornton, Mgr., 1317 E. 15th St.

Shorthorn Cattle.

April 22—George Allen & Sons, Lexington, Neb., at South Omaha.
June 4—John M. Bay, Aledo, Ill.
June 6—C. S. Nevius, Chiles, Kan.
June 10—Bellows Bros., Maryville, Mo.
June 11—H. Rees & Son, Omaha, Neb.
June 12—Owens Bros., Williamsburg, Ia.
June 13—Whittitt Bros., Preemption, Ill.

Aberdeen Angus Cattle.

May 27—P. J. Donahoe, Williamsburg, Ia.
Oct. 22—W. F. Eckles, Green City, Mo.

S. W. Kansas and Oklahoma

BY A. B. HUNTER.

Olivier & Sons, Danville, Kan., breeders of Poland China swine, are taking pains to supply their old customers with new blood. In order to do this they are buying good individuals from the best herds in Iowa, Missouri and Kansas. They are offering some choice bred gilts at reasonable prices. Write them your wants. You can depend on every description they give you. Please mention Farmers Mail and Breeze.

Lookabaugh's Good Shorthorns.

Don't forget, if you want Shorthorn breeding stock that H. C. Lookabaugh, Watonga, Okla., offers you the greatest assortment from which to select of anybody in the West. Another thing Mr. Lookabaugh can supply you with the kind you want and will sell you as many as you want and take your note provided, of course, it is good. Now is a good time to stop at Watonga and take a look at the Pleasant Valley Herd of Shorthorns. When you call or write please mention this paper.

Alfred & Sons' 13th Sale.

S. W. Alfred & Sons, Enid, Okla., will sell at the farm near Enid, Okla., Monday, May 5, 55 head of Durocs, consisting of 43 bred females and 12 fall and summer boars. Alfred & Sons have been consistent winners in strong competitive classes both in Kansas and Oklahoma shows. The writer has known Alfred & Sons and their Duroc herd for the last six years and after a recent visit to their herd agrees with Mr. Alfred in the belief that these 43 bred sows and gilts are the best he ever offered at auction and that is saying considerable. The boars at the head of this herd represent the best blood of the breed. Breeders and farmers as well, will find this a great opportunity to see perhaps the finest offering of bred gilts you have seen this year. Get ready to attend this sale if you want Duroc breeding stock. Write today for catalog. Please mention this paper.

N. W. Kansas and S. Nebraska

BY JOHN W. JOHNSON.

J. H. Harter, Westmoreland, Kan., is advertising 25 September Poland China boars for sale. They will be priced very reasonably and are good prospects.

L. E. Klein, Poland China breeder, of Zeandale, Kan., is advertising big type Poland China boars, of last fall farrow, for sale at reasonable prices. Write him for descriptions and prices.

Arnold & Brady, Manhattan, Kan., are offering Holstein cows and heifers at the farm two miles north of town and will be glad to take you out to see them any day you call. All of them either have calves or will drop calves soon. Write them if interested in good dairy cows for prices

and further information. Mention Farmers Mail and Breeze when you write them.

Big Type Poland China Pigs.

In this issue, Howard R. Ames, Maple Hill, Kan., is offering choice March Poland China pigs at \$10 each. They are strictly big type breeding and out of big matured sows. He has over 60 pigs. He will make no fall or winter sale but prefers to sell his pigs at private sales. He is a young man full of hustle and is building up one of the real good big type Poland China herds. His advertisement appears in this issue in which he is offering March pigs, either sex, for sale at \$10. I was at the Ames farm last week and saw these pigs. They are a dandy lot of youngsters, both boars and gilts, and all eligible to registry. Papers will be furnished with every pig. Mr. Ames is going to try this plan of selling and it surely affords the breeder who is in need of some new blood and a few more gilts a good chance to buy the best at a very low figure. Write for prices and descriptions today. Everything shipped and handled in a careful manner and satisfaction guaranteed is the way Mr. Ames is advertising. Look up his advertisement in this issue and write him today.

N. E. Kansas and N. Missouri

BY C. H. WALKER.

Write Klaus Bros. of Bendena, Kan., about the Hereford bulls they have to offer. They breed the right kind and guarantee satisfaction to their customers.

Harry Haynes of Meriden, Kan., can supply the trade with good O. I. C's. Read his advertisement in which he is making special prices on pairs and trios.

Joe Schneider of Nortonville, Kan., can supply the wants of those in the market for big type Poland Chinas. Read his card announcement elsewhere in this issue and write him for prices and particulars.

F. P. Robinson of Maryville, Mo., breeder of mammoth Poland Chinas, probably sells more stock on mail order than any other breeder in the state. He has a special guarantee he makes on all stock sold at private treaty which coupled with the good stock

JACKS AND JENNETS.

Jacks and Jennets 5 head of Jacks and 10 Jennets for sale. Quitting business. Write for prices. E. M. HICKMAN, Okmulgee, Oklahoma

50 Registered, big-boned, black
JACKS AND JENNETS
from colts to 16 hands high; fine body and style, best breeding. A certificate with each animal sold. Jacks, prices and terms right. Nothing better for Oklahoma and Texas as they are acclimated here.
KINGFISHER VALLEY STOCK FARM,
J. H. Smith, Proprietor, Route 3, Box 17, Kingfisher, Oklahoma.

PUREBRED HORSES.

PERCHERON: Black, high grade; weighs 1500. For cash, other livestock or new auto. Edgar Fisher, Cedar Vale, Kan.

