

Volume 45

Number 6

The Farmers Mail And Breeze

February 6, 1915

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THE FARMERS MAIL AND BREEZE

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Facts About Hens

Nothing So Important as Healthful Surroundings

By D. M. Campbell D. V. M.
American Journal of Veterinary Medicine



TOO many persons put money into the poultry business without first learning how to care for the fowls they buy. Chickens won't prosper if they are turned loose to eat anything and everything, to sleep anywhere, in all kinds of filth. The flock will soon show the results of neglect. Few men would think of going into the horse and mule business, or into the feeding of steers without carefully studying those animals and their needs. The rule holds true as to chickens. A few elementary facts may be valuable for the man who expects to be a poultryman.

When an ailing bird is discovered in any flock it should be isolated immediately. Do not wait to discover what is the matter with it, whether it is an infectious disease or a disease at all, or until you decide what treatment to give. Remove it from the healthy birds first and decide upon further measures afterward. The same directions apply with equal force to the finding of dead birds. Remove them immediately and unless there is every evidence that it has not died of disease disinfect the spot where the dead bird was found.

Sick birds should be placed by themselves where they will not be molested by other birds or animals. They should have as comfortable quarters as possible and should not be disturbed except for treatment. Unless the poultryman is very positive that he knows what ails them and what means should be taken to prevent others in the flock from acquiring the same disease, he usually will find it best to call a veterinarian and leave the matter with him. Particularly is this true if there be a large number of birds on the premises or if the flock be one of high value, because of pure breeding.

Immediately after the removal of a dead bird from the flock the poultryman should satisfy himself as to the cause of the death. If there is any doubt as to what has caused the death a careful autopsy should be held. As a postmortem examination ordinarily means very little to one without at least some fundamental training in pathology, the poultryman ordinarily will find it advantageous to take the dead bird to his veterinarian for examination. This should be done immediately, before the changes incident to decomposition have masked the lesions which disease may have produced.

Burn the Dead Ones.

The dead birds found in a flock should be burned without regard to whether they died of contagious diseases, because even if they have died of some other cause the chances are that they harbor intestinal parasites which may be spread from the carcass to live birds. Where time cannot be taken to burn the dead birds they should be buried and buried deeply, so that they cannot be dug up by dogs, and so that worms may not carry infection to the surface of the ground.

On farms of considerable size where attention is given chiefly to general crops and a few fowls are kept on an almost unlimited range, the loss from disease may be small where indifferent or even bad sanitation prevails, but in intensive poultry plants, where the number of birds is large for the size of

the range there can be no continued exemption if reasonable sanitation is not observed. Any attempt to operate such a plant in insanitary buildings and yards or under conditions that do not permit of sanitation, while it may succeed for a time, will result in loss oftener than profit, and finally will fail.

A rolling or even steep plot of ground is desirable for poultry houses and runs for the fowls. A necessary requirement is good drainage; it must be provided artificially if the location is such that natural drainage is not perfect. The surface of the poultry yard must be free from unevenness so that water will not collect in little pools. The poultry runs and buildings must have a free exposure to sunlight, although some shade must be provided for protection during excessively hot summer days. The soil should contain a good proportion of sand. It is essential that it be of such a nature that the runs will not readily become muddy during wet weather, and will dry very quickly after rains.

Let In the Sunlight.

Admit the sunlight freely to all parts of the building; provide for excellent ventilation without permitting a draft to blow directly upon the roosts, and keep it clean. Sunlight is one of the most powerful of disinfectants, and is necessary to the health and contentment of the fowls. It has the advantage also of revealing filth in the building which might otherwise escape the eye of the attendant and remain to breed disease in the flock.

Ventilation should be definitely provided for in the plans with ventilators and the proper arrangement of doors, windows and other openings. It should not be left to cracks in the walls and to chance openings.

Cracks in the walls are an abomination, an ever present protection and nursery for external parasites, and a shelter in which disease germs may defy disinfectants.

The interior of the poultry house should be whitewashed after a thorough cleaning and disinfecting two or three times a year. Whitewash is desirable because of its clean appearance, its cheapness and ease of application (use a spray pump); because of the antiseptic value of the lime and of its high reflection of light.

The roosts should of course be removable to permit of cleaning and should come near to the floor so that heavy birds may not be injured in jumping off them. Like the walls they should be free from cracks and white-washed two to four times yearly. During the heated season they should be wet with kerosene (use a paint brush) once a week. This will aid very materially in keeping mites and lice from the fowls.

The floor of the poultry houses should be of concrete; it should be filled in until it is several inches to a foot higher than the surface of the ground surrounding the building immediately and beneath the concrete there should be a layer of cinders or very coarse gravel 6 or 8 inches thick. A floor so constructed will not absorb dampness from below. It is lasting and easily cleaned and disinfected.

An open shed facing the south where the birds can enjoy scratching and the dust throughout the year is a valuable aid in maintaining the health and productiveness of the flock.

Portable houses and runs that can be moved from place to place give fresh soil, a change of food, abundant insects, have many advantages in sanitation. The yards or runs should contain at least 100 square feet of space for every bird, and they should be well drained and wholly free from puddles of mud and water. They must be ex-

posed to sunshine and should be dug up or plowed occasionally to permit the sun's rays to reach the parasites and germs contained in the soil.

The two-yard system offers many advantages over the single yard. It permits of disinfection by tillage and the growth of a forage crop in the yards alternately and is quite effective in preventing serious infestations of gape worms and intestinal parasites.

Clean Water.

Fowls require water in abundance at all times for the best production of eggs, which are 60 per cent water, and flesh which is 60 to 80 per cent water, and to avoid suffering during hot weather. The water should be clean, supplied fresh every day and in vessels raised from the floor so that the birds cannot get into it. The various infectious diseases and parasitisms among birds are spread in most cases not by direct contagion between the sick and the well birds, but indirectly through the medium of the soil and roosts on which the birds live, the food they eat and the water they drink.

The most desirable antiseptic to use in the drinking water is potassium permanganate. Place a quantity of the crystals in a large bottle or jar and fill with water; of this solution use sufficient in the drinking water to give it a slight color that will remain for some hours. More water may be added to the stock solution from time to time as needed; care being taken to keep an excess of the permanganate crystals always in the bottom of the jar.

Liquid disinfectants are best applied with the spray pump and all the force possible should be used in throwing the spray on the walls. In this way it will reach all parts of an uneven surface better than when applied with a brush and much time will also be saved in its application.

Disinfectants will act more vigorously when applied hot and solutions should always be at least warm when they reach the surfaces to be disinfected.



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Passing Comment — By T. A. McNeal

Some Light On Currency

I see that the Topeka Industrial Council has passed a resolution asking the legislature to invite my old friend, M. V. Rork to address it on the subject of "Money Without Interest." I do not know, of course, what the legislature will do about it, but as Harry Lauder, the Scotch comedian, would say—I will say this: Mr. Rork is capable of giving the majority of that legislature pointers on the money question.

A Poultry Number

This number of the Farmers Mail and Breeze is devoted largely, as you will see, to the discussion of poultry. As I am not entitled to the credit for getting together this poultry symposium I can say without egotism that I think those interested in the business of raising poultry will be able to get a great deal of valuable information out of this number, many times the subscription price of the paper.

There probably has been more loose and foolish talking and writing on the subject of raising poultry than on almost any other line of business. One would infer from a good deal that has been written and talked that all anyone had to do to start on the road to affluence was to get some hens and turn them loose. It was easy for the uninformed to get the impression from the talks and written eulogies about the Kansas hen that half a dozen hens would be sufficient to support an ordinary family and that a hundred would mean a princely income.

Experience has disillusioned a good many persons who had never had anything but theoretical knowledge of the poultry business. They discovered to their sorrow that no business required more careful attention and better judgment in order to make a success than the chicken business. Prior to trying it themselves they labored under the delusion that anybody could take care of chickens, in fact, they supposed that the chickens would take care of themselves.

They supposed that hens were always healthy and happy. They found in actual experience that hens were subject to more kinds of disease than children or cattle or any other kind of livestock and were subject to more changes of mood than Kansas weather.

I think it is conservative to say that in nine cases out of ten persons who engaged in the chicken business without previous training and experience have lost money, until through hard, trying experience they have at last learned how to take care of their flocks; what kind of fowls to raise; what to feed them; how many to run in one flock and how to guard against the numerous ailments and afflictions of the chicken family or whatever family of fowls they might be trying to raise.

A great many have given up, discouraged and disillusioned, before they learned the necessary lessons and have bitterly proclaimed that there is no money in the chicken business. That they are wrong about this is shown by the success a great many people have made in the business. The trouble with them was that they did not know how and therefore failed.

Must Have the Germs

Another thing I believe to be true: In order to make a first class success of the business the poultry raiser must have a natural genius for it. A great many persons who have not this natural genius may be educated so that they can get along fairly well and make a moderate success, but they never will really reach the "Alpine heights of success," as the school graduate would say, unless they have the natural genius.

My own experience with poultry was confined to the old home farm, where we reared chickens, geese and guineas in a haphazard, desultory way. The hens were not selected with any reference to breed or laying qualities. They were permitted to make their nests almost anywhere.

One of the things I enjoyed on the farm as a boy was hunting the eggs. There was a certain spice of adventure about it. The hens were in the habit of seeking out secluded spots back under the rafters of the old barn in the hay mow, or maybe under the barn or out in the fields in a grass grown fence corner. I would crawl about the hay mow under the dust and cobweb-covered rafters and if I could discover a nest full of fresh laid eggs it was a triumph.

I felt like a discoverer and experienced perhaps some of the thrills of Columbus when he sighted the shores of the new land. Later on in the good old summer time the hens concluded to "set" and this afforded some more thrills.

In my exploring trips I occasionally would run on to a belligerent hen who would put up a stiff fight to defend her nest. Sometimes I succeeded in pulling her off the nest; sometimes I beat a more or less masterly retreat.

During the early spring months we had a surfeit of eggs. Every farm was in the same fix. Great baskets of eggs would be taken to the village stores and taken by the merchant in trade. As there were no cold storage facilities in those days and the markets were irregular and uncertain, the village merchant was soon swamped with eggs. The price would go down at times to the pittance of 5 cents a dozen or less and the merchant did not want them at that.

This flood of hen fruit lasted perhaps a couple of months and then the supply ceased as abruptly as it began. After that the farm wife was in luck if she could get enough eggs for Sunday cakes and custards. So far as eggs were concerned it was either a feast or a famine.

Naturally little attention was paid to the poultry business under such conditions. I have not a doubt that if an accurate account had been kept on that farm it would show that every hen cost five times as much as she produced.

Frequently the hens would steal away to some fence corner and there sit and incubate an egg or two and finally come clucking proudly to the barnyard followed by a single chick. The hen's pride of family is not proportioned to its size. The hen with a single chick seems to be inordinately proud of her work while the hen that has to look after from one to three dozen often shows a becoming humility.

Under modern scientific methods of poultry raising the hen really has no occasion for maternal pride. She is the victim of circumstances and deceit. She has generally no part in hatching the brood she is called on to guard and protect. She is only a step mother and is compelled to stretch herself to the limit to cover the vast number of machine hatched children confided to her care.

I hope that the readers of the Farmers Mail and Breeze who are interested in the poultry business will be able to gather a lot of useful information from this number that may save them from mistakes and financial loss.

A Means For Preventing War

I am in receipt of a communication from L. C. Mann of Geuda Springs on the method of preventing war. Mr. Mann is very naturally and properly exercised over the terrific waste and bloodshed and cruelty of war and, like every other right-thinking citizen has studied the question of how such a crime can be prevented—for war is not only a crime but the very greatest of crimes.

I have not space for all of Mr. Mann's article but here is the substance of his suggestion: "Create an international government with well defined power to act on all international questions and from whose edict there is no appeal."

This international government, Mr. Mann goes on to say, would have a constitution and all nations would be represented according to their several populations. All the nations, members of this international government, would be required to give to the international government all their war equipment except so much as may be necessary for police protection.

Under this international agreement or international government no individual nation would be permitted to declare war on any other nation and in event any nation refuses to submit to such agreement the other nations, members of the international government may be called on to use so much force as is necessary to compel the unruly nation to behave itself.

Mr. Mann's idea is the same, stated perhaps a little differently, as that of an international court containing representatives from all nations, which would have authority to settle all questions of international dispute and which would have under its control an international police force sufficient to enforce its decrees. I am and long have been in favor of the idea. The trouble however, is to get the rulers of the various nations together on such a proposition,

In my opinion if the rulers, I mean by that the ruling powers, would agree to such an arrangement there would be no trouble with the people of the various nations. It is true that the people have to do the fighting in war, but the war is not of their seeking. They have come to realize that war brings only death, misery and added burdens of taxation to them.

It is easy enough to say that the nations ought to establish a great world federation, for that is what Mr. Mann has in mind, and what everybody has in mind who advocates an international tribunal, but will it be possible to get the ruling powers to agree to such a plan? I am not very hopeful about it.

A few men in Germany, Russia, Austria, France and Great Britain could have prevented the present war. It is impossible to assume that all of these few men did not understand what awful havoc would result from the war when once started, but knowing all that, they did not prevent the war.

Jealousy, greed for wealth and power and false pride combined to bring on this war. It is almost too much to hope that these causes will be removed by the present conflict.

The case is plain enough to any ordinarily sensible man. Every battleship, torpedo boat or submarine is a badge of national stupidity. Every cannon and every shell is an indictment of civilization and evidence of the incapacity of the ruling classes for government. But all this has been talked and written for generations by humanitarians, philosophers and statesmen and yet this, the most scientific, the best educated age of the world, sees the most powerful and presumably the wisest governments grappling with each other in what seems to be a death struggle. No war in all the world's history has been more needless than the present nor a tenth part as destructive. The rulers of these warring nations knew it would be. They must have known. What real hope is there then for this confederation of nations? Well, I think there is some. I look for this war to continue until one or both sides are physically and financially exhausted. When that time comes there is some hope that the wickedness, the supreme folly of war, will become so apparent to all of them that they will be ready to listen to a plan that if adopted in good faith would prevent wars forevermore. To be a success however, it must be adopted in good faith.

I disagree with Mr. Mann's plan in one particular. I think the various nations should have an equal voice in the international congress or tribunal without regard to their population just as our states have an equal voice in the senate regardless of size or population.

This much we can do. We can each and all continue to talk and work for an international agreement. We know now that an arrangement of that kind is the only one that will insure peace. We know that if the present war in Europe were to cease and the "status quo" be restored as it was before the war, it would only be a question of time until war would break out again. We also know now that without general disarmament another conflict is inevitable and that when it comes it will be more desperate, more bloody, more destructive than even the present war. The same causes that brought on this war would still exist.

We also ought to know that unless along with general disarmament we can establish what will amount to international co-operation, wars cannot be prevented. Even with an international tribunal such as has been mentioned, with bitter commercial rivalry, jealousy and hatred would continue. The members of the international confederation would fall out among themselves and the confederation would be broken up. The exciting cause must be removed before wars will end and in these modern times the exciting cause is commercial greed.

There was a time when religious bigotry was an exciting cause of war, but I do not think another war will ever be fought over religion. Commercial greed however, is perhaps more potent now than ever before.

The Mexican Muddle

I note that the critics of President Wilson are again actively accusing him of making a mess of the Mexican business. Practically all his critics insist that he made his most serious blunder when he refused to recognize the drunken assassin, Huerta.

Well, I hold no brief for the president. I think he

has made some serious mistakes, but his refusal to recognize that drunken murderer was not one of them. I think he made a mistake in landing troops and taking possession of Vera Cruz. I never could see any sense in that move in the first place and subsequent events seem to me to have completely proved that it made matters worse and resulted in the sacrifice of a number of mighty fine young men for nothing.

The situation in Mexico is bad, very bad but it is no worse than it would have been if that personification of debauchery, treachery and murder, Huerta, had been permitted to hold power there. At least the government of the United States is free from the guilt of sanctioning his crimes.

A good deal of criticism is made of the bandit chief, Villa. Well, he probably is not a very desirable citizen according to our standard, but it is only fair to judge him by the standard of Mexico, not our own. Judged by that standard it seems to me that Villa is considerable of a patriot and statesman as well as a remarkable fighter. His plans for the government of Mexico seem to me to be admirably suited to the conditions of the Mexican people.

First of all he would break up the vast landed estates and distribute them among the peons who have been driven from the soil, which they love. Secondly, knowing the lack of ability to manage their own affairs, he would make it impossible for these peons to alienate their lands for a period of ten years.

Third, he would establish a system of free schools all over the republic of Mexico and with free education he would couple a system of practical instruction in industrial trades.

Fourth, he would build up manufacturing enterprises.

Fifth, he would establish religious freedom.

Now I do not know how near Villa would come to carrying out that program if placed in complete power over Mexico. I only know that it is a sound and patriotic program and one which must be put into operation before permanent peace and general prosperity can come to Mexico.

The president has been violently criticized because he seemed to favor Villa. Perhaps he has. I do not know. But if he has, in my opinion that is to his credit rather than a matter of criticism.

The Literacy Test

President Wilson followed the example of Ex-President Taft, last week, and vetoed the immigration bill principally for the reason that it required a literacy test to be made of every immigrant. The proposed test is that the immigrant must be able to read, and I believe, write in some language.

I am of the opinion that both Presidents Taft and Wilson are right in their vetoes and for one citizen I wish to commend them for their courage.

It is quite popular to rail against foreign immigration and no doubt there should be reasonable restrictions on immigration but it always has seemed to me decidedly selfish for people who are enjoying the privileges of this land of ours and who probably are not more than one generation removed from some foreign country, to want to shut the doors now against the people who are trying to escape the taxation and tyranny and militarism and intolerance of some foreign country and come to the United States where they and their children may have more freedom of opportunity.

Now the fact that a man cannot read is very far from being evidence that he is an undesirable citizen. He probably cannot read because of laws in his native land that made it impossible for him to acquire any education. In a land ruled by an autocracy or by a limited and powerful aristocracy it is not desirable in the minds of the ruling class that the masses should have educational advantages. If the masses become educated there is grave danger that they will no longer submit to autocratic or aristocratic rule.

The really dangerous class of immigrants is not made up of illiterate peasants but of professional criminals who generally are fairly well educated.

A Farm Loan Bill

A bill has been introduced by Mr. Resler, a member of the lower house from Neosho county, which I think will afford some relief to farmers wishing to borrow money on their lands if it becomes a law.

While this bill does not make the state a money lender it does make the state and county authorities supervisors of loans. It provides first for a state loan board comprised of the secretary of state, state treasurer and auditor. This board is authorized to select a state loan commissioner and if necessary an assistant commissioner who will have general supervision of the loan business.

In every county there would be a local loan board, probably consisting of the county clerk, county treasurer and register of deeds, whose business it will be to pass on applications for loans. The applicant will be required to execute a trust deed and a bond based on the trust deed for the amount of his loan. In no case shall the amount lent exceed 70 per cent of the assessed valuation of the land. No trust deed shall be admitted to record until the application for the loan has been approved by the county loan board.

The bond executed by the borrower shall be deposited with the county treasurer who shall act as trustee for the bond executor. On depositing this bond the county treasurer shall execute and deliver to the person executing the trust deed and bond a

certificate or series of certificates which will be made out in denominations of \$100, \$500, and \$1,000, bearing the same rate of interest designated in the bond, which in no case shall exceed 5 per cent per annum. These certificates shall be allowed to be counted as part of the reserve and surplus of state banks over what is required to be held in cash. They also would be permitted to be bought by the state school fund.

They will be non-taxable and may be redeemed at any interest-paying period, the payment being credited on the bond. The bond shall run for five years and may be renewed without expense to the borrower except that each five years he shall pay a fee equal to 1 per cent of the principal borrowed.

I believe that this is a good bill and hope that it will pass. Of course it does not provide the relief that would be provided under a properly organized government banking system where every man could capitalize his credit to whatever extent he might be entitled and through which the enormous burden of interest would be lifted from the backs of the people, but it would at least be an improvement over what we have at present. It would give some relief and therefore I am for it.

Opinions Differ

Here is a letter received from an irate subscriber at Bird City:

Editor The Farmers Mail and Breeze—T. A. McNeal in your last weeks Passing Comment Article just one word was a most wonderful masterpiece full of prejudice hatred spitefulness and lies from you Tom McNeal against Germany and the German Emperor we the german readers of Kappers publications will not stand any longer your slanderous opinions which you try to force on your reader. If it is true that three fourths of Mail and Breeze readers would decide against Germany, that showing plainly that you have told since beginning of this War nothing but bar facet lies.

Inclosed I send you a piece out of the K. C. Journal, don't think this will have any effect on such a bull-head as yours but will send it anyhow now do not send me any Mail and Breeze or Topeka Capital any more the are not fit to throw in my waste basket for me.

I have somehow gathered the impression from reading this somewhat extraordinary epistle that the writer is feeling peeved. It is scarcely probable that I could count on his enthusiastic support at this time. I am surprised that all these months he has lingered in this land of piping peace. He should be over on the other side helping to fight the battles of the kaiser.

But here is a letter from a Wichita subscriber who seems to take an entirely different view. He says:

Editor The Farmers Mail and Breeze—Your patience is monumental. This is shown in your replies to some Germans who are trying to create sympathy in America for this blood-and-iron beast called the kaiser. I say again that your patience with these Germans is wonderful to say the least. This Prussian imp of destruction, without one human trait who by the wave of his hand to the government of Austria could have stopped this war; this monumental specimen of egotism, the kaiser. Mr. McNeal, you let him down too easy.

I would infer from the foregoing that the writer is no more a friend of the kaiser than the first writer is a friend of mine.

A Bachelor's Opinion

Editor The Farmers Mail and Breeze—Being a reader of The Farmers Mail and Breeze for a decade or so and believing it to be the best farm paper published, I can say with some authority that you certainly did the country a good turn by airing the matrimonial grievances of a few lovelorn maids and bachelors. Being a Kansas bachelor, sidetracked in Arkansas, neither a spring chicken nor an old rooster but an "old bach" from circumstances rather than from choice, I wish to state that I would go farther than Belgium for a suitable life companion if necessary—but is such action justifiable?

The writer is unable to determine just where any ground has been gained on either side; and do not think any of those who were fortunate enough to have their letters published will ever be able to make a hit with each other owing to old Mother Nature's laws of adaptability. I notice many writers are now taking the subject, "Decline of Matrimony in America," in hand, but as all of those writers are on salary-to furnish interesting rather than instructive matter much choice eloquence is going to waste, as far as explaining the "why" of such conditions, is concerned.

It must be plain enough to those who "cannot get married" just why they fail, but no matter what seems to be the cause of some cases of singleness the majority can trace same directly to the almighty dollar. Modern marriages are based on money and money alone. Anyone endowed with good sound judgment coupled with horse sense and reason, can see that the general conditions are not fruits of the short present times but a gradual development, slow but sure, for many years back.

Young people are well versed in all things that aid in discarding responsibilities of all kinds other than absolutely necessary, are taught to move along lines offering the least resistance and that any occupation which requires hard labor is to be avoided. As a consequence the nation is reaping what it sows. Women are wage earners now and in competition with men for the "money" to be had, but woman has never been taught neither does she consider that being a wage earner with man she is also liable for her share of the money required for the home as is man. That is one "custom" she does not care to have changed, but at the same time she will take his job from him and spend the money as she pleases but he must save his money to buy a home for both and maintain same "forever after," and if he does not spend two thirds of his earnings on her during courtship she dubs him a "tightwad" and when the "tightwad" rakes together the home the old maids consider him too stingy for a husband—so there you are.

There are plenty of good sensible women in Kansas, but they are not old maids, as no sensible woman ever becomes an old maid; and it's the same with the men. The idea that there are no "good chances" in Kansas is the rankest kind of bosh. The writer has been in Kansas most of the time for the last thirty years and as far as "chances" are concerned, would now

be doing time for bigamy if a marriage had taken place with every chance. No man who is worth a whoop in a rain barrel need worry so much about his "chances" as he does about his "choices." I have seen many a woman "turned down" by a "true bachelor" because she was not his "ideal" and join the "crowd" in chasing after a certain "desirable one" when he knows they can't all marry that one and as fast as one desirable marries another springs up and the fun begins all over again until the bachelor becomes old, bald and toothless.

They say the "best chances" have to be courted. Well, it looks to me as if the ones the men consider most desirable don't have to advertise for admirers. But if all women imagine they must have from six to a dozen swains on the string in order to be a partner of a "successful marriage" later on we had better start a training school to that effect, so as to shorten the term of the "swains" who fall to secure her hand; then maybe there would not be so many old bachelors.

The best remedy for all this foolishness called courtship is to give the women the right to propose any year the right one comes along rather than every four years when all the fools bunch up some where, each one expecting the same woman to ask for and marry the entire lot, while they take particular pains to steer clear of about the only "chance" they have.

If Belgian women are needed over here I "second the motion" but then I don't suppose you will give this space in your waste basket as I have all kinds of "sand" and am not ashamed of myself or my condition matrimonially, or of any letter I have ever written and do not want this published otherwise than over my own signature. If the rest are not ashamed of what they say and have nerve enough to get married why do they lack "sand" enough to sign their articles?

Gravette, Ark.

F. I. WOLFE

What Is the Trouble?

I am in receipt of a letter from a subscriber at Watson, Kan., who gives his ideas as to what is the trouble with the world and our own country in particular. The letter is interesting but too long to publish in full on account of limited space, but here are a few points made by the writer:

"There is a cure for our present evils according to the philosophy of Jesus Christ."

"The reason for our failure to cure our evils I fancy to be at the base of our New England theology. It is responsible for depravity since it teaches morals that they are totally depraved and once shackled with that idea they are 'hell bent' to try out depravity. There is not a darker place in any continent than this same New England. I have just visited there. The land is impoverished, the quarries are exhausted. The people are grafting on summer boarders, tourists and immigrants as a mode of making a living with their Yankee shrewdness."

"There is nothing in poor old Massachusetts it is said, that is not for sale. Vermont and Connecticut with their ingrained theology that 'the devil does the meanness' are as bad."

"The cure for these things, the evils of the present day, the remedy of the Socialists is exactly the one taught and preached by Jesus of Nazareth. It is this: 'Place all the apples of privilege in the basket of the people's corporation and make it impossible to reach them for private aggrandizement. Make privilege work only for the whole people.'

"In spite of all that infidel teachers may teach to the contrary, the Pentecostal way is the way of Christ and our hope today. The machinery of production and distribution owned by all the people alone will bring the Pentecostal blessing to the race."

"How to get these machines of common need was shown in the manifesto of Karl Marx 67 years ago and ratified by Socialists all over the world:

1. The majority rule.
 2. The initiative, referendum and recall.
 3. The election of all officers.
 4. The full social product of labor to the worker.
 5. Direct tax; no tariff.
 6. Universal suffrage.
 7. Per capita wealth product exempted to workers; none to idlers, rich or poor.
 8. State insurance at cost.
 9. Absentee landlordism dispossession act.
 10. Graduated income tax; graduated single tax.
 11. Old age and mothers' pensions.
 12. Postal banks of issue, loan and deposit. Time checks endorsable for medium of exchange.
 13. No army and navy.
 14. Absolutely free education, free books, free meals, free uniforms.
 15. Free courts of arbitration.
 16. All earnings of convicts over actual cost of keep to be paid to families of convicts.
 17. Abolish senate and presidential veto.
 18. Abolish all private corporations.
 19. Make all judges elective.
 20. Establish public play grounds, fountains, parks, sanitariums, mothers' camps, free clinics, free ice for the sick.
 21. Trade schools free.
 22. Drugs and liquors as well as all necessities made by the state, guaranteed pure, sold at cost.
 23. All unemployed to be placed on government owned land or in trades as desired.
 24. Government ownership of public utilities when the workers own the government works.
- "Old age pensions are a success where tried."
 "Natural resources where used and developed for the whole people will pay all the taxes."
 "A no-war policy would be voted if the question were left to the workers."
 "That interest, rent and unearned increment are relics of pagan modes of business is self evident."
 "Free education is impossible under capitalism when the average income is \$427 a family in the United States. State insurance is a success when established."
 "Money is the medium of exchange and the products of labor should back it collectively. The government postal banks should be the channels through which the money should be distributed."
 "Since the government inspects food products, drugs and liquors, it should manufacture them and save the cost of inspection."



Chicks

One Woman Sells 20,000 From a Five Acre Farm

By V. V. Detwiler

A FIVE-ACRE chicken farm, owned and operated by a Smith county woman, produced more profit, last year, than did many 160-acre farms worked by men. Mrs. Clara Colwell is the woman, and she lives at the eastern edge of Smith Center, Kan. She has been in the chicken business for five years, and never has sold less than \$1,000 worth of baby chicks in a season. She shipped 20,000 day-old-chicks last spring and summer. These chicks brought her more than \$1,000. Mrs. Colwell also markets eggs, broilers, and hens, but the large part of her business is the selling of baby chicks.

Two young children to care for and educate made the problem that faced Mrs. Colwell five years ago. She had some money to invest in a small business, so she bought this five-acre place at Smith Center, and fitted it up for a chicken ranch. She has made it pay because she understands the needs of chickens, because she has a good business head, and especially because she went into the work with a prodigious amount of "pep".

There is nothing pretentious about this place. If you wish to see expensive buildings, hear fine spun theories about poultry culture, and examine birds that always have been pampered and coddled, don't go to this farm. If you are eager to learn how to get results, and get them quickly, you can't do better than to study Mrs. Colwell's methods. She got results quickly enough, didn't she? She sold more than \$1,000 worth of day-old-chicks the first year.

Until the present she has been operating a one-woman size business. Of course it is a bigger proposition than most women would care to handle, but she has been doing all the work herself. The business is now as large as she can handle without hiring help. She plans to hire someone to do the housekeeping for her, this season, so that she can devote all her time to caring for her incubators, and marketing the product. She hopes in this way greatly to increase the output of her plant.

White Leghorns, Rhode Island Reds, and Barred Plymouth Rocks are the chickens that one sees on Mrs. Colwell's farm. The Leghorns are the ones that she features. All her chickens are purebred birds. Every year she builds up her flock by the addition of high priced blood. She does not try to market her chicks at fancy prices, but often she buys birds that cost \$8 or \$10.

The hatching season begins about January 1, and ends about the middle of August. Mrs. Colwell keeps 18 incubators busy while the demand is strong. Early in the season she sells purebred chicks for 10 cents apiece. She guarantees the safe arrival of the chicks, and the buyer pays the express. These prices hold until warm May weather sets in. During the summer she sells for 6 or 7 cents. She sells a few extra fancy chicks every year for 20 or 25 cents apiece, but the demand for these is limited, she says.

Orders from Wyoming, New Mexico, and Mississippi have been filled by Mrs. Colwell. She does not, however, desire many orders of this kind. There is too much danger of loss when the chicks are shipped so far. Most of her sales are made to persons living in Kansas and Colorado. Some persons living in Cuba wrote to her once asking that she send some chicks down there to them.

Of course she did not attempt to fill any such order, but the incident shows how little idea some persons have of the limitations of the business. Some one in North Carolina asked Mrs. Colwell last spring to sell him 1,000 chicks. She did not take the order, because she feared that she might have a heavy loss. As she had as many orders as she could fill in Kansas and Colorado it would have been foolish for her to send the chicks on such a long trip.

When a chick is first hatched it does not require anything to eat or drink. In fact it is better off if it does not have anything for a time. Mrs. Colwell, and others who are in the same business, take advantage of this fact and ship the chicks while they are in this stage. Mrs. Colwell says that newly-hatched chicks that have had no feed or water, can make a three-day trip and arrive at their destination in excellent condition. If the weather is favorable they often can endure a four-day trip, but that is farther than they should be shipped.

The losses that Mrs. Colwell has had, have nearly always occurred on shipments that had to go over branch lines where trains did not run Sunday. By planning her shipments so that orders at such places are filled early in the week she is able to keep losses down to a minimum. Whenever any loss does occur, she makes it good to the purchaser.

"How do you find buyers for all these chicks you hatch?" Mrs. Colwell was asked.

"When I started into this business, five years ago, I advertised in quite a number of papers," she answered. "Since then I have dropped all of them except the Farmers Mail and Breeze and one other Kansas farm paper. The Farmers Mail and Breeze brings me three-fourths of my buyers. It was my advertisement in that paper that brought me orders from New Mexico and Wyoming. The person who wrote me from Cuba was a reader of the Farmers Mail and Breeze, and so was the one from North Carolina who wished to place an order with me for 1,000 chicks. I have no trouble in getting all the orders that I can fill. My trouble is to hatch enough chicks, and fill the orders as fast as they come in. I hope to have more chicks this coming season than I ever have had and I should be able to give quicker service than I have been able to give other years."

The total investment that Mrs. Colwell has in this place is about \$5,000. This includes the five acres, her home, and all the equipment for her poultry business. One poultry house is built like a barn, and easily can be remodeled into a barn if she ever wishes to sell the place to someone who prefers such

a change. She has three other hen houses that will accommodate from 50 to 200 birds each. Ten colony brooders stand in a little yard near her incubator caves.

These incubator caves are of more interest, perhaps, than anything else about the place. It is here that the work of this little business is carried on. There are two of these caves. One is 12 feet wide and 30 feet long, and the other is 8 feet wide by 26 feet long. The floors are made of cement. The walls and roof are galvanized, corrugated sheet iron, made into an arch. The top of this arch comes almost level with the surface of the ground. This roof is covered with soil. Several ventilators are provided for each cave. These caves are not expensive, an even temperature is maintained easily in them, and the atmosphere is not excessively dry. Mrs. Colwell finds them to be ideal places in which to care for incubators.

The caves are equipped with 18 incubators. When all of these are in operation it is rather a large chore to care for them. When the chicks hatch they are removed from the incubators as soon as they are dry, placed in corrugated pasteboard containers, and taken to the express office. If the chicks are to go only for a short trip, they may be started after they are a day old, though it is considered good practice to start them as young as possible. If an order that is to go a long distance is being filled, only very young chicks are chosen, and the shipment is prepared just in time to catch the train. The idea is to start them on their journey with as much as possible of the food that nature puts on the inside of a chick to begin life. From the time the chick is dry there are three days in which it needs neither feed nor water, and if it is kept in the incubator for one of those days it can safely be sent on a two-day trip.

Some poultrymen operate extremely large incubators, but the machines in Mrs. Colwell's caves are the ordinary sizes that one sees on Kansas farms. A 200-egg incubator is a convenient size for the small poultryman to use, and it is well adapted to a business such as Mrs. Colwell is managing. She does not wish to have large numbers of chicks hatch at one time. That would simply bunch a tremendous lot of work into one day. With her 18 incubators she can have one hatching almost every day during the hatching season. This makes a uniform amount of work every day. Another point worth remembering is that when the work is planned so that an incubator is being set every day nothing but fresh eggs are used. Newly laid eggs are more likely to

hatch strong vigorous chicks, that will stand the hardship of a long trip, than are eggs that have been stored. To a small extent an egg is incubated in the body of the hen before it is laid. When the egg is laid and becomes cool, the development of the chick ceases. If it is stored in a proper place and well cared for, it may be kept for quite a while before it is unfit for hatching purposes. The older the egg is before it is placed in the incubator, the less life it has inside of it, though.

One of the nice points about this business is that the plant pays expenses during the slack season. The object of the farm is not the producing of eggs to sell on the market for food, but for almost half the year this is done. Mrs. Colwell keeps her flock of hens to supply eggs for hatching, but she has a profitable egg factory during the part of the year when she is not running her incubators.

Many broilers are sold. This also is a side line that fits in nicely with the business of hatching. Sometimes a hatch will come off on a day when there are not enough orders to take all the chicks. The ones that are not marketed are placed in a brooder house and reared. The best of the pullets that are raised on the place are kept to replenish the breeding stock. The other young stock is marketed. All of these young birds are purebred chickens of an excellent grade, so there always is some local demand for them, for breeding purposes. Mrs. Colwell does not make much effort to work up a market of this kind, though.

Plenty of range in alfalfa pasture is provided for the hens of this flock. Hens that are confined in small pens will not produce chicks that have the strength and vitality that these little much-traveled balls of down should have. Hens that spend much of their time in the open air, eating plenty of green alfalfa, hunting for bugs, and digging for worms, develop strong legs and backs and are perfectly free from disease. The eggs laid by such hens hatch into sturdy little chicks that ship well, and give excellent satisfaction to the purchaser.

For Wyandottes

We have been raising poultry successfully for several years. We have four poultry houses. One of the houses is 12 by 12 feet and is sided up tight. We use 8 feet for the roosts and 4 by 12 feet for the nests. We use boxes 12 by 12 inches for the nests. On the south side of this house is a scratching shed 12 by 16 feet. There is 1 foot of board around the bottom and the sides are screened all around with 5-foot netting. The roof is of felt. There is a door on the east. We feed the chickens in this shed in bad weather. We keep about 60 hens in each house of this size.

We kill mites with a smudge made by burning a half pound of sulphur. We burn sulphur two or three times in the summer. Our chickens never have roup or any other sickness. We get eggs every day in the year. We have White Wyandottes.

Kafir and turnips and beets form the bulk of our chickens' ration in the winter. Z. Peffey.

El Dorado, Kan.



The Woman Who Did It.



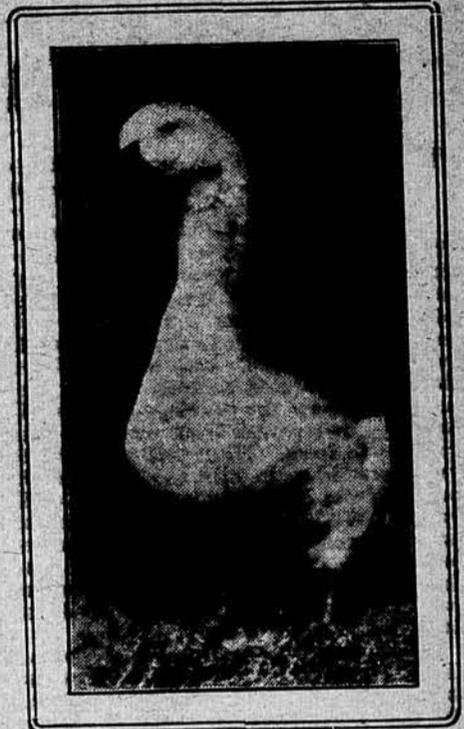
Backyard View of the Unpretentious Poultry Plant From Which 20,000 Chicks Were Shipped Last Year.

Ducks

Hardy and Free From Disease, They Grow Well

By Ralph Searle

Superintendent National Poultry Institute



market purposes, the Pekin stands supreme. This breed of ducks, white, with yellow skin and legs, seems to meet fully the American market demands. They are hardy and are very rapid growers. Pekin ducklings, properly fed and cared for, can be made to weigh from 5 to 7 pounds apiece when 10 weeks old. When sold at that age they are known as "green ducks," and bring from 18 to 30 cents a pound, depending upon market facilities.

Indian Runners Popular.

Indian Runner ducks have become quite popular during the last few years. This breed, sometimes spoken of as the "Leghorn of the duck family," has been advertised as the world's greatest egg-producer. Candor compels me to say, however, that up to the present their right to that title remains in doubt. Official tests thus far have not shown them to be any better, if equal, to leading egg-producing varieties of hens. The money in the duck business is in producing them for market. For this purpose, the Runners, because they are smaller, do not compare with the Pekins.

As ducks seem almost immune to the effects of cold, their houses do not need to be warm and expensive. They must merely afford protection from storms, and be dry. Strange as it may seem, damp quarters are very detrimental to both old and young ducks, and give rise to most of the diseases from which ducks suffer. A cheap, low shed, facing the

mixture without scalding. From the beginning grit and sharp sand should be kept in a vessel containing water. Try a few ducks this year. Handle them intelligently, and you will be pleased with the results.

Ducks Easy to Raise

So many seem to think that ducks are difficult to raise and are unprofitable when they are raised that I should like to give my experience in handling them.

I have found ducks the easiest of all fowls to raise. They never are bothered with diseases or mites as chickens and turkeys are and are easily confined in any location one desires.

I have raised the old-fashioned "green heads," the Mammoth White Pekin, and the Indian Runner, and they all require the same care.

The purpose for which they are wanted must determine the kind of ducks you handle. If you wish to raise them for the eggs and for market, I should advise the Indian Runner. They are smaller than the Pekins, but they lay more eggs and are a finer table fowl, the meat being much better flavored. It takes less feed to grow them and to keep them after they are matured.

My experience has been that the old ducks do not make good mothers. I have better success raising the little ones without mothers.

as well as chickens as it gives them rheumatism. What I mean by dampness is being confined in quarters that are wet.

Poultry experts tell us that baby ducks must be kept away from the water, save for drinking purposes. While a pond or creek is not essential, even for grown ducks, still if there is one handy I should let my fowls have access to it. It will not hurt even the little ones if they have warm dry places to roost, and they keep themselves clean besides getting a great deal of animal food from the water.

It is necessary that these water birds have some place where they may "duck" their heads. Otherwise the nostrils will become clogged and death will result. So if there is nothing better a deep pan or other vessel must be provided for a head douche.

Another thing that commends itself to duck raising is that they may be raised all during the hot weather when chickens or turkeys would droop and die. In fact it is best not to set the eggs too early. May is soon enough, as we cannot expect settled warm weather much before June. Clara E. Bush.

A Flock of Pekins

My sister and I started with five Pekin ducks last spring. They laid 399 eggs the first season and we sold what we could spare of them for a good price. We set 60 eggs and hatched 44 ducks and raised 39 of them.

I think ducks are easy to raise. We set the eggs under hens and if the weather is dry we sprinkle them when they begin to pip. When the ducklings are dry we take them away from the hens and put them in a basket in a warm place until they are 24 hours old. The first two weeks we feed them stale bread that has been soaked, and gradually begin to feed bran and shorts, equal parts, to which has been added a small portion of beef scraps. We cut lettuce leaves and onion tops every day and have plenty of fresh water before them, and they grow very fast. Miss Myrtle Leighton.

Effingham, Kan.

A Way to Turn Eggs

The most important rule in running an incubator is to keep the temperature from getting too high. Turn the eggs twice a day, or rather roll them. Do this by taking some of the eggs out, laying the hands open on top of them, and rolling them over several times. This gives the chicks exercise. Mrs. Ellis Jordan.

R. 2, Elmwood, Okla.



Many Poultrymen Have Given Up Chickens, and Are Devoting Their Entire Time to Ducks.

JUST why more ducks are not to be found on our farms is a riddle this poultry enthusiast has never been able to solve. As a delicacy for the farmer's table those of us who have tried it, say there is nothing nicer than roast duck. As a payer of tidy profits, I know of no branch of farming which does better, in proportion to the amount invested.

Some will tell you they have tried ducks, and have found them to be a nuisance. No doubt they were, but this was because they were not properly handled. If chickens and ducks are allowed to run together, there usually is trouble. Ducks are both domineering and ravenous. Whenever feed intended for both chickens and ducks is thrown out, the ducks rush in and gobble it before the chickens get well started. They foul the drinking water so that the chickens will go thirsty before they will drink it.

These troubles can easily be avoided by keeping them apart. In this respect ducks have a distinct advantage over chickens, for almost any kind of a little low fence will effectually keep them where you want them. For penning up young ducks so that they will not be bothersome, a roll of 1-inch poultry netting 18 inches wide, fastened on pointed stakes 2 feet long, makes a very satisfactory fence. It is easily portable so that it can be moved to fresh ground two or three times a week.

Ducks Are Hardy.

Ducks are far more hardy than chickens, and less subject to the numerous ailments of the modern chicken. On account of the large amount of oil in their plumage ducks are not troubled with lice and mites. Ducks grow more, weigh more and when marketed at the proper time, bring a higher price than do chickens. It is on account of these facts that many who have tried duck culture intelligently, have given up raising chickens for market, and are devoting their entire attention to ducks.

A common fallacy in connection with duck raising is that in order to be successful with them you must have running water, or a pond in which they can swim. While a swimming pool undoubtedly adds greatly to a duck's enjoyment of life, as it does to that of the average small boy, yet it is by no means necessary to the proper growth of either. I know of several successful duck plants where the only water the ducks ever see is that which is in their drinking vessels. A place to swim is preferable, however, especially for adult ducks during the breeding season.

There are many good varieties of ducks, but if ducks are to be raised for

south, with most of the front side open, fulfills all requirements.

Duck eggs can be hatched as successfully in incubators as hen eggs. In fact it is easier to raise ducklings artificially than it is chicks. In incubating duck eggs do not throw them away because they fail to hatch in three weeks, as a friend of mine did. The period of incubation for duck eggs is four weeks. A little more moisture is required in incubating duck eggs than for hen eggs. Otherwise, there is very little difference in the required conditions.

In order to get best results young ducks must have an abundance of the right kind of feed. The following rations are very satisfactory. For the first two weeks feed equal parts, by measure, of cornmeal, wheat bran and middlings. Add enough scalding water to make the mass crumbly but not sloppy. Feed five times a day, being careful not to feed more than will be cleaned up in a few minutes. For the next four weeks feed 2 parts wheat bran and 5 parts middlings. After that the same

I set the eggs under hens or in an incubator. As soon as they are hatched I remove the baby ducks to a warm box where I keep them for twenty-four hours. I then give them a little coarse sand and some fresh water.

How They Are Fed.

Three or four hours after that they get their first feed of hard boiled eggs, chopped shell and all, just as I give to the little chicks. Ducks require moist food, but it never should be sloppy and no more should be given than they will clean up readily. It is better to feed little and often, say, about six times a day until they are 3 weeks old. Then gradually decrease to three meals a day.

During the first three weeks I feed bread moistened in sweet milk. After that I begin feeding a mash of meal and shorts, about half of each, with a few beef scraps mixed in and the whole moistened till it is crumbly. Green food must be provided and lettuce or rape, is very good. I usually have a patch of rape and let the ducklings graze on it. Little ducks cannot stand dampness



What Would You Do

WE HAD a very successful chicken business on a small place with a flock of 100 Brown Leghorns. We built two houses 7 by 14 feet, with a 14-foot scratching shed between them, and the low side to the north. The back of this 42-foot building was 3 feet high and made solid of 12 foot lumber. The front was 6 feet high. To keep the roof from leaking we painted on both sides of the cracks between the boards, cut strips of sacking, and pasted them on while the paint was fresh. When this got dry we went over it again with the heavy paint and the roof did not leak nor admit cold winds. We had two doors on the south side of each house and left the entire south end of the scratch shed open. A blackberry and plum thicket was close to the south side of the scratch shed, so it did not need curtains.



Here's Advice From Farm City Chaps How

We built a yard south of each house. In bad weather we kept the chickens inside the shed and opened one door. In fair weather we opened both doors, which let in lots of sunshine and warmed the houses. We made a hole, under the shed in the end of each house, just large enough for a chicken to get through. In very stormy weather we closed both doors to the shed. We raked up lots of leaves and put them in the scratch shed, and in the winter we used straw in place of the leaves. We fed the chickens in this litter and they kept busy most of the day. Hens will not lay if they have to wade in snow or wet. Our chickens' combs never froze and we got eggs all winter.

two of the lots. On the inside fences have wide gates or sections of the fence that can be opened wide enough so that the houses may be moved from lot to lot. Keep all the lots plowed and planted to wheat, kafir, corn or potatoes. Move your hens from lot to lot as occasion and profit seem to require, and move your poultry houses from one lot to another at least once a year. Keep the ground busy producing something for your chickens to eat winter and summer.

the water in winter by pouring boiling water in the pail. Laying hens drink a great deal of water.

Don't make the mistake of crowding your hens. It will not pay. I had five small lots when I was in town, and I found that 20 hens supplied a family of six with all the eggs we cared to use, and in summer we sold some. Even if you do not sell many eggs, the saving on the table is a big item. The young fries also save the meat bills.

Never keep hens for more than two years. Each year keep all the pullets and sell most of the old hens. I preferred 2-year-old roosters to young ones. Change your stock by buying roosters that are in no way related to your flock. Any breed is good. You must keep one rooster to each dozen hens to insure fertile eggs.

When the young chicks have been hatched about 12 hours, I give a little fine dry oatmeal or bread crumbs, then bread soaked and squeezed out dry. They relish this but will do better if you can turn them into a run where they can get worms and where they can scratch. Give them water in a shallow dish and provide grit. A load of sand will supply the fowls with all the grit

vide green feed. In this way two of the lots can have a chance to grow and can be tended while the other supplies the green feed. In this way there will be green feed the year round, except when covered with snow.

Care must be taken that the hens have plenty of feed containing protein. Bran, cottonseed cake, bone meal, green cut bone, blood meal and meat scraps are good. The laying hen is the profitable hen and she should not be too fat and never too poor. Wheat is the best summer feed, with a few oats occasionally. Add a little kafir or corn as the weather gets colder. When the ground is covered with snow the hen's place is in the house and you can make her scratch for her food in the litter of straw. Above all give plenty of fresh clean water. Milk is also good for the flock. By making the hen house a foot higher in front the sun can shine on the back roosts. On the shortest day of the year the sun was shining above my back roost.

Vesper, Kan.

Green Feed Has Value

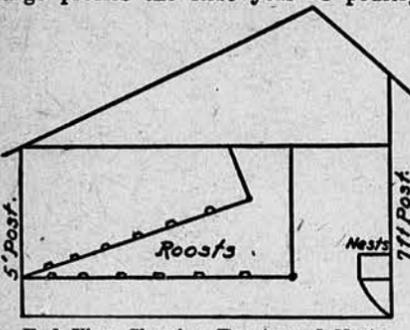
I prefer Plymouth Rocks, Rhode Island

The chickens roosted out in the old apple trees in summer, and in the winter they returned to the houses. We had nests about 2 feet from the ground in the scratch shed in winter. In summer we used one of the houses for the young chickens so that when they were grown we knew which were the younger hens.