The Best Imported Horses One thousand each. Home-bred registered draft stallions—\$250 to \$650 at my stable doors.
A. LATIMER WILSON, CRESTON, IOWA.

200 Percherons Stallions and Mares For Sale.
Singmaster & Son, Keota, Iowa

Truman's Pioneer Stud Farm
America's Largest Importers

Shire, Percheron and Belgian Horses
Write for Illustrated Catalogue.
TRUMAN'S, Box E, BUSHNELL, ILLINOIS

Percherons--Red Polls

I will sell several choice Percheron stallions, Blacks and grays, of serviceable age (3 to 8 years), weighing from 1800 to 2200 lbs. and broke to service. Also a fine bunch of choice

RED POLLED BULLS
16 to 36 months old, good ones, all fully guaranteed and priced low for next 30 days. Address
GEO. W. SCHWAB, Clay Center, Neb.

DAIRY CATTLE.



Butter Profits

You ought to get more butter profits. Jersey Cattle mean more butter profits, because they yield more butter fat at less net cost of keep than any other breed.

THE JERSEY

excels in beauty of dairy type. She is a persistent milker. Jerseys are easily acclimated. They live long and keep healthy. They mean steady butter profits. Write now for Jersey facts. Free for the asking.
AMERICAN JERSEY CATTLE CLUB
324 W. 33d St., New York

DAIRY CATTLE.

Holstein-Friesian Bulls
Prices right. **H. N. HOLDEMAN, Meade, Kan.**

FOR SALE 35 head of choice young dairy cows, fresh and springing. Special price on herd. **Jack Hammel, 216 Adams St., Topeka, Kan.**

HOLSTEINS FOR SALE 50 head registered heifers and large bulls. 98 head milking and coming fresh grade heifers and cows.
M. P. KNUDSEN, Concordia, Kansas

COW WANTED Not over 5 years old, giving at least four gallon per day. Must be a first-class animal.
F. J. Hill, 1121 Harrison St., Topeka, Kan.

HOLSTEINS—CHOICE
BULL CALVES
H. B. COWLES, TOPEKA, KANSAS.

HOLSTEINS
FOR SALE: Thirty head extra selected high-grade Holstein cows and heifers. Two registered bulls, "yearlings".
ARNOLD & BRADY, MANHATTAN, 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.

OAK HILL HOLSTEINS
Bulls ready for spring service by Shadybrook Gerben Sir Korndyke out of A. R. O. dams. Heifers bred. Also a few fresh cows. All tuberculin tested.
BEN SCHNEIDER, NORTONVILLE, KAN.

Neosho Breeze Stock Farm
offers for sale high grade Guernsey bull calves, 2 to 4 months old, \$15 to \$22.50. Reg. Duroc-Jersey Sept. boars, \$15 and \$20 each. S. C. Buff Leghorn eggs \$1.00 per 15, farm range. **John Perenoud, Humboldt, Ka.**

Register of Merit Bull—Jersey
Year old. Solid fawn. Son of Flora's Golden Fern, 4 in R. of M. Dam Sultan's Beauty, 512 lbs., 1 year, when 23 months old. \$150.00. Bargain cannot be equalled.
R. J. LINSOTT, Holton, Kansas

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.

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.**

60 - Bergner & Sons' Coach Horses - 60

German Coach Stallions at prices you will be able to pay for at one season's stand. Also mares and fillies; all good bone with plenty size, style and action and the best general purpose horse that has ever been imported. The St. Louis Fair Champion Milon 3159 and the Kansas State Fair prize winner Mephistoles 4221 at head of herd. We are pricing these horses to sell and guarantee satisfaction. Write today or call soon.
J. C. BERGNER & SONS, Waldoek Ranch, PRATT, KANSAS.

Imported Percherons and Belgians

I have now for sale a lot of personally selected coming 3 and 4-year-olds as good as France and Belgium can produce. Good heavy bone. Straight draft type with quality and the best of breeding. I give a gilt-edge guarantee, good for two years, with each horse sold. All in just good breeding condition and will be a good investment to the purchaser. I can save you some money on a stallion. Barns four blocks from the A. T. & S. F. depot.
W. H. RICHARDS, EMPORIA, KANSAS

Mammoth Jacks, Percheron Stallions

14 Head of Kentucky Mammoth Jacks



from 3 to 6 years old, from 15 1/2 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, Kansas



Percherons and Royal Belgians



We have decided to offer all of our state fair prize winners, 22 stallions and mares for sale. Every one of these horses has been shown and has been a prize winner at the shows of 1912. These stallions and mares will be sold at exceedingly low prices, quality considered.

We are showing some other good stallions and mares, which we offer at prices that defy competition.

We earnestly request you to look over our stallions and mares, before buying.

True photos from life on application. Address

WOLF BROS., Albion, Boone Co., Neb.
IMPORTERS and BREEDERS

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.

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.

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.

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.

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.

SHORTHORNS.

SHORTHORNS A bargain in a valuable four-year-old bull. This bull is right in every respect. Also some young bulls. L. M. Noffsinger, Osborne, Kan.

SHORTHORN CATTLE
POLAND CHINA SWINE and CLEVELAND BAY HORSES. All stock pedigreed. Prices reasonable. Thos. B. Murphy & Sons, Corbin, Kas.

Shorthorn Bulls

20 yearling bulls. Grades and pure bred. Good proposition for ranchman. Bred Berkshire sows. Daughters of Artful Champion 129065 bred to Jardy. Daughters of Danesford Duke 10th 130879 bred to Robinhood Premier 2d 140430. These hogs are immune.
W. J. GRIST, OZAWKIE, KANSAS.

Glenwood Farms Announce

Shorthorn Sale, bulls and cows, June 6, 1913.

Can spare no more bred sows. Have a few choice boars 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

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.
DR. W. J. CONNER, LABETTE KANSAS.

Mule Foot Hogs Bred gilts for spring farrow all sold. 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

he sells is assurance to the buyer of the best and a square deal. Write him about it.

W. R. Webb of Bendena, Kan., has claimed October 28 as his fall sale date. At that time Mr. Webb will sell a selected lot of big type Poland China boars and gilts. At present he is offering choice fall boars and a fine lot of spring pigs.

One of the best herds of O. I. C.'s in Missouri is that of Jno. H. Neef of the Riverside farms, Boonville, Mo. Write him your wants. He has stock of all ages and can supply your wants at prices that will suit.

H. B. Walter is offering herd headers at prices that will suit. The Walter herd is headquarters for the best in big type Poland Chinas. The boars by Expansive Chief and Long King's Best are a great lot. Write him if interested.

Oak Hill Holsteins as bred by Ben Schneider of Nortonville, Kan., give perfect satisfaction. The bull calves, now ready for service, are sired by one of the breed's great bulls and are out of A. R. O. dams. He also is offering a few bred heifers and a few cows to be fresh soon.

G. & S. Cattle in K. C. Sale, May 6.

The Guggell & Simpson consignment to the sale at Kansas City, May 6, consists of 15 heifers, 2 years old past and all bred. They are all of their own breeding and of course strong in Anxiety 4th blood, the kind that will be a benefit to any herd. They have the well recognized Anxiety 4th type and characteristics, good heads, strong bones, thick flesh naturally, deep bodied and blocky. All of them will make big fine cows. These heifers are sired by Beau Picture, Beau Dandy, Domino, Beau President and Bright Donald. Six of the number are sired by Beau Picture, a son of Beau President out of a Perfection cow, that is producing some of our best calves today. Three are by Domino, a bull that is fast making a great record for himself as a producer of uniformly good things. These heifers are all safe in calf to our regular herd bulls. Some of them will drop calves within 30 days from the sale date. They have not been injured by high feeding but have had plenty of good feed and spent their entire lives out of doors so that there is every reason to believe they will go on, do well and prove regular producers for the purchaser. With grass right at hand this is the most favorable time to get some of these good heifers. They will soon have calves at foot to pay the bill at small expense for production. This is the kind of heifers that will look good in any breeder's herd and the very best of foundation stock for the new beginner.

Branie's Poland Dispersion.

Two or three years ago C. L. Branie of Hiawatha, Kan., started out to lay the foundation for a herd of big type Poland Chinas, that would be second to none. He visited a great many of the leading herds of the day and bought both in public sales and at private treaty the best they had to offer. He got together a collection of sows that for breeding and individual merit would be hard to equal. On top of that he was fortunate in securing one of the best boars of the breed to head this herd. Now just at a time when he is in a position to realize on his investments he is forced through illness in his family to disperse his herd. It is one of the regrettable things about the business that a man has to give up a work he has so well started, but what is his loss will be the gain of those who attend this sale and buy of the good things which a dispersion of a herd like this will offer. On Wednesday, May 7, at his farm near Hiawatha, (free automobile conveyance will be furnished to and from the farm), this sale will take place. All the foundation sows that were carefully selected from the best herds of the cornbelt will be sold. Three of them will have litters at foot and the remainder bred for early litters to O. K. Lad and other good boars. A number of fall boars and gilts and pigs of spring farrow will make up the offering. It is an important sale and especially so at this time. Brood sows were never more valuable than now and the ones in this sale will bring pigs at a time when close to 100 per cent of them can be saved. On top of the valuable lot of sows and pigs to be sold is the fact that the great boar, O. K. Lad will be sold without reservation. This boar from his breeding, his individual excellence, his ability to sire the right kind of stock, his size, his quality, makes him one of the most valuable boars in the business and the breeder who is in need of a first class herd header will consult his own interest by taking advantage of this sale and try to buy him. He probably won't sell for anything like what he is worth, which is all the more reason why some breeder should step in and get him. He is by Pawnee Lad, considered by competent judges to be one of the best boars ever in Iowa. His dam is Big Marie, by Big Prospect, by old Blain's Tecumseh—in fact the sires and sows in his pedigree which has been traced back for five generations and shown in the catalog, gives a list of names that have made Poland China history. O. K. Lad measures 70 inches heart and flank, 72 inches length, 10 inch bone and Mr. Branie informs us that he will weigh now in breeding condition 850 pounds. Prominent breeders and fieldmen pronounce him a great boar. Mr. Branie has had numerous offers made him for this fellow but has consistently refused to price him. Now that this sale is made necessary the breeders will have the opportunity they have long sought. Write Mr. Branie for a catalog of this offering and arrange to be there sale day. Mail bids may be sent to C. H. Walker, fieldman for this paper.