We whitewashed all the houses twice a year. In cold weather we gave the chickens plenty of fresh water and about once a week we put a handful of salt in their bucket of water. We never lost any chickens. Mrs. Pearl Peebler. Pomona, Kan.

He Likes Movable Houses

A person cannot expect to make very large profits the first year of poultry



End View Showing Roosts and Nests.

raising, but if he has patience, industry and a reasonable amount of business ability he should make large profits after that.

Chicks should be bought early in the spring, about April 1, and should be kept warm and dry, in clean quarters. They should be fed no more at a feed than they will clean up. There is no better feed for young chicks than dry cornmeal and, as soon as they will eat it, whole kafir. As soon as they are of the right weight to bring the highest price in your market, sort out the males and sell them, reserving such as you wish to keep for breeding purposes, and as many as you think you may be able to dispose of at fancy prices.

Build two light, roomy, dry and comfortable chicken houses that can be raised a little from the ground so that runners may be placed under them. I have found that a light frame made of 2 by 4 covered with a good quality of three ply rubberoid or felt roofing material answers the purpose very well, or sheet iron may be used with stays in the middle of each sheet to prevent rattling.

After the houses are built fence off your acre of ground into four lots, with one of your movable houses in each of

After you have expended your time, money, patience, and labor to produce fine poultry and eggs, don't sell them to your home merchant or anyone else at old rooster and stale egg prices. Hunt the best market that you can find within a radius of 200 miles and ship your poultry, even if you have only a dozen chickens. Salem Eugene Smith. Elk Falls, Kan.

Do Not Crowd the Chickens

I have lived both in town and in the country and I think the city man will get more benefit from 35 or 50 hens than from 100. There are few persons in the city who have an acre on which to raise chickens. My advice is for those who have, to start with about 50 hens in the spring.

Have a good house for them, and in cold weather provide a scratching shed or room in which the hens can keep busy on cold days. The nests and roosts can be in the same room. Provide clean bright straw in the nests and you will see that the hens will soon find them.

Wheat and kafir are fine for feed, but oats, alfalfa meal and numerous other feeds are excellent. Corn is an ideal feed at night as it gives heat to the body. Send the hens to bed with a large feed, and make them scratch in the morning. I feed wheat in the morning and let them rustle for themselves during the day. A load of straw will keep hens busy for weeks but probably that would prove a nuisance in town. Table scraps, especially meat scraps, are good for the hens and they like them, too.

I do not believe much in hot feeds. Chickens that have hot food and are housed too warmly are likely to get roup. They chill easily when they go out where the wind strikes them. Have plenty of pure drinking water at all times. It is best to take the chill off

they need. Keep everything clean for mites will kill chicks in a short time. Have rain-proof coops, or better still have a small colony house for young chicks to roost in.

All my knowledge on the subject of raising chickens has come to me in the school of experience. If anyone cares to write to me on this subject I will tell them all I can. Mrs. Mabel Beck. Spearville, Kan.

Keep the Hens Comfortable

The most essential things in making hens pay are warm comfortable houses and the right kind of feed. A good house for 100 hens can be built for \$100 to \$150, according to the material and local supply. The folks on a 1-acre plot should first build the house and then fence the whole acre chicken tight.

I believe that windows in Kansas are better than open fronts, on account of the cold south winds. The roosts should be not more than 2 feet from the ground and should be on a level. This keeps the hens from crowding to the top roosts.

A house 16 by 32 feet will give ample room for 100 hens and still have 16 feet in the middle of the house for a scratching place and feed room. The acre plot should be cross-fenced into at least three smaller lots and sown to wheat, rye, oats or in fact any crop which will pro-

Reds and Black Spanish. I feed kafir, corn, millet and green food such as the wastings of cabbage, lettuce, apple peelings and soft food. It is a good plan to put sand and straw in the lot so the chickens will pick and scratch. Plenty of clean water should be kept in the pans. Chopped bones are good for the laying hens.

I set my incubator in the early spring. When the eggs are tested I keep the infertile ones, boil them and feed to the little chickens. I have two or three hens ready to take the chicks when hatched. Feed the chicks wheat, kafir, cracked corn and millet. When they get large enough to sell, save the best ones and sell the culls.

Gertrude A. Morrison.

Bucklin, Kan.

Alfalfa Is a Good Feed

My plan would be to sow the acre to alfalfa. I would have the house in the center, and put a fence across both ways, making four pens. Then I would turn the hens in one pen at a time, and when the alfalfa was about half ready to cut I would change them to another pen until the other two pens were ready to cut. I would then cut two pens of the alfalfa and put it up for winter feed. By doing this I think you will find that the hens will have plenty of green feed all the summer and you will have enough put up to keep them during the winter. There is no better feed for hens than alfalfa. Of course you will have to buy grain but the alfalfa will supply a lot of feed all the year.

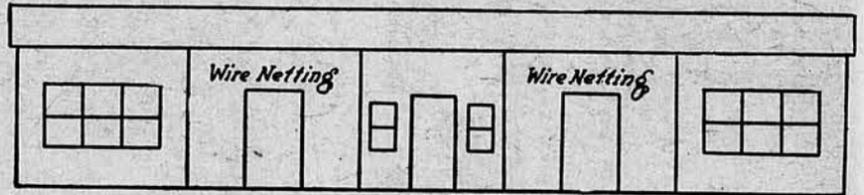
B. F. Potter.

R. 6, Burlington, Kan.

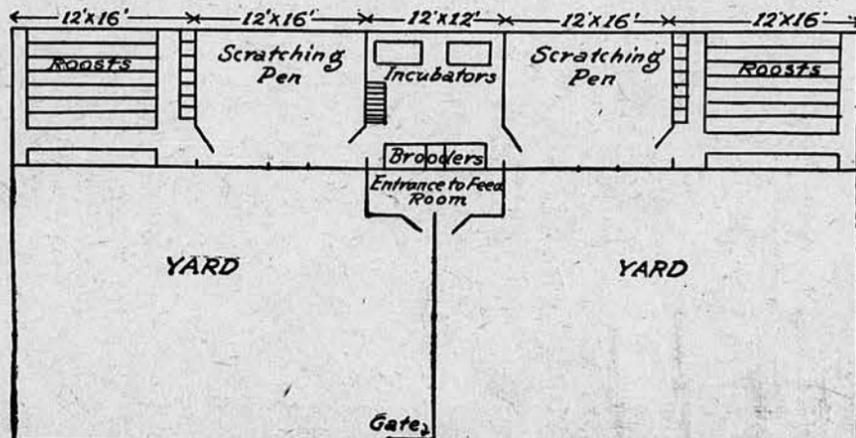
Glass Front Is Used Here

The acre plot should be fenced and divided in the center. Half should be planted to grasses and half used for the house and feeding yard. Select a place with a little slope for the house. Build the house as near the center of this plot as possible. It is a good idea to have a few trees near the house for a windbreak.

A building 8 by 24 feet should hold 100 hens. It should face the south so that it will have plenty of sunshine.



Front View of Mr. Burnham's Chicken House—The Floor Plan is Shown in the Sketch Below.



Ground Plan of Yards and Houses for a 100 Hen Plant—Furnished By W. C. Burnham.

With a Hundred Hens?

Folk Telling the Town and to Succeed

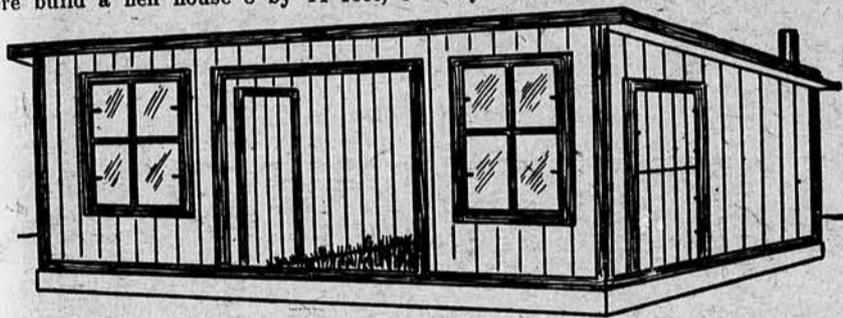
The south side of the house should have glass windows from the roof to about 3 feet from the ground. Divide this house into three rooms, one for the nests, one for the roosts and one for a scratching shed on stormy days. The windows should have fine poultry wire for a protection on the outside. The house should have a concrete floor in the laying and roosting rooms. The main door should be on the south or west.

There must be plenty of gravel and pure water in the feeding pen. It will do no harm to have some water in the yard that is seeded down to some kind of grass. Feed the chickens food that contains protein, fat, ash, and water, or in other words feeds that help make the eggs.

Wamego, Kan.

Clean Quarters Necessary

To start a 100-hen poultry plant on 1 acre build a hen house 8 by 14 feet, 8



An Arrangement Suggested by Walter Roth, Wetmore, Kan.—The Scratching Shed is in the Center.

feet high in front and 6 feet at the back. Have one door and two windows in the front which faces the south. Any kind of a house will do just so it is dry and warm in winter, and cool in summer. Put the roosts at one end and the nests at the other end and be sure to keep the floor, roosts and nests clean. Put lime on the floor at least once a week. Your success will depend a great deal on how clean you keep everything.

You will wish to raise all the chicken feed and garden you can to help with the expenses. Sow grass or oats in the yards, so the hens always will have green feed. Keep plenty of gravel, charcoal and lime in the yards. In the winter feed wheat, corn and a mash of turnips, carrots, and cabbage mixed with bran. Also give all the sour milk they will drink. Don't feed a sloppy mash. Give them warm feed and water in the winter.

Have plenty of shade for the hens. Set all the hens in coops and keep them away from the laying hens. Keep the old hen and her chicks in a separate yard. Do not overfeed the little chicks. Keep plenty of sand in the yard.

Willow Springs, Mo. Mrs. E. M. M.

Choose a Utility Breed

Get some good all around breed of chickens, suitable both for laying and table purposes. A good grade of pure-bred chickens of winter laying strain, such as the Plymouth Rock, is my idea of what would be best. If I had only 2 acres I would raise mangels, turnips and such things for winter use instead of letting the chickens scratch over all the ground.

Delphos, Kan.

Feed Prices Are High

I do not think that a man can succeed with 100 hens on 1 acre in town unless he is a poultry fancier, even by hard work and economy. The feed question is the most important question in poultry raising. If you can master the feed problem you can find plenty of books giving the necessary information concerning the building of comfortable quarters and care of your flock.

If I were to start in the poultry business with a flock of 100 chickens I

should depend more upon egg production than upon the selling of springs. I would use 1/2 acre for chicken houses and runs and the other half I would plant to mangels. Mangels chopped fine and mixed with bran and scraps make an excellent feed for chickens, especially when some egg producing and condition powders are used in connection.

Barnes, Kan. W. H. Shields.

Try To Have a Dry Floor

Select a dry spot that is well drained and fence it with good chicken wire. Then divide it into as many pens as needed. Make the chicken house large enough for a roosting and laying place combined. Have this about 12 to 18 inches from the ground so there will be good ventilation under the floor. I prefer to have the house facing the south. Glass windows for winter and screen for summer, suits me. Make the floor of wood as it is easier to keep it in a sanitary condition.



each fowl. In cold weather keep plenty of clean straw in the house for the hens to work in, so that on cold, wet or snowy days they can be kept in the shelter and still have plenty of room for exercise.

It is better to have the hens hungry than overfed but they must have plenty of feed for good results. Once or twice a week I would give a pan of meat meal and bran mixed, equal parts fed dry. I also give some bright alfalfa hay every few days.

Keep the hen house disinfected with any good stock dip. By having a good strain of chickens and taking care of them as I have suggested, you should get results in the middle of winter when eggs are worth most.

Have a shed for sitting hens, separate from the hen house. This shed should be roomy and have plenty of fresh air but not too much light. As soon as a hen hatches her chicks take her to the hen house and teach the chicks to go there, also. Clean and thoroughly disinfect the old nest before you set another hen in it. If I used an incubator I should try to have an old hen or a capon for every 20 or 25 chicks. I would feed the chicks soaked bread or oat meal at first, and gradually get them to eating cornmeal, cracked kafir or cracked wheat. Give plenty of water. Do not overfeed. Keep the chicks dry.

On my acre or two of ground I should like to have a little patch of alfalfa, a good shade tree or two and a place where I could plant rye or wheat or oats so as to have plenty of fresh green feed all summer. I would keep a pile of sand and some ground bone or oyster shells in the pens all the time.

Mrs. Alfred Wilkins.

Chapman, Kan.

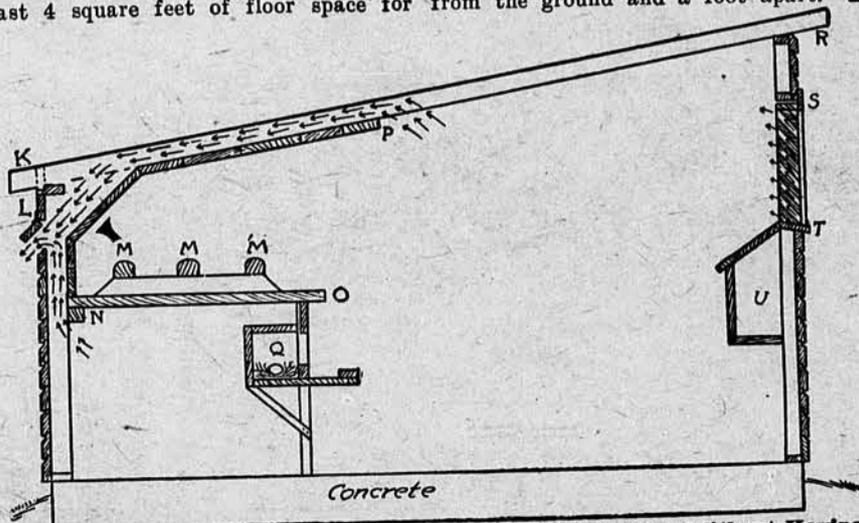
Plenty Of Room On 1 Acre

I have raised poultry in town and made big money. Make four runs. Suit yourself as to the length and breadth of each for you have plenty of room on an acre. Put 23 hens and two cockerels in each run. If you can make the runs north and south do so and have their roosting house on the north end. Have the laying nests in the darkest part of the house as the hens do not like to lay or sit in a light place. Make the roosts in one corner of the house and have them on a level about 3 1/2 feet from the ground and a foot apart.

Plan the house so there is plenty of sunlight, putting windows in the south side, and arrange for plenty of ventilation without drafts. Have at least 4 square feet of floor space for

Let the Sunlight In

Plan the house so there is plenty of sunlight, putting windows in the south side, and arrange for plenty of ventilation without drafts. Have at least 4 square feet of floor space for



This Sketch Shows How to Arrange for Summer Ventilation Without Having a Direct Draft on the Fowls.

board 2 or 3 inches wide is best for roosts.

Have a floor if you wish but it is not necessary. Do not let the mites or lice get a start. Sprinkle insect powder once a week on the roosts and nests. Make the nests of clean straw. Put onion peelings in the nests; that will keep the lice out.

Have a long shallow wooden trough for the mash of shorts and bran and beef scrap, equal parts. At night feed corn on the ground. When green grass comes, give the chickens a little pile in each pen as they relish it very much.

Clean the houses often. Never put ashes under the roosts; lime is better. Do not feed young chicks until the pip is off their bill, sometimes it is 30 hours, and then feed a little chick feed. Keep plenty of ground oyster shell in a dish for the old chickens.

I raised 300 chickens from one of my scoring pens and did not lose a chick. They never had any disease and were always ready to eat. Remember that green grass or clover will not injure them. You can raise 1200 just as easily. Keep strangers away from your poultry.

Sparks, Kan.

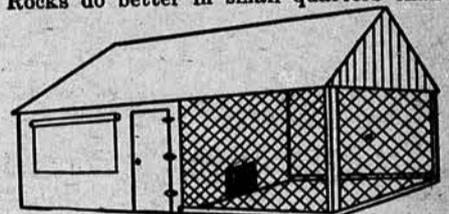
A Chicken House For \$20

Two chicken houses at least 10 by 14 feet should be provided with scratching pens attached. Have a southern exposure if possible. Board floors are easily cleaned and are warm.

In order for a hen to lay well it must have the material necessary to make up the egg, that is, wheat, kafir, grit and meat scrap. If hens run at large it is not necessary to give them meat scrap because they find plenty of bugs and worms. If you live in town you probably can get cracklings from the butcher and screenings from the mill, as I have been fortunate enough to do, and thereby cut down feeding expenses. Keep a pile of ashes in the scratching pen for the hens' dust bath. They pick out the charcoal which aids their digestion.

A model chicken house 10 by 14 feet, with scratching pen adjoining can be built for \$20. It can be built with a large glass window in the front, and with a floor for warmth. This makes ideal quarters for 50 chickens. If you wish to keep 100, another house should be built as it does not pay to crowd chickens.

I find from experience that Plymouth Rocks do better in small quarters than



A House That Is Convenient.

any other breed unless it is the Rhode Island Reds. Get good stock to start with and get new roosters every spring.

C. J. Dillon.

Council Grove, Kan.

Read the Best Farm Papers

If I were advising a city man how to make money with 100 hens on an acre I should say first to subscribe for a few of the leading poultry and farm papers. They are very helpful.

Fence well so as to keep cats and dogs away from your poultry. Put the whole acre in the highest state of cultivation and try to let the chickens have all the worms and bugs that grow on the vegetation, besides all the green stuff they will consume. Plant something for the main crop that will make shade for the chickens during the hot weather. Also plant some small grain and lettuce for green food. While it is possible to make some money in poultry raising by buying all the feed, the greatest profit is obtained by raising all the feed possible on the acre, winter feed as well as summer.

Do not put up fancy expensive buildings but have the modern up-to-date kind. Keep both buildings and poultry clean and free from lice.

Northwood, Tex. Frank McAlister.

The Lawmakers

Much Attention Is Being Given by Farmers to Measures That Affect Their Interests

Club Women Study the Bills

We are very much interested in the new Legislative Service department in the Farmers Mail and Breeze. We have a County Club here of 75 members, all women, and we are now giving time and study to the bills before the legislature as reported in your paper.

Miss Eva Haynes, President.
Baldwin, Kan.

NO department in the Farmers Mail and Breeze has proved more popular than this given to the work of the legislature. Here, as briefly as possible, the bills of interest outside the cities are described and explained without comment. From the very large amount of matter printed that in which farmers should be interested is selected and so arranged that the reader may know the news without searching for it. In the two weeks the department has been printed the editors have answered a dozen important questions about bills and supplied copies of pending measures to as many more. The letter from Baldwin, at the head of the column, shows that the women, also, are reading the news. Here are some of the important house bills introduced recently.

House Bill No. 223—An act repealing sections 9732, 9733, 9734, 9735, 9736 and 9737 of the General Statutes of 1909, relating to Johnson grass, as to all counties and parts of counties west of the 100th meridian in the state of Kansas. By Jones.

House Bill No. 236—An act creating State Society of Labor and Industry, defining its powers and the duties of the officers thereof, repealing chapter 217 Session Laws of Kansas, 1913, and all laws and parts of laws in conflict with the provisions of this act. By McBride.

House Bill No. 258—An act authorizing county high schools established under special acts to come under the provisions of the general law relating to county high schools. By Shuey.

House Bill No. 261—An act relating to the taxation of dogs, and amending section 3 of chapter 331 of the laws of 1913. By Mayhew.

House Bill No. 262—An act requiring the board of county commissioners, out of the general county fund of their respective counties, to assist in the payment of premiums offered by agricultural fair associations that have been holding fairs for three consecutive years, and authorizing counties having a population of 30,000 or more to provide a fund by taxation for the payment of premiums offered by certain associations holding annual fairs in such counties, to encourage improvement in stock, tillage, crops, implements, mechanical fabrics and articles of domestic industry; whether or not such a tax shall be levied; and providing for the proper disbursement of such funds. By Bird.

House Bill No. 265—An act to provide for the partial support of poor women, whose husbands are dead or convicts, or invalids, when such women are mothers of children under the age of 14 years. By Doerr (by request).

House Bill No. 267—An act relating to the transportation of voters to registration and polling places, and prescribing a penalty for violation thereof. By Van Cleave.

House Bill No. 275—An act to authorize the Kansas State Fair association of Topeka, Kan., to hold a state fair annually in the city of Topeka, providing a state board of managers therefor, and providing for the offering of premiums and making appropriations therefor. By Bird.

House Bill No. 280—An act to provide for the erection and maintenance of a hard fiber twine plant at the Kansas State Industrial reformatory, at Hutchinson, Kan., and making appropriations therefor. By Gilman.

House Bill No. 282—An act relating to wife beating and prescribing penalty for second offense. By Endres.

House Bill No. 284—An act for the protection of the shippers of grain and seeds. By Hart.

House Bill No. 285—An act providing for cutting and trimming of partition or division hedge fences, and repealing any acts and parts of acts in conflict herewith. By Rogler.

House Bill No. 297—An act for the protection of domestic animals from fire where kept in barns, sheds or enclosures. By Kincaid.

House Bill No. 304—An act requiring the county treasurer to notify all owners of real estate of taxes in arrears as shown by the "delinquent tax list," July 1 of each year following date on which taxes became delinquent. By Layton.

House Bill No. 311—An act giving owners of stallions and jacks a lien on certain property specified therein. By Caudill.

House Bill No. 316—An act creating the office of state highway engineer, defining his duties and fixing the salaries of the office. By Caudill.

House Bill No. 318—An act relating to the nomination of county commissioners. By Nelson.

House Bill No. 319—An act to amend

chapter 156 of the laws of Kansas of 1913 entitled, "An act defining the duties of county attorney in relation to accounts presented to the board of county commissioners for allowance, in counties having a population of 45,000." By Bird.

House Bill No. 326—An act to regulate the selling of agricultural seeds, and providing penalties for the violation thereof. By Campbell.

House Bill No. 331—An act relating to the terms of township officers. By Kelson.

House Bill No. 332—An act in relation to the nomination and election of county officers and providing for the non-partisan election thereof. By Stauffer.

House Bill No. 344—An act creating the office of state highway engineer, defining his duties and fixing the salaries of the office. By Gray, by request.

House Bill No. 348—An act creating a "non-partisan county ticket," and providing for the nomination and election of county treasurer, county clerk, register of deeds, sheriff, probate judge, county superintendent of public instruction, clerk of the district court, county attorney, county surveyor, coroner and county commissioners. By Mahurin.

House Bill No. 353—An act authorizing the board of county commissioners of a county to procure sand, gravel or stone for the improvement of public highways, and for other public purposes. By Resler.

For Non-Partisan County Elections.

Senator Arthur Kinkel of Morris county has introduced a bill for the non-partisan election of county officers. The senator believes that county officials should be chosen on account of qualifications and local issues, instead of party affiliations and national issues which do not especially affect counties.

To Employ the Convicts.

The Bowman bill to employ convicts in constructing permanent roads has been approved by the senate in the committee of the whole. The bill was the first one reported out of any committee in the senate. It allows the county commissioners of any county, or the mayor and council of any city, to apply to the warden for convicts to work upon the county or city roads. The warden, if he has the men to spare, shall furnish the convicts as requested. The city or county is required to furnish all tools and material, and also to pay the state all additional expenses for guarding the convicts while at work. The city or county shall pay 25 cents a day for each convict employed upon their roads, and this money is to be paid to the families of the convicts, if they have any, or to the convicts upon their release. The bill prohibits the warden from sending out on these road gangs any dangerous criminal. He also must keep at the prison as many men as are needed to operate it.

Money for Farm Loans.

A state bond issue of 50 million dollars to lend money on farm land is provided for in a bill introduced in the house by Thomas McDermott of Wichita. Mr. McDermott says his bill intends to keep mortgages in the state instead of allowing outsiders to get the interest.

For Lower Mortgage Rates.

The rate of interest chargeable on mortgages is reduced from 10 to 8 per cent by the provisions of a bill introduced in the house by Thomas McDermott of Wichita. The bill makes it possible to charge 10 per cent for money borrowed on security other than real estate, but provides heavy penalties for the money-lender who takes a higher rate than 8 per cent on mortgages. Any person who charges a usurious rate of interest will be liable for double the amount of money collected in excess of the legal interest.

To Protect the Travelers.

For the protection of travelers on the highways of the state, Will Wayman of Lyon has introduced a bill in the house empowering the road overseer to trim hedges on township roads to a height of 5 feet, and charge the costs to the owner of the property. The county engineer is given the same power over state and county roads.

After Hidden Mortgages.

A bill which is intended to encourage truthful statements to the assessors has been introduced into the house by W. D. Thompson of Norton. The bill provides that the register of deeds of every Kansas county shall transmit to

the state tax commission a list of mortgages on real estate recorded in his county. The tax commission is to notify the assessors in each district of any person residing in the district and owning mortgages in any part of the state.

Away With the Hunters.

Senator Balie Waggener's squirrel law was passed by the senate. The bill makes it a crime punishable by a year in jail to carry firearms across another person's fenced land without specific permission.

Concerning Motor Vehicle Fees.

Administration of the motor vehicle license law is placed in the hands of the state highway engineer and the state treasurer in a bill introduced in the house by J. E. Caudill of Comanche. It also provides that instead of 75 cents out of the \$5 annual fee on automobiles only 50 cents shall go to the state for administering the law, and only 25 instead of 50 cents from motorcycles.

Six-Year Commissioners.

Six-year terms for county commissioners are provided in a bill introduced in the house by A. E. Hawkinson of Pottawatomie.

To Prohibit Boys From Hunting.

A bill to prohibit boys under the age of 16 years from hunting was introduced into the house by C. M. Pierce of Wyandotte county.

Stavely and the Dogs.

The efforts of Senator J. H. Stavely of Osage county to repeal the Stavely dog tax bill of two years ago were thwarted when the Stavely bill to repeal the Stavely act was killed by the house committee on assessment and taxation.

Since coming to the 1915 legislature Senator Stavely's most earnest work has been concentrated on repealing the Stavely law, which he insists was so amended by the 1913 legislature as to misrepresent him entirely. The repealing act was pushed through the senate last week and adversely reported by Jasper T. Kincaid, chairman of the house committee.

The house committee on assessment and taxation is "agin" the dogs, apparently. At the same time it killed the Mayhew bill introduced into the house to amend the objectionable Stavely law.

A Torrens System for Kansas.

The first bill of the session for the Torrens system of land titles and abstracts, a law adopted by a number of other states, was introduced by Senator J. D. Joseph of Butler county. There is a great amount of agitation in most of the states of the United States for the adoption of this system and Senator Joseph believes it has a fairly good chance to be passed by the Kansas legislature.

You Can Beat Your Wife.

The personal rights of the husband will not be infringed upon by the Kansas house of representatives at this session of the legislature. On the ground that it would be a disgrace to the state to have such a statute on the books, the house turned down in committee of the whole the Endres bill making the second beating of a wife by the husband a penitentiary offense. Ben Endres of Leavenworth introduced the bill last week. It was acted on favorably by the judiciary committee, and judging by past experience, that meant it would carry through committee of the whole.

But the 1915 house awoke to the fact that it didn't have to accept a committee report favorably if it didn't want to. Judge Frank L. Martin of Reno moved that the enacting clause of the Endres bill be stricken out.

"It would be a disgrace to the state to have that law on the statute books," he declared. "The wife now has the divorce courts to go to if she doesn't like her husband, or if he abuses her." "Besides, it would be infringing upon the personal rights of the hus-

band," announced I. N. Williams of Sedgwick seriously. Williams is a bachelor of some standing.

W. D. Thompson took a part in the debate.

"Gentlemen," he assented solemnly, "I knew of an instance where a man beat his wife. This was the first time, mind you. The next day she heated some water and scalded him, s-c-a-l-d-e-d him, mind you. And he beat her again. Perhaps a second beating sometimes is justifiable."

Kansas Money for Kansas.

If the federal reserve bank system is a good thing for the nation and the national banks, why not a state reserve or central bank for Kansas and the state banks of Kansas? This is a question which Senator J. D. Joseph, a prominent state banker of Butler county, checked up to the legislature when introducing a bill "to establish the 'Bank of Kansas,'" as he states his purpose in the title of the measure.

The Joseph central bank bill is a measure intended to keep Kansas money in Kansas for moving Kansas crops and making loans on Kansas land.

Two More Women's Measures.

The legislature will have a chance to act on two or more women's measures as a result of the action of the Kansas Council of Women, which held its annual meeting in Topeka last week. The two proposed measures provide for a reformatory for women and dormitories for girls at the state schools. The council is a small organization, its membership being limited to about 60 Kansas women who are presidents or past presidents of state wide organizations, but it has behind it the united strength of 27 women's state organizations and represents through its members 25,000 Kansas women.

For More High Schools.

An amendment to the township high school law, allowing the establishment of township high schools in counties of more than 6,000 population, has been introduced into the house by Henry Rogler of Chase. According to the provisions of the bill a special election to vote on the question of establishing a township high school may be called when two-fifths of the voters sign a petition. The present law applies only to counties of 10,000 or more population.

No Aid for Child Hygiene.

No appropriation for the bureau of child hygiene is provided in the substitute bill offered in the house by the committee on hygiene and public health. The substitute bill simply provides for the creation of the department under the board of health. It may issue educational literature, study cause of infant mortality, and such other work as the board may direct. But no money for the work. The Travis bill called for \$30,000 for two years.

To Aid Grain Elevators.

Grain elevators and feed mills are to be exempted from the registration fees on feeding stuffs according to the provisions of a bill introduced by J. P. Caudill of Comanche. The Caudill bill amends the 1913 law providing a registration fee for the commercial feeding stuffs distributed in the state.

To Kill the Irrigation Board.

Senator E. C. Logan of Mitchell county, one of the most ardent supporters of the bill which created the state board of irrigation two years ago, has introduced a bill to abolish this board after June 30. The bill also prohibits the members of the board from starting any new work before June 30.

Eggs by the Pound?

Why does not some member of the legislature get us a law providing that eggs shall be bought and sold only by the pound? It seems scarcely fair to get no more for a dozen large eggs than for a dozen small ones. The law I suggest would encourage the raising of the larger breeds. Charles Vanderlip, Woodston, Kan.

Poultry Houses

Those With Curtain Fronts Are Most Desirable in the Middle Western States

By W. A. Lippincott
Kansas State Agricultural College

FARM poultry houses of the Middle West are improving. The drafty shed and the almost airtight house are giving way to the more modern, draft proof, fresh air houses. The change is far more gradual, however, than one could wish. Winter eggs, the goal of most poultry keeping, never will be obtained in any large numbers until poultry keepers realize that if eggs are to be expected, the hens must first be made comfortable. They must be bred so they will be strong enough to have good health. They must be fed on a ration that will not give them indigestion. They must be housed carefully enough to give them all of the comforts of the tree limb as a roosting place without its discomforts.

Have It Dry.

Probably the most important condition in a hen house is dryness. There is no condition short of starvation which will limit egg production so sharply as dampness in the hen house. It usually appears from one or both of two causes, and as usually passes unnoticed. One of these causes is improper construction of the hen house floor, and the second is improper ventilation. It should be realized that moisture, which continually is coming up through the ground in the field is coming up through the ground under the house as well. Unless some precaution is taken to check it, it will pass into the house. We are learning to check the rise of moisture in the field by breaking the surface of the ground into a dust or clod-mulch. Where either a dirt or a cement floor is used for the poultry house, the moisture must be stopped in a very similar way. In sections where crushed rock is available, a layer of 8 to 10 inches of coarse, crushed rock should be put in as a foundation, whether the floor is to be of dirt or concrete. This will take the place of the mulch in the field, and will stop the moisture. If the floor is to be of concrete, the grout can be put right above the coarse, crushed rock, with a 1/2 to 3/4-inch finishing coat above that. This same precaution should be taken in putting in concrete floors for corn cribs or any farm building where moisture is to be avoided, for moisture will come up through the concrete just as oil travels up a lamp wick. The concrete floor is the best floor for the chicken house. If put in right, it is dry, rat proof, easily cleaned and hence healthy, and it costs little if any more than a board floor. In fact, in the long run, it costs no more than a dirt floor, when the labor required to care for it properly is considered. If a dirt floor is desired—and many persons consider the dirt floor more desirable than other kinds, some coarse gravel should be put in above the crushed rock foundation, and the dirt put above that. At least two or three times a year this dirt which will have become polluted and vitiated with the droppings of the fowls, should be removed and fresh dirt put in its place.

Board Floors Will Do.

Where board floors are used, dimension lumber usually is used for joists, thereby leaving an air space between the ground and the floor. This air space serves to take the place of the crushed rock or the mulch, and prevents moisture from going into the hen house. For this reason, board floors usually are dry.

It has been thought until rather recently, by those who make an effort to care for fowls properly, that hens should be kept as warm as possible in the winter time. For that reason they have put glass windows in the chicken house and kept them shut. While one should always be eager to supply spring conditions as nearly as possible, for spring is the season of the year when hens lay the most, it has been learned by experience that air is of far more importance to the chickens than warmth. It is important, as already has been suggested, because of the relation of good

ventilation to dryness. Owing to the rapid oxidation within the body of the hen, which results in a very much higher temperature than prevails in other animals, chickens need very much more air in proportion to their size than do any of the other farm animals. It must also be realized that chickens are under the necessity of getting rid of a much larger proportion of the waste moisture of the body by means of the breathing apparatus than are other farm stock. The hen has no sweat glands to elim-

inate moisture, and there is no liquid excreta given off from the body, the white, pasty material that appears on the droppings of the fowl being the excreta from the kidneys. Unless the air of the chicken house is replaced frequently with fresh, dry air, it becomes burdened with moisture given off by the hens. This will result in damp straw on the floors. In cold weather it will cause frost on the walls and ceiling. That condition will give discomfort. The hen that is forced to breathe damp air

must use up considerable energy in labored breathing. Moisture is one of the essentials of the survival and reproduction of bacteria of all kinds which include disease germs. The dry house is, therefore, much less likely to harbor disease than the damp house. Hens kept in fresh air are much more likely to have sufficient vigor to withstand disease.

While fresh air is desirable, it should be provided in such a way that direct drafts do not strike the fowls. A hen

that the sun shines in, and a narrow ribbon of light sweeps clear across the floor, it will serve as a good preventive of disease. It will at the same time make the house more comfortable and cheerful.

One great mistake that is made frequently in farm poultry houses of Kansas, is to make them too small. Birds that are confined any part of the year should be allowed at least 4 square feet of floor space for each bird. It is a mistake to crowd more than 100 hens into a house 20 feet square. The net profit on 100 hens in a house of this size will be greater than the profit from a flock of 150 hens in the same house. The fixtures in the chicken house should be simple, few in number, and in all cases removable. The necessary fixtures are perches, and nests. Others which are highly desirable are a feeding shelf, a broody coop, a dropping board, and a dust wallow.

The Perches.

The perches should be made of 2 by 4 lumber, set on edge, and rounded on the upper edge. To insure comfort for the birds when at rest, 6 to 8 inches should be allowed for the Mediterranean and American breeds and at least 9 inches for the Asiatic. All perches should be on the same level. Where the perches are placed one above the other, nearly all the birds attempt to crowd to the top perch, with the result that they do not rest well. The perches should be at least 15 inches apart so that the birds on one perch will not interfere with those on another. They should be removable so that they can be taken out and drenched with kerosene or some stock dip in case mites appear.

The desirable qualities of a nest are that it be roomy, easily cleaned and sprayed, dark, conveniently located, and capable of being closed. For the common farm birds, a nest 14 inches square and 6 inches deep is a good size. At least 15 inches of head room for the hen should be provided. There should be at least one nest for every ten hens. If the nests are dark, fowls are far less likely to get to scratching in the nest, break an egg and contract the egg-eating habit.

For Broody Hens.

A stationary coop with a slatted bottom where broody hens may be placed while they are being broken up or where the extra male bird may be kept where the practice of alternating males is carried on will also be found to be very convenient.

The desirability of a dropping board depends upon the price of straw and the value of your time. It is, of course, a necessity if the nests are placed under the perches. If straw is plentiful and cheap, and one has time to clean the house frequently, a dropping board is not a necessity. Where the price of straw is high, time for caring for the house limited, or it is desired to save the droppings for gardening purposes, a dropping board is desirable.

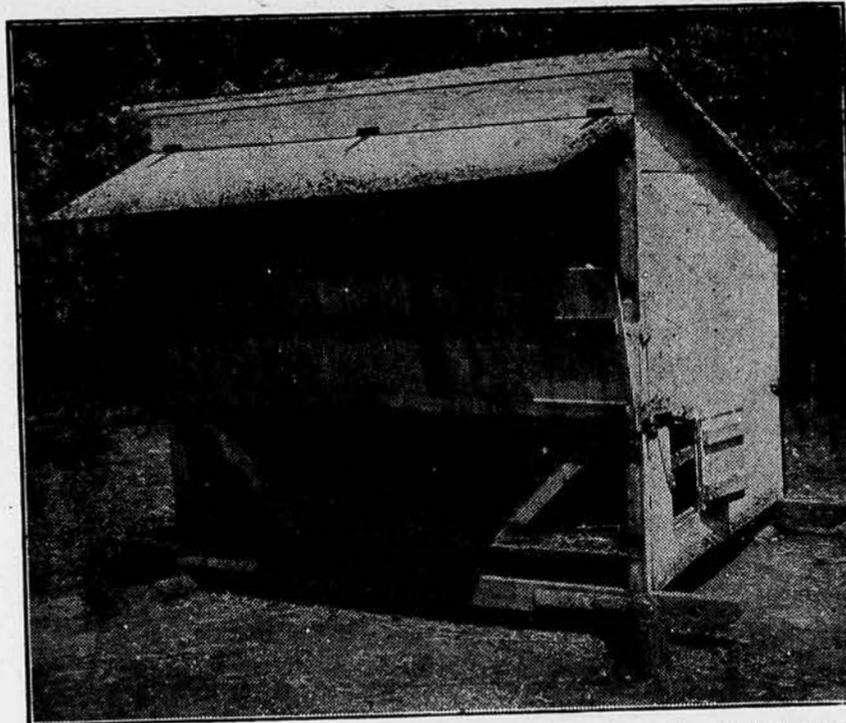
Hens that are provided plenty of good road dust to wallow in will require very little attention to keep down the lice.

Green Winter Feed

In the fall I pull all the cabbage stalks and stubs and store them away. I also gather all the pie melons and watermelons and they make excellent feed for chickens. I run the cabbage stubs through the food chopper and the hens seem very fond of this feed. Where broom corn is raised, it can be sprouted the same as oats and fed to the chickens.

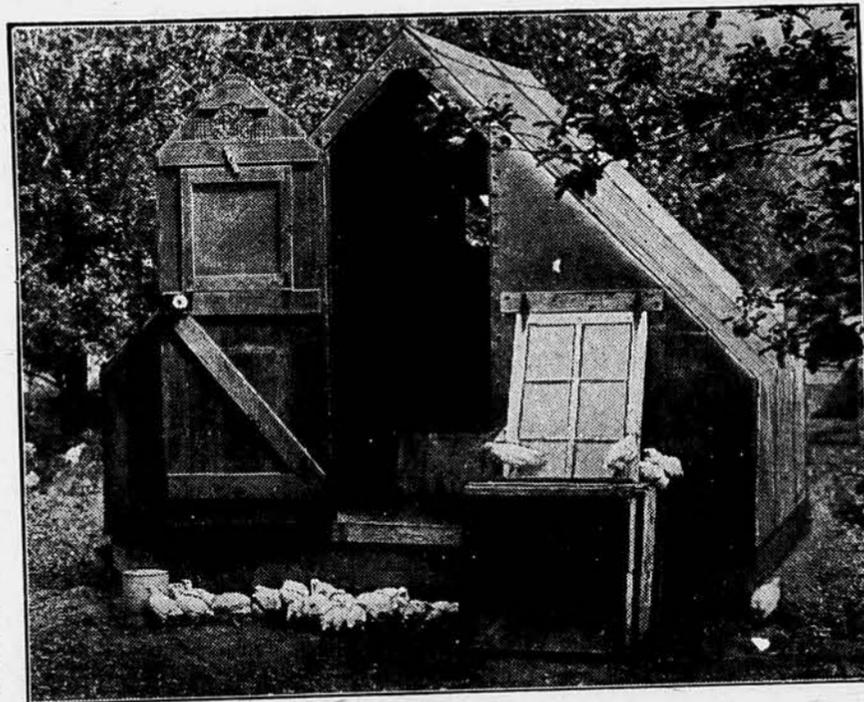
Mrs. Ellis Jordan.
R. 2, Elmwood, Okla.

The hens must have an abundance of good, wholesome food, and never be deprived of their full share. There should be an abundance of a variety of feed, but the fowls should be compelled to work for it. Exercise is of prime importance, and is just as needful to a good egg-yield as is the food they consume.



This Open Front Colony House is of a Style Advocated by the United States Department of Agriculture.

Next to dryness and ventilation, sunshine is a very important condition. Sunshine is the very best germicide that we have. If the windows are located so



The Orchard is a Splendid Place to Raise Chickens—The Trees Furnish Shade and Protection From Wind.

Farm Flocks Make the Money

The Fehrs in Jewell County Produce 90,000 Eggs a Year

BY V. V. DETWILER

THE poultry wealth of this country is produced by the flocks of hens on grain, stock and fruit farms, and not by the large flocks on specialized poultry farms. Poultry fanciers are interested in beautifully formed and feathered birds, but the consumer is concerned with eggs and dressed poultry. Persons who are striving to improve the different breeds of chickens are doing a valuable work, and they deserve all the profit they get for their labor; but the fact remains that most of the eggs and meat is produced by the small flocks of hens owned by persons who are doing general farming.

These flocks often represent a small investment and during a large part of the year they forage for a considerable part of their food. Thus they return a large percentage of profit.

It is not necessary to have expensive houses in order to make a success with the farm flock of hens. Results achieved by persons who believe it is neither necessary nor desirable to have pretentious equipment, prove this.

A Jewell Plant.

Take for example the poultry plant of J. E. Fehr of Jewell, Kan. He has sold more eggs than anyone else in Jewell county, according to the manager of a produce house that has branch buying stations in all the principal towns in that county. He says that he never has known hens to do better than the ones that lived in the old hen house made of baled straw, that he had several years ago. The hens on the Fehr farm have comfortable houses, well ventilated by means of curtain fronts, the sensible, inexpensive type of house that any farmer can afford to provide for his flock.

The 700 hens on the Fehr farm lay many eggs. In the first 10 months of last year they laid more than \$1,000 worth. No fancy prices were figured into this record. The prices were just what any farmer is able to get on his local market. Almost 75,000 eggs were marketed in those ten months.

This flock has been maintained at about its present size for the last six years. In 1909 the produce receipts were \$767.54; in 1910, \$787.33; 1911, \$833.90; 1912, \$892.44; 1913, \$858.87. The income for the first ten months in 1914 was: January, \$90.99; February, \$122.70; March, \$143.85; April, \$139.12; May, \$160.39; June, \$73.59; July, \$74.37; August, \$69.23; September, \$103.50; October, \$75.95.

Good Care and Feed.

These results are obtained by making the hens comfortable and keeping them thrifty and well-fed. Wheat, corn and kafir form the bulk of their ration. A great deal of wheat bran is used in making a dry mash that is fed in hoppers. Mr. Fehr says that he feeds about 300 pounds of bran a week in this way. A small amount of shorts is added to the bran in making the mash. During the winter beef scrap is mixed with this

mash. About a gallon a day of this beef scrap is fed.

There is not so much room in the several poultry houses on this farm as Mr. and Mrs. Fehr would like to have. Mr. Fehr says, though, that it would do him no good to build more houses, because if he did his wife would just hatch a lot of extra chickens and fill them. They do not have special rooms for scratching, so Mr. Fehr keeps about a foot of straw in the roosting rooms during the winter. Of course this makes a lot of extra work for him when it comes to cleaning the houses. If this straw was in a special scratching shed it would not be necessary to change it very often. The proof of an egg producing plant, however, is in the eggs you get, and the Fehrs seem to get the eggs. Their flock is as healthy a lot of chickens as you will see anywhere, too, so a little crowding must not be a very big evil if there is efficient ventilation and things are kept clean.

The Profitable Ones.

Single Comb Brown Leghorns are the most profitable layers for Kansas farmers, Fehr believes. No other variety has been kept on this farm for several years. New blood is introduced every year. This is accomplished by buying several dozen eggs every spring from some breeder of pure blood Brown Leghorns. The chickens hatched from these eggs are marked, and the cockerels are saved for use the next season. Forty males are needed for the flock.

Mrs. Fehr plans to raise about 300 or 400 pullets every year. Room is made in the flock for these pullets by culling out the same number of old hens and selling them. Most of the cockerels are sold to the local produce man, but a few are bought by neighbors for breeding purposes.

Incubators are used by Mrs. Fehr, but she always sets a few hens at the same time that she puts the eggs in the incubator. When the hatch comes off, she gives all the chickens to the hens, thus avoiding the rearing of the chickens by hand. She finds that one hen can care for about 50 chickens, if she has a suitable coop.

Sold Many Eggs.

The Fehrs sell eggs to their neighbors for hatching, though they never have advertised their product, and do not charge a fancy price. They sold more than 1,000 eggs to a single customer last spring.

It is just a plain, unpretentious, but very efficient egg factory that Mr. and Mrs. Fehr have on their Jewell county farm. If there was as good a factory on every farm in Kansas the value of the poultry and eggs sold in Kansas in a year would be 250 million dollars instead of 12 million dollars.

Much depends upon the early training of the colt. Teach a rapid walk the first thing when the colt is put in harness.



Mr. Fehr and One of His Poultry Houses—He Sells an Average of More Than \$100 Worth of Poultry Products a Month.

He Broke the Price on Gasoline Engines!

Geo. E. Long, "The Young Man Who Made Ottawa Famous," Proved That His Theory of Selling Direct is the CHEAPEST Selling Plan

TRULY A SELF-MADE MAN

The subject of this sketch is perhaps already better known to western farmers than any other manufacturer in this section. Certain it is that no other manufacturer lives closer to his work and his customers or has so many personal friends among the farmers of the West and Middle West as Geo. E. Long, Manager of the Ottawa Manufacturing Co., 301 King St., Ottawa, Kansas.

Geo. Long was one of the first large manufacturers to back up his belief that



the old indirect, round-about, three-profit plan of selling was wrong. He knew how to build good engines—and he BELIEVED he knew the one most practical plan by which to SELL them. When Geo. Long announced that he was going to sell a 6 H. P. at \$36.75 direct from factory to farm, engine manufacturers all over the country said that it could not be done—but Long is doing it and making money—a small profit on each engine, which is the secret of his success. The entire output of "Ottawa" engines goes direct from factory to farm on the one-profit, mail-order sales plan. As a result, a farmer can buy a 6 H. P. engine, guaranteed for years, for only \$36.75, a 4 H. P. engine for \$28.90 and other sizes from 1½ H. P. to 15 H. P. in proportion. Thousands and thousands have been sold in this way—and thousands more will be sold THIS year and NEXT year and throughout the years to come.

The "Ottawa" gasoline engine has for many years held its place at the very top of the list for efficiency, power, fuel economy, dependability and low cost.

Geo. Long can under-sell all competition and give BETTER quality and a more BINDING GUARANTY for the very simple reason that he has the best of ALL of them in low manufacturing costs. He operates his own big foundries, machine shops, finishing and assembling rooms and warehouses. He is located in a small town in the natural gas belt where power fuel and lights cost almost nothing and where property investment and taxes are many times less than they would be in a large city. He gets high-quality labor at less cost because it costs his men much less to live in Ottawa than in a big city. He is near the source of supply for raw materials and fuel and is IDEALLY located as regards shipping facilities and nearness to his market.

The success story that could be written about Geo. E. Long would fill much more space than we can use here—and the many good things that could be said about the "Ottawa" engines would fill PAGES instead of columns.

Mr. Long has just written and published one of the most complete and most interesting engine catalogues ever issued. It is a book of value to every farmer interested in the big and important subject of farm power. Mr. Long will send a copy of his new engine catalogue free and post-paid to all readers of this paper who will write him at address given above.—Adv.

3 MACHINES IN 1

A perfect seed bed is as important as to sow or plant. The Western Pulveriser, Packer and Mulcher makes a perfect seed bed and leaves a loose mulch on top so retain the moisture in one operation. It will double profits on crops. Made in 8 sizes, 1 and 3 sections. Sold direct to you on one year's trial. Prices, \$22.00 and up.



WESTERN LAND ROLLER CO. Hastings, Neb. Box 412.

The Flexible Movement of the Spade in Plowing

When you drive a spade into hard ground, you sort of "wiggle" it around between each push. It seems to go down easier—you remove the resistance of clinging soil.

It is this principle that we have succeeded in getting into Janesville Plows. Our object was to lessen the pull on your team and turn a neater furrow. The S. & S. auger twist mouldboard glides through the soil with a flexible movement. This flexibility is possible only in a single ball plow like the Janesville. The plow bottoms have just enough movement in the frame to ease the pinch at the point of the share and its cutting edge. This takes the hard work out of plowing. The furrows shave off clean—the finished field shows a skilful job.