W. Iowa and N. Nebraska

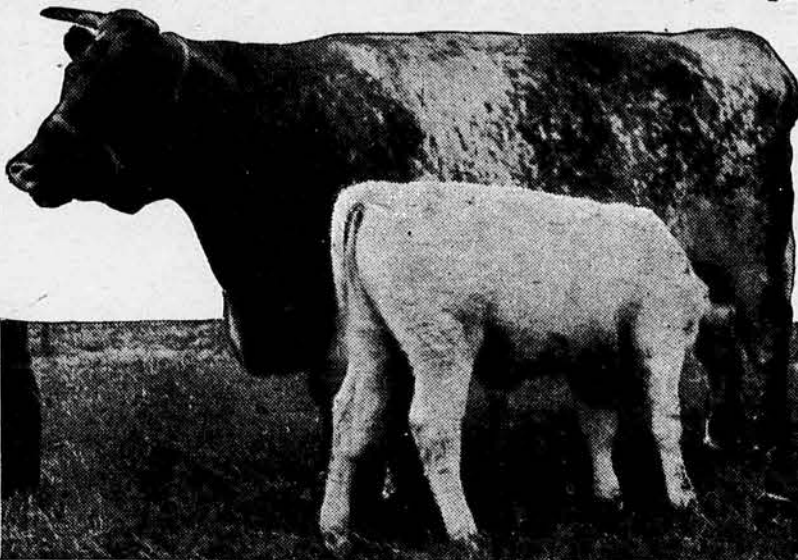
BY GEO. W. BERRY.

Good Shorthorn Bulls.

W. J. Grist, the big livestock man of Ozawkie, Kan., is advertising in this issue of Farmers Mail and Breeze 20 yearling Shorthorn bulls that will meet the demands of either ranchmen or farmers. Mr. Grist can furnish you with either purebred bulls or high grade bulls. Mr. Grist owns one of the good herds of Berkshire hogs in Kansas. He is offering at this time bred sows,

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 \$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.
RICHLI BRED YOUNG THINGS, SHOW PROSPECTS.
HANDSOME YOUNG BULLS, HERD HEADER MATERIAL.
RUGGED YOUNG BULLS, THE FARMER AND STOCKMAN KIND.
In fact a splendid array of foundation Shorthorns, that carry the blood of the best families and the most noted sires of the breed. Don't wait, but come and get your first pick. Visitors always welcome at Pleasant Valley Stock Farm. Write your wants today. Address

H. C. LOOKABAUGH, Watonga, Okla.

Registered GALLOWAY CATTLE

We Breed Market Toppers." JAS. & W. R. CLELLAND, New Hampton, Mo.

BERKSHIRES.

LEON A. WAIT'S Berkshires
A good herd at Winfield, Kan., headed by Lord Duke 3d, 13802.

Hazlewood's Berkshires!
Choice spring boars and gilts priced to sell. Write today. W. O. Hazlewood, R. 8, Wichita, Kansas

HAMPSHIRE.

WRITE J. F. PRICE, Medora, Kans.
For prices on Pedigreed Hampshire Hogs

PURE BRED HAMPSHIRE
Breeding stock all sold. Booking orders for spring pigs. ALVIN LONG, Lyons, Kansas

Pedigreed Hampshires of various ages, not a kin. Four boars, 8 months old. C. E. Lowry, Sumner County, Oxford, Kansas

Hampshires All Sold

I have sold every sow that we can spare. Am booking orders for May and June delivery. Low prices. First orders get March pigs. T. W. LAVERLOCK, PRINCETON, KANSAS.

O. I. C. SWINE.

O.I.C. Pigs Pair, \$25.00. Harry Haynes, Meriden, Kansas

GOOKIN'S O. I. C. HOGS. Booking orders for different boars, out of sows not skin. Priced to sell. F. C. GOOKIN, RUSSELL, KANSAS.

CHESTER WHITE HOGS
Good quality, either sex, the short nose kind. Write for prices. FRANK PROCHASKA, Glasco, Kans.

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.

O. I. Cs., 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 Climax, one of "The kind that wins." W. W. WALTIRE & SONS, Peculiar, Missouri

Neef's Cholera Immune O. I. C's.

Pure bred seeds and S. C. R. I. Reds. Hogs all ages for sale reasonable prices. Special on sows and gilts bred for spring farrow. Have choice lot Red's Yellow Dent, Boone Co. White and Cartner's seed corn at \$2.00 per bu. shelled and \$3.00 in ear. Re-cleaned 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.

O. I. C. SWINE.

THIS O.I.C. SOW WEIGHED 932 LBS. AT 23 MONTHS OLD
IONIA GIRL

I have started more breeders on the road to success than any man living. I have the largest and finest herd in the U. S. Every one an early developer, ready for the market at six months old. I want to place one hog in each community to advertise my herd. Write for my plan. "How to Make Money from Hogs." C. S. BENJAMIN, R.F.D. 33 Portland, Mich.

DUROC-JERSEYS.

Perfection Stock Farm!
Fall boars and gilts, also orders booked for choice spring pigs by State Fair Champions. Pairs and trios not related. Prices right. CLASEN BROS., UNION CITY, OKLA.

FALL BOARS BY DREXEL'S PRIDE

the sire of my show hogs. Spring pigs by him and Queen's Wonder 112317, a sensational Crimson Wonder Again yearling. All choice and priced right. W. T. HUTCHISON, CLEVELAND, MO.

DUROC-JERSEY BOARS

10 head of well bred Duroc-Jersey boar pigs, healthy, with good backs, feet, head and ears, dark cherry color, of popular breeding and priced reasonable. F. O. B. your station if wanted. ARTHUR A. PATTERSON, Ellsworth, Kan.

TATARRAX HERD DUROCS

Some good fall boars and gilts by the grand champion Tatarax and G.M.'s Tat Col. In good condition and priced right. Write today for further particulars. Hammond & Buskirk, Newton, Kan.

Dreamland Colonel

Summer and fall boars and gilts for sale. Everything immune. Nothing but desirable animals offered. Prices reasonable. LEON CARTER, Asherville, Kan.

Quivera Place Durocs

A few, choice summer boars and gilts, sired by Quivera 106611. E. G. MUNSELL, Herlington, Kansas.

Hillside Herd

Summer boar pigs, 150 to 200 pounds, at prices to move them. One yearling. Plenty of size, bone and quality. W. A. Wood & Son, Elmdale, Kan.

Bonnie View Farm

Duroc-Jerseys: Fall and spring pigs. Plymouth Rocks: Eggs in season. Searle & Cottle, Berryton, Mo.

DUROC-JERSEYS.

\$40 Bred Gilts \$27.50

335 Boars, \$22.50; Fall Pigs, either sex, \$7.50. Write for special introductory offering of Draper's big boned, long, healthy, pure bred, guaranteed Durocs; raised in spring watered, sanitary, timbered pasture, on meat, waste and clover. Largest herd of polished Durocs in N. W. Arkansas, shipped from my Ozark White River stock ranch. Address: W. R. Draper, 10th & Baltimore, K. C., Mo.

Duroc March Pigs \$9.00 and up, by Model and Tatarax Boy. R. W. Baldwin, Conway, Kan.

A Fine Offering Fall Boars and Gilts
Booking orders for spring pigs. Best of breeding.
R. C. WATSON, ALCOONA, 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.

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. 28279 and Col. Scion 100471. 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, \$52.00. Write for prices.
W. W. OTEY & SONS, Winfield, 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 notakin. Prices right. Customers in 8 states satisfied. Describe what you want, we have it.
D. O. BANCROFT, OSBORNE, KANSAS.

POLAND CHINAS.

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.

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, herd headers. Satisfaction guaranteed on all breeding stock.
OLIVIER & SONS, DANVILLE, KANSAS.

Schneider's Poland Chinas
Can furnish choice summer and fall pigs, pairs or trios, not akin, by Guy's Expansion and Goldust Hadley. All of breeding age and priced to sell.
JOE SCHNEIDER, Nortonville, Kansas.

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 Referendum 56623 and out of Whiteface Queen. Real Herd Header material priced low to make room.
A. N. WAECHTER & SON, Riverton, Nebr.

Big Type Polands!
Young boars ready for service and open gilts ready to breed. They are strong in the blood of Big Hadley and A. Wonder. The big smooth kind. Every description guaranteed. Call on or write.
A. R. ENOS, RAMONA, KANSAS.

45 BRED SOWS AND GILTS
Poland Chinas, in public sale, Thursday, April 3rd. Also a few choice fall boars in same sale or at private sale. Hogs of a higher order but priced within the reach of all.
ROY JOHNSTON, South Mound, Kansas

COLUMBUS
The 1050-lb. Grand Champion, 1912, Nebraska, Kansas, Missouri and American Royal, heads my herd
Big Type Poland Chinas
R. B. BAIRD, Central City, Nebraska

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.

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.

daughters of Artful Champion, bred to Jardy, and daughters of Danesfield Duke, bred to Robinhood Premier 2d. These sows represent the best in Berkshire breeding and in individuality they are up to their breeding. Write Mr. Grist for prices and particulars.

Business Good at Bushnell.

Truman's Pioneer Stud Farm of Bushnell, Ill., reports that the demand for strictly high class Shires, Percherons and Belgians continues good, and that they are in position to accommodate all who come wanting that class of horses. This firm is the largest importer of strictly high class Shires in America and their importations include as good Percherons and Belgians as cross the waters. During the latter part of March they sold 37 head of horses. These horses went into Illinois, Indiana, Minnesota, Iowa, Wisconsin and Missouri. They also sold several head that went into Canada. This firm has issued one of the neatest catalogues we have seen this year. This catalog gives a history of their business and includes a number of illustrations of their 1913 importations. They will gladly send their catalog to any of our readers who request it. Please mention Farmers Mail and Breeze when writing.

S. E. Kansas and S. Missouri

BY ED. R. DORSEY.

Harry Wales's Fall Sale.

Harry Wales of Peculiar, Mo., will hold his annual fall sale of Poland Chinas October 30. He has made fast friends of his customers by honest, fair dealings, and with the many good offerings he has been placing before the farmers and breeders for a number of years. Mr. Wales is naturally qualified for this business. His judgment is unquestioned, his business methods are excellent and he is a gentleman all the time. Those who attend his sale October 30 will find a splendid lot of hogs of the very largest and best type. Time after time the writer's attention has been called to stock bought at Harry Wales's sale and in every case they have been a paying investment and the owner is highly pleased. Mr. Wales has nothing for sale now and does not care to book orders for spring delivery because he will keep his very best for the sale.

Editorial News Notes.

Cement Stave Silos.

Cement staves are now being used to construct silos. The staves are treated so that they are practically impervious to moisture and as the slabs are 30 inches long, 10 inches wide and 2 1/4 inches thick, with one concave and one convex edge, they match together as nicely as boards in a floor and are easy of construction and will last many lifetimes. They never crack by cold or heat and in fact have every advantage that a silo should have without the defects that some have. Write today for full particulars, mentioning Farmers Mail and Breeze. Address Portland Stave Cement Silo Co., Wichita, Kan.