JANESVILLE PLOWS

With S. & S. Auger Twist Mouldboards

were used by the winners in the plowing matches at Big Rock, Wheatland and Gran Park, Ill., in 1914. In every case at the winner had to show the best work. Our plow was thoroughly tested—12 good farmer judges pronounced it superior to 21 entries of other plows made by 5 companies.

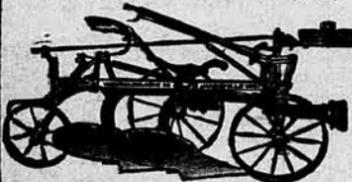
Janesville plows left the depth and width of the furrows uniform—buried all trash and stubble, broke up the ground thoroughly—left the surface smooth and clean.

Why not do your spring and fall plowing this year with the Janesville flexible S. & S. bottom? Save your team—why pull a plow bottom set solid in the frame? Get the spade movement into your plowing and sidestep hard work.

Write for Literature

and let us tell you more about this construction. Let us send you our book of photographs of good plowing that has taken prizes. Write today for literature on Janesville Plows, Harrows, Disk Cultivators and Corn Planters.

JANESVILLE MACHINE CO. 42 Center St. Janesville, Wis.



S. & S. Bottom or Sulky Gang, and Walking Plows

GOING TO BUILD OR REPAIR?

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Send for the greatest money-saving catalog ever issued. For Farmers, Builders, Contractors and Home Owners. Thousands of Bargains in New Lumber, Roofing, and Merchandise from Shroff's and Receivers' Sales. We buy in train loads, Hardware, Mill Work, Doors, Window Sashes, Plumbing and Supplies, Paint.

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EVERYTHING KNOWN IN BUILDING MATERIAL. Simply send name, a post card will do, for free copy of this big illustrated catalog. We have just what you need—large or small—from carloads of Lumber to odds and ends. Our three acre plant and 5 years in business is proof that we make good.

KING'S HOUSEWRECKING SALVAGE AND LUMBER CO. 1802 Troost Av., Kansas City, Mo.



Between Hatch and Hatchet

Should Little Chickens Be Made to Scratch?

BY N. L. HARRIS
Kansas State Agricultural College

WHAT feeds are necessary to bring the chick to the hatchet depend upon the use to which the bird is to be put, and the age at which it is to be marketed. If to be sold as a broiler, it may be profitable to finish it on buttermilk or tallow. If it is to be kept as a layer or breeder, a steady but not too rapid growth is desired and a wheat and corn or kafir diet is the most satisfactory, provided it is supplemented by liberal feeding of bran, shorts, sour milk, beef scrap or clover.

We hear it said that little growing chicks must be made to exercise. This leads to the method advocated by most writers of scattering the feed in some fine litter and making the chicks scratch for every grain. One system even goes so far as to advocate putting in some feed and a light layer of chaff then some more feed, more straw and so on until a depth of 12 or 15 inches is reached. Contradictory to this one of our leading poultry raisers states that no feed should be allowed to remain in the pen more than a few hours for fear of contamination. One of our foremost Kansas breeders in a recent article said emphatically that it is folly to compel a little chick to scratch for any feed.

Exercise Is Needed.

There are two conditions and only two which caused me to make any considerable change in my methods. Growing chicks must have some form of exercise. It has been my experience that if it has an opportunity the newly hatched chick will at once begin to run about and secure in this way all the exercise nature requires, to keep the body in a healthy growing condition. If the hatching is done at the time of year when it is impossible to have an outdoor run, the inclination to run about and scratch seems to die out in a few days. Soon there is a sleepy, droopy appearance, which quickly is followed by digestive troubles and death. Some artificial method, therefore, must be provided to induce activity and exercise. In this case, it may be well to scatter a little feed in the straw or litter. This has as a rule failed to give me the desired condition. My favorite method is to slice an onion crosswise so as to form long pieces like a worm. If you enjoy a football game try this and you will witness some of the most spirited scrimmages ever enacted. Chicks enlivened in this way once daily will as a rule keep active and happy.

On one or two occasions when some vicious habit had been formed I placed several small rubber sewing machine rings in the pen. These they ran with and struggled over hour after hour for days until they entirely forgot the undesirable tricks. One bad habit of incubator chicks kept in close confinement is toe-pecking. I have seen flocks so addicted to this habit that half their number would have one or more toes bleeding. I have found that it can be quickly and permanently cured by catching the ones that are being pecked and dipping their toes in pine tar. If taken at the first outbreak there will be no serious trouble from this cause. When chicks are of necessity confined to a house, there are numerous little things that must be guarded against, such as huddling in the sunshine as it comes through a window. When feeding, I make it a rule to raise the hover and see if there are chicks that refuse to leave the warmth. If so, I at once try to ascertain the cause. Never let a chick die; kill it to keep it from dying.

Too Much Work?

If chicks are hatched at a time of year when out-door runs are available with plenty of green grass and an occasional worm, I am of the opinion that compelling a little chick to dig for all his grain is only burning up energy that might better be used to promote growth. Permit them to dig and scratch but do not compel them. They will do enough of it of their own free will.

Never remove little chicks from the incubator to the brooder until you have first gradually opened the incubator door and allowed them to become used to the outside air. There will then be

cotton-lined, napkin-covered basket of no danger of chilling and no need of a downy ease to convey them from one machine to the other.

The first feed may consist of nice, fresh, hard-boiled eggs, ground shell and all, and mixed with five times as much rolled oats. A very small amount is scattered on a nice clean board. See that every little fellow comes up and takes a small allowance. This usually can be accomplished by tapping gently on the board with the finger nail, imitating the mother hen and setting the particles of feed in motion so that the chicks see them. A feed more to my liking is to take the yolk of a raw egg and stir in rolled oats till it is a dry crumbly mass and feed this for the first week. Over this I sprinkle a little chick grit, pulverized charcoal and granulated bone. If possible, I feed sour milk from the first and plenty of clean, fresh water always. Gradually after the first day, I add finely cracked wheat and corn or kafir. Feed, twice daily in a shallow trough, all that will be consumed in 20 minutes, of a dry mash composed by weight as follows: Bran, 2 parts; cornmeal, 1 part and, after the second week, fine beef scrap 1/4 part. I find little chicks do not relish shorts.

Feed From the Hand.

Personally, I do not like the method of hopper feeding for the first eight weeks as one is likely to neglect his duties and there is not the intimate knowledge of the flock that is gained by feeding from the hand.

This ration is not changed until the chicks go out on range when the mash may be hopper fed. The cracked grain is then scattered near the coops for the first feed every morning. At noon a wet mash the same as the dry may be fed advantageously, especially during the very hot weather. Another feed of grain is scattered where it can be found easily at night.

It is impossible to produce clean milk in dirty surroundings, and equally impossible to produce good butter where the milk has been exposed to miscellaneous odors.

OUR NATIONAL DISEASE Caused by Coffee

Physicians know that drugs will not correct the evils caused by coffee and that the only remedy is to stop drinking it.

An Arkansas doctor says:

"I was a coffee drinker for many years and often thought that I could not do without it, but after years of suffering with our national malady, dyspepsia, I attributed it to the drinking of coffee, and after some thought, determined to use Postum for my morning drink.

"I had the Postum made carefully according to directions on the pkg. and found it just suited my taste.

"At first I used it only for breakfast, but I found myself getting so much better, that I had it at all meals, and I am pleased to say that I have been relieved of indigestion. I gained 19 pounds in 4 months and my general health is greatly improved.

"I must tell you of a young lady in Illinois. She had been in ill health for many years, the vital forces low, with but little pain. I wrote her of the good that Postum did me and advised her to try it.

"At the end of the year, she wrote me that she had gained 40 pounds in weight and felt like herself again."

Name given by Postum Co., Battle Creek, Mich. Read "The Road to Wellville," in pkgs.

Postum comes in two forms:
Regular Postum—must be well boiled. 15c and 25c packages.

Instant Postum—is a soluble powder. A teaspoonful dissolves quickly in a cup of hot water, and, with cream and sugar, makes a delicious beverage instantly. 30c and 50c tins.

The cost per cup of both kinds is about the same.

"There's a Reason" for Postum.

—sold by Grocers.



Will You Make This One-Sided Test? It's All in Your Favor

Will you let me send you, absolutely FREE enough Sipe's Guaranteed Conditioner to feed your hogs, regardless of number, 60 Days? Will you let me prove to you, as I have proven to thousands of hog raisers everywhere, that Sipe's Guaranteed Conditioner will free your herd of worms; that it will put them in shape to resist disease; that it will condition them to fatten quicker, on less feed, and at much less cost per head? This is a clean cut, wide open, one-sided offer—all in your favor—and one I would not, and could not make if I did not know positively, by actual tests, that Sipe's Guaranteed Conditioner is all that I claim for it.

Send no money. Simply fill out the coupon below; tell me how many hogs you have, and I will send you enough Sipe's Guaranteed Conditioner to feed your herd 60 Days, FREE. Remember, I am asking you to allow me to prove to your entire satisfaction that Sipe's Guaranteed Conditioner is all that I claim for it; therefore, I take all the risk.

BRUCE SIPE, Gen. Mgr.

Raise Market Topping Hogs

Feed with the regular ration, or better still, place where the hogs can get to Sipe's Guaranteed Conditioner, and you have taken the first and most important step toward a market topping herd. This for the simple reason that Sipe's Guaranteed Conditioner, a purely medicinal compound composed of Roots, Herbs, and Sodas—supplies to the hog certain elements lacking in its regular ration and which are so absolutely essential to the hog's well being. Sipe's Guaranteed Conditioner will positively kill and prevent worms; stimulate the appetite; insure perfect digestion; and make the liver and kidneys perform their functions properly, thus permitting every mouthful of feed the hog takes to convert into fat and bigger and better profits for you. It means, also, increased vitality, which enables them to resist the many diseases the animal is subject to.

What Feeders Say Price List

30 lbs.	\$ 3.50
50 lbs.	5.50
100 lbs.	10.00
250 lbs.	22.50
500 lbs.	40.00

W. B. Wallace, Bunceton, Mo., "By feeding my herd of 500 Mammoth Poland Chinas your Conditioner I have been able to keep the entire herd healthy and doing well, and making money. My herd stands out prominently as a well and healthy herd free from disease."

John Moser, Sabetha, Kan., "Inclosed find \$40 for which ship me at once 500 pounds of your Conditioner."

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They will rub that wonderful vermin-killing oil all over their bodies. And every last louse and nit on them will be gone long before the 30 days. Then, if you don't want to keep the machine, just send it back. But you will want to keep it, for it not only kills the lice but keeps others away.



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10,000 Hog-Joy Oilers now in successful use. The only hog-oiler that cannot clog up, get out of order or waste the oil. Works as well in winter as in summer. Five cents will keep a hog healthy and free from lice a whole year. Hog-Joy Oil keeps the skin soft and healthy and makes the coat fine and thick. Write today for my offer to rid your hogs of lice absolutely free.

MAIL THIS NOW!

H. L. IDE, President Hog-Joy Co.
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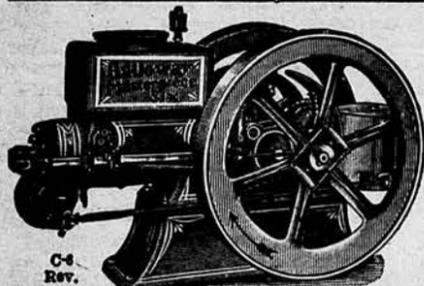
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by the light high-speeded, short-lived, cheap engine, nor by the high priced, ordinary engine with four middlemen's profits as the only excuse for that price. Check our engine point for point with them all, measure the bore and stroke, put them on the scales for weight, size them all up for simplicity, then test ours out side by side with every make and kind, regardless of who makes it or what price they ask, and we will leave it entirely to you to be the judge. Sold on thirty days' free trial. Every sale backed by a \$25,000 bank bond.

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Put Your Bacon in Jars

Covered With Salt the Meat Won't Be Strong

BY HARLEY C. HATCH

AND still the price of hogs goes down. Every day registers a rise in the price of corn and every day sees hogs from 5 to 10 cents a hundred lower. The packers are quoted as being willing to help put stock numbers back where they were a few years ago. How would \$3 hogs go with 75 cent corn?

Our stock of lard and cured meat is now laid away for the coming spring and summer. More than the usual amount of meat has been put up by farmers in this locality; they know by experience what prices they will have to pay next summer. A \$6 a hundred hog inevitably turns into 25 cent ham and bacon when the warm days come.

One trouble in keeping bacon here during the summer is that it gets strong. Ham does not do this but bacon gets rather rank about haying time unless it is protected by something besides a coating of paper. A number here plan on slicing their ham and bacon as soon as it is smoked and putting it in jars to be covered with melted lard. Some say that it keeps well in this way while others do not like it. One man said that it kept the meat from spoiling but that he did not enjoy the second hand taste it gave the bacon.

On this farm we have always wrapped the hams closely in paper and have then sewed thick cotton covering over that. This has always kept hams well. The bacon has not kept so well put up in this way so last spring soon after it was smoked it was packed in jars and covered with salt after each piece had been wrapped in paper. In this way the bacon kept well until fall. A little which we still have has rather a strong taste but it did not acquire that until late in the fall. We always sugar cure both hams and bacon strips but put down a small jar in brine without the sugar to use as salt pork. We plead guilty to liking good salt pork rolled in flour and then fried in connection with eggs.

We have received a number of letters lately asking for more on the subject of the Torrens land transfer system. There is not much we can add to what we have said except that our representative in the legislature, Mr. Mahurin, has introduced and will try to have enacted a law closely following the Texas form of the Torrens system. We have yet to hear from or to talk to a man opposed to an optional form of this law. The present system must be reformed sooner or later and the quicker it is done the better it will be for all of us. We do not favor a law compelling this change in registration to be done at once as that would work a hardship to those who would not care to go to the expense. Fix it so that the change can be made at the first transfer of the land; it can then be done, once for all, and at no additional expense.

A friend writes from Liberal, Kan., telling us how to fix our pump so that it can easily be detached from the pipe which leads to the tank, 60 rods away. He says that if we will put in a union at the point where the pipe enters the well and turns down, the taking apart of pipe and pump will be a short and easy matter. The trouble with this in our well is that the water rises high enough to cover everything. The pipe leaves the well on a level 3 1/2 feet under ground and the water rises even above this so that if we dig up the first two lengths of pipe the water follows out in the ditch thus made for the full length. In the ten years the pump has been in we have been fortunate in not having to take it up in cold weather. We always try to have everything connected with it in good shape before cold weather sets in.

In reply to our inquiry about the merits of mixed paint as compared with pure lead and oil we have received a number of letters. One writer, who has done considerable painting in the last few years and all with white lead and oil, says that there is a great difference in the purity of the materials and that some jobs will be perfect and the paint remain on for years while other jobs, done at a later date, present

a bad appearance. His idea is, that white lead and oil, if pure, is the best paint but he strongly thinks that something should be done in regard to paint adulteration. There are a number of standard brands of white lead which we think will all prove pure as the manufacturers could not afford to injure their reputation by adulteration. If there is adulteration we think it will be found in the oil in almost every instance.

Another who writes from western Kansas takes the view that lead and oil is not so good as the mixed paints when properly prepared. In this view he agrees with the painter who did our work. This painter had worked four years in western Kansas and he told us for that section mixed paint which contained zinc was the best but that for eastern Kansas pure white lead and oil was best. Our western Kansas friend thinks that the reason most painters prescribe white lead and oil is because it works under the brush so easily. We do not know. We are not a paint expert. We can only say that we like the looks of the painting done with pure white lead and oil much better than that done with mixed white paints containing zinc. Which will wear best can be told in a year or so.

An inquirer living in eastern Kansas has 50 acres on which is a good stand of alfalfa from last spring's sowing. He wishes to pasture sheep on this alfalfa and asks if it will bloat sheep as it many times does cattle and also asks if pasturing with sheep will injure the alfalfa. Sheep will bloat on alfalfa the same as cattle. The same conditions that will produce bloat in cattle on alfalfa pasture will produce it in sheep. Sheep are hard on pasture of all kinds especially in dry climates and we should fear that much injury would result to the alfalfa if pastured with sheep. In a section where prairie is so plentiful as it is where our inquirer lives we should stick to prairie grass pasture for the sheep and keep the alfalfa for hay. A good stand of alfalfa is worth too much to risk letting the close cropping teeth of sheep get at the crowns. If wet weather sets in their sharp feet would also be hard on it.

Stockmen are greatly disappointed at the course of the markets during the last two months. As a result of the war they see grain of all kinds rising in price every day while livestock decreases in value as fast as grain rises. They do not understand this. Do not the European armies and people who have such an appetite for our grain eat meat also? In former wars meat was a great factor in war supplies but this war seems to be fought on a vegetarian basis if we take livestock prices as a criterion. It is a fact that nearly all livestock now being fed for market in Kansas is fed at a loss. Under these conditions how can the farmers be asked to increase livestock numbers? Farmers ask, What would hogs be selling for if the packing centers were getting the old time runs? What they expect to see is, a great increase in price of meat as soon as the hog crop is out of the feeders' hands. Once let the meat get in the packers' cellars and see how quickly a "strong European demand" springs up. The next article we see advocating an increase in farm stock we hope will be accompanied with a diagram showing a profit attached to the increase.

Use Alfalfa in the Ration

I have had 26 years experience with poultry. In 1914 I sold \$78.49 worth of poultry besides killing 125 for family use. I now have 200 hens and 35 capons and roosters. I am getting from 3 to 4 1/2 dozen eggs a day now.

I keep warm water for the chickens, and heat corn and give it to them while it is hot. I also give them ground rye mixed with alfalfa chaff, with some blood meal and cottonseed meal in it. The chickens like this feed, and I believe the alfalfa fed in this way is about as valuable as bran.

Portis, Kan. Mrs. T. N. Garner.

The man who cares for hogs should have a liking for them.

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Can You Pick the Egg Type? Guaranteed To Reach The Top Of The Highest Silo

The Best Hens Usually Are Medium Sized Birds

BY T. E. QUISENBERRY

There is an egg type and a beef type in poultry, just as there is a dairy type and a beef type in cattle. We find both of these types in all varieties of poultry. And there also is the intermediate, or dual purpose type. We will not attempt to describe these except to say that our best hens, are medium sized birds, and as a rule, are considerably under standard weight. They are late moulters, and practically free from a disposition to broodiness. They have thin pelvic bones; rather high tails; rather narrow skulls; large, bright eyes; large combs; long and broad backs carried much higher than that portion nearest the tail; wide behind with plenty of space between the point of their breast bone and the points of the pelvic bones. They must be good feeders, always active and alert. The good laying hens are nearly always somewhat close feathered. We believe that if a White Leghorn with a record of 250 eggs, and a Barred Rock with the same record, both in good health and condition, were killed and picked at the same time, you would find a great resemblance and uniformity in the shape and measurements of the body and bones of the two fowls. You would have to make due allowance for the extra size of the Plymouth Rock, of course.

years of careful selection and breeding, and another pen has only an occasional good bird which shows that these good qualities are not so firmly and uniformly fixed in the flock. Know the history and the pedigree of at least a few of your best breeding males. It pays.

Don't overlook vigor or vitality in every bird in your pens. That always should be the first requirement, for without it your birds cannot retain typically every bird gives evidence of



After Laying 286 Eggs in One Year.

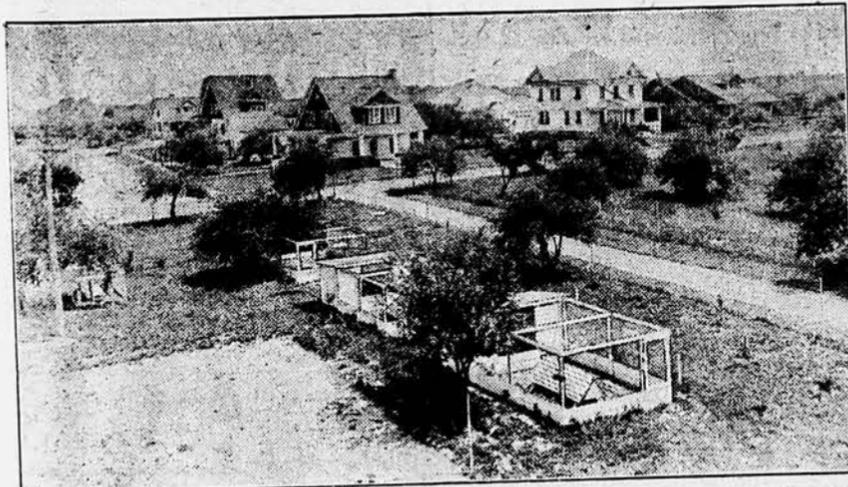
A reasonable amount of beauty and a reasonable number of eggs can be combined in the same fowl. The Barred Rock, the White Rock, the Buff Leghorn and a number of the other hens which made the highest records in the laying contest last year, were hens which would not disgrace any show room. The Barred Rock which laid 254 eggs was exceptionally good in color and shape. Just as some of the fanciers have disregarded egg production in their matings, some of the egg men have disregarded color in their matings. We do not believe it is possible to produce a record breaking layer and pay too much attention to color, neither can you breed the exceptionally high scoring specimen and pay too much attention to egg production. We do believe it is possible to breed whole flocks that can average 150 to 180 eggs and have individuals laying from 200 to 250 eggs and still have beautiful color and shape.

Why is it that some pens have a single hen in the pen of 10 hens that will make a very high record and the remaining birds in the pen will be below the average? We think it is due to the fact that a poultryman like Barron has given much thought and much time to the question of selection and breeding for egg production. Such breeders have done some trapnesting, some pedigreeing, and they know the kind of males and females that they are breeding from. Such poultrymen have selected and bred from 200-egg stock for so long that they have fixed the egg laying characteristics and the egg laying ability in the entire flock. Practically all their hens average well and make good records, barring sickness, accident, or improper methods of feeding and housing. Other fellows have bred more or less promiscuously and unknowingly. Therefore, they only get an occasional high hen. In some pens, prac-

their good shape, their brilliancy of plumage, nor can they be good producers from any point of view. Breed from males and females that have been good producers or that have been bred from good producers. Don't forget that the egg basket is where most of the profit is, and that eggs represent more than half the income from this great industry.

You should also realize the importance of hatching at least a few early chicks. In some sections of the country, February and March are excellent months to raise poultry, and it is possible to produce birds that will lay eggs during the early months of fall when eggs are the highest. Then birds will be in prime condition for the early show rooms, and will be mature enough for breeders the following season. The hatch may not be quite so good, but if you will provide comfortable quarters the chicks will be more free from disease and vermin than when hatched later in the season. Birds that you wish to cull out bring a good price on the market as broilers. In fact, reaching the market with early broilers is one method by which paying returns are brought to the specialist who raises fowls for the market.

We think that every farmer and every poultry raiser should have at least one good incubator holding 120 eggs or more. It is the practice of too many persons to set the first hens which go broody in the spring and these usually are the very hens which should be kept laying. These hens are the ones which had the ability to lay in winter when eggs were highest. Start the season of 1915 right and you will find pleasure and profit later in the poultry business as a result of your carefulness and common sense used at this time.



A View Showing Part of the Missouri Poultry Experiment Station, Where Quisenberry Does His Work.

IF YOU have a silo, especially a high one, you'll be interested in this: "We guarantee any Papec Cutter to throw and blow ensilage perpendicularly to the height of any silo, with any power, providing the speed of the cutting wheel does not fall below 600 revolutions per minute. We also guarantee that any Papec Cutter will cut and elevate more ensilage with the same power than any other blower-cutter, further, we guarantee every Papec Cutter against defect and will replace, F. O. B. Shortsville, any part returned prepaid to factory that shows either faulty workmanship or material." This is the guarantee just as it appears in our catalogs. It's your safeguard and guide to buying an efficient ensilage cutter.

PROOF

Fulfilled Guarantee to Elevate 75 Feet

Harvey B. Colom, Somerville, Ohio, wrote us Oct. 27, 1913: "After writing you that I would build my silo as high as you would guarantee to elevate the ensilage with your three-knife Papec Cutter, and you wired me to go 75 feet high, I doubted as to whether it would go that high or not. To the surprise of many people, the Papec Cutter took it over the top with ease, all that I could feed to it. I used a corn binder to cut my corn and never cut the bands, simply lapping the butts of the corn up to the bands and letting them go straight thru. With my 15-horse gasoline engine I put eight acres over the top the last day's run. As far as I know, mine is the highest silo in the world. It took 40 acres of good corn to fill it. I must say I will always have a good word for the Papec Cutter, for they do all they are guaranteed to do and more too."

Filled 55-Foot Silo With Dry Shock Corn and 1-Inch Stream of Water in Blower

In a letter dated Jan. 31, 1914, Geo. Groenmiller & Son, Pomona, Kansas, state: "Enclosed find photo of our 55-ft. high Concrete Silo that we erected last year and filled with a No. 16 size Papec Ensilage Cutter. We didn't get our silo done in time to fill when we cut our corn, so we had to put it in shock. It was very dry when we filled the silo and we had to use a large amount of water. We turned an inch stream of water from a force pump in the blower and it threw it in at the top of the silo in fine shape and made two men work to keep the fodder in the machine. It is sure a fine cutter the best we ever saw, and we looked at a good many before we bought."

Papec PNEUMATIC ENSILAGE CUTTER

As Necessary As A Binder

You keep a binder to cut your crops at just the right time. You're not dependent on another man cutting them at his own convenience. The same reason holds good with the Ensilage Cutter. You should own a "Papec" and cut your corn at the right time and save much of its nutritive value. A "Papec" will pay big dividends.

You Can Run It With Your Own Engine

—yes, a 4 H. P. engine will operate our smaller-sized machine, cutting 3 tons of green fodder per hour. Knives easily adjusted and quickly removed for sharpening. Capacities up to 30 tons per hour. The "Papec" is a farm machine, just as much as the binder—every stockman and dairyman should own one. Better write now, today, and ask us what size you'll need.

is built for years of hard service. It has a one-piece, semi-steel frame—no rivets to work loose; gear transmission only. No heating of bearings—they're always in perfect alignment. Protected feed rolls—no danger to operator. Feeding Table just the right height. Cuts various crops, green and dry. Easy to set up and take down—the pipe is the only part to be put up and removed. Knife grinder supplied at small extra cost.

"It Throws As Well As Blows"

—that's where it saves the power. The "Papec" throws the ensilage 15 to 20 feet, then a powerful air blast strikes it and completes the elevation. The "Papec" has six fans instead of the usual four—pours a steadier and faster stream of ensilage. Fans run close to drum—no material can pass by them. Knives always shear—and with perfect clearance.

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It shows facts in ensilage cutter construction that are a matter of dollars and cents to you. Better send for your free copy of this book today—learn all about "The Wonderful Papec" line of cutters.

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Papec Ensilage Cutter Demonstration at Indiana State Fair, Indianapolis—Elevating 80 feet. Notice the interested crowd. Machine in use from our regular stock—not especially made for the purpose. Papec ensilage cutters and extra parts can be had promptly from the following distributing points:

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Baltimore, Md.	Kansas City, Mo.	Boston, Mass.	Indianapolis, Ind.	Springfield, Ill.
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Atlanta, Ga.	Washington, Pa.	Grand Rapids, Mich.	Ft. Worth, Tex.	Hartford, Conn.
				Denver, Colo.

Capons, and Their Market

It Takes 10 Months to Get Them Ready to Sell

BY GEORGE BEUOY

CAPONS are always in demand. The markets of the country want them and are willing to pay the high price necessary to get the capon trade. The last two years have seen a wonderful growth in this important part of the poultry industry. The poultry raisers and the farmers in particular have taken up capons on account of the money to be made from them. Not enough capons were produced west of Chicago, two years ago, to supply the demand of that section. Capons actually were shipped into our principal western cities to meet the local requirements, and often they could not be had at any price. The manager of a produce house in one of our principal western markets told me that until two years ago he imported all his capons. Then a modern invention placed the capon on many farms of that section. Last winter they bought more than \$10,000 worth of capons, all made and raised in their immediate section. All of them were marketed in 90 days, during the heavy run

price and a loss to the producer. Caponized at the proper time the supply will be distributed throughout the year and the bulk of the capons will come on the market at a time when there is no other live poultry in sight. The capons make a nice profit for the producer, the consumer gets his money's worth and the market man is happy to supply the demand.

I receive many letters every day asking about market conditions and prices on capons. Some capon raisers were dissatisfied last fall, because they did not get high prices quoted at that time. This was because they did not fully understand about capons. To get the benefit of the operation the capon must be held until he matures into a capon.

During December the average spring hatched capon is making a big growth of frame and body. At that time he is in the awkward stage; is long, hungry and lanky. He would not at that time be worth much on the market. During the latter part of December and in January he will "heavy down" and begin to get into condition. By the middle of February the capon should be in condition to market. This is well known to produce buyers and for that reason it is difficult to get quotations before February. Of course if you have a supply of old capons, carried over for use in brooding little chicks, and have them fat and up to weight there always is good sale for them during the holidays. To prevent young unfinished capons from coming to market the produce men have adopted a rule that any capon that does not weigh as much as seven pounds must be docked from 2 to 4 cents a pound.

Capons of the proper age fatten very easily and get into condition quicker and with less expense than any other kind of poultry. It is important that capons be in good flesh to bring the best figures. It is easy to make a capon weigh 10 pounds or more and they should be as heavy as possible to bring best prices. I have before me quotations from a Kansas City capon buyer and they quote capons weighing seven pounds or more at 18 cents a pound. Those weighing less than seven pounds are 2 to 4 cents a pound less. These prices are for live weight. I have a letter from a Philadelphia capon buyer that quotes fancy dry-picked capons weighing eight pounds or more at 25 cents a pound; those weighing six to seven pounds, 22 to 23 cents a pound; five to six pounds 20 to 21 cents a pound. Local produce buyers should handle capons. If yours is behind the times and does not quote prices on capons, I will be glad to give you the address of one near you who will.

The Lure of the Land

Dr. Harvey W. Wiley, formerly chief chemist of the United States Department of Agriculture, has written a book, "The Lure of the Land." Dr. Wiley now is farming in Virginia. The book consists of 368 pages, and it contains 49 illustrations. It is published by The Century company, New York City, and the price is \$1.50 postpaid.

This is a book for the thousands of men and women in the large cities who have felt the lure of the land and who are inclined to believe that a farm offers the happy and safe solution of their special problem.

It is a sane, practical, constructively helpful discussion of the general question of the lure of the land, the "born on the farm" myth, the dairy the hope of the small farmer, farm labor, the farmer's market, the farmer and the parcel post, and the decreasing meat supply. Here are facts which every city man who wants to try farming should know—much wholesome advice also for most farmers, concerning opportunities to be improved. Dr. Wiley writes out of the wisdom of a lifetime of experience with farm life in all its phases, enriched by careful study of the problems of country life.

Fowls can stand almost any amount of cold so long as the air is dry; but cold, damp air must not be permitted in the houses, as this is one of the principal causes of colds and roup.



The Operation Is Easy and Soon Learned.

in March, February and April. Many other buyers did a big business; so you see the industry is coming to the front.

I have predicted all along that capon growing would be the most profitable part of the chicken raising business. The farmer or poultry raiser that is not making capons is losing a nice profit every year. The operation is easy, and soon learned. The market is excellent and never fully supplied, nor is it likely to be fully supplied, soon.

Capons mature and are ready to market at a time of year when all other poultry is very scarce and often not to be had at any price. It takes a capon nine or 10 months from the time he is hatched to get into market shape and he cannot be marketed before that time as a rule. As most of them are hatched during the spring this means that they will be ready to market during February, March and April.

This is too early for fryers or broilers and the successful poultry raiser will not sell laying hens at this time as they are producing the most profitable part of the egg crop. The capon is put on the market at just the proper time to bring the big price.

Modern conditions and requirements demand an infertile egg. It is practically impossible for the average farmer to separate his young roosters from the hens and keep them that way. The expense and extra work soon would eat up the profit. So we must "swat the rooster," and the only sensible, profitable way is to make capons of them. After they are caponized, they can run with the rest of the flock.

Half the chickens hatched every season are male birds. Most of them are brought off in March, April and May. This means that if we attempt to eat or market that half of the flock within the limits of the tender acceptable age, it must be done during July, August and September. They cannot at that time be put into cold storage to good advantage and there usually is a glut in the market resulting in a low



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Guided by common sense and good management, Mr. Hiram Fairman, a successful tobacco grower of North Hadley, Mass., paints his buildings with

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and pure linseed oil. Sound judgment, because that is the paint which anchors firmly into the wood, has enough elasticity to prevent cracking, may be tinted any color, wears long, keeps smooth and never has to be scraped or burned off.

If you want to paint for beauty and for wear stick to Dutch Boy White Lead.

Would you like to see a simple test which will help make you paint-wise? We will send you materials and directions for such a test, together with booklet of practical suggestions and color schemes. Address our nearest office. Ask for Painting Aids No. 141

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Write this very day for my buggy bargain book. Every page a gold mine for the shrewd buggy buyer. Tells how I make my famous "Blue Grass" buggies and how I test them. Gives every shape, style, upholstery, etc., imaginable.

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Save Money



Rheumatism For Young and Old

The acute agonizing pain of rheumatism is soothed at once by Sloan's Liniment. Do not rub—it penetrates to the sore spot, bringing a comfort not dreamed of until tried. Get a bottle today.

RHEUMATISM

Here What Others Say: "I highly recommend your Liniment as the best remedy for rheumatism I ever used. Before using it I spent large sums of money trying to get relief of the misery and pains in limbs and body, so I tried your Liniment both internal and external and I found quick relief, and now am well and strong again."—Geo. Curtis, 885 N. 16th St., Springfield, Ill.

Here's Proof "I wish to write and tell you about a fall I had down fourteen steps, and bruised my neck and hip very bad. I could not sleep at all. I sent my wife for a 25 cent bottle of your Liniment and in two days' time I was on my feet again."—Charles Hyde, 1525 1/2 Prairie Ave., St. Louis, Mo.

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for neuralgia, sciatica, sprains and bruises.

All Druggists, 25c. Send four cents in stamps for a TRIAL BOTTLE

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Simple—Light—Powerful

The first thoroughly practical all-around tractor that fits the average farmer's needs; high-powered; easy to handle; can be used all seasons, in all conditions of soil;

Won't Pack the Ground

turns square corners—a mighty convenience and a saving of time. Running expense low. Let us help you in your power problem. Write today for further information and New 1915 Catalog.

Hume Mfg. Co., 540 6th St., Hume, Ill.

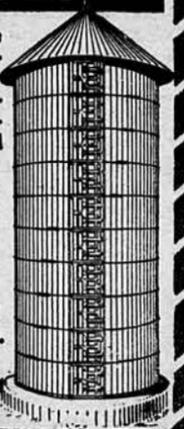


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We also make The Lansing Silo The Chicken Silo Wood Tanks, all sizes, and handle Silberzahn Cutter

Beatrice Creamery Co. Dept. 27 Topeka, Kans. Denver, Colo. Oklahoma City, Okla.



Bantams For the Children

BY JENNIE E. STEWART.

Bantams take only about half the ground space required for ordinary fowls. They take about half the feed. If good stock is kept the eggs for hatching sell for as high prices as those of larger fowls. A pair of bred bantams sells for as high prices as do larger fowls. The eggs from a \$2 pair of bantams should sell for 75 cents or \$1 for fourteen. That is about what larger stock of that grade would average.

The house for three bantams or even for six need be no more than a big dry goods box. They fly easily and will need to have as tall a pen as any fowls, unless you clip a wing of each. If you cover the ground with deep litter six feet square of space will keep six old bantams and their house. The little ones would run on the lawn till nearly grown when they should go in the same pen with the old ones. A great many children buy a pair of bantams for pets and you may dispose of many in that way.

It takes three weeks for bantam chicks to hatch. They should be left in the nest 24 hours. Provide a warm, dry coop for the mother. Before you give the chickens a mouthful of feed, sprinkle some sharp sand in front of the coop and allow them to peck at it for a half hour. Their first feed should be the yolk of a hard boiled egg, mixed with some dampened bread crumbs. A handful of whole grain of some kind should be given to the mother. After the first day, give the chicks cracked wheat and millet seed mixed. Put it in the grass in front of the coop, a half cup full at a time three times a day. You can buy prepared chick food if you wish. Give them gravel once a week or keep a pile close by. Give them water in a little fountain every day, or twice a day in summer.

One boy I know paid \$5.50 for feed, including beef trimmings, because his birds could get no bugs. He reared 80 Cochin Bantams and sold \$150 worth of stock and eggs, in one year. His first stock was three hens and a cock, and cost him \$5. He used a Plymouth Rock hen to hatch two settings of 17 eggs each. She cost him 70 cents when she began to sit and when she had reared the last brood of chicks she was sold for the same price, so all she cost him was her feed for three months. Most of the chicks were brought up by hand in a cold brooder, which the boy made.

The best varieties of bantams are Cochins and Light Brahma, for eggs and family use. There are numerous varieties that are desirable if you wish them for selling eggs and stock for pets. For show stock, any of the breeds are excellent if your foundation stock is fine enough. Almost every known variety of chicken has its bantam miniature so you have a wide choice in breeds.

The Way to Get Winter Eggs

One of the most important questions in poultry raising is how to make hens lay in winter. I have been fairly successful in getting winter eggs. I always begin early, usually in February, and get my chickens hatched early enough so the pullets will be ready to lay by November 1. It is best not to raise late chickens at all unless you can keep them separate from the main flock, as it is a waste for them to eat the egg producing food which the layers should have.

Early in August I begin to get the flock in condition for winter. That is the very time when they are most likely to be neglected, because eggs are cheap and the owner is tired after caring for the young chicks during the summer. The hens are tired, too, and their vitality is at its lowest as this is moulting time, so do not neglect anything that will add to their comfort at this time. Be especially careful to get after the lice and mites.

After the culling has been done I begin to feed a bran mash once a day, with a little sulphur and flaxseed meal to aid in feathering. Add the table scraps and mix with skim milk. Feed this mash early in the morning and then the chickens can be let out to pick up the rest of their food. In cold weather I let them scratch their breakfast out of deep litter, and feed the mash about 10 o'clock. By the time winter begins the hens and pullets should be in prime condition. They should have new plum-

age, bright eyes, red combs, and active alert actions, ready to repay you for your fall labor.

All they will need now to insure you a full basket is a comfortable place to roost, free from drafts, a sunny, well littered shed to scratch in on cold mornings and stormy days, plenty of warm water to drink, a warm mash once a day, and some kind of green stuff when they cannot be out on wheat or rye pasture. Grit and charcoal should always be provided.

Do not wait until eggs are 40 cents a dozen and then begin to work with the hens to get them to lay. It takes 30 days for an embryo egg to reach its full development if the hen is in good condition.

Anise Bauersfield.
Liberal, Kan.

John Deere Implements



John Deere Wheel Plows

With Quick Detachable Shares
Unscrew One Nut—That's All

John Deere Wheel Plows, known the country over as "Quality Plows" are now fitted with John Deere Quick Detachable Shares—an exclusive John Deere feature.

No trouble to change shares. Eighty per cent of time saved. No danger of damaging share. Share is stronger—not weakened by bolt holes. No danger of injury to hands in taking share off.

Write for beautifully illustrated free booklets on John Deere Wheel Plows with Quick Detachable Shares.



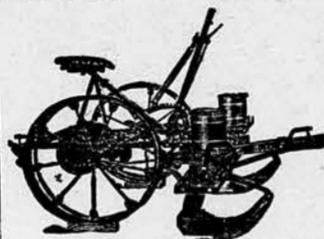
John Deere Corn Planters

John Deere No. 999. The full variable, accurate drop planter. Plants two, three or four kernels as desired—all you do to change number in the hill is to move foot lever. Drilling distances varied and changed from hilling to drilling made just as easily.

Accurate—because it has the "Oblique Selection" or natural drop,—an improvement over previous methods; kernels do not have to be tipped on edge to enter the cells. Surface of hopper bottom and openings to seed cells are oblique, or sloping, and the kernels naturally move toward and fill the cells rapidly.

Many Improvements Make it the Most Accurate Planter

All corn plates for this planter have 16 cells. Therefore, the same drilling distances are obtained with one plate as can be secured on other planters that use 8, 12 and 16 cell plates, and without change of plates.



John Deere No. 999 Planter

Write us for free booklet "More and Better Corn." It tells how to select and test your seed corn, how to prepare the seed bed and the gain in dollars and cents by using an accurate corn planter.

Easily detachable runners enable you to use other furrow openers, if ever desired.

Simplified check heads, disc marker without rope, and underhung reel are also improvements you will appreciate. Fertilizer attachment can also be furnished for this planter.



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Illustrates and describes the most complete line of farm implements. Tells how to adjust and use farm tools under varying conditions. It is a practical encyclopedia of farm implements worth dollars to you—a 168 page text book.

It tells about John Deere Implements: Steel plows, cultivators and harrows; corn planters, discs harrows and beet tools; farm and mountain

wagons; manure spreaders; portable and stationary grain elevators and corn shellers; hay loaders, stackers, sweep rakes, mowers and side-delivery rakes; motor hay presses; grain drills and seeders; full line of chilled plows; grain binders and corn binders; hit-and-miss and volume-governing gasoline engines.

To get this book, free, state what special implements you are interested in and ask for the book as Package No. X 20

John Deere, Publicity Department, Moline, Illinois



John Deere Disc Harrows

John Deere Model "B"

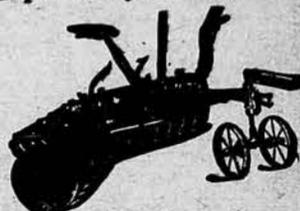
The flexible harrow with the third lever—a patented feature. With it you can give heavy or light pressure at inner ends of gangs to cut out dead furrows or cultivate over ridges so that penetration at even depth entire width of harrow is always certain.

Gangs independently adjustable. All tendency of harrow to crowd towards the bottom when working on hillsides or overlapping easily overcome by changing angle of gangs. Obstructions do not raise all of the discs out of the ground, merely part of the harrow.

John Deere Construction

The steel construction of the Model "B" and all parts having to stand any strain being well braced, make it a harrow that lasts. Gang frames are double bar instead of one single piece of iron—therefore stronger than any ordinary harrow. Steel stub pole is practically indestructible.

High-arched frame provides sufficient clearance so that trash does not interfere, while pivoted axle on tongue truck permits either wheel to pass over obstructions without any strain on horses' necks or on the machine.

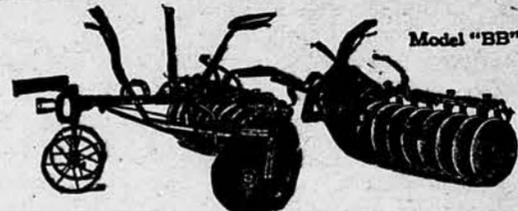


John Deere Model "B" Disc

Discs are of the highest quality steel, thoroughly polished on cutting side and ground to a sharp cutting edge.

Bearings are hard maple, oil-soaked, easy and cheap to replace and even more durable than metal bearings on account of less wear from friction.

The spring steel scrapers on the Model "B" can be locked either at the center or edge of discs, or locked off entirely when not needed, thus reducing draft.



Model "BB"

Front section of the Model "BB" is out-throw, rear section in-throw. This leaves land level. Rear section detachable.

"Bigger Crops from Better Seed Beds"

Write us for one of these free booklets. Read how to make the seed bed that produces the largest crop, how to handle stubble and cornstalk land, conserve moisture, disc sod and prepare soil for small grain and alfalfa. This book also describes John Deere Disc Harrows.

This Flock Is Doing Well

We are on 1 1/2 acres near Topeka. We are planning a 100-hen poultry business, partly because of our love for poultry and partly because of the profit there is in it. We now have 32 young Barred Rock pullets some of which started to lay November 6, and the eggs received since then have more than paid for their feed. By setting them all and giving them good care I can have 100 hens to carry over next winter. I figure that with 32 hens raising an average of 8 chickens I would have 256 chickens, 156 of which I could market.

My hen house has roosts for 100 hens. In the fall I always pull up all the vegetables not marketed and pile them in the cellar. They keep green and I cut

them up for the chickens during the winter. I clean out the hen house often. I give them warm feed once a day and keep plenty of fresh water before them. I dump all the wood ashes in the pen for a wallow and give the hens baled straw to scratch in.

I have two separate chicken yards and in the summer have one sowed to oats. When the oats are about 2 inches high I turn the chickens on it and spade up and sow the other pen, thus keeping the pens fresh and giving the chickens green feed. I seldom have a sick or droopy chicken and have not lost any.

Topeka, Kan. Mrs. Myrtle Wharton.

Avoid feeding patent preparations, egg producers and tonics. They tend to injure the health of the fowls.



**Best For All General Purposes
For Which Lye Is Used**

Combining greater strength and purity, with superior cleansing properties, Lewis' Lye is unexcelled for all purposes on the farm and in the home.

Lewis' Lye
"The Standard for Over 50 Years"

Cleans Without Scouring—Woodwork, Kitchen and Dairy Utensils, Etc.
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THE only measure of value in tires is *miles*. How many miles you get depends upon your choice of tires. Ajax Tires are guaranteed in writing for 5000 miles. Other standard make tires have an anticipated life of 3500 miles. Thus Ajax Tires are 43% better—the mileage expectancy is 1500 more.

AJAX TIRES
Guaranteed in writing
5000 MILES
"While others are claiming quality we are guaranteeing it."

Will you use Ajax Tires? This is an important saving, worth your while to make. You save from \$4 to \$20 a tire, according to the wheel size you use.

Will you decide to use Ajax Tires? Will you effect this important saving for yourself? Decide now to equip your car with Ajax Tires, and then you will have the best. See the Ajax dealer who is nearby, or, write us for "The Story of Ajax Tires."

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Superior Drills sow all known seeds—none too large; none too small. "The name tells a true story."
You run no risk in buying a SUPERIOR Drill. Strongest Warranty ever placed on a grain drill. The Superior will do your work the way you want it done. The Superior is made in every size and every style. Send for the Superior Catalogue. Read it and then go to your local dealer and insist on seeing the Superior—"The Name Tells a True Story."

Disc Bearings Warranted for Life of Drill. Superior Drills are at home in any field on earth. "The name tells a true story."

THE AMERICAN SEEDING MACHINE CO. INCORPORATED
SPRINGFIELD, OHIO, U. S. A.

There's Money in Turkeys

Large Range Is Required For the Best Results
BY J. L. SIMPSON

I WAS at a country store in Kansas, last fall, when a farmer brought in a ton of turkeys in a hayrack. The price was 13 cents a pound, so the farmer received \$260 for his hayrack load of Thanksgiving dinners.

their food. As a side line for the farmers of the Middle West, however, there is nothing superior to turkey raising.

What One Turkey Grower Did

I raised only one turkey hen in 1913 from two settings of eggs. My husband made me a Christmas present of an 18-pound gobbler and my pair raised 25 young turkeys. I sold 11 gobblers, including the old one, for 13 cents a pound. They averaged 19 pounds each, thus bringing me \$27.17. I killed one gobbler for Christmas, two died and I have 13 hens left. I believe the turkeys ate enough grasshoppers to pay their way, and perhaps more.

Portis, Kan. Mrs. T. N. Garner.

He Likes the Bourbon Reds

Readers of the Farmers Mail and Breeze who wish to increase their income can do so by breeding Bourbon Red turkeys, which I think are the most beautiful and most profitable of all turkeys. The Bourbon turkeys do not wander far, and can be kept if a person has near neighbors. They are very hardy and free from disease and the young are easily raised.

In selecting the breeding stock look to size and vigor. I prefer 2-year-old hens mated with a yearling tom. Do not inbreed. Secure new blood each year.

The Bourbon Reds are great layers, generally beginning to lay in March and continuing until August or September. My hens laid about 75 eggs each in 1914. The first 13 eggs, set in April, produced 13 poults, 10 of which grew to maturity. The weather was very cold and wet the first two weeks after they were hatched, too.

When the young poults hatch I keep them penned a few days, feeding them three times a day, what they will eat up clean of hard boiled eggs, chopped onion tops and enough ground oatmeal added to make it crumble. As soon as they are strong they are turned out on range and fed only at night. In raising turkeys one must watch for sudden showers, or for heavy dews in the morning. Dampness and lice are fatal to turkeys. They must be dry at night and at all times until fully feathered. Hens and the young poults must be kept free from lice.

The Bourbons are ideal for market. Their standard weights are cocks 30 pounds, yearling cocks 25 pounds, young cocks 20 pounds, yearling hen, 18 pounds, young hen, 12 pounds. Owing to their color there are no unsightly pin feathers, and a fattened young tom is delicious eating. One hundred or more Bourbons can be raised on every farm in Kansas and Oklahoma every year and the expense would be small as they will gather most of their living from feed that otherwise would be wasted and the returns are mostly profit. Last winter my turkeys lived on green wheat, with very little grain, and they produced eggs of high fertility all spring.

My turkeys produced more profit in 1914 than any other crops on the farm, considering the original cost and cost of producing. The demand for breeding stock is greater than the supply. Bourbon Reds are money makers and will be for years to come.

Roosevelt, Okla. T. Holmes Mills.

It takes a lot of the hen's energy to warm up ice-cold feed.



not be hatched until warm weather, as the little fellows cannot stand the cold. Turkeys like the natural range of pastures, wheatfields, and meadows, and flourish there. Bugs, worms and grasshoppers form a natural diet for them. The freedom of a large range, similar to that they enjoyed in their wild state, insures a well grown and healthy bunch for the market. When the wheat and oats are harvested, in late June and early July, the turkeys convert the wasted grain in the fields into profit. It is a fact that young turkeys rarely are killed by vermin in Kansas, as are young chickens. Perhaps it is because the mother turkey is an adequate protection against nearly all forms of disaster, while a hen cannot protect her flock against polecats and other raiders of the henroost.

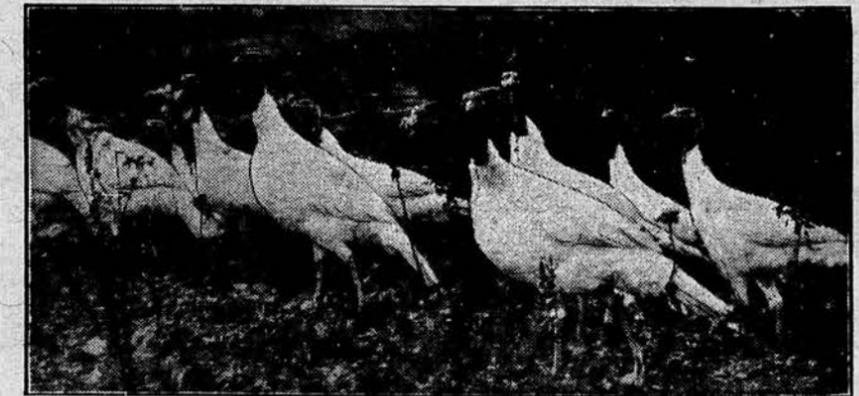
Hatch Them Nature's Way.

It does not pay to hatch turkeys in an incubator, according to my observation. Set the eggs under a turkey hen. If possible set enough eggs to hatch about 50 poults at once, and put these with two or three turkey hens. Their habits are different from those of chickens, and they all will run together until the flock is raised. When the youngsters are a month or two old the flock will make excursions together for a distance of a mile or more. Perhaps they will select a home of their own some distance from the barnyard, and that is all right unless they take up their abode at a neighbor's yard.

I know a woman who buys all her children's clothing, shoes and toys with her "turkey money." She feels that it isn't taking anything from the family hoard, because the turkeys cost her very little to raise.

There is a certain knack in getting the young turkeys through their first two weeks. They must be kept out of soaking rains, and special attention must be paid to their diet. A mixture of the yolks of hard-boiled eggs, mashed fine, and green onion tops cut into small fragments makes an excellent ration. Perhaps there are many other combinations of food as suitable as this, but this is one that I know gives excellent results.

There may not be much money in a farm devoted exclusively to the raising of turkeys, keeping them penned up the year around, and raising a large number on a small space. In this case they cannot rustle a large per cent of



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A Moderate Priced Car of Unusual Qualifications

Dodge Brothers have manufactured the vital parts for more than 500,000 motor cars.

They have manufactured as many as 225,000 sets of motor car parts a year. This means millions of pieces, large and small.

They have established costs on every piece, every part, every operation.

They know to the fraction of a cent, the most and the best it is possible to get out of men, material and machinery.

Naturally, therefore, the element of experiment does not enter into the construction of Dodge Brothers' car.

It is reasonable to suppose, for instance that Dodge Brothers, accustomed to cutting as many as 34,000 gears a day, should know how to produce good gears.

A plant accustomed to heating and forging 300,000 pounds of steel a day should certainly know something of the science of handling steel.

They have brought to bear upon the construction of their car, everything that tends to produce value—extraordinary experience; immense production capacity; complete financial independence.

Unerring Accuracy Characterizes Dodge Brothers' Work

The car is marked by that rigid insistence upon unerring accuracy, which is recognized as the chief characteristic of all Dodge Brothers' work.

Ordinary good practice has not been good enough—in every detail you will find the exceptional.

You will encounter many features which exceed your expectations—never one that falls below them.

Your enthusiasm over one feature has scarcely subsided before you discover that another, and then another, reaches the same high plane.

Not a detail in the car was determined simply by precedent or custom—the one thought was to see how much value Dodge Brothers could give by getting the utmost out of their manufacturing experience and equipment.

You are almost sure to ask yourself how it is possible to incorporate such quality at so moderate a price.

The answer is furnished by the extraordinary experience and equipment enjoyed by Dodge Brothers and to which we have just referred.

Examine The Car Item By Item

It will interest you to scan the specifications, item by item, and see if you

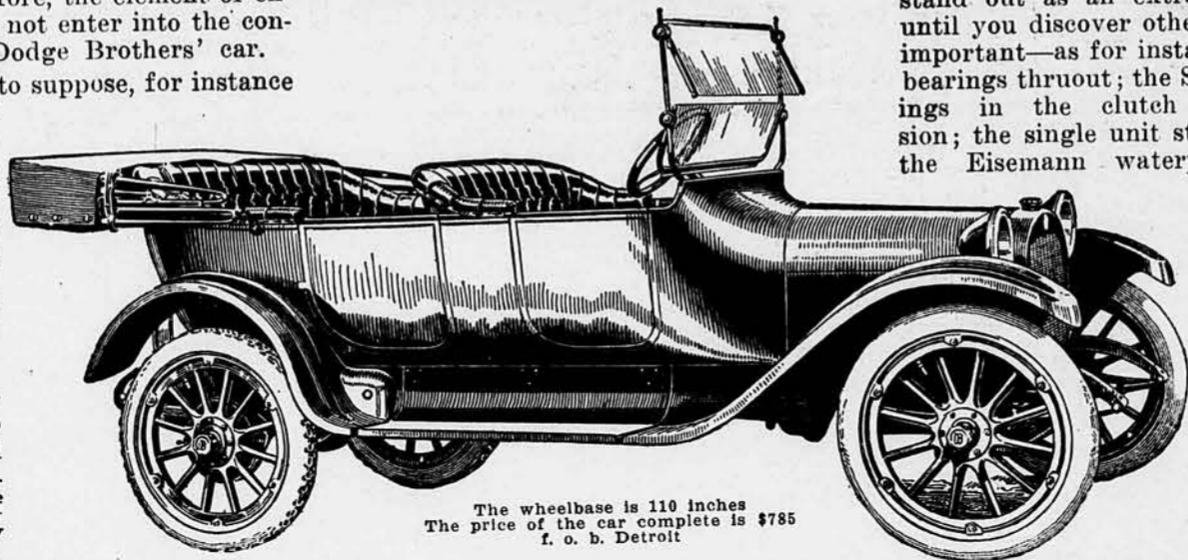
can conceive how the material, the design or the manufacturing practice could be improved.

You will find such vital parts as the springs and the gears made from chrome vanadium steel.

This has several valuable results.

Because of the strength of chrome vanadium steel, the leaves of the springs are thinner than those ordinarily used, and it is possible to use more of them.

These leaves are self-lubricating.



The wheelbase is 110 inches
The price of the car complete is \$785
f. o. b. Detroit

The net result is maximum strength, with maximum resiliency.

Again, this generous use of light, strong, costly steels makes unusually light weight—the shipping weight being approximately 2200 pounds.

And yet you will find that every essential part is stout and strong and of full size.

Unlooked-for Quality Everywhere Evident

Every feature you examine reveals unlooked-for quality.

The leather used in the upholstery is of selected stock—real grain leather.

The tufting is deep and soft; the filling, natural curled hair.

The full floating rear axle seems to stand out as an extraordinary value, until you discover other values equally important—as for instance, the Timken bearings thruout; the S. R. O. ball bearings in the clutch and transmission; the single unit starter-generator; the Eisemann waterproof magneto;

the fact that in direct drive no transmission gears are engaged or in motion; the exclusive use of drop forgings and drawn work instead of castings; the perfect streamline body; the specially designed oval fenders;

the one man type top, etc., etc.

You will find not merely a few refinements, but the highest form of refinement at every point, even to minor details.

An example of this is the beauty and completeness of the black enamel instrument board with its equipment of oil gauge, battery gauge, gasoline pressure gauge and pump, carburetor adjustment, speedometer, dash light and switches—all nickeled.

In Action The Car Is Even More Impressive

Some of the concealed quality might be lost upon you if it were not immediately revealed in the way the car handles itself.

There is no mistaking the ease with which it gets under way—the gliding sensation which bespeaks not merely power in plenty, but beautiful balance and an equitable distribution of weight.

The specifications, in one sense of the word, speak for themselves.

But how good the car is, not even the quality indicated by these specifications can show.

You cannot really know until your foot has pressed the accelerator.

Instantly you will realize that here is delightful responsiveness—an unusual power of picking up—and above all, a steadiness on country roads at all speeds very much out of the ordinary.

The price of Dodge Brothers' car is really the last thing for you to consider.

The important thing is to realize how much they have given you at a moderate price.

General Specifications

UNIT POWER PLANT —Aluminum Cone Clutch—Leather-faced.	STEERING GEAR —Irreversible, of worm, nut and sector type—fitted with 17-inch wheel.
MOTOR —Four-cylinder cast in bloc with removable head. 3 3/4-inch bore by 4 1/2-inch stroke, 30-35 H. P. Water Cooled. Centrifugal Pump.	SPRINGS —All Chrome Vanadium steel, self lubricating.
RADIATOR —Tubular Type.	FENDERS —Exceptionally handsome oval design.
LUBRICATION —Splash and force feed.	RUNNING BOARDS AND FOOT BOARDS —Wood, linoleum covered and aluminum bound.
HIGH-TENSION MAGNETO —Waterproof. Eisemann.	WHEELS —Hickory, demountable rims. 32 by 3 1/2 inches.
GASOLINE SYSTEM —Pressure feed. 15 gallon tank hung on rear.	TIRES —Straight side type—Non-skid rear.
INSTRUMENT BOARD —Carries Jones 60-mile speedometer, driven from transmission, gasoline air pressure pump; gasoline air pressure gauge; oil pressure gauge; magneto switch; current indicator; lighting switch; carburetor adjustment, glove locker and dash lamp.	BODIES —Five-passenger touring and two-passenger roadster. All steel, including body frame. Special enameled finish. Upholstered in genuine grain leather.
DRIVE —Left side; center control.	WHEELBASE —110 inches.
STARTER GENERATOR —Single unit. 12-volt, 40 amp. Battery.	WINDSHIELD —Rain vision, clear vision and ventilating.
TRANSMISSION —Selective sliding gear type—three speeds forward and reverse. Chrome-Vanadium steel gears, heat-treated.	TOP —One-man type, mohair covered; Jiffy curtains and boot.
REAR AXLE —Full-floating. Removable cover plate to give access to differential.	LIGHTS —Electric; two head lights with dimmer, tail lamp and dash light.
TIMKEN BEARINGS —Thruout, including wheels and differential.	EQUIPMENT —Electric horn. License brackets. Robe rail. Foot rail. Tools. Demountable rim mounted on rear.
S. R. O. BALL BEARINGS —In clutch and transmission.	SHIPPING WEIGHT —Approximately 2200 pounds.
	PRICE —Touring car or roadster, \$785 f. o. b. Detroit.



A Locomotive runs on a Track Why not a Tractor?

Study the Caterpillar Track spread out below—an endless railroad that the Caterpillar rolls over and picks up again—with steel plates like ties, and heavy steel rails to run smoothly upon.

Eight times the bearing surface of round wheels—cannot slip, nor mire, nor pack the soil. Works on soft, rough or hilly land.



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Which tells you why it is better than any other fence and where to get it. Land owners, if you want a farm fence that will last, and stay trim and tight the year round, write for these FREE books today.
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JUST ABOUT FARMING

OPPORTUNITY for realizing profit out of poultry never loomed larger in Kansas than it does at the beginning of 1915. Beef is high and going higher. The population of our cities is increasing three times as rapidly as the population of the country. These millions are clamoring for food three times a day, 365 days in the year. And they all like fried chicken and fresh eggs! The average annual income from poultry products is a little more than \$92 for every farm in the country. But the total value of the annual crop of poultry and eggs sold in the United States amounts into the hundreds of millions. In very many cases the size of the flock is still regulated by the needs of the family table. The products which find their way to market under such circumstances are the surplus left after the home needs are supplied.

Poultry Houses

Successful poultry houses are economical, dry and well ventilated. The windows should admit plenty of sunlight, and much of it should be without the use of glass. Such a house should be large enough to accommodate the flock, allowing about 2½ square feet of floor space to the fowl, and should afford ample protection to the flock in bad weather. It is not necessary for a house to be expensive to be efficient. In fact many of the most successful poultry houses are of the cheapest construction. It matters not how cheap a house is so long as the birds are comfortably housed and are free from drafts, but their quarters must be sanitary and well ventilated.

Capons

It will be only a very short time until capons will be found on nearly every farm in the country. The signs of the times point that way and the issue cannot be dodged. Capons are bound to come. A capon gets his growth usually during February, March, and is ready for the market at that time. This is too early in the season for young chickens or broilers and those who have wintered a flock of hens do not care to sell them. There are no grass cattle on the market, and beef, pork and all other meats are usually at the top prices of the year. The capon is at his best at this season and comes in at exactly the proper time to fill a long felt want and to supply the market with the best possible quality of meat.

Shows

The principal benefit derived from a country poultry show is the influence it has for better poultry. Few women can walk down the aisle of a show room, see the beauty of form and feather that good breeding gives, and remain satisfied with a flock of unsightly mongrels. Once purebreds take the place of scrubs on the farm a demand is made for better houses, for a more balanced ration, and for the introduction of new and vigorous blood each year. Then the housewife begins to get orders for eggs for hatching and for cockerels at let us say, \$1 apiece. Soon she decides that her chickens are just a little better than those of Mrs. Jones who always wins in the local show. She enters a pen and has her opinion confirmed. The farm woman is now a full-fledged fancier, and with hundreds of birds to select from she has every advantage of the town-lot breeder. Before long profits from the purebred farm flock are mounting up into the hundreds of dollars where before the neglected and uncared for flock did well to pay the grocery bill.

Fresh Air

The chick's nature demands a large amount of open air conditions. Fresh air must be supplied at all times. The brooder must be constructed to avoid all drafts and yet furnish a constant supply of warm, fresh air. Without fresh air the chick will not be able to keep up the heat of the body, and it will become stupid and chilled. At night

they will pile up and crowd each other and not be able to rest well. A chick which does not get a good night's rest will come from the hovel in the morning with feathers ruffled and a dull, listless appearance, which means poor growth.

Fresh Eggs

A special effort is made to produce fresh eggs at Emporia. The Quality Egg association was started in the Rinker district, near that town, and now there are egg circles all over Lyon county, from the small start made about a year ago. The egg association maintains an office in town, to which its members bring strictly fresh eggs several times a week. Each egg is stamped with the date it was gathered and with the owner's number. If a bad egg should inadvertently get into the quality association's egg cases it is easily traced—and its owner won't do it again. The association not only supplies a thriving local market, but ships many cases of eggs to city consumers, who are willing to pay fancy prices for guaranteed eggs.

Rations

Chicks often become slightly peevish, or stand around in a stupid way. If sections of a sliced onion are scattered in the feed room they will induce a lively scramble and produce the much needed exercise. A few fish worms dropped on a board will have the same result. This exercise is needed to produce good appetites and to stimulate digestion. It also has been found that a feed once or twice a week of wet mash, of the same ingredients as the dry mash, acts as an appetizer and helps to produce a more rapid growth.

Comfort

The care of the young chick, from the time it is hatched until it is sold, is bound up in the one word "comfort." The normal amount of heat, clean quarters, good, fresh air with plenty of room and exercise—these are the essential requirements, and they must be supplied. Good brooding has more to do with healthy chicks and normal growth than good incubation. Many persons can hatch large numbers of chicks, but comparatively few can raise them successfully. The experienced breeder begins long before the hatching season to prepare for the management of his growing stock, by the careful selection of breeders.

Labor and feed will avail little or nothing if the chicks do not inherit a strong, vigorous constitution. This quality is entirely dependent upon the age and condition of the breeding stock. Discouragement and failure are sure to follow where immature pullets, diseased hens, or hens of low vitality are used as breeders. Only strong, vigorous hens which have passed their first year as layers should go into the breeding pens. The eggs from such hens which have been mated to large, healthy cockerels, should be gathered carefully and kept in a temperature of not more than 60 degrees, and 50 will not do any harm. The sooner the eggs are incubated after being laid the better.

Sudan Grass

There is a great deal of interest in Sudan grass in all parts of Kansas. This crop is certain to be of a great deal of value in the western part of the state, and the work of W. E. Watkins, the county agent of Allen county, indicates that it will be of considerable value on the shale formed soils of southeastern Kansas. The price of this seed is far too high this winter for a large planting, but it does not cost much to get enough seed to plant an acre or two, which will give one a good start of the crop for next year.

Independence

Few men boast much about being independent of this or that influence until they can afford it.

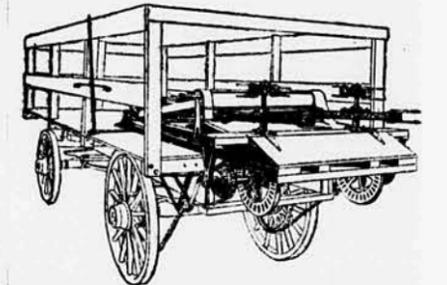
Don't Burn Your Straw!

Make \$2.50 a Ton From It Right On Your Own Farm.

You don't see many burning straw piles any more, because farmers have found that properly used, the straw from a 40-acre field is worth \$100 in gold.

By spreading straw hundreds of farmers in the wheat belt have increased their wheat yields five bushels an acre. Besides this, they have also stopped crop losses due to soil blowing. Farmers realize that the time is past when they can afford to go on year after year raising smaller crops—or to lose them by soil blowing.

Other methods may be all right but the quickest, cheapest and surest way to stop soil blowing is to spread straw—a straw spreader solves this problem. With a straw spreader you can easily cover 20 acres or more a day, and besides protecting your crop from the winds you increase the fertility of your land at the rate of \$2.50 for every ton of straw you spread and insure your crop a good supply of moisture whether the rainfall is up to standard next summer or not.



Professor W. M. Jardine, of the Kansas State Agricultural college, in a recent address, urged the farmers to return every ton of unused straw to the land. Wm. Knop, of Preston, Kan., reports that his straw spreader makes him \$500 a year easily—Curtis M. Brown, Jos. Pfoff, C. H. Peterson and scores of others who have used straw spreaders for several seasons say they are big money makers and that they could not afford to be without them.

The Simplex Straw Spreader can be attached to any header barge or hay frame in a short while and the cost is a mere trifle compared to what it will make you in a single season. Besides being used for a straw spreader it can be used for spreading manure. Many farmers who own both use the straw spreader for spreading manure and let their manure spreader stand idle or sell it because they like the way the "Simplex" spreads manure the best.

The Manson Campbell Company, 857 Traders Building, Kansas City, Missouri, will send any farmer a brand new Simplex Straw Spreader, without the payment of even \$1 down, to be used on a 30 day free trial. If you are satisfied with the spreader you can have a whole year to pay for it. No farmer can make a mistake buying a straw spreader on this plan because it will pay for itself ten times over the first season.

A very interesting book on straw fertilizer and soil blowing has been issued by the Manson Campbell Company. It contains pictures and letters of scores of the best-known farmers who have used straw spreaders for several years. It will be sent free to anyone who writes for it.—Advertisement.

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A LITTLE NONSENSE NOW AND THEN

From the Polkville Clarion

The cook at the Palace Hotel, a most estimable and comely woman, flung a vessel of boiling water out of a side window of that well-known inn yesterday, with the intention of scalding some predatory hogs, and threw the greater portion of the steaming liquid on an innocent bystander, who was sitting in the shade. However, as the gentleman was some sort of foreigner, whose language could not be translated by the woman, no particular harm was done.

Tricked Him

Hiram—Haw! Haw! Haw! I skinned one of them city fellers that put the lightnin'-rods on my house.

Silas—Ye did? How did ye do it?
Hiram—Why, when I made out the check to pay him, I just signed my name without specifying the amount. I'll bet there will be somebody pretty mad when he goes to cash it.—Lippincott's.

Ford?

Irritable Old Man—Say, does this car always make this racket?
Chauffeur—No, sir; only when it's running. —Buffalo Express.

Hopper Recognized

"Even animals show their feelings," remarked De Wolf Hopper, the comedian, to a friend the other day. "Only

yesterday an animal showed me gratitude. I was wandering along a stream in the country when I met a cow in great distress. Her calf was drowning. I plunged in the water and rescued the calf and the grateful cow licked my hand."

"That wasn't gratitude," replied the friend. "The cow thought she had twins."—Troy Times.

Tactful

Edward was the proud owner of his first pair of pants. On the occasion of his first wearing them a neighbor happened in and was chatting with his father, but, much to Edward's disgust, the all-important subject was not mentioned. The little fellow stood it as long as he could, then, in a very indifferent manner, remarked, "There are three pairs of pants in this room." —Harper's Magazine.

Prima Facie Evidence

"Did you hear about the terrible fright Bobby got on the day of his wedding?"
"Yes; I was at the church and saw her." —Life.

A Novice

"Have you any experience with children?"
"No, ma'am, I always worked in the best families." —Philadelphia Public Ledger.



WITH the rapid extinction of the game birds, both in America and in England, there is an increasing demand for the guinea fowl. The result is that it is paying poultrymen to raise the birds as it never has done before.

Those who like guinea meat are willing to pay a fancy price. Aside from a propensity of the birds to skip off and away, there is little difficulty in their culture. The guinea-fowl comes from the tropical parts of Africa. It is somewhat larger than the common barnyard guinea. It is a bluish-gray and covered with small, round, white spots. It is a restless, noisy bird; frequently uttering a harsh, ringing cry of ca-mac, ca-mac. It is said that this cry will frighten crows from the vicinity where these birds are kept. Their flesh is excellent and the eggs, which they produce abundantly, are much valued. In a wild state, they live in flocks, in woods, preferring marshy places. They feed on insects, worms and seeds. They roost on the trees. The nest is made on the ground and contains as many as 20 eggs. In Jamaica the birds do much damage to the crops, and are destroyed by various means. One is to get them tipsy by strewing corn, steeped in rum, and mixed with the intoxicating juice of the cassava, upon the ground. This the birds devour and are soon in a helpless state of inebriety.

Money in Guinea Raising

Guineas are taking the place of game with the hotel trade. The stringent game laws make it impossible to supply the demand for game meat and a well fattened guinea makes the most acceptable substitute. Guineas are prepared for market the same as any other fowl but they fatten more readily than any other variety. The birds should not be made over-fat before marketing as the flesh will tear easily. In raising guineas it is well to find a private market if possible. The high class hotels and cafes are eager to buy them and will pay a premium over other fowls if delivered in prime condition.

Although the guinea has a purplish colored flesh it is highly relished by every lover of game meat and the color is not objectionable.

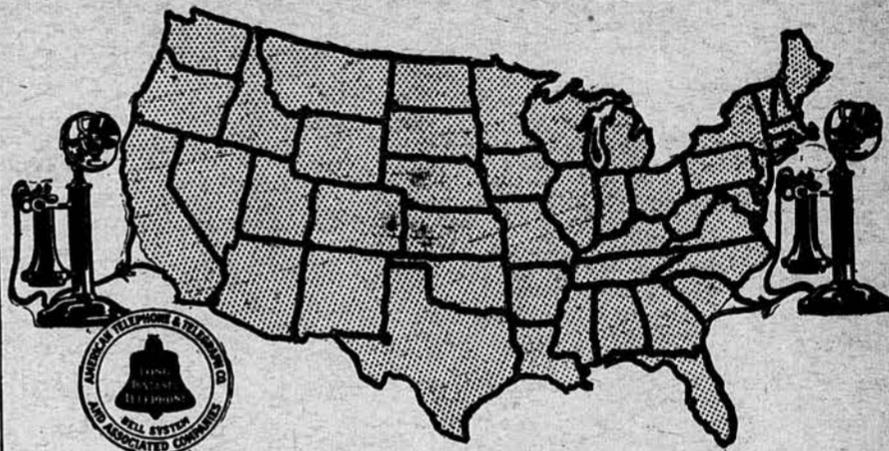
The guinea is a very popular table fowl in Europe and is grown in great numbers. We raise these fowls and have had several orders for broilers from the eastern markets, which shows there is an increasing demand. Guineas are dressed for market just the same as turkeys and as the carcass is short they pack nicely in barrels or boxes. New York buyers purchase many guineas in the fall and ship to the European markets. There is no open market for guineas in the West probably due to the fact that there is still partly enough game to supply the demand. If a private market cannot be obtained the man who will grow a large flock can dispose of them profitably by shipping East.

Guinea eggs are in demand in the South and East. Southern cooks always prefer them for cake making and these eggs are sure to come into popular favor in the West. Guinea eggs are highly flavored and absolutely free from any taint caused by eating filthy food. Guineas are the most cleanly of all fowls; they will not eat unclean food, therefore both eggs and flesh are high-flavored and wholesome.

Market your broiler guineas early in the summer as they will bring the best price then. The old birds should be fattened and sold in the fall. Guineas can be shipped alive but should have roomy coops, not much feed and plenty of water. Guineas are a tropical fowl and cannot stand severely cold weather. Ship before winter sets in and the birds will be in better condition and not chill in shipping.

With proper care and management you can grow guineas in large numbers and market them at great profit. These birds are largely self-supporting and if on range will require but little feed till nearly market time. We feed our birds corn and wheat for about 10 days before marketing. This puts them in fine condition and gives the meat a much higher flavor. —J. C. Clipp.

The Telephone Unites the Nation



AT this time, our country looms large on the world horizon as an example of the popular faith in the underlying principles of the republic.

We are truly one people in all that the forefathers, in their most exalted moments, meant by that phrase.

In making us a homogeneous people, the railroad, the telegraph and the telephone have been important factors. They have facilitated communication and intervisiting, bringing us closer together, giving us a better understanding and promoting more intimate relations.

The telephone has played its part as the situation has required. That it should have been planned for its present usefulness is as wonderful as

that the vision of the forefathers should have beheld the nation as it is today.

At first, the telephone was the voice of the community. As the population increased and its interests grew more varied, the larger task of the telephone was to connect the communities and keep all the people in touch, regardless of local conditions or distance.

The need that the service should be universal was just as great as that there should be a common language. This need defined the duty of the Bell System.

Inspired by this need and repeatedly aided by new inventions and improvements, the Bell System has become the welder of the nation. It has made the continent a community.

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You might as well make up your mind right now to plant cleaned and graded seed grain or pay a fearful penalty in loss of crops at harvest time. In this latest Book of mine I prove this fact so conclusively that you'll never plant another bushel of ordinary seed. My Book also explains the quickest and cheapest way to clean and grade any grain or grass seed—how to remove wild oats, chess, cockle and wild buck-wheat from Wheat or Rye; how to grade Wheat or Rye; how to remove from Oats, mustard, kale, wild peas, quack grass, cockle, straw joints, thistle buds; how to separate timothy, wheat and vetch from Oats; how to grade out twin oats, pin oats, hull oats; how to get perfect oats for drill. Barley—Brewers and seed grade free of Wild Oats and Mustard or any other weed. Beans and Peas—How to clean, grade and remove splits and defectives from 18 varieties, including cow peas. Corn—How to remove cobs, chaff, silks, broken grains, shoe pegs, tips, butts and uneven kernels; how to get flat, even grains for 98% perfect drop. Clover—How to remove buckhorn and 62 other weeds without waste. Timothy—How to remove plantain, pepper grass and 35 other weeds. Saves volunteer timothy from oats and wheat. Alfalfa and Flax—How to remove fodder and fox-tail; heads, stems, fibres, wild oats, mustard, barn-yard grass, false flax broken wheat; shrunken, frozen or droughted seed.

This is a large and handsome Book profusely illustrated in colors—8 x 11 inches—fully protected by U. S. Copyright—a veritable cyclopaedia of practical suggestions on Seed matters. Easily worth \$100 to any man who farms—yours at the cost of a mere postal.

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Planet Jr. Cultivator

This No. 76 gives bigger, better results than any other one-row cultivator ever invented. It is a combination of the best of the time-tested principles of earlier cultivators into one simple, strongly constructed, easily handled machine that has no equal anywhere.

It cultivates, plows, and hills corn, potatoes, or similar crops 28 to 48 inches apart. No wood used except for break pins.

Built for thorough work and real, lasting service. Its superior construction of finest materials, accurately fitting parts, spring lifting levers, and variety of cultivating attachments make it yield big dividends year after year in time and labor saved and increased production.

Andrew Gleim, Wheelersburg, Ohio, writes: "I think the No. 76 Planet Jr is the finest cultivator on the market today. Especially for potatoes this cultivator is worth a half-dozen other makes".

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Salt Cured Hides, 18c (flat). Horse Hides, \$4.00 to \$5.00.

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St. Joe, Mo. Wichita, Kan. Joplin, Mo. Grand Island, Neb.

When Cooked Feeds Are Right

CHARLES DILLON

Various plans have been devised to make sows take exercise. Driving them is an expensive and doubtful practice. The excitement and worry often do more harm than good. If they are fed and watered away from the beds they will be forced to do considerable walking. Running them with cows or stock cattle during the early part of the gestation period also is a good practice. If some of the grain fed is scattered in straw in a clean place it will keep the sows busy and on their feet several hours every day.

It is a good plan to give the sow a drink of warm water and warm the feed every morning during cold weather. If this is done she will not be so likely to want to go back to the bed as soon as she finishes eating as she would be if she had to eat cold feed and drink ice water.

In "The Hog Book," H. C. Dawson, a breeder of long experience, says water should be heated to 70 or 80 degrees in the winter in a tank heater. "Cooked foods," Mr. Dawson says, "may produce gains at certain periods on fattening hogs. It is advisable to feed cooked things to stunted or unthrifty fall pigs during the winter. The steaming or warming of slops, alfalfa, oats, potatoes and roots is beneficial when fed in connection with grains to the breeding herd and to fall pigs during extremely cold weather. Cooked food is advisable also for sick hogs."

William Dietrich of the animal husbandry department in the Illinois Agricultural Experiment station says in his book "Swine":

"Many times cooked feed can be mixed more thoroughly into slop with other feeds, hence will be better, not because it is cooked, but because more uniform slop is obtained in which the protein is more evenly distributed. For instance, if ground corn is used raw to be mixed into slop with various other constituents, the corn, if it is not ground into a fine meal, will soon settle to the bottom, and the nitrogenous feeds may be distributed through the other part of the ration. If great care is not taken in feeding such slop, some of the pigs will get too much protein and others too much carbohydrate, which will have detrimental results. By cooking the ground corn the particles will more nearly float and the slop as a whole will have a much more uniform consistency.

"Cooking also may apply to small and hard seeds the same as soaking. Furthermore, cooked feed has the advantage that it does not sour so readily and does not take as long for the grains or particles of feed to become thoroughly softened.

"Another advantage in cooking which is especially true in the case of practical feeders throughout the corn belt is in furnishing greater variety of feeds as well as supplying more protein in the ration. Instructions that usually go with feed cookers, as they are sold by

agents traveling through the country, are that when corn is put into the cooker there should be some other grains mixed with it such as barley, oats, or rye, or any other feed that is available. This serves a double purpose: First, the small grains usually contain more protein than corn and thus will add protein to the ration, making it a more nearly balanced ration, which will produce better results than when corn is fed alone. Second, the greater the number of feeds, the better will be the ration on account of variety because the greater will be the possibility of furnishing the pig with the various nutrients, especially the mineral substances that the system demands.

"Perhaps the greatest advantage to be gained from cooking feed is in the addition of water to the ration. It has long been known that cooked feeds are especially advantageous during the winter season. As determined by the writer, when pigs are fed dry feeds during this time of the year, and given free access to water, they will not drink enough for the proper working of the internal mechanism, hence will not make as large or as economical gains as is possible. By cooking the feed, the water is driven into the grains or particles of grain, as well as other dry feeds that may be used. This also usually is fed in connection with water in a trough. Thus if a pig is fed this cooked feed he is compelled to take more nearly the right quantity of water; consequently will produce better results. Good results are also possible if the proper quantity of water is fed in connection with dry feeds. Furthermore, cooking may have an advantage in the case of some feeds by taking water out. This is especially true of potatoes, mangelwurzel, and turnips. Adding meal to such a ration improves it still further. Feeds like these which contain from 85 to 90 per cent of water, carry with them more water than the ordinary pig can use to the best advantage. If these are cooked, and part of this water driven out, the ration will be more nearly balanced."

A New Poultry Book

Productive Poultry Husbandry, by Harry R. Lewis, has recently been issued by the J. B. Lippincott company of Philadelphia. This is a remarkably complete book on poultry raising. It consists of 536 pages and 217 illustrations. A special effort has been made to make the book complete from a scientific standpoint, and at the same time to produce a book that all farmers or men who keep chickens will be interested in reading. It should be in the library of every farmer. The price is \$2 postpaid.

In the cold parts of the country, every window should have a tight board shutter to close over the window on cold nights.

A hawk may get the rooster after breakfast, but before breakfast the rooster always takes a crow.

A Hawk That Worked as a Decoy

PERHAPS you have heard of the famous spot in Virginia known as the "Hawks' Nest." It is a large overhanging ledge of rocks that derives its name from the fact that it was long the nesting place of many hawks.



There was a similar haunt of these birds in the Missouri River bluffs, below Atchison, Kan. Farmers and poultry raisers in that vicinity had long been greatly annoyed by the continued attacks of these hawks upon the flocks of poultry. It was only recently that the community has had relief from this pest and it came in a peculiar manner. R. E. King, a young farmer who had been a heavy loser at the hands, or rather the talons, of these feathered thieves, shot and crippled one of them one day last summer. He had owned a crippled wild goose that he used with success as a decoy in hunting wild geese on the Missouri River. He decided to try the hawk in the same way.

spot a short distance from his barnyard with its feet securely tied to a stake. He concealed himself and awaited results. Presently another hawk swooped down from the wooded bluffs nearby, and fluttered around the captive in an excited manner. As soon as there was an opportunity to shoot without danger to the captive bird, King killed the decoy hawk.

The captive hawk lived until recently, and became quite tame. With its aid Mr. King succeeded in killing nearly a dozen hawks, and created such consternation among the birds that the few that were not killed left that part of the country. The Missouri River hawks' nest that had menaced the poultry yards of that locality for so long, was completely broken up. The picture of the decoy hawk shown here is from a photograph taken by Mr. King a short time before the bird's death, which was caused by some disease resembling cholera.

George J. Remsburg.

King placed the hawk in a conspicuous

X-Ray's Big Success Due to Moist Even Heat Carried to Every Corner by the **X-Ray Radiator**

Imitators Dare Not Run Tubes to Corners

X-Ray Vapor Generator

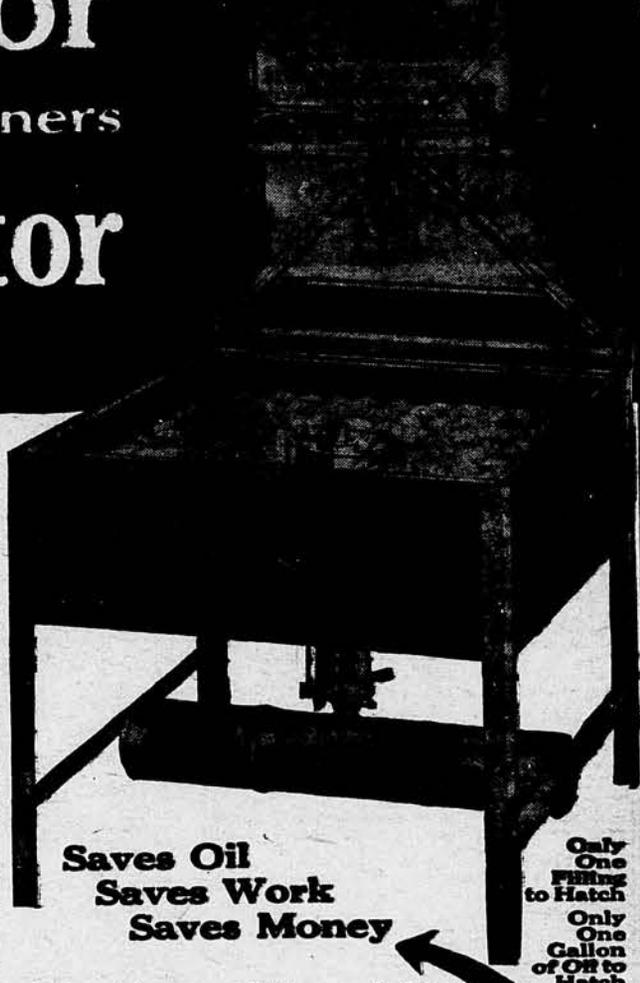
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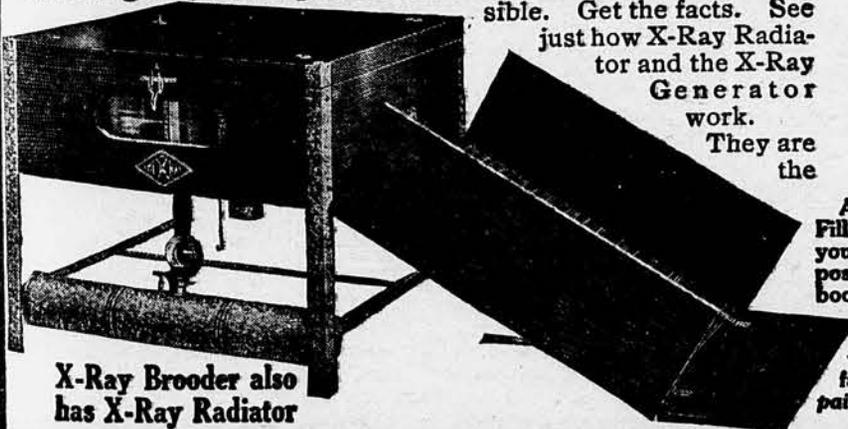
With the X-Ray's Central Heating Plant underneath and its moist heat—just like the mother hen's—carried to the farthest corners, we have the ideal hatching conditions. This accounts for the X-Ray's famous high hatching records. You take no chances on the X-Ray—you cannot lose.

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This picture, recently taken, shows her condition and appearance at this time. Write Mrs. Taylor. In treatment of this case plaster paris was not used. The



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to each town to ride and show a new 1915 model "HEAD CYCLE" bicycle. Write for our liberal terms or a sample to introduce. DELIVERED FREE on approval and 25 days' return. Send for big free catalog and particulars and morning after over made on a bicycle. You will be astonished at our low prices and reasonable terms. FACTORY CLEARING SALE - a limited number of all models of various makes, \$7 to \$12. A few good second-hand models, taken in trade at our Chicago office, \$5 to \$8. If you want a bargain write at once. Write, name, street, address, city, state and we will send you our catalog and price list. HEAD CYCLE CO., DEPT. N177 CHICAGO

Letters From Readers

Questions, Answers and Chatty Stories From Men Who Have Accomplished Something

I HAD a small piece of ground that had been covered with wild plum bushes which had been cut off at the top of the ground. This ground could not be plowed, therefore, and wishing to plant it to potatoes, I decided to try mulching. I laid the seed potatoes on top of the ground and covered them rather deeply with hay and straw. I got no potatoes so I decided that in order to get a crop it would be necessary to cover the seed with at least a little soil and not be too liberal with the mulching. Another mistake I probably made was in letting the seed potatoes be too long exposed to rather a hot sunshine before covering. But the ground is in good condition for plowing next season, as the plum stumps are all rotted out, and I will try it again.

Another experiment I tried was planting cowpeas in the hope that they might be a profitable dry season crop. Although they were planted in good season and given fairly good care, they failed to even bloom, so I am at a loss to know how to propagate the seed. Can anyone tell what the trouble was?

My experience with feterita has been that it is a productive crop, maturing very early and thus missing the hotter drier season, but the chinch bugs work on it where it grows near wheat or other crops nurturing these pests. In threshing a small crop for some reason the seed was so badly cracked and broken that for planting it was almost necessary to screen out the broken kernels. My seed was very dry when threshed which may have had something to do with the cracking. It seems to be eagerly sought after by stock and probably the best way to feed it is in the fodder. I think it is a very good crop to raise in limited quantities to fall back on in case of failure of other grain crops. If it grows where turkeys can feed on it it would probably be the means of keeping them at home and promoting rapid growth.

W. H. Plumly.

R. 2, Aurora, Kan.

Trees For Western Kansas

What varieties of forest trees and shrubbery will make the best growth in west central Kansas? A. H. WAIT, Lincoln, Kan.

These are good trees to plant under your conditions:

Broad leaved species: Hackberry, honey locust, white elm, Kentucky coffee tree, Russian wild olive, osage orange. Evergreens for windbreaks, screens and ornamental plantings: Red cedar, Austrian pine, Scotch pine, African tamarix. Shrubs: Siberian pea tree, barberry, lilac, flowering currant, spiraea vanhoutti, matrimony vine, lycium vulgare.

These species are all perfectly hardy, and should make a very satisfactory growth when properly cared for.

C. A. Scott.

Kansas State Agricultural College.

Shade Trees For Hutchinson

Please send me any information you can get on Platanus orientalis. We are looking for a shade tree that will satisfy the requirements of this section of Kansas. The death rate of our shade trees has been high in the last few years, and we should like to find some tree that we can depend on. Hutchinson, Kan. E. L. MEYER.

There is very little information that I can give you concerning the oriental sycamore (Platanus orientalis). I have not seen a single specimen of this tree in the state, excepting some that have been very recently planted. Its reputation is that it is a very hardy tree. However, I doubt if it is as hardy as our native sycamore or in any way more desirable as a shade tree.

I am well aware of the enormous loss of shade trees throughout the state during the past two or three years, due to the combined effects of drouth and insect pests. I am glad to help in the selection of trees that will in the future withstand these conditions. The following is a list of trees that I would advise planting in the vicinity of Hutchinson, named in the order in which I rank them:

For street and shade trees: Hackberry, thornless honey locust, white

elm, American sycamore, Kentucky coffee tree, Russian mulberry (non-fruiting specimens only), Russian wild olive, and osage orange. Evergreens for windbreaks, screens and ornamental plantings: Red cedar, Austrian pine, and Chinese arbor vitae.

It may be that the American sycamore should rank closer to the head of the list. I have seen specimens of the sycamore as far west as Larned that are making a good growth, and I believe that it is a good tree to plant as far as the one hundredth meridian, especially when planted along a creek or river valley. I also believe that the burr oak and possibly the black and red oaks are much more valuable trees for street and yard planting than we have heretofore considered them. It is true that they make a rather slow growth, but, on the other hand, they are long lived, entirely drouth resistant, and practically free from injurious insect attacks. C. A. Scott, Kansas State Agricultural College.

African Kafir Did Well

African kafir did fairly well for me this year. I obtained a bushel of the seed from a grower in Osage county last year, which was produced from seed imported from Africa the year before. It is a pink-hulled variety with seed somewhat smaller than our native black-hulled kind. I confess I was somewhat disappointed with the appearance of the seed, but its germinating qualities were all right.

I planted the bushel of the seed on 8 1/2 acres, and you may be sure that I got a stand. I planted the seed on May 14 and 15, which was too early, as the seed was ripe very early. It ripens about two weeks before the native varieties, and the plants grew taller and more uneven. The yield was 30 bushels an acre and there was a heavy crop of forage; it required 3 1/2 pounds of twine to the acre. We had no rain except two light showers from July 5 until August 21. The crop was planted with a lister on ordinary upland. F. H. Anderson.

Alta Vista, Kan.

Keep the Hen House Clean

Have the poultry house 50 by 28 feet built facing the south. There will be plenty of space for the scratch room for the hens in one end of the house. It is well to have a window about every 4 feet in the south. On the sides of the house use the best roofing paper to keep out all the wind.

Success depends a great deal upon cleanliness. It takes only a few minutes in the morning to clean the house, lock after every sick fowl and kill them if necessary. Keep the drinking water pure, and clean the pans every morning. Clean the dropping boards and sprinkle lime on them. This will prevent lice, and keep foul odors out of the house.

When a chicken has lice it will become droopy and often put its head under its wing. Put ashes where the chickens can dust themselves often. It is also an excellent idea to put ashes in the nests.

Have a few cards printed and leave them at places of business, hotels and restaurants where chickens or eggs are needed, and you soon will have all the customers you can supply. Buy a good breed of birds and you can sell them. It pays to advertise.

Keep the scratching shed clean. Clean it out about twice a week and put in new wheat or oat straw for the chickens. Put corn, or whatever grain you wish, in the straw and watch the chickens work for it. A bucket sprayer is fine to clean the roosts. Lime, salt and carbolic acid, equal parts, makes a satisfactory spray. Keep grit where the chickens can get it all the time.

When the chicks are small make a small pen for them so they can exercise in the sun and you will have no sick chicks. Put some sand where they can get it, and feed ground feed. Do not let them get chilled.

Lloyd Kelley.

R. 2, Council Grove, Kan.

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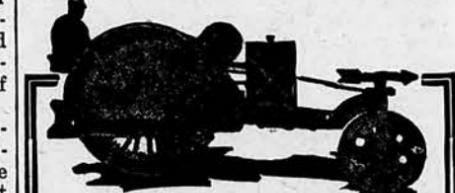
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this winter. This dandy \$395 BULL tractor will be shipped to the winner early in spring—just in time for spring plowing, and I will pay the freight. Every farmer should have one. You can earn this money-and-labor-saver very easily during spare time this winter. It is adapted for farms of 30 acres and up. Once the guide wheel enters the furrows a 16-year old girl can do all the plowing.

What this Wonderful Machine Does. Delivers 12 h. p. at the belt; 5 h. p. at the draw bar, and is designed to do the daily work of 3 horses. Never gets tired. Travels faster than horses, and costs only when it works. Pulls plows, seeders, harvesters, mowers, drills, discs, grinds feed, saws wood, and does any stationary belt work. It costs nothing to learn about my offer, nor is it necessary to invest even one penny. Just drop me a line and I will tell you how you can earn this engine.

Write Today for Information. C. F. ALDRICH, Mgr. 98 E. 4th St., St. Paul, Minn. Without obligating me in any way, tell me how I can earn the \$395 Bull Tractor this winter. Name _____ Postoffice _____ State _____ R.F.D. _____

Prices For Milk Are Higher

The Table Shown Here Gives 1913 Milk Values For All Sections of the United States

THE average price paid to farmers for milk in 1913 was 3.849 cents a quart, according to statistics recently compiled by the Dairy Division and the Bureau of Crop Estimates in the United States Department of Agriculture. This is appreciably higher than in 1912, when the average for the entire country was 3.565 cents a quart. As the table shows, prices varied greatly, according to the season of the year, but at no time were they less than in 1912.

In order to obtain these averages, the investigators reduced all prices to a common unit, the net price at the farmer's shipping station. It was impossible to ascertain the total quantity of milk supplied in the various sections, or at different seasons, and for this reason the price a quart for each shipment was alone considered. The averages, therefore, are not absolutely exact, for larger quantities of milk are sold at some seasons than at others.

Commercially milk still is bought in a number of ways, 100 pounds being the unit sometimes, while other prices are

the cow when you are ready to feed it. The milk should be fed while it is still warm. This frequent milking is good for the cow, too. It relieves the udder without likelihood of inducing milk fever, and is a better practice than milking clean, at longer intervals.

After the calf is a week old it need be fed only four times daily, and a few days later it need be fed only three times a day. It should be fed whole, or unskimmed milk for the first two weeks. When past this age its milk ration can be increased to a gallon of milk at each feed, twice daily. It seldom is advisable to feed much more than this amount of whole or unskimmed milk.

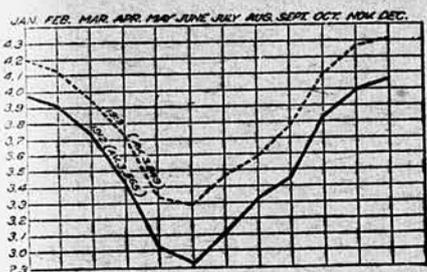
When the calf is three weeks old the whole milk can be replaced gradually with skimmilk. Do not change abruptly, but begin by giving 1/2 pint less of whole milk and adding 1/2 pint of skimmilk until the feed is all skimmilk. Marshall County. F. V. C.

Milk of Different Cattle

Among the various associations of breeders of milk cattle there is a lively competition for recognition of the superiority of the type of animal in which each happens to be primarily interested in either a commercial or a scientific way. Many who read the announcements of the different groups of breeders have asked themselves whether the reputed claims of unlike composition for the milk of the various breeds of cattle concerned really merit serious recognition from a scientific or practical point of view.

It is widely recognized that types of dairy cattle which give a large amount of milk commonly furnish a product less rich in solids and particularly in the cream components. In this respect the milk from cows of the Jersey and Guernsey types departs noticeably from the Holstein variety.

During the last few years the laboratory of food and drug inspection of the Massachusetts state board of health has made extensive analyses of hundreds of samples of milk from Jersey, Guernsey, Ayrshire, Dutch Belt and Holstein cows,



Average monthly prices for the entire United States in cents a quart at farmers' shipping stations. The dotted line indicates prices in 1912, the solid line in 1913.

quoted on butterfat. Some dealers offer premiums for milk richer than the ordinary, or for milk of a higher sanitary grade.

Milk, it will be noted, was highest in December, when the average price for the entire country was 4.3 cents a quart and lowest in June, when it fell to 3.3 cents. The table shows the average prices in the various geographical divisions of the country as defined in the census.