Concordia Safe Company.

The Concordia Safe Company is seeking agents. A few years ago Ed Peterson, the manager of this company, placed a small safe in his automobile and started out along a rural route—he sold the safe to a farmer. The next day he did the same stunt over. He succeeded so well that he formed a company to handle the sale of safes. Now he wants an agent in every township. Mr. Peterson says that an agent can make money by devoting all or part time to selling safes to his farmer friends. If you are interested write Concordia Safe Company, 1300 West 11th St., Kansas City, Mo.

Admiral Hay Press.

On another page of this issue there appears the advertisement of the Admiral Hay Press Co., manufacturers of one of the leading hay presses of this country. Last season this company broke all records and enjoyed an immense sale of their product in the corn belt states. The Admiral Power Hay Press is an all purpose farm power plant on wheels, useful every day in the year and is moved about from place to place as easily as a farm wagon. It weighs less than 4,000 pounds and a team can haul it anywhere. The Admiral Two Man, a strong, light durable press, is a pronounced success. It has made good with thousands of farmers. If you are interested in hay presses write today to the Admirable Hay Press Company, Box 37, Kansas City, Mo., for the booklet describing both the two man and the power press. This booklet is absolutely free.

The Liniment You Need for Your Horse.

Now is the time that you want your horses in A-1 condition—get them ready for the buyer's keen examination—they know a good horse when they see it. Increase the market value of your horse by removing any blemish that may be present. Absorbine is the preparation you are looking for. It is more than a liniment—it is an antiseptic and germicide of proven value. This makes it especially successful in open sores or wounds, as it kills the germs and makes the part aseptically clean. Matt Cohen, Lexington, Ky., writes under date of October 19, 1912: "I wish to state that your Absorbine stands out prominently head and shoulders above all remedies for the removal of enlargements, callous growths, and speedy restoration of bowed tendons, not to mention the benefits derived from its usage after a hard, grueling contest, and for the past 10 years I have not left my stable of show horses without a full supply, always finding it the very remedy for keeping them in first class show condition, and to its benefits, I attribute much of my success." Absorbine \$2.00 a bottle at druggists, or sent direct, all charges paid, upon receipt of price. W. F. Young, P. D. F., 209 Temple St., Springfield, Mass.

In twelve months 1,443 divorce suits were filed in St. Louis. During that time 7,929 marriage licenses were issued.

POLAND CHINAS.

Sunny Side Poland Chinas The herd of size bone and quality. Stock priced right. Satisfaction guaranteed.
J. G. BURT, SOLOMON, KANSAS.

NEBRASKA TYPE POLANDS Choice summer and fall boars and gilts, by Hagen's Big Hadley 2nd, Pan Wonder, and Nebr. Chief C. C. INGRAM, Bloomington, Neb.

SPOTTED POLAND CHINAS
A few young males ready for service. Faulkner blood lines.
W. C. SIMPSON, Attica, Kan.

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.

Dean's Mastodon Polands
Poland China hogs, the big-boned type, will weigh when mature, 800 to 1,000 lbs. Will sell a few boars of serviceable age, also choice brood sows and gilts, bred to my herd boars, for spring farrow. All
Immunized by Double Treatment
Herd headed by Mastodon Price, Columbia Wonder and Gritter's Longfellow 2d. Everything guaranteed and sold worth the money. Address
CLARENCE DEAN, WESTON, MISSOURI

POLAND CHINA.

Summer Poland Chinas
Big Type June and July gilts being bred to GOLD MINE for July and August farrow. Serviceable boars, litter brothers to above. September and October pigs by GOLD MINE and PAN LOOK. Both sexes. Priced right.
DIETRICH & SPAULDING, Richmond, Kansas

POLAND CHINAS!

Bred sows at private sale. Also fall and spring boars. Sows bred to Tom Lipton, Welcomes, Iron Clad 2d and others. Priced right. Ask for prices and descriptions.
JOSEPH M. BAIER, ELMO, 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.

EXPANSIVE CHIEF FOR SALE!

One of the greatest breeding sons of the great Expansive. A 2-year-old and a proven sire. Also a few extra topsey fall boars—herd headers—by Expansive Chief and Long King's Best. All are immune from cholera. I have just the boar you want.
H. B. WALTER, EFFINGHAM, KANSAS

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 UNPAMPERED BERKSHIRES

200 sows bred to Fair Rival 10th, King's 4th Masterpiece, Trusttype, King's Trusttype, 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.

DISPERSION
of the BRANIC HERD

Big-Type Poland Chinas

Owing to sickness in my family I am forced to make a complete dispersion of my herd—everything will be sold, nothing reserved. All the brood sows, fall and spring pigs and my herd boar, O. K. LAD go in the sale at farm near

Hiawatha, Kansas
Wednesday, May 7, 1913

FIFTEEN TRIED SOWS, three with litters at foot, by O. K. Lad and the remainder bred to him. Three fine yearlings, bred. The get of 17 different boars go into this sale—boars that have made and are making Poland history, such as Pawnee Lad, Gold Metal, O. K. Lad, Metal Choice, Jumbo Jr., Banner Boy, King Mastodon 2d, Union Leader, etc.