Average Price of a Quart of Milk in 1913.

Section.	Jan.	Mar.	May.	Aug.	Oct.	Dec.	Average for year.
New England	4.763	4.673	4.068	4.375	4.962	5.019	4.571
West South-Central	4.562	4.562	4.062	4.062	4.562	4.562	4.312
Pacific	4.495	4.151	3.930	4.200	4.441	4.578	4.270
East South-Central	4.457	4.342	4.061	4.061	4.457	4.457	4.259
South Atlantic	4.532	4.356	3.428	3.457	4.361	4.543	4.031
Mountain	3.913	3.663	3.381	3.324	3.935	4.111	3.642
Middle Atlantic	4.081	3.767	3.065	3.335	3.910	4.187	3.634
West North-Central	3.883	3.648	2.978	3.262	3.684	3.942	3.508
East North-Central	3.843	3.656	2.964	3.330	3.686	3.975	3.508
Average	4.203	3.971	3.342	3.591	4.097	4.308	3.840

From this table it appears that milk was at its highest in New England when the average price for December was 5.019 cents. The average for the year was also highest in New England, 4.571. It was lowest in the East North-Central states, the year's average being only 3.503 cents, and the June average falling to 2.866 cents. The greatest range in prices was found in the Middle Atlantic states, where the December price was 4.187 cents and the June price 2.912, a difference of more than a cent and a quarter.

These figures were compiled from figures supplied by milk dealers throughout the country.

Handling the Young Calf

The best way to teach a calf to drink is to have it tied in a corner with its nose outward. Have an assistant hold a pail containing half a gallon or so of warm milk. Place two fingers wet with milk into its mouth. In a few minutes it will suck the fingers, and will keep hold of them as they are lowered gradually into the pail. After one or two lessons of this kind it usually will drink alone. Be patient with it. Remember that it is contrary to its natural instinct to drink in that way.

A calf should be fed five times a day for the first five or six days, but it should not be given more than 2 quarts at any one time. Milk this amount from

as well as from cross-bred or so-called grade cows. The valuable data thus obtained under controlled conditions make it clear that variations in the composition of milk are due primarily to the breed, and to a less extent to the season of the year and the time since calving. The least variable milk constituents are the lactose and the mineral ingredients, both of which are therefore of value in detecting added water. Incidentally the fact is borne out, contrary to popular opinion, that milk obtained in summer under current conditions is somewhat inferior in quality to that obtained in winter.

Northward Advance of Wheat

Since the introduction of the hardy varieties of wheat from southeastern Europe there has been a decided northward movement of the winter-wheat area. This has been going on rapidly in recent years. The reasons therefore are the generally larger yields of winter wheat, due to its earlier maturity, thus enabling it to escape hail, hot winds, disease, etc.; to its greater drought resistance; and to the better division of labor which it allows through fall seeding and earlier harvesting. The average yields in Iowa for five years show an advantage of 4.8 bushels in favor of winter wheat over spring wheat. The results of a four-year test in Minnesota show a similar advantage of 8.5 bushels,

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Lorimer of the Northwest

BY HAROLD BINDLOSS

Author of "Ranching for Sylvia," "By Right of Purchase," "Winston of the Prairie," "Alton of Somasco," and Other Stories.

(Copyright Frederick A. Stokes Co., N. Y.)
THE PLOT OF THE STORY.

We've been several weeks telling of the hard work and the adventures of two young Englishmen, Ralph Lorimer, leading man in this company, and Harry Lorraine, his good natured partner. After crop disappointments enough to make many persons quit the business these two young farmers take a contract to build the roadbed for the railroad then building through the Northwest. Lorimer is in love with Grace Carrington whose father, Colonel Carrington, is opposed to him as a son-in-law. Lorimer finally returns to his farm with his sister as housekeeper while Lorraine continues the railroad work.



HE snow came down in earnest before we had made two more leagues, and, steering partly by the wind and partly by instinct of direction, I held on half-choked and blinded, more and more slowly, until, when at last the case looked hopeless, Heysham shouted, for a telegraph post loomed up.

"You have reached the railroad, anyway," he said. "The only question is—how far from the station are we?"

We drew rein for a few moments beside the graded track, and shook the snow from our wrappings as we debated the simple question whose issues were momentous. The horses were worn out, we were nearly frozen, and the white flakes whirled more and more thickly about us.

"We can only go and see, and the track at least will guide us," I said at last. "I don't think the station can be many miles away."

The rest of the journey left but a blurred memory of an almost sightless struggle through a filmy haze, in which we occasionally lost each other and touch with the guiding poles, until at last caked thick with wind-packed snow, we caught sight of a pale glimmer, and fell solidly, as it were, out of the saddle in the shelter of the station. Here, however, a crushing disappointment awaited us.

"Stopping train passed two hours ago," said the station agent. "Won't be another until the Montreal express comes through. Heard the stock cars passed Brandon by daylight—they'll be in Winnipeg now."

"You have one move left," said Heysham. "Hire a special! Comes high, of course, but it's cheaper than losing your cattle. They can't sell before tomorrow; and you won't be hard on a plundered man, agent? That locomotive ought to take us through."

"Can't cut schedule prices," was the answer, after I had explained. "I haven't a single car, but I was saving Number Forty to haul in wheat, and if she doesn't strike a snow-block, and old Robertson's in the humor, she'll land you in Winnipeg before daylight tomorrow. It's cutting things fine, however."

We put our horses in the hotel stable, managed as a special favor to obtain some food in a basket, and then climbed into the locomotive cab, where the Ontario mechanic stood rubbing his hands with waste while a grimy subordinate flung fuel into the roaring furnace.

"She's the best machine for a hard run on this road," he said as he clutched the lever with professional pride. "All you have to do is sit tight, and I will bring you in on time."

Then, panting heavily, Number Forty rolled out from the station on to the lonely waste, and when, as we jolted over the switches, the lights died out behind, Robertson became intent as he shoved the lever home. For a moment the big drivers whirred on the snow-greased line, then the wheel-treads bit the metals, and the plates commenced to tremble beneath our feet. Staring out through a quivering glass I could see a white haze rising and falling ahead as the wild gusts came down, driving an icy coldness through the vibrating cab, while, when these passed, there was only the glare of the huge head-lamp, flickering like a comet down the straight-ruled track.

Robertson nodded to his fireman, for Heysham had told him the story, and presently the vibration grew yet sharper. The gaunt telegraph-posts no longer swept past in endless files, but reeled toward us under the fan-shaped blaze huddled altogether in a fantastic dance, while willow bluffs leaped up out of the whiteness and vanished again as by magic into the dim prairie. The snow from above had ceased temporarily. Then a screaming blast struck the engine, wrapping it about in a dense white cloud that glittered before the lamp, the glasses rattled, and

an impalpable powder, that seemed to burn the skin, drove in through every opening. Robertson glanced at his pressure-gauge.

"She's doing her best," he said, "and she'll need to. I guess we'll find drifts in the hollows, and the snow will come down again presently. It's only coming up now."

I ought to have known better, but, although a British custom is more honored in the breach than the observance in Western Canada, I had met men who could pocket their pride, and, after fumbling in my wallet, I held out a slip of paper, saying, "She's doing splendidly. I wish you would buy Mrs. Robertson something with this."

"No, sir!" was the prompt answer. "You can keep your bill. If that fraud gets in ahead of you you probably'll want it. I get good pay, and I earn it, and you're not big enough to give presents to me."

A new arrival might have been astonished. I only felt that I had deserved the rebuke, and was thankful that Aline had slipped the flask and some of Martin Lorimer's cigars into my pocket, while Robertson smiled broadly as in defiance of his orders he emptied the silver cup. It was a gift from my cousin Alice.

"I apologize. Should have remembered it," I said bluntly.

Then we were racing through stiller air again, with the driving cloud behind; for each of the curious rushes of wind that precedes a prairie storm keeps to a definite path of its own. Several times, with a roar of wheels flung back to us, we swept through a sleeping town, where thin frame houses went rocking past until the tall elevators shut them in, and again there was only a dim stretch of prairie that rolled up faster and faster under the front trailing-wheels.

At last, when the lights of Brandon glimmered ahead, Heysham fell over the fireman as the locomotive jumped to the checking of the brake, and a colored flicker blinked beside the track. The glare of another head-lamp beat upon us as we rolled through the station, while amid the clash of shocking wheat-cars that swept past I caught the warning:

"Look out for the snow-block east of Willow Lake! Freight-train on the single track; wires not working well!"

"I guess we'll take our chances," said Robertson; and Number Forty panted louder, hurling red sparks aloft as he rushed her at an up-grade. Still, his brows contracted when, some time later, he beckoned me, and I saw a wide lake draw near with silky drifts racing across its black ice. They also flowed across the track ahead, while beyond it the loom of what might be a flag station was faintly visible against a driving bank of cloud.

"Snow's coming off the ice," he said. "Hold fast! She may jump a little when I ram her through."

The pace grew even faster. We were racing down an incline, and now, ice, station, and prairie alike were blotted out by a blinding whiteness; while presently I was flung backward off my feet, and would have fallen but that I clutched the guard-rail. The whole cab rattled, the great locomotive lurched, and a white smother hurtled under the lamp glare, until once more the motion grew even, and we could feel the well-braced frame of iron and steel leap forward beneath us. Engineer Robertson swayed easily to the oscillation as, with one side of his intent face toward me, he clutched the throttle lever, until he called hoarsely as his fingers moved along it. Then, even while the steam roared in blown-down wreaths from the lifting valve, the lever was straight at wide-open again, and I caught my breath as I made out another yellow halo with something that moved behind it in the snow ahead.

"It's the freight pulling out of the siding. I can't hold Number Forty up before she's over the switches. I guess we've got to race for it," he said.

The fireman did something, and, with a shower of half-burned cinders from her funnel and a mad blast of the whistle, Number Forty pounded on. Heysham's face was whiter than before, and the disc of yellow radiance grew nearer and brighter. A faint flash appeared below it, a deeper whistle reached us brokenly, and I remembered two hoarse voices.

"They're opening the switches! That's come on," one of them said. "Trying to check the freighter! There'll be an almighty smash if they don't!"

The other was apparently Heysham's: "And two rascally confidence men will be skipping for the border with the proceeds of what should have been Ross & Grants' cattle."

I said nothing. It did not seem that

talking would do any good, and the engineer might not have welcomed my advice. The great light was very close. I could see the cars behind it and hear the grind of brakes, while a man was bent double over a lever where the blaze of our head-lamp ran along the ground. The engine rocked beneath us; there was a heavy lurch as the fore-wheels struck the points; then Robertson laughed exultantly and wiped his greasy face. In front lay only the open prairie and flying snow, while the black shape of the freight-train grew indistinct behind.

"It was a pretty close call. Snow blurred the lights, and I guess the gale has broken a wire," he said. "Them folks never expected us, but they were smart with the switches. I'll say that for them."

"Good man!" said Heysham. "She's a grand machine. Next to riding home first in a steeple chase I'd like to have the running of a lightning express. Used to do the former once, but now Fate she says to me, 'You stop right there in Winnipeg, and sell other men's cattle for the best price you can.' Lorimer, I think Number Forty has saved that stock for you."

Then, shivering as the blasts struck the cab, we crouched, alternately frozen and roasted, in the most sheltered corner we could find, while, feeling the pulse of the great quivering machine with a grimy hand, Robertson hurled his engine along past Carberry and the slumbering Portage, until at last, just before dawn, sheeted white, from head-lamp to tank-rail and dripping below, she came pounding into Winnipeg.

"We'll let that slide. I don't like a fuss," said Robertson, when I thanked him. "Glad to do our best for you, Forty and me; and I guess the Company haven't another machine short of the inter-ocean racers that would have brought you in the time."

Then we interviewed the freight-traffic manager.

"That stock consignment came in hours ago," he informed us. "We haven't unloaded them yet. Anyway, you'll have to hurry and see the police, for we're bound to deliver against shipping bill. Don't know how you would square things after that; and it's not my business. Still, I'll have those cars side-tracked where they can't be got at readily."

Next we sought the police, and, after driving half across the city, obtained audience with a magistrate, the result of which was that a detective accompanied us to the station, and then round the hotels, inquiring for the conspirators under several names. None of them, however, appeared on any hotel register, until we called at a certain well-known hostelry, where our companion was recognized by the clerk.

"Yes, I guess we've got the men you want," he said, with unusual civility for a Western hotel clerk. "Just stood some big stock-buyers a high-class breakfast, and you'll find them upstairs. Say, if you want assistance send right down for me."

"We'll probably fix them without you," was the smiling answer. "Only two doors to the place, haven't you? I'll leave this man here with you, sending two more to the other one. Walk straight in, Mr. Lorimer, and see the end of the play."

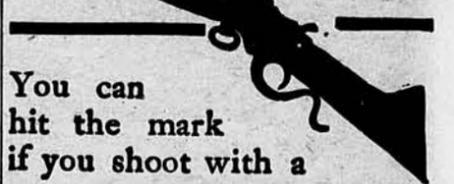
We entered the bustling coffee-room, where, at the detective's suggestion, I ordered refreshment, and he placed us at a table behind two pillars. Heysham ate and chatted in high spirits; but, though hungry enough, I could scarcely eat at all, and sat still in irresolute impatience for what seemed an interminable time. I could not get Minnie's worn face out of my memory; and, though her husband's incarceration would probably be a boon to her, I knew she would not think so. Besides, this deliberate trapping of a man I had met on terms of friendship, even after what had happened, was repugnant; and the cattle were safe. There was, however, nothing to do but wait; for, alert and watchful, the representative of the law—who, nevertheless, made an excellent breakfast—kept his eyes fixed on the door, until I would have risen, but that he restrained me, as, followed by several others, Fletcher and a little dark man, besides the one who had cajoled the stock from me, came in.

"Stock-buyers!" whispered the detective, thrusting me further back. "Go slow. In the interests of justice, I want to see just what they're going to do."

The newcomers seated themselves not far from the other side of the pillar, and I waited feverishly, catching snatches of somewhat vivid general chatter, until one of the party said more loudly: "Now let us come down to business. I've seen the beasts—had to crawl over the cars to do it—and they're mostly trash, though there are some that would suit me, marked hoop L & J. Say, come down two dollars a head all around, and I'll give you a demand draft on the bank below for the lot."

(Continued on Page 40.)

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Mrs. M. M. Johnson

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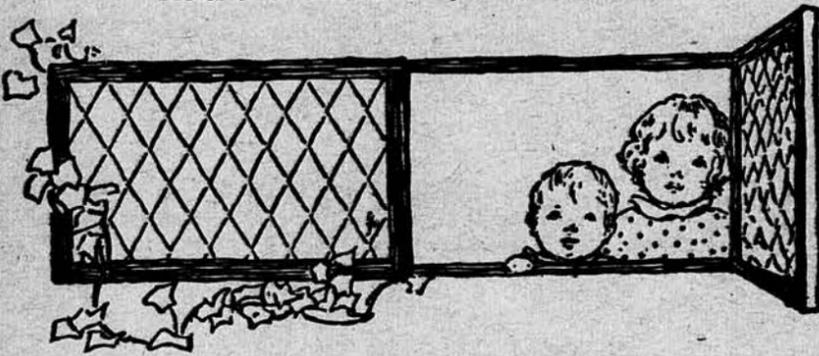
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What Second-Class City in Kansas Does Most for Children?

BY WILLIAM A. MCKEEVER
Professor of Child Welfare, Kansas University



WHICH of the seventy or more second-class cities of Kansas is most nearly ideal as a place in which to bring up a crop of boys and girls? This important question has been submitted to a test and the towns in the class named are now making preparation to be scored. To the city showing the highest grade on May 1, 1915, the department of child welfare of the Kansas university will award the Stubbs prize of \$1,000. To the city ranking second, there will be awarded the Horner prize of \$500. Ex-Governor and Mrs. Stubbs have donated the money for the first, and Charles F. Horner of Kansas City the money for the second.

Pictures, illustrations and stories, descriptive of their excellent childhood advantages will be used in making known to the world what these desirable conditions are. Meanwhile, there are a good many months for preparation and it is hoped that there may result a permanent awakening of a large amount of interest and effort in the boys and girls of Kansas.

Each town participating in this contest will be asked to make a showing on each of six points. Some towns will show an intensive effort in one direction and others in other lines. An effort will be made to give all second-class towns in the state equal chances in the race; population and assessed valuation will be considered as factors. The points to be scored are: Play and athletic training and advantages; school work and home vacation industrial training; supervised and directed social affairs for the young; moral and physical safeguards afforded the children; religious activities, including the percentage of children enrolled in Sunday schools and other religious organizations for the young; names and activities of the local organizations which in any way foster child life.

Team Work Will Win.

No city will long find itself in the running if it merely sits back on its pride and natural superiority. On the other hand, team work and co-operation on the part of all concerned will do most to bring the contestant to perfection. The board of education, the city officials, the civic or welfare league, the commercial club, the teachers' association, the mothers' clubs, the federation of women, the church brotherhood, the ministerial union—any one of these may lead out in the contest, but as many others as possible should be enlisted in the service. It would be well to appoint a committee to represent each of the points named. The department at Lawrence will furnish the details on request. When the time is nearing a close a complete score sheet will be furnished. The contesting towns will be invited to furnish pictures and descriptions of school buildings, playgrounds and various other parts of the equipment.

The department of child welfare is especially concerned in awakening interest in three new lines of work. First, there should be more effort to supervise the play of children on the school ground and during the vacation in the summer. Some cities are already arranging to employ vacation leaders for this purpose. Second, there is a need of a larger conception of the meaning of play work and industry. Industrial training for the young must not concern itself wholly with making a living, but more particularly with making a life. Work must be thought of less in terms of profit in money, and more

in terms of profit in character. There is a possible science for training children to be fond of plain tasks and masters of industry. What city can show the best results in this direction? Let it rank high on the score card. Certain of the contestants are taking a radical step in the right direction by employing a man to supervise not only vacation play, but vacation industry of the boys. He will teach gardening, floriculture, wood working and amateur farming. Likewise, some attempt will be made to standardize the vacation industry of the growing girls. Third, there must be more effort to supervise the street and alley life of the boys and girls in the city. Trash, filth and unsanitary conditions of all kinds must be removed. Objectionable pool halls and cheap theaters must be cleaned out or radically changed. Especially must there be a concerted effort to keep the growing boys from the contamination of tobacco.

The Secret of Nancy Leigh

BY M. C. W.

There never was anyone equal to Nancy Leigh for making good things out of nothing. Oh, of course it isn't just absolutely nothing. What I mean is that she can take things other women would throw away as scraps and make soups and salads and such like that are fit for a king. The rest of us always said it was because Nancy Leigh's grandmother was a Frenchwoman, and French cooks are supposed to be the best and most economical anywhere, you know. But Nancy told me her secret yesterday, and it is so easy I'm going to try it myself.

I was at Nancy Leigh's for supper, and the meat she had was so good I came right out and asked her what it was and how she made it. It looked ever so pretty too, for it came on the table all brown and hot in her silver baking dish, with just a few tiny sprigs of green parsley around it. Nancy's brother called it hash and said it wasn't safe to inquire too closely into Nancy Leigh's cooking secrets. She made a funny little face at him and told us if we must know, it was Wednesday's roast disguised as a soufflé by the aid of her kitchen magician, a meat and food chopper. This meat and food chopper, she went on to say, was the handiest thing she had in her kitchen. The little dish of meat scraps didn't look at all promising when she cleared up the dinner things, but she said she ran it through the chopper and found there was just enough for a soufflé—2 cups. Then she took some pieces of dry bread and ground them too, and measured out 1/2 cup of the crumbs. The rest she put in a glass jar to use another time. She took what gravy there was left, added to it enough milk to make 2 cups and put it in a little saucepan over the fire. Into this she stirred 2 tablespoons of flour, 1 teaspoon of salt and a little pepper, and let it cook 2 minutes, stirring it all the while. Then she added her crumbs and cooked the mixture 3 minutes more, removed it from the fire and added the meat, 1 tablespoon of finely chopped parsley, 1 teaspoon of onion juice and the well beaten yolks of 3 eggs. She let it stand cooling while she beat the egg whites very stiff and then she folded them carefully into the meat mixture and baked it in a buttered dish for 35 minutes.

Nancy Leigh says there isn't a day when she doesn't use her meat and food chopper. She grinds fresh beef

steak with it when the meat seems tough and then has the best sort of hamburger balls that ever were. When she has the hock end of a boiled ham that is too far gone to slice nicely she cuts all the meat off the bone and grinds it, then mixes a little salad dressing with it and has perfectly delicious filling for sandwiches. Sometimes she puts a dish of the ham on the supper table and lets everyone make his own sandwiches. She uses the chopper for grinding nuts and raisins and cracker crumbs and lots of other things besides, and she says she knows she has saved its price many times over by using leftovers she would have thrown away without it. I'm ever so glad she told me about it. I'm going to get one the next time I go to town, and then maybe folks will say I'm a good cook too.

Things They Would Like to Know

I have found so many helpful ideas in the Farmers Mail and Breeze that I will venture to ask some of your readers to tell and illustrate the making of hair switches from combings.—J. R., Logan, Kan.

Pictures for Panama Exposition.

Will someone please tell me the name of some person or persons, company or agency that is gathering pictures for the Panama Exposition exhibit?—M. S., Garnett, Kan.

Photographs for a children's exhibit are being collected under the direction of the Temple of Childhood, San Francisco. Photographers have been appointed in all parts of the United States to select the children whose pictures are to appear. There are six of these photographers in Kansas.

Moving Homemade Linoleum.

I wish someone who has had experience would tell me if homemade linoleum made from rag carpet can be prepared in a different room from the one in which it is to be used, then rolled up and carried, without spoiling it. Also the best way to make it. Also, where can one get a few lessons in knitting or crocheting, so she can make useful things from yarn, such as mittens?—S. M., Belleville, Kan.

It is said homemade linoleum can be rolled and carried without injury. It is made from rag or other old carpet, by first cleaning the carpet thoroughly, then stretching tight on the floor or other flat surface. Give it a good coat of paste, and let dry. When perfectly dry give it a coat of paint, and after several days, when this is perfect, dry, paint it again.

How to Prepare Beeswax.

Mrs. J. C. Stoncifer of Crestline, Kan., writes in answer to an inquiry that beeswax should be made by putting the comb in a kettle half full of water and heating it until it melts. The wax will form over the top, when it can be dipped off and made into balls.

Rule for Cream Taffy.

Will you please be so kind as to reprint a candy recipe? It was printed in a December, 1913 issue of the Farmers Mail and Breeze. There were several recipes and this was the first one in the bunch, and vinegar was one of the ingredients used. I cut the recipe out and we liked it so much.—Mrs. G. M., Cassoday, Kan.

This request is easily complied with, because the information about the thing sought is so definite. The editors of the Farmers Mail and Breeze are too busy to hunt up material which is only hazily described. The recipe requested is for cream taffy. Take 1 pound white sugar, 3 tablespoons vinegar, 1 teaspoon vanilla, 1 teaspoon cream of tartar. Add a little water to moisten the sugar, and boil until brittle when tried in cold water. Turn out on buttered plates to cool, and pull until white.

Potato Water in Bread.

I have lost the copy of the Farmers Mail and Breeze which contained the recipe of yeast made with potato water. It was the best yeast I ever used.—Mrs. M. M. T., Mankato, Kan.

There are several recipes for making yeast with potato water, or rather, for mixing up the sponge with potato water. When cooking potatoes for dinner or supper save the water in which they were cooked, also save out one or two potatoes, mash them without salt or seasoning, and add to the water. Prepare the yeast as usual, soaking it in water until it has become light. Mix up your sponge with flour and the potato water, adding milk or water if the potato water is not sufficient for the quantity you require. Add the soaked yeast, with a tablespoonful of sugar, and let rise. When light add salt and shortening, flour to stiffen, and finish as usual.

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Buy a Book of Songs—This is the Life—When I Lost You—Good Night Nurse—You Made Me Love You—Sunshine on My Face—There's a Girl in the Heart of Maryland—International Rag—Where Did You Get That Girl—Somebody—Selling Down the River—Down in Dear Old New Orleans—Georgia Land—Apple Blossom Time in Normandy—I'm On My Way to Mandalay—You've Got Your Mother's Big Blue Eyes, & over 200 other Popular Songs and Music (the very latest hits, song everywhere & 200 Comic Recitations, Toasts, etc. Only 10¢ each, 5 Song Books 25¢. HOME MUSIC CO., 28 Chestnut St., CHICAGO.

We Make Good Cuts!

The Mail and Breeze has the most complete plant in Kansas for the making of first class half-tone engravings and zinc etchings. Particular attention given to livestock and poultry illustrations for letterheads, newspaper advertisements and catalogues. Our cuts cannot be excelled and are guaranteed satisfactory. Lowest prices consistent with good work. Write for information.

THE MAIL AND BREEZE, Topeka, Kan.

Farmers Sons Wanted with know-
edge of farm
stock and fair education to work in an office; \$30 a month with advancement, steady employment, must be honest and reliable. Branch offices of the association are being established in each state. Apply at once, giving full particulars. Only 10¢ each, 5 Song Books 25¢. HOME MUSIC CO., 28 Chestnut St., CHICAGO.

Virginia Farms and Homes.
FREE CATALOGUE OF SPLENDID HOMES.
H. B. CHAFFIN & CO., Inc., Richmond, Va.

THIS BIG, 3 1/2 FOOT TELESCOPE FREE



This is a real telescope and not a worthless toy. It is made by one of the largest manufacturers in Europe. When closed, as shown in picture, the telescope is 21 inches long and has a circumference of 3 1/2 inches. When all the sections are pulled out the full length is over 3 1/2 feet. It is built of the best materials, brass bound throughout. We furnish with each telescope a solar eye piece for use in studying the sun and the solar eclipses. Eye piece can also be used as a magnifying glass to detect insects or germs in plants or vegetables.

Powerful Lenses 5 to 10 Mile Range

The lenses in this telescope are carefully ground and correctly adjusted by experts. See objects miles away. Farmer said he could count the windows and tell the colors of a house 7 miles away and could study objects 10 miles away which were invisible to the naked eye. Absolute necessity for farmers and ranch men. They can keep their eyes on the cattle, horses or men when far distant.

Our Offer!! We will send one of these big telescopes free and prepaid to all who send \$1.00 to pay for one year's new or renewal subscription to Mail and Breeze, and 25 cents extra for postage (\$1.25 in all). The Telescope is guaranteed to please you in every way or your money will be promptly refunded. Order at once. Address all letters to

Mail and Breeze
Eighth and Jackson,
TOPEKA, KANSAS.



HOME DRESSMAKING

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

Ladies' dress 7079 is made with long or short sleeves and with a two-piece circular skirt which may be made full length or cut off in tunic effect. The pattern is in six sizes, 34 to 44 inches bust measure.

Yoke skirt 7062 may be cut in regulation or in tunic length. The pattern



includes a three-gore foundation skirt for wear with tunic. Six sizes, 22 to 32 inches waist measure.

The dressing sack, 7066, made with long or short sleeves, is cut in sizes 36, 40 and 44 inches bust measure.

Girls' apron, 7056, is cut in sizes 4, 6, 8, 10, and 12 years.

Dress 7076 opens on the shoulder and is made with guimpe having long or short sleeves. Sizes 6, 8, 10, 12 years.

USE THIS COUPON FOR PATTERN ORDERS.

The 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.

Pigeon Holes

Pa's desk was full of pigeon holes. They told Priscilla Prout. And so she waited hours to see The pigeons coming out.
—New York Mail.

In the fresh-air type of poultry houses the litter will remain light and dry, whereas in the closed, warm coops the floor and litter will be damp and filthy.

The two fundamental factors in winter egg production are early hatching and proper care of the stock.

JUST OUT!
The New
"NATIONAL" Style Book
Spring and Summer 1915
Your Copy Is Ready
FREE TO YOU

This authoritative Fashion Book for Spring and Summer 1915 is just off the press.

Your copy of this interesting, new Style Book is held here to be sent to you free. You need only write, "Send me my 'NATIONAL' Style Book," and it will come to you by return mail.

The Style Book this season is bigger and better than ever before. It contains 380 pages filled with handsome pictures of the very newest and most charming fashions—and thousands of money-saving bargains. Select your Spring clothes from this "NATIONAL" Style Book and you can have more clothes and better clothes than ever before—and all for less money. Send the coupon—or write for your copy today.

This 380 Page Style Book is Yours—FREE
A Few Sample "NATIONAL" Money-Saving Bargains

Waists.....	\$.49 to \$5.98	Coats for Misses and Small Women.....	\$3.49 to \$8.98
Skirts.....	.98 to 7.98	Silk and Wool Dresses for Misses and Small Women.....	4.98 to 12.98
Lingerie Dresses.....	1.99 to 14.98	Tailored Suits for Misses and Small Women.....	4.98 to 15.98
Silk and Wool Dresses.....	4.98 to 19.98	Children's Dresses.....	.49 to 5.98
Ladies' Coats.....	1.79 to 14.98	Children's Coats.....	1.98 to 3.35
Ladies' Tailored Suits.....	5.98 to 17.98	Children's Shoes.....	.59 to 9.98
Lingerie Dresses for Misses and Small Women.....	.98 to 7.98	Boys' Suits.....	.98 to 2.69
Shoes for Ladies and Misses.....	1.00 to 5.98	Men's Suits.....	5.25 to 17.50
		Men's Shoes.....	1.50 to 2.98
		Knit Underwear.....	.49 to 5.98
		Corsets.....	.12 to 3.98

Also a full line of Underwear, Hosiery, Scarfs, Vests, Gloves, Sweaters, Leather Goods, Jewelry and a complete line of Men's, Boys', Misses' and Children's Wearing Apparel. Mail coupon NOW.

National Cloak & Suit Co.
281 W. 24th St. New York City
No Branches—No Agents

Just Tear or Cut Out the Coupon and Mail It Now—Don't Delay

NATIONAL CLOAK & SUIT CO.
281 West 24th St., New York City

Please send me, FREE, my copy of the Money-Saving "NATIONAL" Spring Style Book

Name

R. F. D.

P. O.

State.....

Kansas Farms
Practically Given Away

You get possession of 160 acres for only \$200 down—price \$10 to \$15 per acre. Remainder in easy installments for 10 years after second year. Long time—small payments!

This is in the five southwestern Kansas counties adjacent to the Santa Fe's new line, where this last year wheat averaged \$15.81 per acre, broom corn \$12.19 and sorghums \$11.12; average return for the 3 crops—\$13.04.

See how quickly your farm pays for itself? Some chickens, hogs and dairy cattle meanwhile are giving you a good living and CLEAR PROFITS while the fertile KANSAS soil works for you day and night!

Write me today for details about the easy contracts we offer, and descriptive folder.

E. T. CARLIDGE
Santa Fe Land Improvement Co.
1828 Santa Fe Bldg., Topeka, Kan.

If You Want a PIANO
Stop Right Now and Write Us Like This:
"Please Send ELBURN Particulars and Prices"

17 Cents a Day Buys an Elburn

We Can Save You \$50 to \$200

We Ship Pianos Everywhere

Our New Elburn Catalog in Colors Ready. Write for It.

The Elburn is the best piano the world for the money.

Sweet Tone, Durable, Beautiful. Thousands praise it. Let us tell you why.

J. W. JENKINS
SONS' MUSIC CO.
KANSAS CITY MO.

No matter what your desires are or what your income is, we can give you the best piano you ever saw for the price. This is not an idle claim, but absolute TRUTH and we will prove it to you. Don't buy until you get Elburn facts. Write us today.

\$3000 FOR YOU



That's the money you should get this year. I mean it. I want County Sales Managers quick, men or women who believe in the square deal, who will go into partnership with me. No experience needed. My folding Bath Tub has taken the country by storm. Solves the bathing problem. No plumbing, no water works required. Full length bath in any room. Folds in small roll, handy as an umbrella. I tell you it's great! GREAT! Rivals \$100 bath room. Now listen! I want YOU to handle your county. I'll furnish demonstrating tub on liberal plan. I'm positive—absolutely certain—you can get bigger money in a week with me than you ever made in a month before. I KNOW IT!

Two Sales a Day— \$300.00 a Month

That's what you should get—every month. Needed in every home, badly wanted, eagerly bought. Modern bathing facilities for all the people. Take the orders right and left. Quick sales, immense profits. Look at these men—Smith, Ohio, got 18 orders first week; Meyers, Wis., \$250 profit first month; Newton, California, \$50 in three days. You should do as well. **2 SALES A DAY MEANS \$900 A MONTH.** The work is very easy, pleasant, permanent, fascinating. It means a business of your own. Little capital needed. I grant credit—Help you out—Back you up—Don't doubt—Don't hesitate—Don't hold back—You cannot lose. My other men are building houses, bank accounts, so can you. Act then quick, SEND NO MONEY. Just name on penny post card for free tub offer. Hustle!

H. S. Robinson, Pres., 784 Factorias Bldg., TOLEDO, OHIO
Canadian Branch—Waterloo, Ont.

Exclusive Territory. 100% Profit.

Demonstrating Tub Furnished

WORK FOR US = ALL OR = SPARE TIME

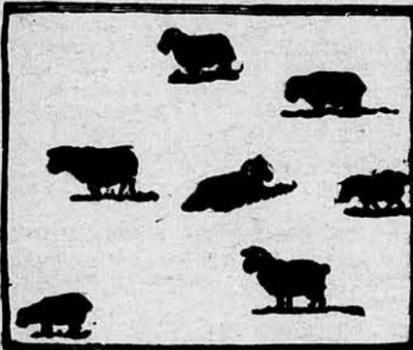
GET YOUR SHARE OF THIS EASY MONEY SELLING EASY WRINGER MOPS



Two turns of crank wrings out every drop of water. Simple, practical, reliable, durable, never wears out. Every home buys. No talking necessary. Show it, take the order. Get started now, don't wait. We will help you. We want Agents, Salesmen, Managers in every county to all orders, appoint, supply, control sub-agents. 150 per cent profit. No investment required. Sample free with first order. New catalog, instructions, sworn-to evidence, all free. U. S. MOP COMPANY, 257 Main St., TOLEDO, OHIO

This small picture shows mop on the floor. It spreads out and is held down at all points.

Solve This Puzzle and Win a Prize



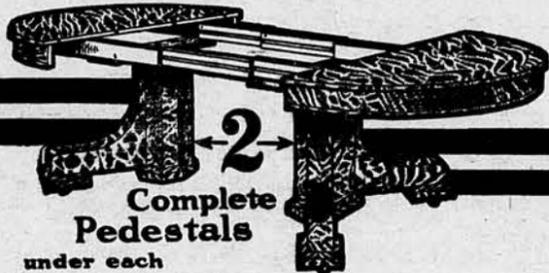
Here are seven sheep in a pen. By drawing three straight lines you can put each one in a pen by himself. If you can do this we will send you as a prize, a packet of five beautifully embossed postcards lithographed in rich colors, and also a certificate of entry in our grand contest for a \$395 Saxon Automobile. All you have to do is to enclose a two cent stamp in your letter to pay postage and cost of mailing.

Saxon Car Given Away

Remember the Saxon Car will absolutely be given away in the grand contest we will tell you about in case of a tie a Saxon car will be given to each person so tied. Send your answer at once so you can be entered in this great contest. Enclose a dime in your letter and we will send you our fine magazine, People's Popular Monthly, 4 months. Address POPULAR CO., 409 Popular Bldg., Des Moines, Iowa

When You Buy a Table

Do you look at design and price only? Of course, that's important, but the differences in construction and method of operation are even greater.



"TWIN" TABLE is the solution of Pedestal Table troubles. They are called "TWIN" Pedestal Extension Tables because each of the two pedestals is complete in itself. Each pedestal is oval or oblong and finished all around.

Notice the strength of the two complete pedestals over tables having only one pedestal that has been split into two halves.

Notice the perfection of the two complete pedestals whether the table is closed or extended.

A table lasts a life-time and therefore it is wise to look into its merits very carefully before purchasing.

Write for free booklet and for the name of the dealer in your vicinity who handles them.

Wisconsin Furniture Co.

3110 Fond du Lac Avenue
MILWAUKEE, WIS.

EXCLUSIVE MANUFACTURERS OF
"TWIN" Pedestal Tables

WISCONSIN FURNITURE COMPANY
3110 Fond du Lac Ave. Milwaukee, Wis.
Write for free booklet and for the name of the dealer in your vicinity who handles them.

Little Brown Hands

They drive home the cows from the pasture
Up through the long, shady lane,
Where the quail whistles loud in the wheat-field
That is yellow with ripening grain.

They know where the apples hang ripest
And are sweeter than Italy's wines;
They know where the fruit hangs thickest
On the long, thorny blackberry vines.

They wave from the tall, rocking tree-tops,
Where the oriole's hammock-nest swings;
And at night-time are folded in slumber
By a song that a fond mother sings.

Those who toil bravely are strongest,
The humble and poor become great;
And from those brown-handed children
Shall grow mighty rulers of state.

The pen of the author and statesman,
The noble and wise of our land—
The sword and the chisel, and palette,
Shall be held in the little brown hand.

—Anonymous.

Crocheted Centerpieces Wanted

"Will someone please send picture and instructions for crocheting a round centerpiece that would be about 24 inches when made of coarse thread or carpet warp?" asks a reader. Probably many readers of the Farmers Mail and Breeze have attractive designs they would be glad to pass on to someone else. If you have one, send it in. Good prizes will be given for everything that can be used.

The centerpiece here shown is both pretty and easy to make. The design can be used for smaller doilies also, by

der end treble in 2nd row, ch 3, *. Repeat from * to * working in end of every other row all around. To join work 1 treble, ch 3, slipstitch to ch 7,

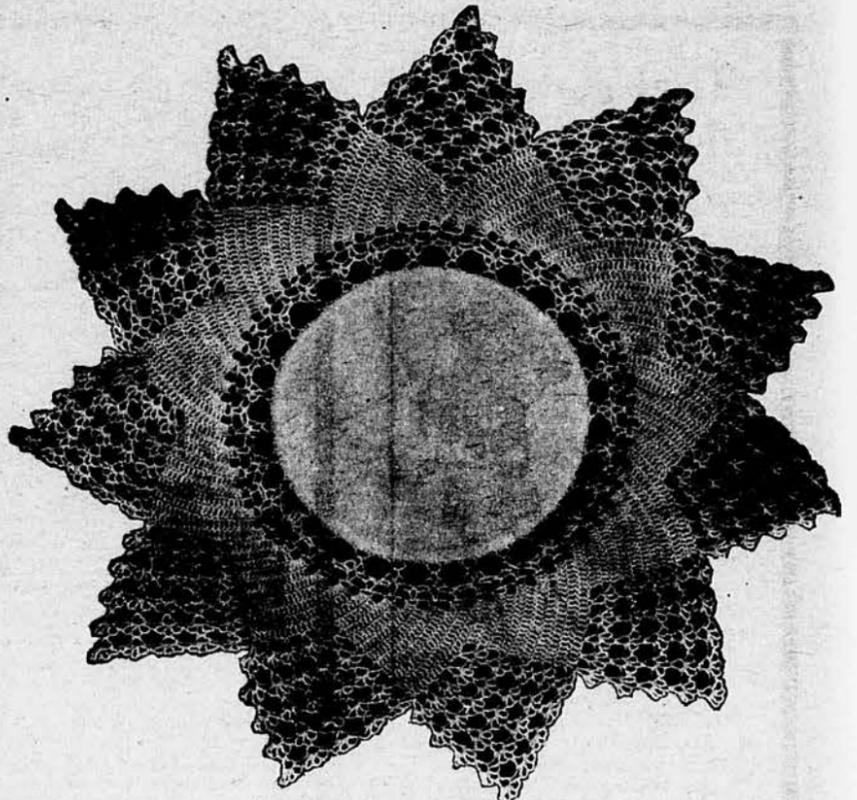
2nd Round—Ch 2, 1 shell of 4 trebles each separated by ch 3 worked under the ch 3 between the first two trebles, in the last row. Ch 3, 1 single crochet under ch 3 between second 2 trebles, ch 3, 1 shell under ch 3, between third 2 trebles. Continue thus all around. To join slipstitch to center of first shell, then ch 5 stitches.

3rd Round—1 treble crochet, ch 2, 1 treble in center of each shell, and a ch 3 between each group. Join and overcast neatly to a hemmed circle of linen which has previously been washed to shrink it and ironed smoothly.

Typhoid Serum a Success

Soldiers of the British army are being inoculated against typhoid and the inoculation is a success. This is the remarkable news contained in a recent dispatch. Typhoid has always been the scourge of the army. Even so recently as the time of the Spanish-American war more men died from fever in the camps than died from the guns of the enemy.

According to a newspaper dispatch the results achieved by inoculation in the fight against typhoid fever in the British army have been "positively astounding." Sir Frederick Treves, a widely known surgeon, speaking before the



A CIRCULAR TABLE MAT.

starting with a less number of stitches. For the large centerpiece, you start with a chain of 30 stitches.

1st Row—1 treble crochet (thread over the needle twice) in the 7th stitch, 9 treble crochet in next 9 stitches, * chain 3, 1 treble in the same stitch, * Repeat from * to * 4 times, chain 5, turn.

2nd Row—1 treble crochet, chain 2, 1 treble crochet, chain 2, 1 treble crochet, chain 2, 1 treble crochet, all under ch. 3 in first row. * Skip next ch 3, and into the third ch 3, work 4 treble crochet, each separated by ch 2. * Repeat from * to * three times, then 1 treble crochet on each treble in first row and 3 trebles under end chain, ch 2, 1 treble crochet under same chain, ch 6, turn.

3rd Row—1 treble crochet on each treble, or 13 in all. * Ch 3, 1 treble, ch 3, 1 treble under second ch 2 in previous row. * Repeat from * to * four times, working into every other ch 2. Ch 5, turn.

The 4th row is the same as the 2nd row, the 5th like the 3rd, and so on. Each point consists of 10 rows, the 10th having five shells and 25 treble crochet.

11th Row—10 treble crochet, then 2 trebles in the 13th, 16th, 19th, 22nd and 25th stitches.

12th Row—Same as the second row. After as many points as are needed are finished join by overcasting the first and last rows together. To finish the inside of the circle work as follows:

Fasten thread in last treble of last row, ch 7, * 1 treble ch 3, 1 treble un-

Royal Society of Arts recently, said that since the war began there had been only 212 cases, of which 173 were persons who had not been inoculated. There had been only 22 deaths, and none of those who died had been inoculated. Not a single death from typhoid had occurred among those inoculated.

Use the Left-Over Juices

Nearly always a small quantity of fruit juice is left over from canned fruit or preserves. A very toothsome dish may be made from these leftover juices. Put on the stove in a porcelain dish, sweeten to taste and allow to boil. Mix 8 tablespoons flour with 2 tablespoons sugar and 1 1/2 teaspoons baking powder. Flavor with lemon or orange extract and mix with sweet milk or water to a stiff dough. Dip a spoon in the fruit juice, and drop dough by spoonful into the boiling juice. Set pan in hot oven until the dough is brown. With sauce this makes a delicious pudding.

Lily B. Crampton.
R. 1, Arkansas City, Kan.

Often little chicks are hatched with some disease. Incubator trays should be washed with hot water to which has been added a tablespoonful of good disinfectant to a gallon of water.

Pullets hatched early enough to mature and commence laying in October or November, can be relied upon to produce a good share of the winter eggs.

"There is the most accessible automobile in the world"

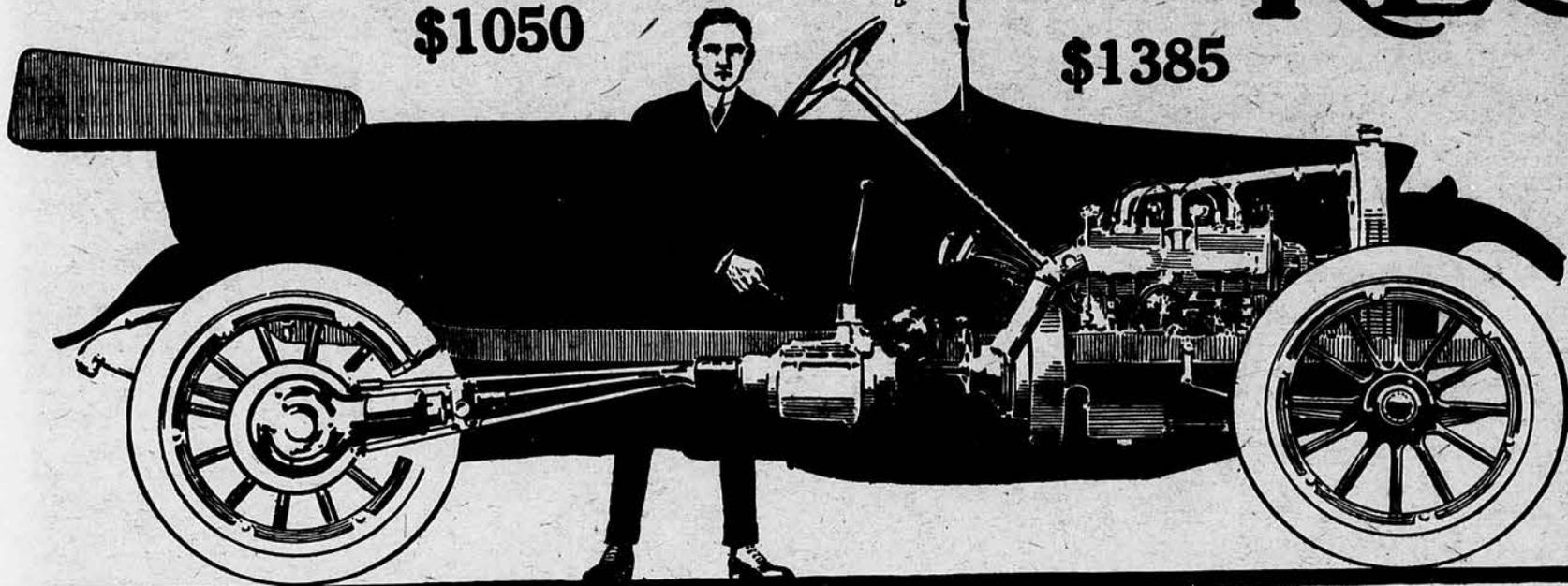
THE NEW REO—The Fifth—
The Incomparable Four

\$1050

THE REO SIX—
The Six of Sixty
Superiorities

\$1385

REO



That statement applies with equal force to the New Reo Six and to Reo the Fifth, "the Incomparable Four"—for in this respect all Reos are alike

THE 3-UNIT POWER PLANT which always has been and always will be a feature of Reo automobiles, makes this the most accessible automobile in the world.

REO ENGINEERS INSIST that the only excuse for the 2-unit chassis is that it is easier and cheaper for the manufacturer—while it is obviously less accessible and, therefore, more expensive to the owner.

YOU KNOW THE TYPE WE MEAN—that in which the transmission is incorporated in a kind of annex to the motor or the rear axle in such a way that in order to make an adjustment or repair to one unit you must disturb two complicated mechanisms.

A PROMINENT REO DEALER, who also handles another make of car of much higher price, was recently asked why it was that his repair shop was always full of the higher priced cars while a Reo was so seldom seen there, though he sold so many more Reos.

"IT ISN'T SUCH A BAD CAR," he replied. "In fact it is a mighty good car as cars go. But it is so inaccessible that when anything does go wrong it takes so all-fired long to fix it."

IF YOU HAVE PAID—as doubtless you have many times—a five dollar "repair" bill for what you felt ought to have been a five cent adjustment, you will appreciate that.

"ACCESSIBILITY"—'twas a word to conjure with in ads a few years ago. For most of the things you did to a car in those days had to be done while lying on your back. So, when a designer could so arrange the units that you could take a more comfortable position—as kneeling or lying on your side!—its "accessibility" was loudly proclaimed.

BUT WHEN THE TERM CEASED to be novel most makers dropped it. And then they forgot also to design the quality into their cars!

NOT SO THE REO ENGINEERS. Several years ago the Reo chassis had been standardized and perfected to a point where we believed—and still believe—it will require no radical change for a long time to come, if ever.

AND ALL THE EFFORTS—all the engineering knowledge of the Reo organization, from that time, has been concentrated on the improvement and the refinement of that standard Reo chassis in one direction—greater accessibility.

FOR WE BELIEVE it is the paramount consideration in an automobile. We believe nothing so directly tends to reduce the maintenance cost of a car as that quality of accessibility.

STUDY THIS FEATURE in Reo cars. You'll find it isn't simply an advertising phrase—it's a fact. Go over the entire car—each unit separately and note the vast amount of attention and care that has been exercised in the direction of simplicity and accessibility.

ANY ADJUSTMENT or repair can be made to any unit without disturbing any other.

WHY REOS ARE THE ONLY CARS in which main crank-shaft as well as connecting-rod bearings can be adjusted without taking the motor out of the car. Patented feature—strongly protected.

EVER TRY TO ADJUST your steering gear—to take up wear? Ever get anywhere in the attempt? Yet they all call them "adjustable." Now, study the Reo steering mechanism—it's so simple the average person never notices it. And owners tell us they almost forget there is one on the car—so seldom does it require even the slightest attention. It's self-adjusting—automatically. Accessible too—look and see if it isn't!

AND, DO YOU KNOW, some makers who are now copying that "Always Reliable" Reo steering gear used to laugh at it! Such is the reward of leadership.

AND THAT BRINGS UP another matter—a detail of Reo policy. You know, the Reo engineers never adopt anything just because it is new—not unless it is better. Nor do they discard a feature of proven excellence just to supplant it with a more conventional one.

BUT TO RETURN to our subject—Accessibility:

Most makers seem to overlook or to ignore the fact that it's one thing to assemble and adjust parts when the chassis stands stripped on the factory or garage floor—but it's an entirely different matter to do it when the parts are covered by the body above and the drip-pan below—with immovable dash directly over the place which, perhaps, you most want to reach.

DOES THAT LAST PARAGRAPH bring up memories that are more poignant than pleasant? Thought so. Then you'll derive real joy from the possession of a Reo.

AND SIMPLICITY. Don't be deceived by a smooth-looking casting. Looks simple—but may conceal a mess of inaccessible gears and bearings and traps. Get into it and make sure.

LOOK TO THE CLUTCH—can you get at it without taking down both motor and transmission—or is it hermetically sealed inside that "simple" looking annex?

DIFFERENTIATE between that which is really simple and that which is only "simple looking." Between Accessibility with the body on—and what the dealer has in mind—the Accessibility of a stripped chassis—or a motor on a special stand. There's a world of difference.

AND THAT REMINDS US of another Reo dealer—one of the most successful. He advertises "don't buy a Shop Service Car—buy a Road Service Car—Road Service built in at the factory."

ASKED WHAT HE MEANT by that, he said: "When I see too much emphasis laid on 'Shop Service' in advertising a car I opine that that car must be so built it will need plenty of it. I have watched it and found I was generally right."

REO ROAD SERVICE—built in at the Factory—that is our strong point—that and simplicity and Accessibility, so that, when any adjustment or repair or replacement must be made you can do it easily, anywhere with ordinary tools—and at the slightest cost.

ALL THE EXPERIENCE—all the ingenuity—all the skill—of the Reo engineers have been concentrated on this one idea for several years—simplifying design always with greater accessibility in view.

AND WE ARE MOST PROUD of the result. Ask any Reo owner—and the longer he has owned his Reo the more enthusiastic will you find him. He will repeat the words that head this ad.

The New Reo the Fifth, \$1050

The New Reo Six, \$1385

REO MOTOR CAR COMPANY, LANSING, MICHIGAN

Manufacturers of Reo Automobiles and Reo Motor Trucks

Extraordinary Value at Ordinary Price

CAR OWNERS everywhere, in town and country, who know tire values are surprised and delighted when they learn that **Firestone** Tires can be bought for the price of those of only medium grade. Get the book of reasons with proof.

Firestone Tires and Tubes

cost you no more than the average kind, because their specialized production improves quality and cuts cost of manufacture. **And**—car owners know this, and so the demand for Firestone Tires results in enormous output—with a big saving for you on the price. The free Firestone book is full of facts about this. Write for it.

Free Firestone Offer

This Waterproof Tube Bag is free to every car owner who will write us the make of tires he uses and the name and address of his dealer. This bag will keep your Inner Tubes in perfect condition. It is a real necessity—and it's free.

Firestone Tires and Tubes Easily Obtained
Most good dealers have them, but in case none is handy to you, write us. Our nearest station will take care of you. Write for Book and Bag today. Ask for Book No. 29.

Firestone Tire & Rubber Company
"America's Largest Exclusive Tire and Rim Makers"
Akron, Ohio — Branches and Dealers Everywhere
Pneumatic Tires, Truck Tires, Pleasure Electric Tires, Carriage Tires, Cycle Tires, Fire Apparatus Tires, Rims, Tire Accessories, etc.



The Drive Wheels Carry the Load

The majority of mowers load the cutter bar on the horses' necks, or on the runners under the cutter bar, instead of on the drive wheels. The

EMERSON Standard MOWER

is the *only* mower that carries the *entire* weight of the machine, cutter bar and operator on the *drive wheels*. This proper placing of the load eliminates all side draft and actually increases

the cutting power of the machine by delivering more traction power on the drive wheels, which, in turn, transmits more power to the knife. This exclusive feature of the Emerson makes it the *only* successful wide cut mower made and enables you to cut an 8-foot swath through heaviest grasses without materially increasing the draft.

4294



Emerson-Brantingham Implement Co. (Inc.)
Good Farm Machinery Established 1852 396 W. Iron Street, Rockford, Illinois

GET DUVE'S FREE HARNESS BOOK

70 Pages of Harness and Saddle **BARGAINS**—Bridles, Horse Collars, Strap Work, Whips, etc.

FROM DUVE (The Maker) TO YOU at WHOLESALE PRICES!

Get my free book, try my harness, then you'll never quit me. DUVE'S goods are dependable. Guaranteed against any defect. Write today, NOW, for my free book. A postal will do. Address **DUVE, THE HARNESS MAN, 311 B South 7th Street, St. Joseph, Mo.**



A \$45 Saddle for \$34 Cash

Our latest Swell Fork Saddle, 14 inch swell front, 23-inch wool lined skirt, 3-inch stirrup leather, 1/4 rig, made of best leather, guaranteed for ten years; beef hide covered, solid steel fork.

The Fred Mueller Saddle and Harness Co
1413 Larimer St. Denver, Colo.

Send your name for our catalogue, now ready.



The Celebrated Mueller Saddle.

TIMOTHY \$2.75 PER BU.

SAVE MONEY—Buy Direct from Grower. New re-cleaned Iowa Grown Timothy, free from weed seed. Guaranteed Satisfactory or money refunded. Write today. 92-page catalog and Free Samples. Low prices on Clover and all grass seeds. Write before advance.

A. A. BERRY SEED CO., Box 335, OLARINDA, IOWA

Any Spare Time?

If you have about two hours spare time each week, any man or boy in long pants, write for our offer. Make many dollars just in spare time, showing our tailoring samples and styles. No experience or money needed; easy to get the orders, our prices so low and styles so beautiful. Perfect fit and satisfaction or money refunded. Even if you don't take up the work, write for free sample outfit, and see our agents special inside wholesale price on a suit for yourself. It will surprise you. Write a postal or letter now and say, "Send me your offer."

BANNER TAILORING CO., Dept. 968 Chicago



The Farm Below

BY A. P. LEVIN.

What would you think of a man who had \$10,000 in the bank and told the banker that he wanted interest on only one-half of it. Wait a moment. I am going to show you that you do the very same thing with your capital. Your farm is, of course, your capital and your crops are the interest on it. If you use only one-half of it so as to bear interest, you are just like the man whom you were ready to call a fool.

You farm the top 6 inches of your land. That's your factory. This factory turns chemical plant food, humus, sunshine and water into corn, oats, wheat. These are your finished products. The plowing, cultivating, fertilizing, represent the working force. You own the soil below the top 6 inches. Do you use it? If not, why not? You know, of course, that most subsoils are rich in mineral plant food, especially potash. Many subsoils are also rich in lime. The modern method of deep tilling is simply to bring some of this subsoil into active service.

Experiments and demonstrations have proved that the subsoil can be made to yield some of its mineral wealth by thorough pulverizing and mixing with the top soil, the chopped up decaying vegetation or top dressing, air, water, humic acids. That is one of the main reasons why deep tillers make a success of farming. They increase the chemical activity of their farm and deepen the feeding area of the roots.

Most commercial fertilizers contain potash. This chemical is mined in eastern Germany and the war has cut off the importation of it. Isn't it comforting to know that most subsoils in America contain a wealth of potash and that enough can be brought into active use simply by deep tilling in such a manner that the pulverized subsoil is mixed with decaying vegetation.

A farm of 160 acres contains 160 by 43,560 square feet, and the 6-inch plowing puts into use 3,484,800 cubic feet of soil. But if plowing be done a foot deep it uses 6,969,600 cubic feet for storing the water and supplying available chemicals for the growing plant. It actually doubles the size of the farm and it is a truth that it more than doubles the net profits of the farm. Though this may not always be apparent in any one year, it is bound to prove itself in, say, five or ten years' total yields.

Farmers cheat themselves out of their second farm when they use only the 6-inch deep farm on top. The deep seed-bed provides a valuable reservoir in which to store all the rainfall and the snow of winter, and it doubles the available elements of soil fertility, and insures growth, almost regardless of summer drouth.

Twelve-inch plowing is scarcely within the range of real deep tilling, for there are machines now which easily go 14 or 16 inches down, and do so without bringing the subsoil to the top, where it would be a detriment to growth for a year or so until it had disintegrated and decomposed. Hence it should be kept in mind that merely sinking an ordinary plow to an extraordinary depth is not proper deep tilling, for the ordinary plow turns over the bottom soil to the top.

In former days the American farmer skimmed the top 3 inches and when the fertility was worn out he moved west. But going west will not help you any longer. You will have to go down and farm the farm below.

There is one more thing about deep tilling. When shall I plow deep? Of course it depends on your soil and several other things. As a general rule deep tilling should be done in the fall, but we should plow deeper and better always simply because it pays. And just now, when we have the responsibility and opportunity of feeding Europe, bleeding and torn, and raising nothing but trouble just now it is very timely to figure out means and ways of increasing the output of our farms. We know we will get good pay for our efforts, how shall we do it? Deep tilling is one of the ways.

The Voice of Experience

Love and a porous plaster, son,
Are very much alike;
It's simple getting into one,
But getting out—goodnight!
—Wroe's Writings.

A New Scheme For Farmers

An agent representing himself to be employed by a stock tonic formula company of St. Paul, Minn., is operating in Kansas. He is selling a formula of a stock tonic that he says will do wonders. He recently tried to sell his tonic to A. H. Wilke of Inman; but let Mr. Wilke tell the story.

"Three men came to my farm on the morning of January 14 in a motor car. One of the men got out and gave me his name, and we talked hogs for a while. Then he said: 'Say, don't you want to make some money the next year or two?'"

"I said 'Yes, don't you?' 'Well, here is the proposition, we will give you a formula to make your own stock food and after you have tried it three months we will send an advertiser to your community, and if any one asks you about it, just tell them what you think of it. We leave 12 formula blanks with each representative. I will come around every six months and check up for those formulas which have been sold three months ago. (The formulas call for three months free trial. If not satisfied you get your money back.) The price is \$12."

"I was to get \$5 and the company \$7. That looked good. I said I was not afraid to try it. He said 'I never saw one that was.' So he got out a small book and wrote \$84 and handed it to me to sign. I read what I was to sign and it said 'After six months I promise to ————'"

"I said 'Nothing doing.' 'Well,' he said, 'where they can be well recommended they are not required to give a note,' but he took the 12 formula blanks and went away."

This is the formula he was trying to sell to Mr. Wilke:

- Gran. Sodium Sulphate..... 50 pounds
 - Po. Sulphur..... 25 pounds
 - Po. Carbolic..... 15 pounds
 - Po. Trigonella..... 15 pounds
 - Po. Sodium Bicarbonate..... 12 pounds
 - Po. Sodium Chloride..... 10 pounds
 - Po. Chenopodium..... 2 pounds
 - Gr. Anslum..... 2 pounds
 - Po. Zingiber..... 2 pounds
 - Po. Capsicum..... 1 pound
- Mix the formula with 350 pounds of filling.

This is what the agent said it is: "A digestive tonic that can be fed profitably to all kinds of stock. It aids digestion, sweetens the stomach and acts immediately on the affected parts. A regulator, a fatterer, blood purifier, and worm expeller."

This formula was translated into common English by L. A. Fitz of the Kansas Experiment station, who has charge of the work in the control of stock foods. This is what it contains:

- Glauber Salts..... 25 pounds
 - Po. Sulphur..... 25 pounds
 - Po. Charcoal..... 15 pounds
 - Po. Foenugreek..... 15 pounds
 - Po. Baking Soda..... 15 pounds
 - Po. Common Salt..... 12 pounds
 - Po. Licorice..... 10 pounds
 - Po. American Worm Seed..... 3 pounds
 - Gr. Anise..... 2 pounds
 - Po. Ginger..... 2 pounds
 - Po. Capsicum..... 1 pound
- Mix the formula with 350 pounds of filling.

In speaking of this scheme, Professor Fitz said:

"It seems that since the average Kansas farmer is no longer susceptible to the methods of the old-fashioned lightning rod agent new schemes are being adopted. There are two good reasons why this sort of thing should have some publicity. First, \$12 is a very large fee to pay for any such formula in case a farmer or stockman is getting it for his own use. Furthermore, no man ought unwittingly to sign a promissory note for \$84 in the guise of a contract."

Another Text On Agriculture

Agriculture, A Text For the Farm, is a 408-page book issued recently by the Bobbs-Merrill company of Indianapolis. It is written by O. H. Benson, the specialist in charge of club projects with the United States Department of Agriculture, and George Herbert Betts, a specialist in rural schools. The price is \$1.50.

The authors say in the preface that: "The present volume attempts what has not been accomplished in elementary texts on agriculture—the combination of really practicable information in concrete home and school projects to be carried out by pupils." The book contains a great deal of helpful matter for school work.

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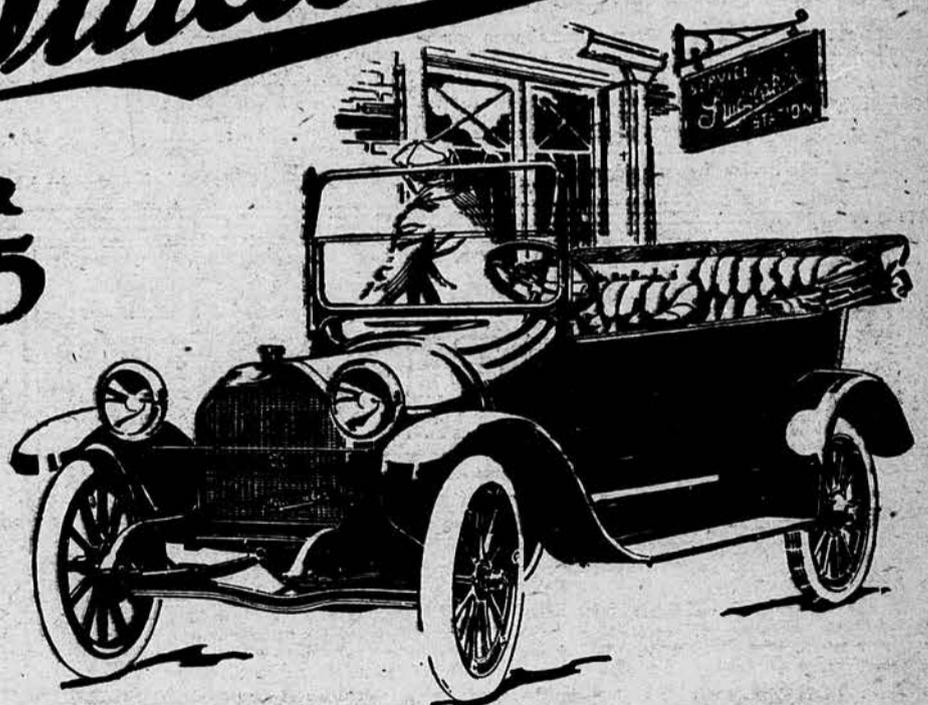
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Shoes For Geese In Germany

BY FELIX J. KOCH.

Europe's great world-war has drawn attention to innumerable unique manners and customs of the nations involved—not the least of these is that of "shoeing the geese" in Germany and Austria.

Every little village has its communal goose-herd, who collects the geese from the several barns in the morning and drives them down to the brook or mill-pond. There, through the day, she watches them, sees that they do not stray too far, prevents some hungry gypsy-band from pilfering, and at dusk drives them back. The geese come to know the child and obey her, though often with protest.

When fall comes the geese are to be taken to the district town for sale. Peasants don't kill and pluck the geese themselves, simply because it isn't the custom. The geese are driven, as cattle would be, to the distant town. Such a tramp as that is hard on the feet of a



goose, which is built for water, causing it to fret and grow thin.

To prevent this, a great bed of tar is spread near the shore of the goose-pond. The geese are driven through the tar. Then on across the pebbles. These stick to the tar. Then the geese are driven out into the open, that the tar may dry and harden. After a bit they are brought back again. This is continued until a stout shoe is formed. The dust of the highway makes the black shoes white and the geese seem none the worse for their miniature footwear.

From An Old Time Judge

We passed as pleasant times judging poultry during the two and a half months we spent at fall fairs and the two months we spent at winter shows as were ever enjoyed by anyone at any occupation. We enjoyed ourselves because we met such fine people and were doing our best to make the right awards and imparting information to exhibitors and those interested. No one can be of greater service to poultry people and those interested than a poultry judge who has his work at heart and who desires to benefit those who employ him instead of looking entirely after his own interests.

Fairs and shows are educational. If the people will study the various breeds more closely and weigh the various sections of the bird as a whole, in shape and color, there will be better knowledge of the breeds and less dissatisfaction when the awards are made. It is not an old exhibitor and breeder who finds fault, but the new one—the one who is not thoroughly familiar with the requirements.

The last season was a revelation to me. We have never met and rubbed elbows with a jollier, more optimistic and easier-to-please set of people than those we met at all the fairs and shows at which it was our pleasure to officiate. We find that as the years go by many of the traditions, many of the jealous sore spots, and many of those things which were common in shows have been left behind. An era of good fellowship among exhibitors and visitors has begun. Hereafter there will be larger and better exhibits, a better understanding and a more harmonious working together which will bring better results. Everyone is interested in better and more poultry. And no one is more interested than the farmer. This billion dollar industry must and will succeed and be placed at the head or be kept next to the head where it now is. Topeka, Kan. John C. Snyder.

Hay for baling should be thoroughly dry and free from mustiness.

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Let me explain how to do it. I have this information all illustrated and printed in a nice little circular that I will be glad to send you free of cost. As President of the Kansas State Poultry Federation it is a part of my duty to furnish you this information. Send me your name and address plainly written and I will send it to you by return mail.

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Early Chickens Are Best

Those who wish to raise stock for early fall and winter laying should hatch as many chicks as can be cared for safely during March, April and May.

Your success will depend upon the vigor of your breeding pen. Cocks mated to pullets and cockerels to hens is the usual and best plan.

If a hen is set in February do not put more eggs under her than she can cover easily, because the outer eggs will get chilled.

I make my brooders from 1/2-inch material, using a box 18 by 18 inches by 8 inches high and tacking a piece half as high as the brooder across each inside corner, thus making it as round as possible.

The Prize Winners

The \$2.50 prize, for the best letter telling how to keep 100 hens on an acre of ground, was awarded to Mrs. Pearl Peebler, Pomona, Kan.

weather. I make an opening for the chicks to go through on one side. The opening is about an inch from the bottom.

As soon as the chicks are dry put them in the brooder, placing one of the little blankets over their backs. Place something over the little door to keep them from falling out as they crowd to the light.

When the chicks are 48 hours old I give them a little feed and then tuck them in their nest again. Do not shut them in, however. If they persist in coming out, hold your hand over the opening for a minute and they will quiet down.

Making the Hens Get Busy

One of the important secrets in getting winter eggs is not to let your hens huddle in a bunch on the south side of shrubbery, or the hen house, to keep warm.

We try to give the hens a rabbit once or twice a week for meat. We also save scraps, potato peelings and anything a chicken will eat, add some grain and a handful of salt and cook this all together and give it to the hens fairly hot.

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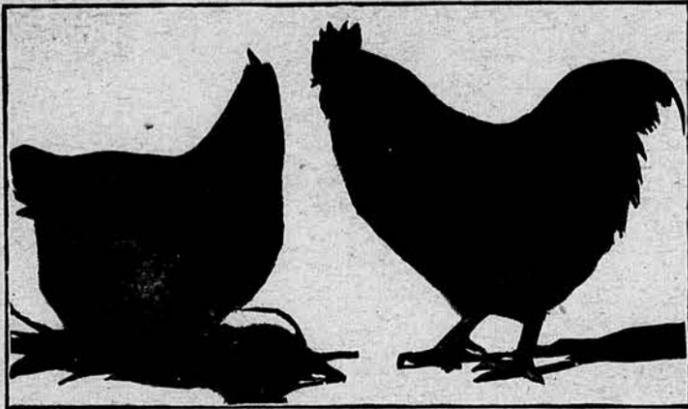
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Hen Business No Theory Now

Scientific System and Common Sense at Overlook Farm

BY CHARLES S. LUENGENE
Topeka.



Orpingtons Raised at Overlook Farm

POULTRY raising is no longer a theoretical problem. To be successful, we must confine our efforts to a system with scientific methods. We must have good equipment, not expensive, as well as a good breed of chickens, that is to say a vigorous, healthy flock, so that at laying time, the hens do justice to the egg basket, and at hatching time we can hatch strong chicks.

We try to get our chicks hatched from February 15 to May 15. By so doing, our stock starts laying in November and continues to lay through the winter. By February, every hen on the place is laying, and we can also depend on getting setters. Our early show birds are hatched a few weeks earlier, so as to be fully matured by August and September fairs. For the later shows, we use our later hatched birds.

To fill the egg basket the feeding and watering are important. From November till spring, the chickens are mated and penned in comfortable quarters, with scratching sheds, which average 10 square feet to the bird. A litter of straw at least 8 inches deep is put on the floor and changed once a month. When the birds are on the roost at night, just after it gets dark, we scatter a scratch feed of 3 parts cracked corn, 3 parts wheat, 3 parts kafir, 1 part oats and 3 pounds of sunflower seed to 100 pounds of grain. The object of throwing it into the litter at night is that as soon as the birds are off the roost in the morning, they go to work digging out their feed. By so doing, they don't stand around and wait for their feed and become chilled. Chilled hens will not lay eggs.

Shell and grit should be before them all the time. A dry mash put in pans or hoppers will be relished about noon. We make our mashes of 3 parts bran, 1 part ground oats, 1 part meat meal, 1

part alfalfa meal, 1 part cornmeal and 1/2 part oil meal.

For green feed, we have a patch of rye, and when the weather is agreeable, we gather a 3-gallon pail full to every 50 birds. When the rye is covered with snow, we give them a feed of alfalfa.

They enjoy the change and don't seem to tire of rye as they tired of sprouted oats.

We give warm water in drinking vessels not less than three times a day, and then just what they will consume, so as not to have water left over. We always empty the vessels at night when we scatter the feed in the litter.

Hatching the Chicks.

Hatching of strong chicks must be kept in mind at all times, so when you mate your pens, or your flock, the first consideration is the males. If you are breeding for show purposes, or to improve your stock don't expect to do it with \$2 birds. So many persons will write a breeder quoting the standard to him, and think him unreasonable if he asks more than \$3. A breeder cannot afford to sell good breeders for \$2 or \$3, and the sooner this is understood the more and better poultry they will raise. For instance: A man wrote to me a month ago in regard to getting a good male bird. He explained his troubles in this way: "My pullets have so much white in wings and the males are white in hackle, wings and undercolor." I advised him to select his very best type and colored females, pen them off and get a male of good type and strong buff color. I priced him a bird of that description at \$7. He immediately declared my price too high. He had been breeding from \$2 male birds, and all he received was \$2 quality. Don't expect to grade up a flock of Buff Orpingtons with \$2 birds. I contend that when a

breeder pays from \$5 up, he should receive a fair bird, and when he pays \$2 or \$3 he must always consider the price and the quality to expect.

At Overlook Poultry Farm we caponize all cull cockerels, so we don't have to ship out that class of cockerels. By so doing, we swat the rooster and turn him into \$2.

Baby chicks in the winter are what prove valuable to a breeder when he gets them through safely. This in itself is a science. We handle our baby chicks in the brooder house and all the heat we supply is from a sheet-iron stove or log burner. It is no trouble to heat this house on the coldest days.

This is where the setters are valuable. We try to set two or three hens when we start the incubator, and when the hatch comes off we give the chicks to the hens, which are placed in exhibition coops, with a 4-foot run or platform built in front of them, at least 3 feet off the floor.

On cold days we start the log burner to take the chill off the room. The chicks run and scratch on the platform, and when they become chilly, they go to the mother hen, who is always ready to care for them.

We have had some success with the capons in caring for chicks. We don't use any other method in caring for and raising chicks in the winter. This is the natural way of raising them, and the best way we know. Too much heat is detrimental to the health and progress of the chicks, as is too much cold or damp air. Cool, fresh air without drafts is very essential in the brooder house. When it becomes too cool, the chicks know when to seek the mother hen.

At this writing, we have about 100 fine husky chicks, all doing well, and two incubators running. From these very early chicks, we expect to pick our birds for the early shows.

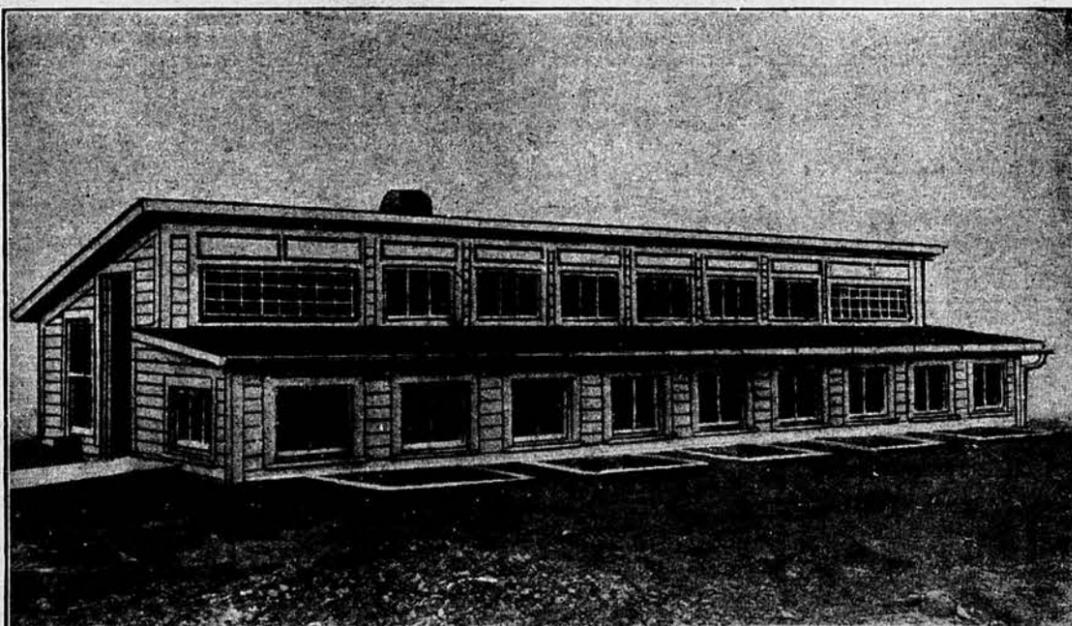
An Ambitious Pullet

I have 22 Leghorn pullets. They were hatched in an incubator May 21, 1914, and laid their first egg October 3, 1914. They laid 183 eggs in December. They lay in all kinds of weather. One of these pullets hatched a strong and healthy chick from one of her own eggs 209 days after she herself was hatched. These pullets receive only ordinary care. Atlanta, Kan. E. E. Drake.

Not Fatal

Fond Mother (proudly)—"An' do ye no think 'e looks like 'is faither?"
Sympathetic Neighbor (cheerfully)—"An' niver ye mind thot, Mrs McCarty, so long as 'e's 'ealthy."
—Harvard Lampoon.

Of course the breeding has a lot to do with the gait of a colt, but a well-bred colt, if harnessed at first with an old, slow-walking horse, will form the habit of a slow walk.



This Brooder House and Incubator Cellar Has Proved the Most Valuable Asset to Overlook Poultry Farm. One Thousand Chicks Are Produced Here Every Year, Beginning January 1.

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ASSOCIATED MANUFACTURERS CO.
221 MULLAN AVE. WATERLOO, IOWA

The Penciled Runner Ducks

BY GERTRUDE MILLS,
Sabetha, Kan.

The original English penciled Runner ducks, dark fawn and white, are known as "Cumberland Runners" because first sent out from the county of Cumberland, England.

This is the white egg stock that the Cumberland club has been trying to introduce. The natural colors are fawn and white, the female having fawn plumage penciled with white, while the drake has almost a solid shade of fawn with bronze-green head and rump.

When the Runners first came to America they won prizes wherever shown, but about twelve years ago their progress was interrupted. Foreign blood was introduced to produce a lighter shade of fawn. It was a great mistake to do this, for it did not improve them as layers to be crossed with an inferior egg-producing duck. They lost much of their carriage and shape when crossed with other breeds, and for this reason you see few light fawn and white Runners with good carriage and type. Runners were a new breed in the United States and it was not generally known that the light fawns were not true Runners, and they became the fashion.

As a good producer of eggs, the Runner deserves all her popularity. The best Australian and New Zealand egg records were made by these ducks. A public official record made at an Australian agricultural college was for three successive years reported as an average of 200 to 217, without meat. One pen made an average of 199 in 10 months. In the Cambridge duck egg-laying test six penciled birds from 4½ to 5½ months old when entering the contest, and moulting twice during the year, made a total of 1301 eggs for the year.

The Cumberland White Egg Runner club has succeeded in getting the penciled Runner admitted to the American standard of perfection with the club's own standard of color. Next year's shows will see lively competition in the penciled Runner class.

Prepare Now For Costly Eggs

If farmers wish to benefit by the high prices that eggs are certain to bring next fall and winter, they should begin to get ready at once, say the poultry specialists in the United States Department of Agriculture. The way to have eggs late in the year is to hatch pullets early. It is the early hatches from which the early pullets are derived that are the largest money makers for the poultry producer. The early hatched cockerels can be marketed in almost any market when they attain a weight of ¼ of a pound to 1½ pounds, which they should reach at about 6 to 10 weeks of age, respectively. The early hatched pullets, if properly grown, should begin to lay in the fall at the time when eggs are scarce and high in price.

A Few Facts to Remember.

Pullets must be well matured before they will lay many eggs.

Pullets that start to lay in the fall before cold weather sets in will, as a rule, lay all winter.

It is the early hatched pullets that produce eggs in the fall and early winter, when prices are high.

February, March, and April are the months to do your hatching in order to secure early hatched pullets.

Yearling and 2-year-old hens do not lay many eggs in the fall, as they are molting at that time, and the feed they consume goes not only to keep up the energy and life of the birds but also to put on or grow a new coat of feathers.

In properly matured pullets all surplus energy beyond that needed to meet the requirements of the body is available for the production of eggs.

Write the Secretary of Agriculture, Washington, D. C., for free bulletins on poultry management.

Grow Birds That Are Large

The first essential in breeding turkeys of any variety is strong, large-boned, vigorous parent stock. No matter how much we admire plumage if the individual is not healthy it has no place in the breeding yard. Turkeys, until they reach two months of age, are delicate enough without breeding low vitality.

Both male and female turkeys should have long, deep bodies, with broad arched

backs. Birds that have large, round breasts and stout shanks standing well apart always give satisfaction. I have found that turkeys having a coarse voice invariably breed large specimens. Even if the individual is not above average size he has come from massive stock and will breed large. Use large hens with a medium big tom. I prefer extra size in the hens rather than the males, but both as large as good breeding will admit.

If you overfeed a turkey on fat producing foods you soon kill the bright, glittering effect and the plumage takes on a dull hue. Overfeeding will quickly ruin the best flock. J. C. Clipp.

Squabs For Fun and Profit

BY JENNIE E. STEWART.

Any boy or girl who can have an attic, or even a small corner from the loft over the barn, woodshed, carriage house or garage, may rear a few squabs and derive much fun and not a little profit from them.

Squabs are young pigeons that have arrived at the age when they are plump and round, and before they learn to fly or grow feathers. Each pair of pigeons will rear, on the average, six pairs of squabs in a year. They sit two weeks on the eggs and the squab should be 4 weeks old when marketed. They should be sold dry picked to private customers, who buy them by the pair or the dozen according to the number in the family. Hotels in large cities often will contract for them, and take them by the dozen. Private families sometimes contract for a pair or two pair once a week for Sunday dinner. You may have to work up a trade by carrying your birds from door to door at first, or telephoning to prospective customers. Squabs sell at from \$3 to \$4.75 a dozen.

The best breeds to raise are the Homers crossed on some of the big breeds such as Maltese, Mondaines or the Runts. Have the female of one breed and the male the other and always have as many males as females.

Old birds should cost not more than 25 cents to 30 cents apiece.

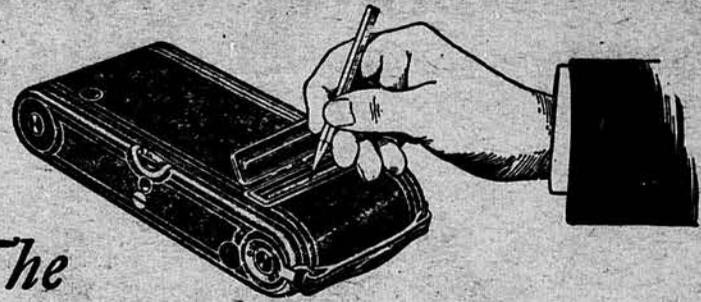
You should have a hole cut in the gable end of your loft, about four inches square, for each pair. A box should be nailed over it inside the loft for the nest. A lighting board should be nailed outside, just beneath the holes. The birds are allowed their liberty unless you live in the closely settled part of a large city. The side of each nest should be made so it can be let down for you to clean out the box occasionally. The birds feed their own young. They should be allowed access to the loft on stormy days, and if you do not have all the loft for your use, screen off your portion with chicken wire netting. In here you may keep all the feed and provide water for their drink.

Pigeons eat corn, wheat, oats and about anything chickens will eat. They need some sharp gravel every day. Old pigeons do not sell so well as squabs and always should be shipped alive. Unless you raise a great many squabs you will do better to sell to a private trade of your own than you will if you try to ship. If there is a summer hotel near you, say not more than 30 miles away, you may be able to get their regular order by mailing them a pair of fine squabs for a sample, quoting your price and telling them about how many you can furnish.

Perhaps You Know

"Begorra," observed Pat, "making love to a widow is a quare thing to do. Before ye begin ye know what the end will be, and yet ye're scared that maybe somethin'll happen. Ye make up your mind it's no use tryin' and thin ye discover ye've gone so far ye can't back out. It's full of disappointments and hopes, and in the end comes the greatest surprize av all whin just what ye expected happens."

Don't Send Money Just send names of six incubator users and get FREE our valuable book, "Poultry Troubles." This book is by an expert on poultry diseases and gives particular attention to the much dreaded Roup and White Diarrhea, describing the cause, also giving simple, practical home treatment by which they may be prevented. Address Lamoni Remedy Co., Dept. L41, Lamoni, Iowa.—Advertisement.



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Atlas Farm Powder is made especially for the farm. It costs little and works wonders in clearing land of stumps and boulders, breaking up the subsoil, tree planting, ditching and draining. It saves labor, time and money.

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is here. The time to make all the housedresses you will need for the season—and the children's dresses, aprons, waists, etc., for the spring term of school. Send to the Big Store for samples of gingham, percales and white goods—we will give you good lines to select from and you will find the qualities and prices so satisfactory and our mail order service so prompt and efficient that you will become our permanent customer.

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Used every day for post and stump puller—lifting jack—hoist—wire stretcher—splicer—vise—clamp—wrench—cider press, by farmers, mechanics, teamsters, etc.

Automatic Combination Tool
Lifts or pulls 3 tons—10 days' free trial—1 year guarantee. Worth price 12 times—saves cost of 11 other tools. Agents make big money. No experience needed. Write today.
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Makes, in the ditch, continuous tile 150 feet per hour. Cement tile laid 8 to 30 ft. apart. Will sub-irrigate garden and orchard from well in dry season. No more failures. One size machine \$15.
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No farmer should part with the right kind of a brood mare—whether she is of heavy draft breed or the light-harness type.

Wheat Prospects Only Fair

BY OUR CORRESPONDENTS.

Prospects for the coming wheat crop are very encouraging, in some parts of Kansas, but the usual report is that the wheat does not look nearly so well as it did a year ago. The snow and rain that have fallen lately will help to put the crop in better condition. It is not at all impossible that the harvest this year will be as rich as the one last year. There seems to be a general determination among the Oklahoma farmers who have grown cotton, to cut down the cotton acreage and plant other crops. The man who grows only one crop, it does not matter whether it is cotton or wheat, is handicapped seriously.

KANSAS.

Lane County—Snow is about gone, and it left some moisture for the wheat. Stock doing well, and prices high. Wheat \$1.32; corn 55 cents; corn 65 cents.—F. W. Ferrigo, Jan. 30.

Cheyenne County—Has been cold and stormy for 10 days. Plenty of feed, and stock is doing well. Wheat \$1.37; corn 65 cents; eggs 22 cents; butter 20 cents.—E. D. Kyle, Jan. 30.

Woodson County—Stormy again today. Weather has been snowy and very cold for two weeks. Cattle doing fine. Corn 68 cents; eggs 27 cents; hogs \$6.56 a hundred.—E. F. Opperman, Jan. 29.

Nemaha County—The weather continues cold and stormy. Five inches of snow on the ground, and no farm work is being done. Feed is plentiful. Stock is looking well.—C. W. Ridgeway, Jan. 30.

Jackson County—Six inches of snow February 1. No frost in ground and snow is fine for wheat. Farmers are selling their hogs because of high price of corn. Wheat \$1.30; corn 72 cents.—F. O. Grubbs.

Rice County—Lots of snow and cold weather in the last two weeks. It has been raining for the last 16 hours. Feeding cattle high, hogs low, and no market to speak of for horses.—E. L. Partington, Jan. 30.

Labette County—We are having gloomy weather. The ground has been frozen for two weeks, but the rain we had last night soaked it thoroughly. Wheat \$1.30; oats 50c; corn 80c.—Wilbert Hurt, Jan. 30.

Scott County—Wheat prospects are excellent. Most of the fat hogs of the county are butchered or sold. Many cattle have been shipped in from Kansas City to eat the surplus feed.—J. M. Helfrick, Jan. 30.

Marion County—Weather has been cold for the last few weeks. Some horses still have the distemper. Many farmers are moving. Roads are bad, but much wheat is being hauled to market.—J. H. Dyck, Jan. 30.

Sheridan County—Very cold and stormy. Fifteen below on January 22. Forty per cent of corn still in the field. Corn 68 cents; wheat \$1.25; potatoes \$1.00; eggs 26 cents; butter 20 cents. Horses cheap.—R. E. Patterson, Jan. 27.

Butler County—Light snow. Temperature stays 20 to 30 above. Stock doing well. Rough feed plentiful and cheap. Milk cows scarce and high. Corn 75 cents; oats 50 cents; eggs 29 cents; butter 25 cents.—M. A. Harper, Jan. 29.

Harvey County—East and west roads are badly drifted. Livestock doing well and wheat standing the weather first rate. Corn 70 to 72 cents; wheat \$1.32; butter 25 to 29 cents; eggs 27 cents; alfalfa hay \$8.—H. W. Prouty, Jan. 29.

Ness County—Frequent flurries of snow, but not much moisture. Wheat is in rather poor condition. Some corn to husk yet, and some kafir and feterita to thresh. Stock wintering in fine shape. No disease.—C. D. Foster, Jan. 29.

Graham County—We have had cold days, but no severe winter weather. Winter wheat does not look very well, but the moisture it has been receiving of late will help. Stock looks fine, and there is plenty of feed.—A. L. Kohler, Jan. 30.

Finney County—Have had a great deal of winter weather in the last month. We have not had a great amount of snow, but it has been cold. The wheat does not look so very well. Some alfalfa is being baled and shipped.—F. S. Coen, Jan. 30.

Barber County—Weather is favorable for stock but not wet enough for wheat. Wheat is all right so far. Hog feeding is not popular on account of 80 cent corn. Wheat \$1.35; corn 82 cents; kafir 78 cents; eggs 27 cents.—G. H. Reynolds, Jan. 29.

Republic County—The rain that is falling today will be very beneficial to the wheat. Public sales are not as numerous as usual. Hog cholera still is prevalent, and about the only hogs left are the ones that have been vaccinated.—E. Erickson, Jan. 30.

Cowley County—Weather is cool and cloudy, but there has been little rain or snow this year. In fact little moisture has fallen in the last three months. Stock looking well. Wheat prospects not very encouraging.—L. Thurber, Jan. 29.

Russell County—Cool, cloudy and damp weather. Some snow on the ground. Not much wheat going to market now as roads are in bad condition. Stock doing well. Feed is a little scarce, but wheat pasture helps.—Mrs. Fred Claussen, Jan. 30.

Osborne County—Cold and cloudy with no moisture to speak of. Stock of all kinds doing well. Plenty of roughness to feed till grass comes. Wells are getting low. Not many hogs left in the county. Horse buyers are numerous.—W. F. Arnold, Jan. 29.

Wabaunsee County—The weather has been cold, cloudy and snowy. Ice houses are all filled. Ice is from 8 to 12 inches thick. Stock is doing well. Alfalfa is from \$7 to \$9 a ton; prairie hay \$6 to \$8; wheat \$1.30; corn 70 cents.—Henry Leslie, Jan. 30.

Pottawatomie County—A heavy sleet and rain is falling today, but the ground still is covered with snow. This is protecting the winter wheat, which is in fine condition. Corn 75 cents. Many farmers are buying at that price to feed.—S. L. Knapp, Jan. 30.

Riley County—We are having lots of snow, and it is drifted in places. No stock are

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suffering, and we have plenty of feed and shelter. Some horses are being sold, but the price is rather low. A few farm sales, and things bring good prices.—P. O. Hawkins, Jan. 30.

Chautauqua County—There has been some snow here, but no rain. Have been having some very mild days. Threshing small grain is keeping the farmers in this county busy. Gardens are being prepared for early planting. Farms for rent are scarce.—F. B. Manly, Jan. 23.

Atchison County—Very cold weather has prevailed for most of the month. The ground is covered with snow, and ice houses are being filled with 10-inch ice. Those who have wheat and corn are holding for higher prices. Local millers are paying \$1.35 for wheat.—C. H. Feerer, Jan. 25.

Decatur County—Have had about 15 inches of snow. There is plenty of feed, and stock is doing well. Have heard no complaint about wheat being damaged, and think it is in good condition. A great many farmers are holding some of last year's crop. Wheat \$1.32; corn 70 cents; hogs \$6.—G. A. Jern, Jan. 30.

Ford County—East and west roads are in very bad shape since the last snowstorm. Outlook for a wheat crop is not very promising. Stock in good condition and feed plentiful. Everything selling well at public sales. Wheat is going to market at \$1.36 a bushel. Oats 61c; corn 80 cents.—John Zurbuchen, Jan. 30.

Hamilton County—Weather has been cold all month, but there has been less wind than for many years. Only light snows so far, and livestock is in good condition. Butter 25 cents; eggs 25 cents; hens 12 cents; cows \$75 to \$100. Many mules and horses are being bought by foreign buyers.—W. H. Brown, Jan. 28.

Osage County—Wheat is in good condition, but there is a small acreage sown. Much kafir and feterita will be planted next year. About 25 per cent of the corn and kafir is threshed. Water scarce. Ponds and wells are falling. Cattle are looking well, but few are being full fed. Rough feed is plentiful.—H. L. Ferris, Jan. 29.

Trego County—Weather has been too cold for wheat to come up. Some snow and sleet have fallen, but not enough to do much good. Stock is high and feed plentiful. Much wheat is going to market at \$1.28 to \$1.30. Oats 60 cents; corn 80 cents. A great deal of kafir, millet and feterita is not threshed yet.—W. F. Cross, Jan. 28.

Morton County—Some snow on the ground from the storm of January 15. The ground is wet down 22 inches. Threshing is not nearly finished. Some make crops south of the Cimarron river are making 70 bushels an acre, but the general average is not more than 50 bushels an acre. It is thought that threshing will last until April.—E. E. Newlin, Jan. 29.

OKLAHOMA.

Alfalfa County—Wheat is injured in parts of the county, because of dry weather. Wheat \$1.40; hogs 6 cents; butter 22 cents; eggs 27 cents.—J. W. Lyon, Jan. 29.

Canadian County—This is just like a spring morning. We have had cloudy weather for most of the week, but no moisture. Fat hogs \$6.60; cattle \$7.75; wheat \$1.30; oats 50 cents; potatoes 80 cents; farm hands \$25 a month.—H. J. Earl, Jan. 30.

Harmon County—Cotton is almost all out. Wheat does not look so very well, and has furnished no pasture yet. Yearling calves \$25; cotton 4 1/2 to 7 1/2 cents; eggs 17 1/2 cents; butter 20 cents. No hogs selling. First wind storms January 10.—R. R. Grant, Jan. 24.

Lincoln County—Fine winter weather. Farmers busy getting ready for spring work. The price of seed oats is high. Wheat is growing nicely. More attention is being given to poultry, livestock and vegetables. In fact anything to eat looks good now.—J. B. Pomeroy, Jan. 30.

Garvin County—Farm work is beginning again. Persons who held cotton are selling at 8 1/2 cents. There will be a diversity of crops planted here this year. Corn 75 cents; hogs 6 cents; hay \$5 to \$10 a ton in the stack; eggs 30 cents; butter 25 cents; kafir \$1.55 cwt.—Lon Wilson, Jan. 30.

Payne County—There was very little falling weather this year until January 26, when there was a 10 inch snow over most of the county. Feed is plentiful and stock is doing well. Wheat looks fine. Corn 75 cents; wheat \$1.20; oats 50 cents; kafir 55 cents; cotton seed \$20 a ton.—F. F. Leith, Jan. 30.

Grady County—This part of the state is getting rather short of moisture. We have a fine stand of wheat, but it is making slow growth. Ground is being prepared for oats and other crops. There will be more than an average acreage of oats sown, and the cotton acreage will be reduced.—Sam C. Hefner, Jan. 28.

Washington County—We are having real winter weather, with the mercury going down toward nothing. Stock doing well, and have plenty of feed. Wheat fields covered with snow. Some plowing done for spring crops. Prices of hogs and cattle low. Wheat \$1.30; corn 65; oats 50.—J. M. Brubaker, Jan. 30.

Pottawatomie County—Nice open winter so far. Some plowing done. Large crop of oats will be sown this spring. Cotton crop will be short. Alfalfa hay as well as other feed is much cheaper this spring than last. Corn 75 cents; oats 50 cents; potatoes 75 cents; eggs 30 cents; butter 20 cents; hogs \$6.50.—L. J. Devore, Jan. 28.

McIntosh County—Many persons are cutting wood. Some are moving now. More plowing is done than usual at this date. We still feel the depression caused by low cotton. Wheat acreage is increased 500 per cent. Oats acreage will be large, and corn will be increased. Cotton will be cut to 75 per cent.—H. S. Waters, Jan. 28.

Grant County—Weather is dry with an occasional light fall of snow. Wheat is alive 3/4, but is not making a growth. Cattle are on dry feed. Some plowing for oats is being done, but the ground is very dry. Even shots have been put on the market, because of the low price for hogs and the high price of feed.—A. C. Craighead, Jan. 28.

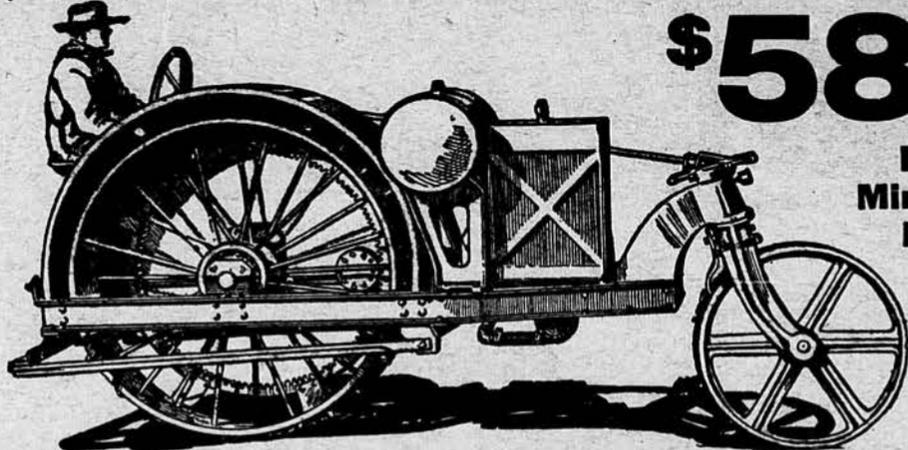
Blaine County—We had nice weather in January, and a great deal of plowing was done. Many farmers are moving, and getting ready for spring work. No many sales now. Grain is selling for excellent prices; cows \$50 and up; hogs rather dull. Wheat is all right, but does not amount to much for pasture. Seed oats 60 cents; corn 75 cents; kafir 65 cents; potatoes \$1; hens 12 cents.—Henry Willert, Jan. 30.

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Motor—2 cylinder type, 5 1/4 inches by 7 inches. Cooling—water system, forced circulation by centrifugal pump. Crank Shaft—drop forged, double heat treated. Diameter 2 3/4 inches. Connecting Rod and Bolts—drop forged, carbon steel, double heat treated. Tensile strength, 100,000 lbs. to sq. inch. Carburetor—Standard Kingston model. Magneto—Kingston high tension, shaft driven. Wheel Base—8 feet 11 inches from center to center of wheels; between wheels, 3 feet 11 inches; overall length, 13 feet 11 inches; overall width, 6 feet 5 inches. Steering—Semi-irreversible worm and gear arrangement. Governor—flyball type, enclosed in bath of oil. Fly Wheel—heavier and perfectly balanced. Clutch—contracting band type with the largest possible amount of contact surface. Transmission—drop forged, all shafts rigidly held in their bearings. Only 4 gears on Bull No. 3. "Bull" gear—sectional drop forged.

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Lorimer of the Northwest

(Continued from Page 26.)