THE GREAT BOAR, O. K. LAD, 58098 will also sell. In this boar I believe I have one of the best of the breed. Breeders and fieldmen say he is outstanding. He is a three year old, of great scale, measuring 70 inches heart and flank, 72 length, 10-inch bone and weighs in present breeding condition 850 pounds. He is of show yard character individually and is a great sire as his pigs in this sale will show. To those in the market for a herd header this great boar will fill the bill in every particular. I have repeatedly been asked to price this boar and only the circumstances which make this sale necessary makes it possible to buy him.

FALL AND SPRING PIGS, both boars and gilts are included in this sale and they are a fine lot. No better time to buy than right now and I believe I can convince you that my stock is worthy your patronage. Be sure and get my catalog—Sent upon request by mentioning Farmers Mail and Breeze.

C. L. BRANIC, Hiawatha, Kan.

C. H. Walker, Fieldman. Cols. Scott & Miner, Auctioneers.

Some Faults in Road Making

BY E. B. HOUSE,
Colorado Agricultural College.

Mr. Editor—It has been said that a good road consists of a tight roof and a dry cellar, and this is true in every particular. No road can be lasting that absorbs water to any appreciable extent. No road can be lasting that has a subsoil sufficiently wet to keep the earth moist and spongy; these roads will always be rough and rutty, and no amount of surface work can remedy the condition.

When new earth is placed on the road, the grinding action of the wheel and the pounding action of hoofs compact the earth, break up its texture, it becomes puddled and then drying forms a hard dense material practically impervious to moisture. If the surface of the road is given the correct shape, the water will drain to the side and away from the road rather than be absorbed by it. In this way an earth road can be made with a tight roof. If water exists in the subsoil and the water table is sufficiently close to the surface to cause the earth to be continually damp, there is only one remedy and that is to drain this land.

Whenever there occurs a bad piece of road, 9 chances out of 10, it is because the side drainage is not taken care of properly. It is allowed to run down the side ditches parallel to the road until it comes to a low spot and there it collects until the whole road surface is flooded. The remedy is obvious. As much care should be taken in the survey of the side ditches to relieve them of water as in giving a road the proper crown. Ft. Collins, Colo.

To Advertise the Apple

The strongest selling force of the Twentieth century is now being applied to the apple industry. Co-operative advertising is educating the public to make apples a staple food in the household, thus insuring sufficient consumption to care for the ever-increasing crop. The results secured during the winter were so great that a movement is now under way for a country-wide advertising campaign, financed in the manner that the various governments have used over and over when it was desired to raise large amounts without unduly taxing any one individual—the stamp plan. Each box of apples shipped will bear a 1-cent stamp and each barrel a 2-cent stamp. Thus every grower and shipper pays only his just proportion. If he ships 50 packages, he buys only 50 stamps; if he ships 1,000 packages, he buys 1,000 stamps. Thus the expense is borne equally by everyone interested.

On August 1 next the stamps will be placed in circulation. Every grower and shipper is asked to place one on each package he sends out. Thus at a low and equitable expense to each a sufficient fund will be created to make the new crop move to a lively tune that will be a welcome contrast to the dead march that has accompanied King Apple in the recent past.

Advisers Find Enough Work

The two demonstration agents in western Kansas, G. E. Thompson at Dodge City and Clyde McKee at Norton, have secured the co-operation of 40 farmers each, on whose farms crop and cultivation experiments will be carried out. Many more farmers are planning to handle their land according to the agents' recommendations although the agents will not be able to visit them more than once or twice a year.

Four demonstrations are planned: Spring plowing and summer fallow for wheat; spring listing and summer fallow for wheat; early disking and listing to the inter-tilled crops, Kafir, milo, sweet sorghum or corn; early spring listing followed by listing to Kafir, milo, sweet sorghum or corn. The last two methods are by far the most popular, showing that farmers are beginning to have more faith in feed crops and livestock than in wheat.

German Continuation Schools

Germany does not allow her boys and girls to enter "blind alley" employments if she can help it. The German continuation school system takes hold of the

boy of 14 or 15 as soon as he finishes the elementary school and prepares him for some particular trade or business. There are classes for bakers, butchers, barbers, waiters, painters, decorators, blacksmiths, tailors, cabinetmakers, and in fact for any other occupation in which it is practicable for a boy to engage. Even if the boy does not aspire to be a skilled workman, but is content to become a street cleaner, house servant, messenger, or to engage in any other form of unskilled labor, he is nevertheless required to spend three years in the continuation school.

Besides vocational training, the pupils in these continuation schools receive instruction in certain branches designed to aid them as citizens—civic affairs, trade history, and community welfare—in addition to composition and arithmetic based chiefly on the vocational work.

Better Plant Corn About May 1

If experiments at Kansas Agricultural college are to be accepted as conclusive May 1 is the best date to plant corn in Kansas. A 3 year test recently completed by the college showed that corn planted on that date suffered less damage from the corn ear-worm and also yielded 18 bushels more corn to the acre than any other plot in the test. Six plots were planted each year on the following days: April 15, May 1, May 15, June 1, June 15, and July 1. Boone county White, Kansas Sunflower, and Hildreth were the three varieties planted. In the case of the corn planted April 15, 64 per cent of the ears were injured by worms; that planted May 1, 58 per cent; May 15, 70 per cent; July 1, 100 per cent. The reduction in the ear worm injury in the May 1 planting was due to the fact that the corn had finished silking before the large third brood of moths was out. The increase in yield probably is due to the fact that the corn was in silk before the really hot weather came.