What followed I did not hear, but by-and-by a voice broke through the confused murmuring: "It's a deal!" An individual scribbling in his pocket-book moved toward a writing table. Then the detective stepped forward, beckoning to me.

"Sorry to spoil trade, but I've saved your check, gentlemen," he said. "That stock's stolen. Thomas Gorst and other names, Will Stephens, and Thomas Fletcher, would you like to glance at this warrant? No! well, it's no use looking ugly, there are men at either door waiting for you. This is a new trick, Stephens, and you haven't played it neatly."

"Euchered!" gasped the little man, while the other scowled at me. "Confusion to you! In another hour I'd have been rustling for the Great Republic. Still, I guess the game's up. Don't be a mule, Fletcher; I'm going quietly."

He held out his hands with a resigned air, but when, amid exclamations of wonder, another officer appeared mysteriously from somewhere to slip on the handcuffs, Fletcher hurried a de-canter into his face and sprang wildly for the door. He passed within a yard of where I stood. I could have stopped him readily with an outstretched foot or hand, but I did neither, and there was an uproar as he plunged down the stairway with an officer close behind him. The detective saw his other prisoners handcuffed before he followed, and though he said nothing he gazed at me reproachfully. When we stood at the head of the stairs he chuckled as he pointed below.

"Your friend hasn't got very far," he said dryly.

It was true enough, for in the hall a stalwart constable sat on the chest of a fallen man who apparently strove to bite him, and I saw that the latter was Thomas Fletcher. I had clearly been guilty of a dereliction of the honest citizen's duty, but for all that I did not like the manner in which he said, "Your friend."

We returned to the station, and later in the day I entertained Robertson and Heysham with the best luncheon I could procure, when for once we drank success to Number Forty in choice vintages.

"I can't sufficiently thank you, Heysham," I said when we shook hands. "Now, advise me about those cattle; and is there anything I can do for you?"

"Enjoyed the fun," was the answer, "and you gave me a free passage to Winnipeg. I didn't do it for that reason, but if you like to leave the disposal of those beasts to Ross & Grant, highest-class salesmen, promptest settlements, I shall be pleased to trade with you. Sorry to intrude business, but after all I'm a drummer, and one must earn one's bread and butter—see?"

I had much pleasure in agreeing, and Ross & Grant sold those beasts to my complete satisfaction and Jasper's as well, while that was but the beginning of a profitable connection with them, and an acquaintance with Heysham, who was from the first a friend of Aline's and is now sole partner in the firm. Still, though I returned to Fairmead with the proceeds, satisfied, it transpired that Thomas Fletcher was not yet past doing me a further injury.

ON THE GOLD TRAIL

NOTHING further of moment happened for a time. Fletcher, protesting his innocence, lay awaiting trial with his accomplices, and I had been warned that I should be called on to give evidence, which I was unwilling to do; and, after consulting a solicitor, I endeavored in the meantime to forget the disagreeable affair. Then one morning, when the snow lay thick on the shingles, and the creek in the ravine was frozen almost to the bottom, the fur-wrapped postman brought me a letter from Harry.

"I have only good news," it ran. "We have piled up beams and stringers ahead of contract, and sold a number of logs a snow-slide brought us at a good profit, ready for floating down to a new sawmill in the valley. That, however, is by the way. As you know, Johnston has quartz reefs on the brain, and now fancies he is really on the track of one. There have been rumors of rich gold west of the Fraser, and one of our prospecting friends came in almost snow-blind with promising specimens. Nothing will stop Johnston, and I'm bitten myself, so the fact is we're going up to find that gold. Of course, it's the wrong time; but there'll be a rush in spite of that. In short, we want you, and I managed to secure this railroad pass."

I showed Aline the letter, and she said, "Why don't you go? I can stay with the Kenyons; they have often asked me. It would be splendid, wouldn't it, if you were to find a gold mine?"

I nodded rather gravely. Gold mines worth developing are singularly hard to find, and when found generally need a large capital to work them, while the company financier gets the pickings. The steady following up of one consistent plan more commended itself to me, and prospecting in mid-winter would try the strength of a giant. Still, if my partners were bent on it they would naturally expect me to humor them in the matter, and there was a hope of seeing Grace, so I answered:

"I wish they had never heard of it; but, if Mrs. Kenyon will take care of you for a few weeks, I must go."

Aline was evidently prepared to bear my absence philosophically, and, perhaps because one of Mrs. Kenyon's sons was a handsome stripling, she spent all the day sewing, while I gathered up my belongings and rode over to interview that lady, who had lately come out from Ontario, and professed herself delighted to receive my sister. Thus it happened that one morning before daybreak I stood beside a burdened pack-horse with a load of forty pounds strapped about my shoulders, outside a log shanty, ready to strike out into the snow-bound northern wilderness. Johnston, who was in high spirits, held the bridle of another horse, and Harry whistled gaily as with the assistance of a prospector he strapped a heavy collection of sundries upon its back, while the owner of the shanty watched us with a fine assumption of pity.

"Lots of gold up yonder! Well, I guess there is," he said. "But maybe you'll get mighty tired before you find it, and this isn't quite the season to go sloshing round glaciers and snow-fields. Don't I wish I was coming? Can't say I do. Go slow and steady is my motto, and you'll turn more gold out of the earth with the plow than you ever will with the drill, and considerably easier, too. There's another outfit yonder ahead of you, and a third one coming along. Look in this way if you come back hungry."

Johnston smote the pack-horse, and there was a clash of rifles, axes, tin pans and kettles as we moved off into the forest, which was free of undergrowth here.

"That was a sensible man," I observed. "Harry," I can't help feeling that this gold hunting is not our business, and no good will come of it."

"Then you needn't say so," Harry answered shortly. "If I were troubled with old women's presentiments I should keep them to myself. The man we have with us knows the country well, and from what the other half revealed we ought to find something. I'm wondering who got up the other expedition, unless it's Ormond. The Day Spring is doing even worse lately, and the Colonel has gone down to Vancouver to raise fresh funds or sell it to a company, which would be rough on the company. Your uncle and your cousin are wintering there."

This gave me food for thought, and I trudged on, dreamily noticing how the tramp of feet and the clatter of metal broke through the ghostly silence, while half-seen figures of man and beast appeared and vanished among the trunks, and the still woods seemed listening to our march. I knew that in the old days the feet of a multitude had worn trails through these ranges as they pressed on toward the treasure of Cassiar and Caribou, and that the bones of many were strewn broadcast across the region into which we were venturing. Perhaps it was because of the old Lancashire folklore I once had greedily listened to, but I could not altogether disbelieve in presentiments, and my dislike to the journey deepened until Johnston's voice rose clearly through the frosty air: "There's shining gold in heaps, I'm told, by the banks of the Sacramento."

The rest was the usual fore-castle gibberish, but, and it may have been that our partner being born with the wanderer's spirits could give meaning to the immemorial calling that speaks to the hearts of the English through the rude chanteys of the sea, something stirred me when the refrain rose up exultantly, "Blow, boys, blow, for California, for there's shining gold and wealth untold on the sunny Sacramento."

"Where did he learn the trick of it?" said Harry. "There's certainly nothing in the words, and yet that song takes hold. I dare say many a poor deserter devil has marched to his death to it. The seamen came up with the vanguard when they found gold in Caribou. Wake up, and ring it out, Ralph. A tribute to the fallen. 'Hey ho, Sacramento!'"

I have heard that chantey since. On certain occasions Harry brings out its final chords on the Fairmead piano with a triumphant crash that has yet a tremble in it, and each time it conjures up a vision of spectral pines towering through the shadow that veils the earth below, while above the mists the snow lies draped in stainless purity waiting for the dawn. Then I know that Harry, who is only a tiller of the

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soil, had learned in the book of nature to grasp the message of that scene, and interpret it through the close of a seaman's ballad.

The full story of our journey would take long to tell, and a recital of how we struggled through choked forests, floundered amid the drifts in the passes, or crawled along the icy rock-slope's side, might prove monotonous. We left the ashes of our camp-fires in many a burnt brulee and among the boulders of lonely lakes, but though, after one pack horse fell over a precipice, provisions ran out rapidly, we failed to find the gorge the prospector talked about; or rather, because the whole land was fissured by them, we found many gorges, but each in succession proved to be the wrong one. Then we held consultations, and the prospector suggested that we should return and try again in the spring, to which Harry agreed. Johnston, however, would not hear of this, and said with a strange assurance:

"I suppose it's the gambler's spirit, but I've gone prospecting somewhat too often before, and if one only keeps on long enough the luck is bound to turn. This time I seem to know it's going to. Still, I'll fall in with the majority. Ralph, as head of the firm you have the casting vote."

Then, and I always regretted it, I said: "We should never have come at all. No sensible person goes prospecting in mid-winter; but, being here, we had better spend three days more. That means further reduced rations, but if we find nothing by the third noon we'll turn back forthwith."

The others agreed, and on the second night we lay in camp in a burnt forest. We were all tired and hungry, and—for Johnston was silent—a melancholy settled down upon the camp, while I lay nearly frozen under two blankets, watching a half-moon sail slowly above the fretted ridge of firs. At last Johnston spoke:

"Tomorrow is the fatal day. Ralph has the look of an unsatisfied wolf; you are hungry, Harry; we are all hungry, and such is mortal man that at this moment my soul longs more than all things for even the most clementy flapjack that ever came out of a camp cook's frying-pan. Still, I'm not going home 'returned empty' this time, and fragments of a forgotten verse keep jingling through my head. It's an encouraging stanza, to the effect that, though often one gets weary, and there's an end at last. It would be particularly nice if it ended up in a quartz reef, that paid for the stamping, especially when one might square up some of one's youthful misdeeds with the proceeds. Ever heard me moralizing, Ralph? The question is whether one can ever square the reckoning of such foolishness."

"I haven't thought about it," I answered, remembering how when Johnston harangued the railroaders' camp, banjo in hand, he would mix up the wildest nonsense with sentiment. "But it's an axiom, isn't it, that a man must pay for his fun, and if you will go looking for gold mines in winter you can't expect to be comfortable."

"He hasn't thought about it," said Johnston. "Ralph, all things considered, you are a lucky individual. What can man want better than to win his way to fortune, and the love of a virtuous maid, tramping behind his oxen under clear sunshine down the half-mile furrow, looking only for the harvest, and sowing hope with the grain. There's a restfulness about it that appeals to me. Some men are born with a chronic desire for rest."

"I don't think you were among them," I answered irritably; "and there's precious little rest in summer on the prairie," but Johnston continued:

"I too loved a virtuous maiden, and, stranger still, I fancy she loved me, but unfortunately there was one of the other kind too, and the result thereof was as usual—disaster. I've been trying to remedy that disaster—did you ever wonder where my dividends went to? Well, there is a reason why I'm anxious to find a mine. If we do, I'll tell you the sequel. Otherwise—and things do happen unexpectedly—there's a leather case in my pocket, and in case of accident I hope my partners will act on what they find in it. Perhaps some one in England would bless them if they did."

He ceased, and some time later a vibratory monotone commenced far up under the stars, gathering strength and volume until it rolled in long pulsations down the steep ranges' side.

"It's more common in spring," remarked the prospector, "but some ice bridge has busted under pressure, and the snow is coming down. There'll be most astonishing chaos in the next valley."

(TO BE CONTINUED.)

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When the chicks are 24 hours old they will need water. I use toothpick holders for their drinking vessels as they can neither get their feet in the holders nor scratch their feed into them, as they do with shallow vessels. They also will need a little charcoal and coarse sand scattered on the floor of the brooder. If paper is spread on the floor of the brooder it will help to keep the cold out in very cold weather and the floor will be easier to clean.

When the chicks are 48 hours old they should have their first food which should consist of millet seed and pin-head oats, scattered in a litter of cut straw on the floor of the brooder. They should be fed every two hours, what they can clean up in about 15 minutes. Their feed may be changed occasionally, giving them a variety such as boiled eggs, cottage cheese, corn bread or fresh meat, but great care should be taken in feeding meat as too much will give them bowel trouble. Boiled sweet milk given once or twice a day will prevent bowel

We are not here to legislate for any section nor for any political party, but for the whole state, and "log rolling" and "swapping votes" and "playing politics" must have no place in our program. Nor should our time be frittered away in unimportant local legislation in which the great body of the people have no interest. We must be sure that our appropriation bills are free from the taint of the "pork barrel."—From Governor Capper's Message to the Kansas Legislature.

trouble. Oats can be grown in boxes in the house, and cut up fine for the chicks.

When the chicks are 3 weeks old they should have charcoal, grit, bran and ground bone all the time. They should have plenty of water. If the eggs from which the chicks are hatched are from healthy, vigorous hens, there should be little trouble in raising the chicks. **Ottawa, Kan. Mrs. Emma Arnold.**

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We had to buy all the feed used the first nine months of the year and the last three months we used the feed we raised. The feed for the 67 old chickens, and what young ones we raised, cost \$92.91. The chickens which we began with cost \$33.50 at market price so we had a total of \$126.41 invested. The amount received for chickens and eggs during the year was \$89.08; amount of chickens and eggs used at home, \$43.40; amount of chickens now on hand at market price, \$102.00. Therefore, the total amount received or on hand was \$234.48. My clear profit was \$108.07.

I have the Barred Plymouth Rocks, and Professor Sanborn of the Oklahoma Experiment station said it was as fine a flock as he had seen in the state. I expect at least to double my profit this year. I have begun hatching now and have an incubator set with 135 eggs and will set one with 240 eggs in a few days. I expect to run several incubators during the spring. I will sell day old chicks, and eggs for hatching. There always is a demand for my eggs and chicks. **Mrs. L. A. Wright.**

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A recent number of one of the leading magazines contained a very interesting article about the effect of the war on the agriculture of England. It told of the effort being made there to bring an increased area under cultivation. The big demand for food at the increasing prices has shown how important it is that production should be increased.

This same movement applies to almost as important an extent in Kansas, although the farmers of the state are not so quick to see it as the farmers of Europe. No matter what occurs to the war in Europe, the price of food-stuffs will be above normal for some time. The war has clearly shown the importance of increasing production from Kansas farms. There are two leading ways to do this, one is to increase the returns from the acres that now are used, and the other is to make more land productive.

A very high proportion of land in Kansas is not productive; it is making either no return at all, or the returns are so ultra-microscopic that they do not give a profit after the expenses are paid. Most of this soil is capable of giving a good return if it is managed rightly—the land owner can get a profit if he will study the best methods of management, and then apply these.

The low yield of grass obtained from many pastures in Kansas is a very important source of loss. Production can be greatly increased from most of the grass land if the principles of good management are used; these are so old that all farm boys know them. Do not overpasture the land; mow the weeds in the summer; pick up the rocks and put them in a ditch that is starting to wash, and sow the bare spots to some good tame grass adapted to your section. Most farmers in the East have found that it pays to apply barnyard manure to pastures; one of the men in Kansas who is doing this is R. J. Linscott of Holton, the noted breeder of purebred Jerseys.

Another very important source of loss that is not properly appreciated is the blackjack hills of southeastern Kansas, take parts of Woodson and Wilson counties as examples. It is true that blackjacks make fairly good fuel, but that is all they are any account for, and they grow so slowly that it does not pay to produce them for this purpose. Most of the land in blackjacks in Kansas represents a distinct economic loss, which needs to be stopped. This can be brought about by removing this growth, and putting this land to a more profitable use.

A great deal of this land can be farmed profitably. Even where it cannot, however, on the especially rough or poor land, grass or clover can be grown. It would be hard to find poorer blackjack land than that on the sandstone-formed soils east of Toronto, for example, and yet that soil will grow profit-producing grass and clover crops if it has a chance. There is so much of this blackjack land that it would take many years to clean it all out even if the owners were making a decided effect to get rid of this growth—which most of them are not doing. The aim ought to be to reduce this acreage as rapidly as possible.

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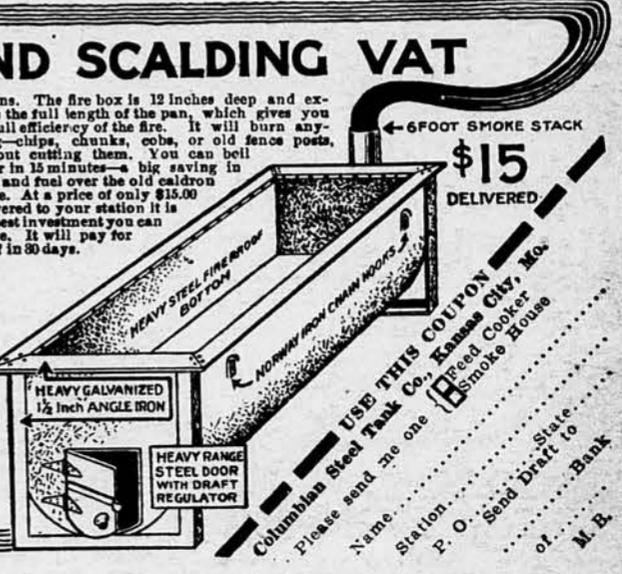
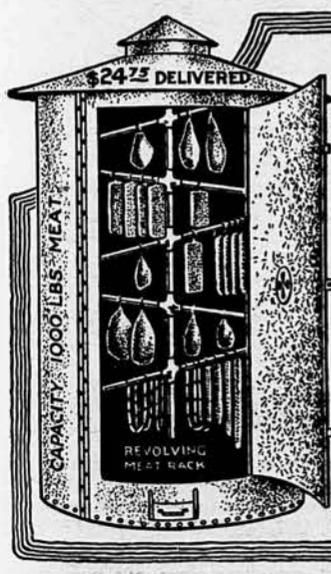
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Brooding Chicks With Hens

This Is a Simple and Easy Method, and Is Very Generally Used on the Average Farm

SUCCESSFUL natural rearing of chickens requires convenient facilities, regular attention, and often tries one's patience. Artificial methods require a larger investment, close attention, and more care, but are more commonly used where large numbers of chickens are raised. Many poultry keepers who are able to get good egg yields and fair hatches make a failure of brooding chickens. Brooding is still in the experimental stage, and no one system has given perfect satisfaction.

Darkened Nests.

Sitting hens should be confined to slightly darkened nests at hatching time, and not disturbed unless they step on or pick their chickens. If the hen gives this trouble the chickens should be removed as soon as dry, in a basket lined with flannel or some other warm material, and kept near a fire until all the eggs are hatched. Or the eggs may be removed and placed under a quieter hen whose eggs are hatching at the same time. An incubator may also be used to keep the earliest hatched chickens warm, in case they are removed from the nest. If the eggs hatch unevenly, those which are slow in hatching may be placed under other hens. This is desirable as hens often get restless after a part of the chickens are out, allowing the remaining eggs to become cooled at the very time when steady heat is nec-

essary. Great care should be taken, however, not to get too much grease on the chickens, as it will stop their growth and in some cases may prove fatal.

The brood coop should be cleaned at least once a week and kept free from mites. If mites are found in the coop, it should be cleaned thoroughly and sprayed with kerosene or crude petroleum. From 1 to 2 inches of sand or dry dirt or a thin layer of straw or fine hay should be spread on the floor of the coop. Brood coops should be moved weekly to fresh ground, preferably where there is new grass. Shade is very essential in rearing chickens, especially during warm weather. The coops should be placed in the shade whenever possible. A cornfield makes fine range for young chickens, as they get many bugs and worms and have fresh ground to run on most of the time, and have abundant shade.

Mark all the chickens before they are transferred to the brooder or brood coop, so that their age and breeding can be readily determined after they are matured. Farmers frequently keep old hens on their farms and kill the younger hens and pullets, because they are unable to distinguish between them after the pullets have matured.

The Winter Hatch.

Chickens hatched during the winter should be brooded in a poultry house or shed while the outside weather conditions are unfavorable. After the weather becomes settled, they should be reared in brood coops out of doors. Brood coops should be made so that they can be closed at night, to keep out cats, rats, and other animals, and enough ventilation should be allowed so that the hen and chicks will have plenty of fresh air.

The hen should be confined in the coop until the chicks are weaned, while the chickens are allowed free range after they are a few days old. Where hens are allowed free range and have to forage for feed for themselves and chicks, they often take them through wet grass where the chicks may become chilled and die. Most of the feed the chicks secure in this manner goes to keep up the heat of the body, whereas feed eaten by those that are with a hen that is confined produces more rapid growth, as the chicks do not have so much exercise. In most broods there are one or two chicks that are weaker than the others, and if the hen is allowed free range the weaker ones often get behind and out of hearing of the mother. In most cases this results in the loss and death of these chicks, due to becoming chilled. If the hen is confined the weaklings can always find shelter and heat under her, and after a few days may develop into strong, healthy chicks.

The loss in young chicks due to allowing the hen free range undoubtedly is large. Chickens frequently have to be caught and put into their coops during sudden storms, as they are apt to huddle in some hole or corner where they get chilled or drowned. They must be kept growing constantly if the best results are to be obtained. They never entirely recover from checks in their growth even for a short period.

The New Red Book

Agriculture, horticulture, mining, manufacturing, livestock, irrigation and general industrial conditions of Colorado, New Mexico, Utah, Nevada and California are ably featured in the annual review number of the "Railroad Red Book" the official monthly publication of the passenger department, Denver, & Rio Grande—Western Pacific, which has just been issued. The governors of Colorado, Utah, Nevada and California have contributed articles on the 1914 progress and future outlook of their respective states. General write-ups of every important section along the line of these railroads have been carefully compiled and an editorial forecast of business indications for 1915, as expressed by the leading daily newspapers in the Rocky Mountain and Pacific Coast regions, teems with interest and optimism.

We must strengthen the merit system and extend it to all branches of state and county government. We shall never attain an efficient nor economic government until offices large and small are removed from the hands of spoilsmen. I urge the enacting of a civil service law so explicit and so strong that no partisan official will dare evade it, basing all rewards, promotion and salaries solely on merit, on loyalty and industry in the public service.—From Governor Capper's Message to the Kansas Legislature.

Remove the egg shells and any eggs which have not hatched, as soon as the hatching is over. Hens should be fed as soon as possible after the eggs are hatched, as feeding tends to keep them quiet, otherwise many hens will leave the nest. In most cases it is best that the hen remain on the nest and brood the chickens for at least 24 hours after the hatching is over.

Hens often are used to raise incubator-hatched chicks and to take the place of the artificial brooder. A few eggs are put under the hen four or five days before the incubator is to hatch. In the evening following the hatch of the incubator, after the chickens are thoroughly dry, one or two are put under the hen, and if she is found to mother them properly, the next evening as many more are added as she can brood or care for properly. Hens will successfully brood 10 to 15 chickens early in the breeding season, and 18 to 25 in warm weather depending upon the size of the hen. This method of handling chickens does away with the artificial brooder, and where one has only a small number of chickens to raise it is a very easy manner in which to handle them. In adding chickens to a hen which already has some to brood, it is best to add those of the same color and age as the ones already with her, as the hen often will pick the later arrivals if they are of a color different from the ones she already is brooding. As a rule this transferring should take place at night, although with a quiet hen it can be done in the morning.

Powder and Dust.

Powder the hen before moving her and the chickens to the brood coop. The hen should be dusted every two weeks, or as often as necessary, until the chickens are weaned. If lice become thick on the chickens, a very little lard or vaseline, may be applied to the head, neck, under the wings, and around the

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Making a Success With Hens

If you wish to raise poultry for eggs alone you should select the smaller breeds, but if you wish general purpose birds you should select the larger breeds. At the experiment station in Missouri last season a few of the larger breeds showed remarkable egg yield.

The locating and building of houses is a very important matter in poultry raising. Select an elevation having a natural drainage away from the buildings. The buildings should face the south as they will be warmer and drier, and sunlight and warmth are essential to success in raising chickens. It is not necessary to build expensive houses, but they should be fairly roomy, well lighted, well ventilated and without drafts. Where you wish to keep several hundred fowls I think it best to have several houses with sheds so as not to have more than 60 or 75 to a house. A house about 10 by 12 feet is a very good size. The floors may be of cement, wood or earth. Earth floors are excellent provided they are kept dry. Cement is considered by some to be the best floor.

The buildings should be whitewashed inside twice a year, with lime and crude carbolic acid, using 1/2 pint of the acid to 1 gallon of the slaked lime. Mites inhabit cracks and crevices of the walls and roosts during the day and for that reason it is well to go over the roosts several times during the summer with the same solution. The houses should be sprayed quite often with disinfectants. Houses that have earth floors can be sprinkled with wood ashes as well as slaked lime. The straw in the nests should be changed every 3 or 4 weeks. Sprinkle plenty of wood ashes or well slaked lime in the nests before putting the straw in. Watch your sitting hens closely. When mites begin to bother them, their combs will be pale and their eyes look weak. I sprinkle insect powder in the nests quite often, with good results. The droppings should be removed once a week or oftener.

To be successful in raising chickens it is necessary to have healthy and vigorous stock to begin with. The lack of

vigor in the newly hatched chicks is often traced to weak parents. Only the most vigorous and best grown fowls should be put in the breeding yards. I do not think best to keep hens over 4 years old. I prefer hens from 2 to 3 years old. Cull out the underweights and keep nothing but the best. Fresh water should be plentiful at all times. Wash or scald the drinking vessels quite often during the warm weather. Keep plenty of sand, grit and charcoal before the flock. I use a small bit of copperas, about the size of a pea, to one gallon of water and it keeps the liver in condition and is a preventive for bowel trouble.

Roup is cured easily, if noticed in time, with flowers of sulphur. Put the diseased fowl away from the others and give one teaspoon of dry sulphur twice a day. In a few days the sores that were at first noticeable in the mouth will be healed and the fowl can be turned loose.

I think it is best to start in the poultry business in the fall as poultry can be purchased cheaper than in the spring, and during the winter months a person has a better chance to arrange for summer work. To insure good hatches one cockerel should be kept for every 10 or 12 hens.

During the winter I feed my fowls a good feed of kafir in the morning and in the afternoon I give them a warm cooked feed of some kind, corn chop or ground kafir mixed with oats, or something of the kind. I give them some meat scraps occasionally and some kind of poultry powder. For green stuff during the winter it is well to sow all the available lots to wheat or rye in September and keep the fowls off until it gets a good start. Alfalfa is fine for poultry. Put out plenty of onions and cabbage. They are fine to feed during the winter and can be kept easily. Give plenty of warm water in the winter. Feed plenty of sour milk as this provides

the hens with protein which is very essential for laying hens.

Chicks can be hatched the old way or with the incubator. Both ways require close attention if you expect good results. During February or March I never put but 13 eggs under the hen, but in April and May when it is warmer I put 15. I use A shaped coops without floors for the chicks and I am careful to remove the coops every few days to a clean place. Chicks do not require food until they are 24 hours old. I have fed kafir the last two years and the chickens have had no white diarrhea. I do not think that corn chop is good for little chicks. I feed the ground kafir until they are about 5 weeks old, then I feed whole kafir. Corn can be fed when the chicks are 3 or 4 months old. There is great danger in overfeeding. Three times a day is often enough. Keep plenty of pure water and sand where the chicks can get it.

Mrs. H. P. Dingus.

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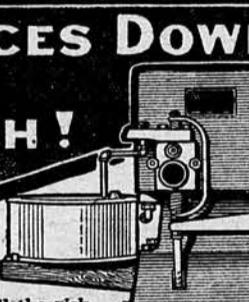
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NORTHEAST Kansas farm bargains. Write for list. Compton & Royer, Valley Falls, Ks.

LAND in Nemaha, Marshall, Pottawatomie Cos. \$30 and up. T. E. Rooney, Seneca, Kan.

FARMS and ranches, northeast Kansas, \$35 to \$125 acre. Geo. Loch, Marysville, Kan.

CATHOLIC communities a specialty; send for list. C. F. Fouquet Inv. Co., Andale, Kan.

IMP. FARM Pottawatomie Co. \$35 per a. Write me. O. H. Martin, Severy, Kansas.

FREE! Illustrated booklet describing richest Co. in Kan. Hoosey Land Co., Columbus, Ks.

240 A. finest Kaw Valley bottom land. Imp. Easy terms. J. M. Conlan, St. Marys, Kan.

A BARGAIN. 480 a. close in; good land. Impr. Terms. J. F. Voran, Belpre, Kan.

FREE LISTS of Ness County grain, stock and alfalfa land. Fine land at \$10 to \$15 per a. Easy terms. West, Ransom, Kan.

COFFEY COUNTY, EASTERN KANSAS. Good alfalfa, corn, wheat and tame grass lands. List free. Lane & Kent, Burlington, Ks.

ITS \$9250.00—185 acres, well improved, 3 miles Mound Valley. Free gas. 1700 rods hog tight. J. P. Donahue, Mound Valley, Kan.

TWO Lyon County bargains, best of alfalfa land; easy terms. Possession March 1st. Write for description. Box 104, Allen, Kan.

MUST sell three well improved Kansas farms before March 1st. Get descriptions, locations, prices. Melvin Smeltz, Durham, Kan.

268 A. farm; 65 a. in alfalfa and clover, 30 a. prairie meadow, bal. pasture; good 6 room house; barn 50x50; granary. Price \$35 a. Terms. Write "Sewell," Garnett, Kan.

440 ACRES meadow or grazing land, good grass, living water; good fence. 2 miles railroad, Pottawatomie County, Kan. \$25 an acre. A. A. Murray, Westmoreland, Kan.

FOR SALE. One of the best 240 acre farms in Reno County, Kan. 2 mi. from good town. Soil black, sandy loam; level; good improvements. Close to school, R. F. D., etc. 200 a. now in crop. Write owner, M. G. H.—173, Capper Bldg., Topeka, Kan.

FOR SALE. Choice alfalfa farm, improved, near railroad. Price low; terms easy. Tate, Howard, Kansas.

FOR BARGAINS in improved farms in Catholic settlements. Exchanges made. Write Frank Kratzberg, Jr., Greeley, Kansas.

HARPER COUNTY, Kansas. First class land, \$30 to \$45 per acre. Write us now. J. E. Couch Land Co., Anthony, Kansas.

GOOD, smooth wheat and alfalfa lands at \$15 to \$25 per acre. Write for price list, county map and literature. Floyd & Floyd, Ness City, Kansas.

TWO FARMS for sale; 80 acres 5 miles out, \$3200. 160 acres 2 miles out, \$6400. Easy terms, good improvements, good land. Write Guss Schimpff, Burns, Kansas.

FOR SALE. 640 acres improved ranch. 120 a. cultivation, bal. pasture. 75% tillable. Living water. Will consider income property for part purchase. Price \$25 per a. L. E. Pendleton, Dodge City, Kansas.

3120 A. IDEAL RANCH—Adjacent to Ness Co., Kan. In compact body; 90% tillable; 1,000 a. bottom alfalfa land; rich soil; 600 a. in cultivation. Two sets imp. Can lease 3,000 a. joining. Abundance water. Price \$20,000, terms. For particulars address C. F. Edwards, Ness City, Kansas.

148 ACRES 5 miles of Cherryvale, Montgomery Co., Kan., nearly new improvements consisting of 9 room house, all piped for natural gas; good cement cistern, good outside stone cave, plenty of good shade around house, some fruit; large barn, cost \$650 to build and other outbuildings; two good wells of water; about half in cultivation; balance in pasture and mow land. A fine stock and grain farm. Price \$4500. Mortgage \$2500 long time at 6 per cent. Oakleaf & Hill, Cherryvale, Kan.

80 A. WELL IMPROVED, fine location, 3 1/2 mi. Ottawa. Natural gas for fuel. Will sell with \$2500 down. 160 a. 2 mi. Princeton, Kan., nicely improved. Close to high school. Price \$9000. Easy terms. Possession at once if wanted. 120 a. 3 1/2 mi. Ottawa, well improved. Will be sold at bargain. These are special bargains and are priced worth the money. Owners do not want to rent them. Write for full description or come at once. Mansfield Land Co., Ottawa, Kansas.

NOW IS THE TIME to get more land; prices will advance. Have you small farm? We have good deals on larger farms in E. Kan. Write what you have and want. Iola Land Co., Iola, Kan.

EASTERN KANSAS 136 a. imp. lays well, \$40.00. 80 a. improved, lays well, \$35.00. Exchanges made. T. K. Brockett, Pleasanton, Kan.

KIOWA COUNTY Land bargains. Write for descriptions. Several of my own farms; can make terms to suit. C. W. Phillips, Greensburg, Kan.

\$3,000 Cash, Balance Time Buys a fine improved quarter 3 1/4 mi. Cherryvale on auto road. Best black land; 110 a. cult. Plenty water, free gas; new 9 room house, barn, good outbuildings. \$10,000. Bowman Realty Co., Owner, Coffeyville, Kan.

80 Acres Only \$750 Only 4 mi. Wichita; good smooth black loam soil; plenty bldgs.; possession; only \$6000; only \$750 cash, time on bal. R. M. Mills, Schweitzer Bldg., Wichita, Kan.

SMOOTH FARM FOR SALE 160 acres smooth land near Colony, Anderson Co., Kansas, 80 acres hay, 80 under plow, good soil, small house and barn. Is offered at a snap, only \$5,000; no trade. Address J. F. Ressel, Owner, Colony, Kansas.

Chase County Farm 160 acres 3 miles from Saffordville and 12 miles from Emporia. 125 acres fine land under cultivation, balance meadow, pasture and some timber. 25 acres in alfalfa. 200 ton silo, 7 room house, stable, etc. Daily mail, telephone. \$11,000.00. Terms on half. No trade. J. E. Bocoek & Son, Cottonwood Falls, Kan.

MIAMI COUNTY, KANSAS 160 acres, 54 miles of Kansas City, 11 miles of Paola, 3 miles of Fontana and Beagle. Good deep black soil. Every acre good tillable land. 80 acres good alfalfa land, balance best corn and wheat land. Good 7 room house. One-eighth mile of school. Owner must have money and will sacrifice this farm. LETCHWORTH & BERRY INV. CO., 1120 Commerce Bldg., Kansas City, Mo.

Sedgwick Co. Farm Bargains 120 a. farm, 7 room house, barn; smooth good land; fine location. \$65 per a. \$2500 handles. 240 a. farm, good house, large barn; valley land, 40 a. in alfalfa; 2 large silos; near Wichita. \$75 per a.; this will suit you. 1600 a. ranch; best of grass, well watered and fenced; improved; only 4 miles to R. R. town, 3,500 people. \$28 per a. 40 a. alfalfa land; 3 miles of Wichita. This snap \$100 per acre. H. E. Osburn, 227 E. Douglas Av., Wichita, Kan.

FOR SALE OR EXCHANGE EXCHANGES, all kinds; free list. Foster Bros., Independence, Kan.

SEND US YOUR TRADES. We match 'em. Southwest Land Co., Fairplay, Mo.

7 CHOICE imp. farms encumbered; want clear stuff for equity. Tate, Howard, Kan.

IMPROVED farms and ranches. City property for ex. Fugate Land Co., Lawrence, Kan.

WRITE for my large sale and exchange list. Jess Klsner, Garden City, Kansas.

150 A. 1/2 mi. town; good list trades. Southeast Land Exc., B. B. Adams, Thayer, Kan.

TO TRADE 160 a. bottom land, all tillable, imp. Youngs Realty Co., Howard, Kan.

CHOICE Nemaha Co. land. Catholic settlement. Sale or ex. J. B. Wood, Seneca, Kan.

CHEYENNE CO., Neb., lands for sale and exchange. Write for free booklet. H. C. Casselman, Lodge Pole, Cheyenne Co., Neb.

A FINE 500 acre ranch, 60 miles from Topeka, to trade for smaller place. Theo. Voeste, Olpe, Kan.

TRY BIGHAM & OCHILTREE, they sell and trade farms and property. 116 N. 8th St., St. Joe, Mo.

480 A. CLEAR; highly imp. Want Iowa, Ill., or Missouri farm. Will assume as much as \$15,000. W. C. Bryant, Elk City, Kan.

CITY AND TOWN PROPERTY TAKEN as part pay on GOOD FARMS. What have you? Address The Allen County Investment Co., Iola, Kan.

CLEAR INCOME, for Pawnee or Hodgeman Co. land. Dwelling and business building, in Little River, Kan., value \$10,500. Bremyer, McPherson, Kan.

FINE STOCK AND DAIRY FARM. 230 acres in Elk County, Kan. Well located, fine improvements, up-to-date, a wonderful bargain. Owner wants town property or smaller farm. Hunter Bros., Independence, Kan.

FOR SALE OR TRADE. No. 3 Austin Stone Crusher, 25 H. P. Engine with tools and equipments. Owner died, otherwise would not sell. Ray Smith, Stillwater, Okla.

DON'T BE A WORM

You might get caught—be the early bird and come to Garden City. I want to show you good land in a practically undeveloped country where opportunities abound. If you can't buy, I'll trade—what have you? R. B. Wadsworth, Garden City, Kansas.

ALFALFA FARM FOR SALE

480 acres one mile to Meade, Kansas, 110 a. seeded to alfalfa, 15 a. wild hay, 70 a. plow land, balance good farm land and in pasture. 12 a. in grove, 7 room house plumbed hot and cold water, bath and toilet, barn 24x100, 100 foot cattle shed, cow barn, granary, tenant house and other buildings. Four artesian wells, 250 a. valley land. Crops the past year, 250 tons hay, 75 bu. alfalfa seed, 1100 bu. barley, 300 kafir, 100 feterita, besides other crops. Price \$55.00 per acre, some terms. This will stand the closest investigation. Write J. A. Denslow, Meade, Kansas.

OKLAHOMA.

FOB LISTS and prices N. E. Okla. farms, write Elliott & Mabrey, Fairland, Okla.

SPECIAL Oklahoma bargain list free. Some trades. Write Harvey Cox, Hooker, Okla.

F. M. TARTON & CO., will mail you list of farms in northeast Oklahoma. Write them. Vinita, Oklahoma.

EASTERN OKLAHOMA lands are now selling fast. If you are interested in this productive country and want to know more about it write The Craig-Mayes Realty Company, Big Cabin, Oklahoma.

320 A. prairie pasture; good sod; 2 miles city, this county 3000. Good water, 50 a. tillable. \$6.50 per a. Terms. Write us about 1200 acres, all prairie, 1/4 tillable. Southern Realty Co., McAlester, Okla.

REAL FARM BARGAINS—I own or hold under option; several of the best farms in this state, 50 to 640 acres each, and can sell these lands at a most reasonable figure, with a very small cash payment down, balance easy terms. C. H. Brown, 306 State Bank Building, Oklahoma City, Okla.

OKLAHOMA LAND FOR SALE

Good land in Northeastern Oklahoma, which was part of the old Indian Territory, price from \$20 to \$35 per acre. Write for price list and literature. Agents wanted. W. C. Wood, Nowata, Okla.

CALIFORNIA

THE SAN FRANCISCO FAIR is bringing thousands of people to the Sacramento Valley. Do not miss seeing our magnificent fruit tracts on the famous Bidwell Ranch. Here is an opportunity to invest in prunes, peaches and almonds, grown on the finest soil, a garden loam. Our land is located within a mile of a city of 18,000 people. Write for literature. Bidwell Orchards, Inc., Chico, California.

FOR SALE OR EXCHANGE

TO TRADE FOR MERCHANDISE—Two farms, 320 acres each, in good neighborhood, well located, both well improved, good quality land, one mile from church and school. Will trade clear or carry part on land. Address Chas. W. Ellsasser, Liberal, Kansas.

FOR EXCHANGE. Two of the very best lines of implements and machinery repairs—small stock on hand, good opening for hardware in connection. Will sell at a sacrifice, or trade for small Kansas farm or western Kansas unimproved. C. N. Bunds, Hanston, Kansas.

Buy or Trade with us—Exchange book free

Bersle Agency, Eldorado, Ks

FOR EXCHANGE

Improved half section not far from Wichita for hardware. H. C. Whalen, 413-14 Biting Bldg., Wichita, Kansas.

For Sale and Exchange

Northwest Missouri, Iowa and Nebraska choice farms; the greatest grain belt in the United States. Get my bargains. M. E. Noble & Co., St. Joseph, Mo.

For Sale or Trade

160 acres irrigated land in the famous health giving Pecos Valley, New Mexico, in the heart of and under the Carlisbad government project, bordered by line of trees, half mile from station, land unexcelled; no half mile but otherwise finely improved. 110 acres in alfalfa. Sell all or half. Price \$19,500 long time. Might consider part trade. Address owner, S. Webster, Carlisbad, N. M.

Paying Income Property For Farms

If you have a farm for sale or one you will trade for improved Kansas City properties, it will pay you to come in and see us, or write us regarding what you have to sell or trade. We can furnish the best of references and don't know of a single dissatisfied customer. We also have cash customers for farms if prices and locations are satisfactory and want good farms in Mo., Kan., Neb., Col., Okla., Ark., or Texas. THEODOR C. PELTZER INV. CO., 534 Searritt Bldg., Kansas City, Mo.

MISSOURI

WRITE Bedell & Co., Springfield, Mo., for prices on grain, stock and dairy farms.

STOP! Listen! 120 acre Impr. farm \$900. Other farms. McGrath, Mountain View, Mo.

CHOICE Vernon Co. prairie farms, Easy terms. \$20-\$60 a. W.H. Hunt, Schell City, Mo.

83 A. close town; spring, house, barn; 20 a. cult. \$650. Other bargains. McQuary, Seligman, Mo.

40 ACRES 4 miles Lebanon, 30 a. apple orchard; house, 6 rooms, Stable, etc. Price \$1600. Stillwell Land Co., Lebanon, Mo.

FRUIT and timber, clover and bluegrass land, \$10 to \$25. Write for lists. South Missouri Land Co., Mountain View, Mo.

IF YOU WANT farms or stock ranches in the Ozarks of Missouri, write A. J. Johnston, Mechts. Nat'l Bank Bldg., Springfield, Mo.

WHITE RIVER CLUB sites on lake. Farms, ranches, city property; mineral, fruit, poultry land. White River Realty, Branson, Mo.

480 A. STOCK RANCH, Estancia Valley, N. M. Valley land, well imp., \$9,600. Near R. R. Want income. F. M. & C. G. Morgan, Springfield, Mo.

POOR MAN'S CHANCE. \$5 down, \$5 monthly buys 40 acres good land and timber; near town. Healthy location; Southern Missouri. Price \$200. Box 36, Excelsior Springs, Mo.

ATTENTION, FARMERS. If you want a home in a mild, healthy climate with pure water and productive soil and where land can be bought at a reasonable price write Frank M. Hammel, Marshfield, Mo.

120 ACRE FARM, high level, 75 a. clear; rest good timber; 100 fenced, 60 a. winter oats and wheat; orchard; 5 room house; good different buildings; finest location, 1/4 mile town, R.R. switch, joining farm. Owner too old to work. Take \$24 per acre; 1/2 cash, Rest to suit. F. Gram, Naylor, Mo.

ARKANSAS

J. C. PINKERTON, the land man, Green Forest, Ark. Write for information.

ARKANSAS farms, all sizes, Healthy. Prices right. J. C. Mitchell, Fayetteville, Ark.

LITTLE RIVER valley lands rich and cheap. On railroad. Robt. Sessions, Winthrop, Ark.

\$375 BUYS improved 80 a. fruit and grain farm close in. Leslie Land Co., Leslie, Ark.

WRITE YOUR WANTS for Arkansas lands. W. B. Lane, Hope, Ark.

SPRINGDALE—Best part of Ozarks. Free lists. Fredricks, Springdale, Ark.

240 A. 5 mi. of Berryville, highly improved; \$30 a.; farm list free. Dept. B, Esslinger Agency, Berryville, Ark.

WRITE for land list and tell us just what you want to buy or trade. Horton & Company, Hope, Arkansas.

IF INTERESTED in N. E. ARKANSAS farm and timber lands, write for list. F. M. Messer, Walnut Ridge, Ark.

25,000 ACRES fine farm, stock land, cheap. Northern colony. Cash or long time. Free map. Tom Blodgett Land Co., Little Rock, Ark.

FRUIT, grain and stock farms, all sizes, in Benton Co., Ark. Banner county of state; low prices and easy terms. Gentry Realty Co., Gentry, Benton Co., Ark.

FOR SALE, twenty 40 acre tracts, improved and unimproved, located in the famous Judsonia strawberry district, Judsonia, Ark. Write for full particulars. J. G. Howard, Little Rock, Ark.

345 ACRES; 75 acres fenced and 30 in cultivation; two sets of improvements and located in the heart of stock raising district; price \$10 per a. Write for list of bargains. Arkansas Investment Co., Stuttgart, Ark.

HOMESTEAD YOUR FARMS in the Arkansas Ozarks. We locate you. Thousands of acres open to Homestead entry. New division of the Mo. & No. Ark. R. R. has brought this section in reach of markets, free range for hogs and cattle. Abundance of spring water. Send 25c for state map showing reserve and descriptive book giving number of acres in each county; also showing cheap lands or 50c which will include 5 months' subscription to the North Arkansas Traveler, a magazine devoted to homestead lands and development of N. Arkansas. A. Spels, Chief Engineer, Mo. & North Arkansas Colonization Co., Harrison, Ark.

COLORADO

CHOICE farm lands, Elbert County, near Llimon, \$8. Direct from owner. MUST SELL. T. H. Hagen, Board of Trade, Duluth, Minn.

FOR SALE, desert and homestead entries, improved, under ditch; near R.R. \$10 per a. In Logan Co., Colo. Wm. Tew, Sterling, Colo.

FOUND—Homestead near Ft. Morgan. 320 acres rich farm land, not sand. Price \$200, filing fees and all. J. A. Tracy, Ft. Morgan, Colo.

FOR BEST 320 ACRE HOMESTEADS with shallow water, see or write Warren Musgrove & Co., Lamar, Colo.

TEXAS

FARMS, ranches in Texas, Okla., Ark., Mo., Kansas direct from owners. To buy, sell or trade. Land Buyers Guide, McKinney, Tex.

YOU CAN OWN A FARM

With the rent you pay. Best land in famous corn and hog belt of Texas. Sold on rental terms. Crops the year round. T. Kingston, Harlingen, Texas.

353 A. PRAIRIE farming land; raise good corn, cotton, cane, vegetables etc. 1 1/2 mi. Hardin on Frisco. \$22.50 a.; 1st payment \$1000, will take it in hogs, bal. 1 to 4 years. E. W. Pickett, Liberty, Tex.

OWN YOUR FARM DON'T RENT

We have for sale two hundred thousand acres of good agricultural land located on the south plains in the Panhandle of Texas, price \$17.50 to \$22.00 per acre, you select your location, also your improvements, we build them for you adding cost of improvements to price of land, you pay \$2.00 per acre cash, \$1.75 per acre annually with 4% interest. Write us for further information. H. J. Newman & Co., Miami, Texas.

NORTH DAKOTA

BEST DEAL ON BEST SOIL in rain belt. Wadsworth, Langdon, N. D.

You Can Buy Land From Us and Pay For It in Crops

Financing Farm Purchasers. Why our plan is better than renting or homesteading; 1st, if you rent you are paying for a farm which you do not own; 2nd, homesteads now open for entry are mostly in arid regions, culled over, and too far from market and settlement to be desirable. Better to buy land on the CROP PAYMENT PLAN, near town, in midst of settlement and thrifty agricultural district, where corn, small grain, tame grasses and live stock are produced in abundance, where crop failures are unknown. Ask for particulars, stating in first letter, what you have in stock, finances and equipment for farming.

GREAT NORTHERN LAND & STOCK CO., 310 Commerce Bldg., St. Paul, Minn.

FLORIDA

A Home For Your Family Assured

Visit the famous Peace River District in Florida. Get one of our fruit and truck farms now in the midst of improved groves and truck farms. Close to town. Good Churches and Schools. Excellent climate. We deed the land to the heirs, without additional payment, if purchaser dies before completing payment. Write for particulars. Two excursions monthly. **PEACE RIVER GROVES COMPANY**, 5th Floor State Bank Bldg., Omaha, Neb.

Land Seekers Excursion

every first and 3rd Tuesday in each month to DeSoto County, Florida. Go with us and see this wonderful country and the great opportunities it offers the man of moderate means to get a home and independence. Write for our literature; it gives facts showing the advantage our lands offer the stockman, dairyman, farmer, winter gardener, fruit grower and poultryman. We do not ask you to buy this land without seeing 103 improved farms throughout the tract proving conclusively what it will do.

NEW HOME REALTY CO.

1307 Commerce Bldg. Kansas City, Mo.

NEW YORK

McBURNAY'S N. Y. Improved farms are worth twice the selling price of \$40 to \$75 per a. Send for free list. Address **McBurney & Co.**, Bastable Block, Syracuse, N. Y., or Western Office, 703 Fisher Bldg., Chicago, Ill.

OREGON

Oregon State Publications Free

1914-1915 Oregon Almanac, and other official books published by State Immigration Commission, telling of resources, climate and agricultural opportunities for the man of moderate means. Ask questions—they will have painstaking answers. We have nothing to sell. Address Room 107, Portland Commercial Club, Portland, Ore.

More Meat Animals Now

Wheat Prices Went to a New High Record Level Last Week

BY C. W. METSKER

THE annual estimate coming from the Department of Agriculture in Washington, says there are about 7 1/2 million more cattle, hogs and sheep in the United States, than a year ago. Beef cattle the report states, increased 1,212,000, hogs 5,685,000, sheep 237,000, and milk cows 525,000. No one connected with the cattle markets believes that beef cattle are as plentiful now as a year ago. There is some increase in calves, but cattle nearly matured, or old enough to be matured by short feeding are scarce. The government does not take into consideration the trend of events in the big surplus corn states. Neither does it allow for the large numbers of beef cattle slaughtered by the federal authorities because of the foot and mouth disease. Market supplies indicate increased numbers of hogs, but sheep are short.