Percheron Prizes For Kansas

The Percheron Society of America has recognized 46 shows and fairs in the United States this year for which it has appropriated prize money amounting to \$9,430. Add to this, premiums, ribbons, medals and cups, to be awarded by the society brings the total outlay up to \$17,000. Among the fairs to be benefited by the society's appropriations are the two state fairs at Topeka and Hutchinson, the state fairs at Lincoln, Neb., Des Moines, Ia., Oklahoma City, Okla., Sedalia, Mo., the Interstate Fair at Sioux City, the American Royal at Kansas City, and the International at Chicago.

Let Kansas Boys and Girls Try

The office of public roads, department of agriculture, has offered a medal to the boy or girl who writes the best composition on the repair and maintenance of earth roads. The contest is open to any boy or girl between the ages of 10 and 15, who is attending country school. The composition is not to exceed 800 words and must be in Washington, D. C. before May 15. Knowledge gained from books may be used but quotations should not be made. Write on one side of the paper, number sheets, give name, address, and school, and mail your composition to Logan Waller Page, director of the Office of Public Roads, Washington, D. C.

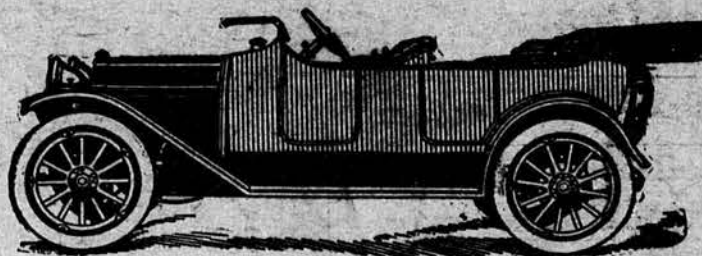
Crop Values Lowest in Years

The average of prices received by producers of the United States for staple crops increased 0.3 per cent from March 1 to April 1, which compares with an increase of 6.0 per cent in the same period a year ago and an average increase of 2.1 per cent during March the last five years. On April 1 prices of staple crops averaged about 25.9 per cent lower than on like date of 1912, 3.7 per cent lower than in 1911, 18.2 per cent lower than 1910, and 13.0 per cent lower than in 1909, on like date.

U. N. Deags, Partridge, Kan., sends \$1 and writes: "I heartily agree that the Mail and Breeze is the best farm paper printed and I also like the policies you advocate."

PAIGE 36

\$1275



Paige Model Glenwood, 5-passenger touring car

Equipped Like Cars That Sell for Twice as Much

At the New York and Chicago automobile shows, and wherever this car has since been shown, people have simply marveled at the equipment of the Paige "36." And no wonder.

The Paige "36" is equipped like cars that sell for twice as much, and even more.

Gray & Davis electric starting and lighting system. Silent chain-driven motor shafts. Bosch magneto. Cork insert multiple disc clutch. Five demountable rims. Ventilating windshield built into the body. Silk mohair top. Stewart revolving dial speedometer. And all the incidental equipment, of course, such as top cover, lamps, tools, tire irons, robe rail, foot rail, and license bracket.

It's such equipment as you don't find on other cars selling at prices even near the Paige "36" price.

But, extraordinary as this equipment is, the car itself is every bit as remarkable. A big, roomy car with lots of power, 116-inch wheel base, 4-in x 5-in. motor, wide seats and deep cushions. And the motor is as quiet as the watch in your pocket.

Come see the Paige "36." You will see at a glance that it is an unusual value, and the more you study the car the better you will appreciate how much it offers.

There's a Paige dealer near you. If you don't know him write us. Get our new catalogue at once.

PAIGE-DETROIT MOTOR CAR CO.
365 Twenty-first Street, Detroit, Mich.

Glide
"36-42"

Up-to-date Features

Automatic Dynamo Lighting System
Motor-driven Tire Pump
Center Control
Left Side Drive
Electric Side Lamps in Dash
Electric Headlights and Rear Lamp
An Efficient Self-Starter
Floating Rear Axle with Pressed Steel Housing
Unit Power Plant
118-inch Wheel Base
Demountable Rims (Baker bolted-on)
Goodyear No-Rim-Cut Tires

THE BARTHOLOMEW COMPANY

68 Glide Street, Peoria, Ill.

Write
NOW for
FREE BOOK

describing and illustrating the GLIDE "36-42" in detail, in both 2 and 5-passenger styles. Get your pencil out right now and drop us a postal before you forget.

YOUR CAR

is here, at last!

THE new 1913 GLIDE is the car you've been waiting for—the car that's strong enough to stand up on rough country roads, yet light enough to be easy on tires and fuel—the car that will climb the steepest hills—speed you along at 60 miles per hour—give you no trouble whatever.

The car that looks as good and is as good as any car that ever passed your door—that contains all of the newest equipment features of the highest priced cars.

Truly a first class car in every respect—that will give you complete satisfaction in every way—yet priced at a reasonable figure that you will be perfectly willing to pay.

Such a car is the New 1913 GLIDE "36-42"—made in Peoria by

The Bartholomew Company

whose enviable reputation as high class manufacturers you have known of for over 30 years!

Don't think of closing any Auto deal until you learn about the GLIDE "36-42."

You can pay more, and get less—pay less and get little

5-Passenger
GLIDE
"36-42"



Fully equipped \$1690
Let Top and Glass Front \$1640