Improved Cattle Prices Temporary.

While river markets reported improved prices last week, there is no evidence of a lasting quality in the advance. Chicago will be the determining factor in the next few days, and the quickness with which shipping demand is restored there will sound conditions in the West. Chicago is about due for a falling off in receipts of fat

cattle, however, and not until permanent decreases show there can the market be regarded as in a mending condition. Prices have touched the low levels of the season, and when improvement begins, there will be a substantial rally. Prime beefs are in the \$9 list, and the short fed to good steers are bringing \$7.25 to \$8.50.

Hog Market Unsettled Again.

Hog prices last week fluctuated 25 to 40 cents, and closed the week higher in the West and lower in the East. Shipping orders carried the balance in prices, and as they were filled principally at river markets, prices ruled higher after Tuesday. Chicago prices broke 30 to 40 cents on Wednesday and recovered part of the loss later. Receipts were liberal. The market price kept under 7 cents, and most of the time at \$6.50 to \$6.75. These prices are as low as packers expected to get them this month, and the general opinion is that the lowest point of the season has been passed. February prices may rule a little higher, but there is no occasion for advancing prices until the supply shows signs of diminishing. The continued advance in corn prices probably will force a large movement in February. Light weight hogs are bringing a premium over the heavier kinds, and usually the regular fat backs command a premium. Current receipts are yielding all the weight packers need, and butchers want light weights for fresh pork.

Sheep Market Getting Up Steam.

Sheep prices have fluctuated irregularly in the last few days, but closed the week in a strong position. The market is waiting for warmer weather, before it goes into new high positions for the year. Salesmen say that they expect lambs to sell above \$9 this month, and up to \$10 by the latter part of April. Cheap pork will cut a big figure in the mutton market, until all traces of cold weather are gone. Eastern reports state that domestic wool is nearly exhausted and English islands are sending their clip to the mother market. This practically cuts off the importations from Australia and New Zealand, and forces woolen mills to depend on the domestic clip of 1915.

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	23,275	61,600	36,000
Chicago	42,200	196,000	58,000
Omaha	19,000	77,000	53,000
St. Louis	19,100	83,500	12,200
St. Joseph	6,100	41,700	17,200
Total	115,675	459,800	176,400
Preceding week	126,600	358,925	157,600
Year ago	121,400	328,800	250,200

The following table shows the receipts of cattle, hogs and sheep in Kansas City thus far this year and same period in 1914:

	1915	1914	Inc.	Dec.
Cattle	133,723	126,387	7,337
Calves	4,915	8,694	3,179
Hogs	247,067	199,702	47,365
Sheep	141,418	159,087	17,669
H. & M.	15,502	11,717	3,785
Cars	9,308	8,287	1,021

Nothing But War Horses.

Though receipts of horses and mules at the principal western markets in January were the largest ever reported in any month there was practically only one outlet, that to the war zone of Europe. There has been no farm nor southern demand for six months. The East has bought no heavy horses since last July. It will not take long for prices to attain new high levels, if all these outlet sources begin to open to horses and mules at once.

Anybody May Guess in Wheat.

Another new high record price for wheat was made last week. The cash price has more than doubled since the first of the 1914 crop became available. It is a market in which there may be a crash in values, and yet there are many who believe the advance will continue. If growers continue to hold their wheat the price will go to \$2 a bushel before the 1915 crop is available. Exports of wheat in January were a record for the first month of the year. Reports of the condition of fall sown wheat will begin to have an effect on the market in the next few weeks.

Corn prices have followed wheat, and though receipts have been liberal, the supply was cared for. Export demand is a material factor in the market, and that outlet will continue. Oats are higher and selling readily.

Big Receipts of Hay.

More than 800 carloads of hay were sold in Kansas City this week. Distribution was to almost every state in the East and South. No important change occurred in prices, though the general tendency was stronger.

Feed and Seed Higher.

Bran, corn chops, shorts and sorghums were higher last week. Seed is higher in sympathy with the early demand for spring seeding. Seeding will begin in the South in two weeks and move northward as the weather permits.

Feed and Seed Quotations.

Kafir \$1.33@1.36; mlo maize \$1.32@1.33; barley 73c; bran \$1.13; shorts, \$1.28@1.40; corn chop \$1.43; rye \$1.19 1/2. Seeds—Alfalfa \$12@14; clover \$13.50@15;

timothy \$5.50@6.50; flax seed \$1.61@1.64; millet \$1.50@2.25.

Quotations on Hay.

The following quotations are for hay on the Kansas City market:

Prairie, choice	\$12.50 @ 13.00
Prairie, No. 1	10.50 @ 12.00
Prairie, No. 2	8 @ 10.00
Timothy, choice	16.25 @ 17.00
Timothy, No. 1	15.50 @ 16.00
Timothy, No. 2	13.00 @ 15.00
Clover mixed, choice	15.00 @ 15.50
Clover mixed, No. 1	14.00 @ 14.50
Clover mixed, No. 2	14.00 @ 14.50
Clover, choice	14.00 @ 14.50
Clover, No. 1	13.00 @ 13.50
Clover, No. 2	10.50 @ 12.50
Alfalfa, choice	15.00 @ 16.50
Alfalfa, No. 1	13.00 @ 14.50
Standard	11.50 @ 12.50
Alfalfa, No. 2	10.00 @ 11.00
Alfalfa, No. 3	8.00 @ 9.50
Straw	5.50 @ 6.00

The Broom Corn Market.

The broomcorn market seems to be drifting along with no special demand and only a small movement from the country. In less than six months new corn will be available. There is plenty of brush of the 1914 crop to carry the demand up to that time. Choice, green, selfworking corn is quoted at \$90 to \$100, fair to good \$60 to \$85, common to fair \$40 to \$55.

Butter, Eggs and Poultry.

Kansas City, Mo., Feb. 1.—Quotations on change were as follows:

Eggs—Extras, new white wood cases included, 29c a dozen; firsts, 27c; seconds, 17c.

Butter—Creamery extras, 29c a pound; firsts, 27c; seconds, 25c; packing stock, 20c. Live Poultry—Springs, 2 to 3 pounds, 14c; hens, No. 1, 13 1/2c; No. 2, 10 1/2c; young roosters, 11c; old, 9c; turkeys, hens, 16c; young toms, 15c; old toms, 14c; ducks 13 1/2c; geese, 10c.

Poultry on a Town Lot

I live in town and raise chickens. I have two lots fenced in and I use about half of the back yard for my flock. I have a garden in one corner of the yard and the remainder is taken up with houses, chickens and scratching pen.

I began with 21 hens and one rooster a year ago last fall and last summer I raised 300 chickens. As soon as a hen hatched her chickens I took them away and set her. I did not keep hens with the chicks. I put the chicks in coops at night. I had eggs for setting and all the eggs we wanted to use. There are six of us in the family, too.

From February, 1914, to December, 1914, I received eggs as follows: February, 159; March, 213; April, 148; May, 196; June, 130; July, 103; August, 181; September, 51; October, 31; November, 202; December, 117.

I keep my chickens in the house during bad weather. They have plenty to eat and drink all the time. My chickens are the Rhode Island Reds.

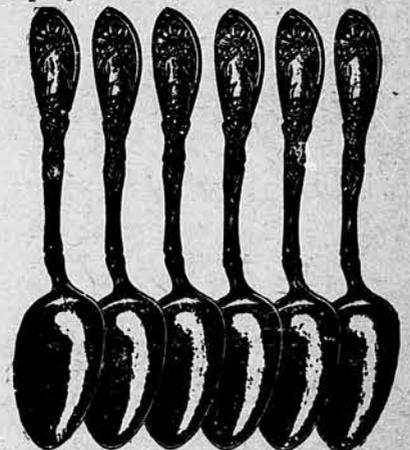
Mrs. Lillie Warren.

Bucklin, Kan.

Don't forget the grit. It is as necessary to a hen as water.

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 Company. 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.

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That's the title of our story of wonderful HARNEY VALLEY, EASTERN OREGON. 16 Fine Photographs of farms in the valley during the crop growing and harvesting Season of Nineteen Fourteen. It's a true to life story of the Northwest's last great agricultural valley, where the soil is rich, the climate ideal, the people progressive, good schools, high school, stores and good markets for crops.

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FARMERS CLASSIFIED PAGE

Advertisements will be inserted in this department for 5 cents a word each insertion for one, two or three insertions. Four or more insertions 4 1/2 cents a word each insertion. Remittances should preferably be by postoffice money order. All advertisements are set in uniform style. No display type or illustrations admitted under any circumstances. Each number or initial counts as one word. Guaranteed circulation over 110,000 copies weekly. The rate is very low for the large circulation offered. Farmers Mail and Breeze is the greatest classified advertising medium in the farm paper field. It carries the most classified advertising because it gives the best results. Here is a splendid opportunity for selling poultry, livestock, land, seeds and nursery goods, for renting a farm, or securing help or a situation, etc. Write for proof that it pays. Everybody reads these little ads. Try a classified for results.

POULTRY

PLYMOUTH ROCKS.

BUFF ROCKS—WILLIAM A. HESS, Humboldt, Kansas.

BARRED ROCK COCKERELS, \$1. F. C. Gerardy, Clay Center, Kan.

BUFF ROCK EGGS STOCK. A. R. OLMsted, Lawrence, Kan., R. 1.

BARRED ROCK COCKERELS \$1.00 EACH. J. L. Sutton, Lebanon, Kan.

WHITE ROCK COCKERELS \$1.50 TO \$2.00. C. E. Wisler, Harper, Kan.

WHITE ROCK COCKERELS—MRS. J. W. Hoornbeek, Winfield, Kan.

WHITE ROCK COCKERELS AND PULLETS. W. J. Lewis, Lebo, Kan.

PURE BUFF ROCK COCKERELS \$2 TO \$4. Mrs. Nellie Brown, Wamego, Kan.

WHITE ROCK COCKERELS, \$1 AND \$1.50. Edna Eckert, Moline, Kansas.

WHITE ROCK COCKERELS \$1. MRS. Geo. F. Garr, Grenola, Kansas.

GOOD B. ROCK COCKERELS \$1.50 EACH. Edith Wright R. 3, St. John, Kan.

PURE BARRED ROCK COCKERELS \$1 each. Edw. Rohrer, Elmo, Kan.

FINE BARRED ROCK COCKERELS, \$2 each. Christina Bazil, Lebo, Kan.

PURE WHITE ROCK COCKERELS \$2.00 each. B. R. Bull, Marietta, Kan.

RINGLET STRAIN B. ROCKS, EGGS \$4.00 100. W. J. McCune, Sharon, Kan.

PURE ROSE COMB BARRED ROCK COCKERELS. Write Jos. Helget, Ellis, Kan.

CHOICE BARRED ROCK COCKERELS AT \$1 each. Mrs. Jesse Beam, Otego, Kan.

WHITE ROCK COCKERELS \$2 AND \$3. Mrs. E. V. Cordonnier, Wathena, Kan.

BARRED ROCK COCKERELS FOR SALE \$1.50 each. J. F. Padget, Bucklin, Kan.

FIFTY WHITE ROCK COCKERELS \$1.25 each. Mrs. Helen Thomas, Canton, Kan.

BUFF ROCK COCKERELS, \$1.50 \$3.00, \$5.00. Mrs. M. E. Stevens, Humboldt, Kan.

BARRED ROCKS—FIFTY COCKERELS, \$2 up. Mrs. P. A. Pettis, Wathena, Kan.

PURE BRED BARRED ROCK COCKERELS \$1.50 each. Jas. Kesl, Belleville, Kan.

BIG TYPE BARRED ROCK EGGS, HALF price this season. A. H. Duff, Larned, Kan.

BUFF ROCK COCKERELS AND PULLETS. Choice stock. Mrs. Wm. Small, Wilson, Kan.

WHITE ROCK COCKERELS ONE DOLLAR and up. G. R. McBurney, Quinter, Kan.

OAK HURST BARRED ROCK CKLS ONE to five dollars each. M. Burton, Haddam, Kan.

GUARANTEED BARRED ROCK COCKERELS \$2.00 each. Harry Cummins, Toronto, Kan.

BIG BARRED ROCK COCKERELS, \$1.50 each, 6 for \$7.50. Chas. Cornelius, Blackwell, Okla.

FOR FINE BARRED ROCK COCKERELS Inquire of Wm. C. Mueller, Route 4, Hanover, Kan.

PURE BRED BARRED ROCK COCKERELS, fine birds, \$2.00. W. A. Harding, Luray, Kan.

PRIZE BARRED ROCKS, 104 PREMIUMS. Write for prices. Mrs. Chris Bearman, Ottawa, Kan.

BUFF ROCK AND WHITE ROCK COCKERELS, \$1.50 and \$2.00. Mrs. A. Daniels, Wilson, Kan.

IMPERIAL RINGLET BARRED ROCK COCKERELS; stock direct. Mrs. Wm. Stoll, Le Mars, Ia.

BARRED ROCKS, COCKERELS, PULLETS. Ringlet strain. \$2.00. E. W. Caywood, Clifton, Kan.

PARTRIDGE ROCKS—PURE BRED, EGGS \$1 per setting. Edward R. Kelley, Darlington, Missouri.

ONE HUNDRED BARRED ROCK COCKERELS \$2 to \$5 each. Ed Schmidt, Route 3, Geneseo, Kan.

BUFF ROCK EGGS FOR SALE \$1.00 PER setting, \$5.00 per 100. Mrs. Vol Keisey, Kimball, Kan.

BARRED ROCK COCKERELS, WELL barred, \$1.50 each. Mrs. John M. Blough, Bushong, Kan.

BIG TYPE, BLUE BARRED ROCKS, COCKERELS \$2.00, fine birds. Mrs. T. B. Mitchell, McPherson, Kan.

BARRED ROCKS, 300 BIRDS FOR IMMEDIATE shipment. We lead, others follow. Won more prizes at Southwestern show than any other exhibitor. Vice Pres. and Sec'y of State Barred Rock Club, Fred Hall, Lone Wolf, Oklahoma.

PLYMOUTH ROCKS.

FOR SALE—FINE BUFF ROCK COCKERELS; prize winning stock. Dr. J. B. Amphlett, Meade, Kan.

IF YOU WANT GOOD BARRED PLYmouth Rocks. Write Frank McCormick, Morrowville, Kansas.

BUFF ROCKS, PURE COCKERELS, \$ FOR \$5.00. Pullets \$12.00 doz. Mrs. Ike Saunders, Elk City, Kan.

HIGHEST QUALITY "RINGBARD" ROCKS. Males, females, Bargains. Mrs. Edward N. Hall, Junction City, Kan.

WHITE ROCK COCKERELS, FISHEL strain, scoring 95, 98 points. Mrs. F. Anderson, Asbury, Mo.

MAMMOTH SNOW WHITE ROCKS—BRED for 10 years for size and quality. Charles Vories, Wathena, Kan.

FOR SALE—A FEW CHOICE WHITE Rock cockerels and pullets cheap. W. T. Blackwill, Quinter, Kan.

PURE BRED WHITE ROCK COCKERELS \$1 to \$2. Eggs in season 15 \$1, 100 \$4. Robt. Nylund, Scandia, Kan.

CHOICE BARRED ROCKS, COCKERELS \$1.50, \$2.00, \$2.50. Hens and pullets \$1.25. Uish Bros., Peabody, Kan.

BUFF ROCK AND COCHIN COCKERELS for sale cheap. First at state show. E. H. Inman, Fredonia, Kan.

CHOICE BARRED PLYMOUTH ROCK COCKERELS at \$1.50 to \$3.00 each. E. Leighton, Effingham, Kan.

BIG BARRED ROCK EGGS FROM GOOD laying strain. 75c per 15; \$4 100. Mrs. George Fink, Eddy, Okla.

WHITE ROCK EGGS, \$1 15, \$5 100. Write for show record and mating list. Nellie McDowell, Garnett, Kansas.

BUFF ROCKS, THIRTEEN YEARS' SUCCESSFUL breeding. Cockerels for sale. Mrs. Homer Davis, Walton, Kan.

CHOICE BARRED ROCKS, COCKERELS \$1.50 to \$2.00. Twenty-five years a breeder. W. H. Hansen, Abilene, Kan.

WEIGHER-LAYER BARRED ROCKS, 100 premiums. Early cockerels \$2.00 up. W. Opfer, Clay Center, Kansas.

WHITE ROCKS, PURE BRED, FARM range. Eggs 15 75 cents; 100 \$3.00. H. F. Richter, Hillsboro, Kan., R. 3.

BARRED ROCKS OUR SPECIALTY. Choice cockerels \$2.00 each, 3 for \$5.00. Mrs. James Dilley, Beattie, Kan.

BIG BONED EARLY HATCHED BUFF Rock cockerels for sale. Eggs in season. Mrs. Perry Myers, Fredonia, Kan.

HEAVY LAYING BARRED ROCKS, FINE deep bar, good points. Eggs and baby chicks. L. B. Brady, Fowler, Kan.

WHITE ROCKS, FISHEL STRAIN, EGGS 15 \$1.25, 50 \$2.75, 100 \$5.00. Mrs. Frank Powell, Buffalo, Kan. Two fine roosters.

RINGLET BARRED ROCKS; BEST BLOOD lines; customers satisfied. Write for mating list. T. J. Embry, Baxter Springs, Kan.

BARRED PLYMOUTH ROCK BABY chicks and eggs. Write for mating list and prices. Mrs. C. N. Bailey, Lyndon, Kan.

FOR SALE—PURE BRED BUFF ROCK COCKERELS \$2.00. Also a few choice pullets \$1.50. Mrs. K. M. Gilbert, Coldwater, Kan.

WHITE ROCKS, SNOW WHITE, VIGOROUS cockerels \$2.00 each from egg laying and exhibition stock. I. L. Heaton, Harper, Kan.

WHITE PLYMOUTH ROCK COCKERELS for sale, bred from stock scoring up to 95 1/2, by Atherton. L. W. Sutton, Americus, Kan.

20 CLOSE BARRED CKL BRED CKLS, from 92 1/2 point sire \$3.00 each, 2 \$5.00. J. A. Lovette, Poultry Judge, Mullinville, Kan.

THIRTY BARRED ROCK PULLETS, show birds, \$1.50 to \$3.00 each. Money back if not satisfied. E. D. Mace, Spearville, Kan.

MY BARRED ROCKS PAY AND WIN. Choice cockerels \$2 to \$5 each; utility birds 4 for \$5. Mrs. H. E. Bacheider, Fredonia, Kan.

BEAUTIFUL BARRED ROCKS OF BEST strains. Big, handsome young roosters for your orders. Thos. D. Hubbard, Kimball, Kan.

"THOMPSON'S" RINGLETS, DIRECT farm raised. Both matings. Males \$2 up. Females \$1 up. Pure bred. C. E. Brokaw, Plano, Iowa.

PURE BRED WHITE PLYMOUTH ROCKS. Fishel beauties. Fine cockerels. Choice eggs for hatching. Mrs. Elmer Lane, Burlington, Kansas.

GOLDEN BUFF ROCKS EXCLUSIVELY. Eggs, pen \$3.00 per 15; farm range \$1.50 per 15, \$5.00 per 100. Mrs. B. F. Maxwell, Liberty, Neb.

PARTRIDGE PLYMOUTH ROCKS, THE beauty, utility breed. All the leading premiums at Topeka, Leavenworth and the great Kansas City shows. Eggs \$3.00 per 15, \$5.00 per 30. Huhn & Nye, Sta. A, Leavenworth, Kan.

PLYMOUTH ROCKS.

BARRED ROCK, 50 FINE COCKERELS. Thompson strain; \$1.50 and \$2.00 each. Order quick and get choice. Paul Olivier, Danville, Kan.

BUFF ROCK COCKERELS, HENS AND pullets, Big boned, farm raised. Bred from prize winners. Ferris and Ferris, Effingham, Kan.

TWO BREEDS—PURE BRED BARRED and White Plymouth Rock cockerels and pullets from prize winners. H. F. Hicks, Cambridge, Kan.

PARTRIDGE PLYMOUTH ROCKS—WON Kansas City, Oklahoma City and everywhere shown. Price list. Dr. B. L. Gamble, Coffeyville, Kan.

PURE JERSEY CATTLE OF BOTH SEXES, also Barred Plymouth Rock cockerels of the Bradley strain at \$1.50 each. Everett Rice, Box 822, Oxford, Kansas.

PLYMOUTH ROCKS THAT ARE BARRED. Cockerels for sale, both matings, bred from Kansas State and Federation show winners. C. V. La Dow, Fredonia, Kansas.

BARRED PLYMOUTH ROCKS FROM THE world's best strains. Get eggs from good stock at low prices. Catalogue free. H. H. Unruh, Dept. M, Hillsboro, Kansas.

WHITE ROCKS—20 BIG EARLY SNOW white ckls, \$2.00 to \$3.00 each. Four doz. choice hens and pullets \$13.00 per doz. Ivory strain. Chas. C. Fair, Sharon, Kan.

BARRED PLYMOUTH ROCK FOWLS AND eggs for setting. Have some choice ckls. and pullets for sale at \$1.50 up. Satisfaction guaranteed. Gus H. Bruns, Lawrence, Kan.

FARM RANGE BUFF ROCKS, FINE WINTER layers. Heavy boned cockerels. Eggs \$1.00 per 15; \$5.00 per 100. Satisfaction guaranteed. Walter G. Squire, Grinnell, Iowa.

A FEW GOOD BREEDING BARRED ROCK COCKERELS. Eggs \$4.75 per 100. Best blood in world bred for winter laying past 30 years. Catalogue free. O. E. Skinner, Columbus, Kan.

BARRED ROCKS EXCLUSIVELY. A FINE lot of top notch farm raised cockerels \$2.50 to \$5.00. Also a few choice hens and pullets \$1.50 and \$2.00. L. P. Nichols, Kirwin, Kan.

FOR SALE: FINE BARRED ROCK COCKERELS, from stock that wins many prizes. \$2.00 to \$3.00 each. Eggs \$1.00 per 15, \$4.00 per 100. Mrs. A. M. Shipley, Coffeyville, Kan., R. 4.

EGGS \$3. FROM SIX VARIETIES OF Plymouth Rocks. Barred, White, Buff, Columbian Partridge, Silver Penciled. All orders booked in turn. Favorite Poultry Farm, Stafford, Kan.

RINGLET BARRED ROCK COCKERELS, prize winners, from \$5 to \$10.00. Pullet matings. Book your order. Eggs from three fancy mated pens. M. P. Thiele, Expert B. R. Fancier, Lucas, Kansas.

BARRED ROCK COCKERELS, BIG, thrifty, farm raised, red eyes, smooth yellow legs. Need house and yard for breeding purposes. \$2.00 for quick sale. Moore Bros., R. 2, Cedarvale, Kansas.

100 ROYAL BLUE RINGLET BARRED Rock cockerels and pullets, scoring 91 1/2 and better. Write for prices and description today. A. L. Hook, North Willow Poultry Ranch, Box 456, Coffeyville, Kan.

BARRED ROCKS—BACK AGAIN WITH some dandy good ones. Cockerels \$1.50 to \$3.00. Pullets \$1.00. Mated pens of choice pullets and cockerels at reasonable prices. James H. Parsons, Quinter, Kan.

LINDAMOOD'S BARRED ROCKS, HAVE won many blue ribbons. Pens now mated. Prices from pens \$3 to \$5 per 15. Utility eggs \$5 per 100. Prepaid. Circular. C. C. Lindamood, Walton, Kan., Harvey Co.

BARRED PLYMOUTH ROCKS, THOMPSON'S, Latham's and Parks' two hundred egg strains. Order quality at low prices. Book egg-orders early. Catalogue free. H. H. Unruh, Dept. M, Hillsboro, Kansas.

WHITE ROCKS—PURE WHITE, BIG boned, farm raised cockerels, \$1.50 to \$5.00. Baby chicks 25c piece. Eggs \$1.25 for 15, \$3.00 for 50, \$5.00 for 100. Good laying strain. Prize winners. Mrs. Ben Miller, Newton, Kan.

WHITE PLYMOUTH ROCKS, "QUEEN Quality" kind. Eggs. Pen No. 1, \$3.00. No. 2, \$2.00 per 15. Utility, \$1.00 per 15; \$5.00 per 100. Bargains in cockerels at \$2.00 each. Stock absolutely white. 1st prize winners under Rhodes. Queen Quality Yards, Odell, Neb.

"OAK HILL" BARRED PLY. ROCKS have bright sharp cut barring, fine shape and type, large bone. Grand winning and laying line. Cockerels \$2.00, \$2.50, \$3, and \$5.00 each. Birds returned at my expense if not satisfactory. J. M. Detwiler, Dunlap, Iowa, Route 2.

BARRED PLYMOUTH ROCK COCKERELS from prize winning birds; clean, distinct, narrow barring; good layers. Won prize best colored male at last Kansas City poultry show, the premier show of this section, also other prizes. Price \$2.50 up. Eggs in season. L. P. Coblentz, La Harpe, Kan.

WHITE ROCKS—WON GRAND CHAMPION pen, gold medal for best pen of Whites, 1st hen, 1st pen, 2nd cock, 2nd and 3rd cockerel, 2nd and 4th pullet at Hutchinson show Jan., 1915. Also four prizes at Kansas State Fair. Pen and range eggs, cockerels and pullets for sale. Minnie Clark, Haven, Kan.

DUCKS.

DUCKS WANTED. THE COPE'S, TOpeka.

INDIAN RUNNER DUCKS, MRS. C. C. Henderson, Solomon, Kan.

INDIAN RUNNER DUCKS 1 DOLLAR each. W. J. Lewis, Lebo, Kan.

INDIAN RUNNERS, SILVER CUP WINNERS. Burt White, Burlingame, Kan.

FAWN AND WHITE I. B. DRAKES \$1.00 each. Mrs. Church, Burlington, Colo.

WHITE RUNNER DRAKES \$1.00 EACH. Mrs. C. B. Kellerman, Burlington, Kan.

CHOICE WHITE INDIAN RUNNER drakes. Arthur Carpenter, Council Grove, Kan.

MAMMOTH PEKINS, DRAKES \$1.50, EGGS \$1.50 fifteen. Miss M. Kragh, Driftwood, Okla.

ENGLISH PENCILED RUNNER DRAKES \$1.00. Eggs in season. Pearl Frederick, Asherville, Kan.

FOR SALE—IMPERIAL MAMMOTH PEKIN drakes \$1.00 each. J. W. Marshall, Breckinridge, Okla.

WHITE INDIAN RUNNER DUCKS, PURE white egg strain. Mrs. E. D. Ludwig, Waynoka, Okla.

PURE WHITE INDIAN RUNNER DUCKS. Drakes \$1.00 each. Pure bred. Mrs. Wm. Brooks, Beattie, Kan.

PRIZE WINNING FAWN AND WHITE Indian Runner drakes \$1.50 each. Minnie Miller, Kincaid, Kansas.

RUNNERS, ALL VARIETIES, CHOICE birds at reasonable prices. Prize winning breeders. Marian Holt, Savannah, Missouri.

FINE BUFF ORPINGTON DUCKS AND drakes. From three to ten dollars, trio. Greatest layers known. Mrs. C. A. Hall, Fredonia, Kan.

QUALITY FAWN AND WHITE INDIAN Runner ducks and drakes, \$1 each. Also few good Buff Orpington drakes. Mrs. H. E. Bacheider, Fredonia, Kan.

ENGLISH PENCILED RUNNER DUCK eggs, \$1.50 and \$3.00 per 15. Won 1st drake, 1st duck at the Topeka state show. D. J. Mackey, Pittsburg, Kan.

WHITE RUNNERS, PURE BRED, WHITE egg strain. Ducks \$2.00. Drakes \$1.00. Eggs \$1.00 per 15, four settings \$3.50. Mrs. H. W. Hammond, Higgins, Tex.

FAWN - WHITE INDIAN RUNNER drakes; also pure White Runner drakes, \$1.50 each. State fair winners. Western Home Poultry Yards, St. John, Kan.

ENGLISH PENCILED RUNNERS, 7 ducks, one drake, fine type and color, white eggs, all \$10. Single birds \$1.50. Mrs. Ed. Bergmann, Route 9, Paola, Kansas.

CUMBERLAND PENCILED RUNNERS. Holders of supreme unapproached egg records. Strictly white egg stock. Illustrated circular. Gertrude Mills, Sabetha, Kan.

WHITE QUEEN RUNNERS DIRECT FROM New Jersey Feb., 1914. Averaged 25 white eggs March, April, May. Ducks \$2, 3 ducks, drake \$6, 15 eggs \$1. W. I. Whiteside, Redfield, Kan.

INDIAN RUNNER DUCKS, "DEARIE ducks—world's greatest laying runners!" "Dearie" holds world's record. Stock and eggs. Reasonable prices. Send for beautiful illustrated catalogue free. Contains "Dearie's" photo. Columbia Duck Farm, Inc., Bloomsburg, Penna.

BRAHMAS.

LIGHT BRAHMA COCKERELS; CHOICE; \$2.50, \$2. M. Wall, Eddyville, Neb.

GEESE, TURKEYS, DUCKS, LIGHT BRAHmas. Emma Ahlstedt, Roxbury, Kan.

PURE LIGHT BRAHMA COCKERELS \$2 to \$4. Mrs. Foster Brown, Wamego, Kan.

PURE BRED LIGHT BRAHMA COCKERELS \$1 to \$2. Carrie Warner, Grenola, Kan.

LIGHT BRAHMA COCKERELS FOR SALE. Write for prices. Garfield Smith, Pawnee Rock, Kan.

SOME NICE FULL BLOOD LIGHT BRAHma cockerels, \$2.00 each. Mrs. I. A. Pember, Ness City, Kan.

PURE LIGHT BRAHMA COCKERELS AND pullets for sale. Mrs. C. T. Wright, R. 3, Geuda Springs, Kansas.

OUR LIGHT BRAHMAS HAVE WON, IN our own hands and in hands of customers, at Boston, Chicago, Kansas City, Wichita, Topeka, etc. A few birds for sale. Eggs \$5 per 15. E. W. Rankin and Son, Topeka, Kan.

RHODE ISLAND WHITES.

FOR SALE—ROSE COMB RHODE ISLAND Whites, pullets and cockerels from first prize winners in big shows. Write for prices. Mrs. J. M. Post, Colony, Kan.

RHODE ISLAND WHITES—LARGE, early Rose Comb cocls, from best laying and show strains, \$1, \$2, \$3. Eggs, 15 \$1.50; 50 \$4.00; 100 \$8.00. Col. Warren Russell, Odessa Farm, Winfield, Kan.

WYANDOTTES.

WHITE WYANDOTTE BREEDERS. T. M. Talbot, Hutchinson, Kan.

SILVER WYANDOTTE COCKERELS. MRS. C. C. Henderson, Solomon, Kan.

WHITE WYANDOTTE COCKERELS \$1.50 to \$2. Adam Ramp, Fredonia Kan.

SILVER LACED WYANDOTTE COCKERELS \$1.50. J. O. Batterton, Sylvia, Kan.

FINE WHITE WYANDOTTE COCKERELS for sale. J. Benjamin, Cambridge, Kan.

PARTRIDGE WYANDOTTES—EGGS \$3.00 per 15. DeBusk Bros., Macksville, Kansas.

WHITE WYANDOTTE COCKERELS \$2.00 to \$5.00. Mrs. Geo. Downie, Lyndon, Kan.

BEST EVER—WHITE WYANDOTTE COCKERELS \$1.00 and up. Mrs. F. J. Myers, Erie, Kan.

PURE BRED WHITE WYANDOTTE COCKERELS \$1. Mrs. J. R. Antram, Galesburg, Kan.

WHITE WYANDOTTES GUARANTEED. Write Mrs. Howard Erhart, Independence, Kan.

PURE BRED WHITE WYANDOTTE COCKERELS \$2.00. Mrs. D. H. Zabel, Wetmore, Kan.

GOLDEN WYANDOTTE COCKERELS scoring to 94. D. Lawver, Route 3, Welr, Kan.

PARTRIDGE WYANDOTTES? ROSA CAR- der, Lyndon, Kansas, can please you at \$1.25 up.

WHITE WYANDOTTE COCKERELS, IN- cluding prize winners. H. O. Collins, Fontana, Kan.

GOLDEN WYANDOTTES, WINNERS AT Topeka State Show. M. M. Donges, Belleville, Kan.

SILVER WYANDOTTE COCKERELS, TAR- box strain, one dollar each. W. D. Ross, Wakita, Okla.

WHITE WYANDOTTE COCKERELS, EX- tra good. \$2 to \$4. Ideal Poultry Yards, Wayne, Kan.

DWIGHT OSBORN HAS WHITE WYAN- dotte cockerels from his best layers. Delphos, Kan.

WHITE WYANDOTTE EGGS \$1.00 PER setting, \$4.00 per hundred. C. H. Berry, Fairfield, Neb.

GOLDEN WYANDOTTES—PULLETS AND eggs in season. Geo. W. Shelley, McPherson, Kan., R. 2.

FOR SALE—CHOICE GOLDEN LACED Wyandotte cockerels. Mrs. H. O. Mott, White City, Kan.

CHOICE WHITE WYANDOTTE COCKER- els, early hatched, \$1.50. Mrs. John Gould, Conway Springs, Kan.

CHOICE BUFF WYANDOTTES, COCKER- els, pullets. The best. John P. Ruppenthal, Russell, Kansas.

PARTRIDGE WYANDOTTE EGGS FOR sale. \$1.50 per setting prepaid. J. B. Claywell, Westmoreland, Kan.

FOR SALE: THOROUGHbred PART- ridge Wyandotte cockerels. Address Rebecca Jones, Lyndon, Kan.

DUSTON'S STRAIN WHITE WYANDOTTES. Cockerels \$2 to \$5 each. Eggs \$2 for 15. Mrs. Geo. E. Joss, Topeka, Kan.

WHITE WYANDOTTE COCKERELS AND pullets. Fishel strain. Write Edmond A. Smith, Route 1, Larned, Kan.

PARTRIDGE WYANDOTTE COCKERELS from one to three dollars each. B. H. Bowman, Pawnee Rock, Kan.

50 WHITE WYANDOTTE PULLETS AND cockerels, two Columbian Wyandotte cockerels. G. D. Willem, Inman, Kan.

QUALITY WHITE WYANDOTTES, COCK- erels, pens. Trios. Write for prices. Mrs. M. E. Johnson, Humboldt, Kan.

CHALK WHITE WYANDOTTES, BRED to lay. Eggs \$4 per hundred. Cockerels \$1 to \$5. L. J. Fulk, Winfield, Kan.

GOLDEN WYANDOTTES, BLUE RIBBON winners. Prices right. Satisfaction guaranteed. Harry Dunlap, Liberal, Kan.

CHOICE SILVER WYANDOTTE COCK- erels from prize winning stock. Prices low. Earl Wood, Grainfield, Kansas.

20 CHOICE S. C. BUFF ORPINGTON PUL- lets \$2.00. \$35.00 gets the bunch. Write at once. James H. Parsons, Quinter, Kan.

WHITE WYANDOTTE COCKERELS, GOOD shape and color. Eggs for hatching. Prices reasonable. C. E. Herbert, Bosworth, Mo.

WHITE WYANDOTTE WINNERS AT Hutchinson and Wichita State shows. Eggs for sale. Mrs. C. W. Evans, Abbyville, Kan.

SILVER WYANDOTTES, YES, I AM still selling Silver Wyandottes, the breed that lay. M. B. Caldwell, Broughton, Kan.

FLOCK'S WHITE WYANDOTTE FARM, Clay Center, Kan. Breeding stock for sale. Eggs from matings \$3.00 per 15, \$5.00 per 30.

COLUMBIAN WYANDOTTES, EXCLU- sively. Bargains. All about them. Write for information. Maple Hill Farm, Monett, Mo.

PUREBRED SILVER WYANDOTTE COCK- erels, beautifully marked, large size, \$2 to \$3. Mrs. Wm. Schulze, Creston, Neb., Route 1.

WISCOMBE'S WHITE WYANDOTTES. Winners at the big fair at Topeka. The State Federation show, Topeka, and the college show, Manhattan. Eggs from extra good matings at right prices. A few cockerels and hens left. Mating list ready now. R. W. Wiscombe, 204 So. Manhattan Ave., Manhattan, Kan.

WYANDOTTES.

SILVER LACED WYANDOTTE COCKER- els for sale. Good ones. Satisfaction guaranteed. Eggs in season. B. M. Winter, Irving, Kan.

WHITE WYANDOTTES, OUR YARDS contain winners and layers. Write for mating list. Dodd's White Wyandotte Farm, Girard, Kan.

SILVER LACED WYANDOTTE COCKER- els from \$2.00 to \$5.00 each; extra well marked, high scoring. Elizabeth Littleton, Guymon, Okla.

SILVER WYANDOTTES—BLUE RIBBON winners, heavy winter layers. Eggs, baby chicks. Prices right. C. K. Gamble, Coffeyville, Kan.

CHOICE MATINGS OF WHITE WYAN- dottes. Eggs from pen \$1.50 15; \$5 100. Utility stock \$1.00 15; \$4 100. Frank Mayer, Marysville, Kan.

SILVER WYANDOTTES, TARBOX STRAIN. Farm raised. Choice cockerels \$1.50, \$2.00, \$2.50, \$3.00. Eggs 15 \$1.50, 100 \$6.00. Mrs. Edwin Shuff, Plevna, Kan.

ROSE COMB GOLDEN WYANDOTTE cockerels \$1.00 and \$1.50 per head. Farm run. Exclusively raised. Eggs in season. C. Folgate, Stanberry, Mo.

SILVER LACED WYANDOTTES, PRIZE winners, good layers, all birds scored. Cockerels from \$1 to \$5. Eggs \$1 and \$2 setting. J. L. Galloway, Foss, Okla.

REGAL WHITE WYANDOTTES, AN HON- our to their name. Write me for reasonable prices on eggs for hatching or baby chicks. Mrs. C. C. Brubaker, McPherson, Kan.

WHITE WYANDOTTE COCKERELS AND A few pullets and hens from our prize winning strain at farmer's prices. \$2.00 each, \$3 for \$5.00. A few extra fancy birds higher. G. A. Wiebe, Beatrice, Neb.

SILVER LACED WYANDOTTE EGGS. Pure bred. Fifteen \$1. One hundred \$5. Sixty % hatch guaranteed or order duplicated at half price. Write for circular or order direct. S. B. Dressler, Lebo, Kan.

WHITE WYANDOTTE EGGS FROM stock that took first and second at Linn Co. fair and first at Pleasanton poultry show. Have added roosters from silver cup winners. Mrs. Ira Abbey, Pleasanton, Kan.

WOLFE'S WHITE WYANDOTTES, TRAP nested hens that lay and win the blue. Eggs from \$2 to \$5 per setting. Booking orders now. Jason A. Wolfe, 1187 Brooks Ave., Topeka, Kan.

COCKERELS—WHITE WYANDOTTES EX- clusively. Early March hatched; large, vigorous; breeders; Rose Comb, pure white, \$2, \$3, \$5 each. Fertile eggs for hatching \$1 and \$3 setting 15. 100 eggs \$5. Snowflake Poultry Farm, Mrs. H. S. Tonnemaker, Beatrice, Neb.

LEGHORNS.

SINGLE COMB WHITE LEGHORNS \$1.00. Will Tonn, Haven, Kan.

S. C. W. LEGHORN COCKERELS. MRS. W. R. Hildreth, Oswego, Kan.

S. C. WHITE LEGHORN COCKERELS \$1.00. Guy O. Teegardin, Eureka, Kan.

S. W. LEGHORN EGGS \$4.00 100. CHICKS \$12.50. Hillcrest, Altoona, Kansas.

FOR SALE—CHOICE R. C. B. LEGHORN Mrs. John M. Lewis, Larned, Kan.

TWELVE S. C. W. LEGHORN COCKER- els dollar each. A. Pitney, Belvue, Kan.

ROSE COMB BROWN LEGHORN EGGS \$1.00 per 15. Olive Hoskins, Fowler, Kan.

CHOICE SINGLE COMB WHITE COCK- erels \$2.00 each. H. Vinzant, McPherson, Kan.

CHOICE S. C. WHITE LEGHORN COCK- erels, one dollar. John Bradley, Garnett, Kan.

S. C. WHITE LEGHORN COCKERELS. Scored. \$1.50 up. J. E. Gish, Manhattan, Kan.

PURE SINGLE COMB WHITE LEGHORN cockerels \$2.00 and \$3.00. Hugh Harrison, Jewell, Kan.

SINGLE COMB WHITE LEGHORN COCK- erels \$1.00. Six \$5.00. Waunetta Allee, Sedgwick, Kan.

SINGLE COMB WHITE LEGHORN COCK- erels \$1.00. Eggs .50. Mrs. A. S. Tiffany, Fulton, Kansas.

PURE S. C. W. LEGHORN EGGS FOR hatching. \$3.00 per hundred. J. L. Young, Haddam, Kansas.

50 PURE BRED SINGLE COMB BROWN Leghorn cockerels \$1.50 to \$2. Paul Grill, Ellsworth, Kan.

ROSE COMB BROWN LEGHORN COCK- erels. Single Comb females. Mrs. Ida Standiferd, Reading, Kan.

SUPERB SINGLE COMB WHITE LEG- horns, great layers; eggs, chicks. Armstrong Bros., Arthur, Mo.

MY FAMOUS S. C. W. LEGHORNS WIN everywhere. Cockerels and pullets, \$1 up. Geo. Patterson, Lyndon, Kan.

ROSE COMB WHITE LEGHORN COCK- erels \$1. Eggs. Baby chicks in season. Mrs. Alfred Young, Wakefield, Kan.

PURE SINGLE COMB WHITE LEGHORN cockerels and eggs. Satisfaction guaranteed. John Walters, Fall River, Kan.

GET A START IN THE BEST PAYING strain of Single Comb White Leghorns. I have them. Pedigree males mated to winter layers that lay. Order now for spring delivery. Eggs 100 \$6.00; 50 \$3.50; setting \$1.50. E. D. Allen, Inland, Neb.

LEGHORNS.

S. C. BROWN LEGHORN COCKERELS. Good colors, yellow legs. Combs frosted. 75c. Mrs. A. Anderson, Greenleaf, Kan.

SINGLE COMB WHITE LEGHORN COCK- erels \$1.00. Eggs in season at \$3.00 per 100. Mrs. Eva Frederick, Asherville, Kan.

CHOICE THOROUGHbred S. C. BUFF Leghorn cockerels for sale, \$1.00 each; \$5.00 six. V. P. Johnson, Sharonville, Neb.

HIGH SCORING SINGLE COMB WHITE Leghorns. Finest eggs. Cockerels. Mrs. Albert Ray, Specialist, Delavan, Kansas.

THOROUGHbred ROSE AND SINGLE Comb Brown Leghorn cockerels \$1.00 each, 6 for \$4.50. Earl McKeever, Sharon, Kansas.

SINGLE COMB WHITE LEGHORNS, WON first and third pullet at state fair. Eggs 15 \$1.50; 100 \$4.00. Lucy Kasenberg, Mt. Hope, Kan.

BROWN LEGHORN COCKERELS, SINGLE Comb, took first wherever shown, \$3.00 each; frosted combs \$1.50. A. B. Haug, Centralia, Kan.

THOROUGHbred S. C. W. LEGHORN cockerels. Frantz strain. \$1.00 and up. Satisfaction guaranteed. R. O. Lappin, Logan, Kan.

SPONG'S SIZE AND QUALITY SINGLE Comb White Leghorns. Hen mating, 100 \$5.00. Pullet mating, 100 \$3.50. Alex Spong, Chanute, Kan.

ROSE COMB BROWN LEGHORNS, KULP strain. Eggs \$5.00 per hundred prepaid. A few good cockerels left. Mrs. Mary Miek, Ransom, Kan.

15 EGGS \$1.00, 100 EGGS \$5.00. FROM Ackerman-Frantz laying strains Single Comb White Leghorns. Mrs. Joe Boyce, Carlton, Kansas.

SINGLE COMB WHITE LEGHORN COCK- erels, pure bred Wyckoff and Frantz strains, \$1.00 and \$2.00 each. Adolph Berg, McPherson, Kan.

ROSE COMB BROWN LEGHORNS THAT won the blues, Hutchinson State Fair, \$1.00 and upwards. Eggs in season. Otto Borth, Plains, Kan.

SINGLE COMB WHITE LEGHORNS, CAN fill all orders for eggs for hatching at \$3.50 per hundred, from high scoring stock. Harry Givens, Madison, Kan.

FOR SALE—S. C. W. LEGHORN COCK- erels, official score card with each bird. Price \$1.00 up. Also a few pullets \$1.00 up. E. L. M. Benfer, Leona, Kan.

FOR SALE—75 THOROUGHbred WHITE Leghorn pullets and 20 good cockerels. Pullets 90 cents each. Cockerels \$1.00 to \$1.50. O. E. Croson, Holton, Kan.

S. C. BROWN LEGHORN SHOW AND utility stock; both matings. Write for prices on stock, eggs and baby chicks. G. F. Koch, Jr., R. No. 3, Ellinwood, Kan.

ROSE COMB WHITE LEGHORN COCK- erels one dollar. Hens ten dollars per dozen. Eggs fifteen one dollar, one hundred four dollars. Corless Chartier, Miltonvale, Kan.

400 LARGE ROSE COMB WHITE LEG- horn hens. The kind that lays big white eggs. Eggs, \$5.00 per 100; \$9.00 per 200; \$12.00 for 300. Mrs. H. E. Woodward, Sunny Dell Farm, La Monte, Mo.

S. C. BROWN LEGHORN AND WHITE Rock Cockerels. I won 1st on cockerel, 1st on pullet, 1st on pen, State Fair. Same at Bucklin, Meade and Liberal. \$1.50 up. Yours for business. H. N. Holdeman, Meade, Kan.

SINGLE COMB WHITE LEGHORNS—BABY chick 15c each. Eggs for hatching 5c each from vigorous range raised bred to lay stock. Won 1st, 2nd, 3rd, 4th cockerel at Parsons, 1914. J. R. Stallings, Oswego, Kan.

VALUABLE EGGS TO THE EXPERIMENT farm in Colorado. Director and judge said, "Eggs and birds proved to be best used in every respect." The way birds scored and lay tell quality of the Single Comb White Leghorns raised on Snowflake Poultry Farm, Conway Springs, Kansas.

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R. C. RED COCKERELS, SCORED. C. Shumway, Manhattan, Kan.

ROSE COMB RED COCKERELS \$2 TO \$3. Thos. Talbot, Marysville, Kan.

ROSE COMB RED COCKERELS FOR sale. Viola Lumb, Manhattan, Kan.

S. C. R. I. REDS, COCKERELS FOR SALE \$1.50 to \$5. Seth Roush, Jewell, Kan.

ROSE COMB REDS, TOP NOTCHERS. Reasonable. Shamleffer, Douglass, Kan.

S. C. RED EGGS FOR HATCHING AND day old chicks. Mrs. W. L. Maddox, Hazelton, Kan.

EXTRA FINE ROSE COMB RED COCK- erels \$2.00 to \$5.00 each. Mrs. Chas. Joss, Topeka, Kan.

ROSE COMB RED COCKERELS, GOOD birds, \$1 to \$3. Mrs. Alice Chnkenbeard, Wetmore Kan.

SINGLE COMB RED COCKERELS \$2 TO \$5. Range eggs 5c each. D. H. Hauck, Newton, Kansas.

ROSE COMB REDS—GOOD STOCK, COCK- erels \$1, \$2 and \$3 each. Howard Vall, Marysville, Kan.

R. C. RED EGGS, \$4 FOR 100; 75c FOR 15. Bourbon Red turkey eggs. Augusta Hand, Ellsworth, Kan.

THOROUGHbred ROSE COMB RED cockerels \$2.00 and \$3.00. John Nicholas, Argonia, Kansas.

RHODE ISLAND REDS, MALES AND FE- males, Single and Rose Comb, raised from Kansas State Show winners. \$1.00 and up. Write today. A. M. Butler, 1561 Palsade St., Wichita, Kan.

RHODE ISLAND REDS.

CHOICE ROSE COMB RHODE ISLAND Red cockerels for sale. Mrs. A. L. Scott, R. 1, Larned, Kan.

R. C. RED COCKERELS \$2 EACH, LARGE boned, no smut. Pullet \$1 each. Lotta Lisk, Lenexa, Kan.

LARGE PURE SINGLE COMB RHODE Island Red cockerels \$2.00 each. O. C. Duprey, Clyde, Kan.

SINGLE COMB REDS, EGGS \$1 PER setting. Stock from prize winners. Theo. Lysell, Lindsborg, Kan.

RICH, ROSE COMB RED COCKERELS; bargains at \$1.50, \$2.50 and \$3.50. Mrs. Chas. Hill, Toronto, Kan.

THOROUGHbred S. C. RED COCKERELS, two and three dollars. Extra fine. Mrs. L. J. Loux, Scott City, Kan.

ROSE COMB RHODE ISLAND RED COCK- erels \$2.00 each; \$3 for \$5.00. Redview Poultry Yards, Irving, Kansas.

LARGE, DARK RICH RED, ROSE COMB Reds. Eggs 15 \$1.00, 50 \$3.00. Nora Luthye, North Topeka, Kan., Rt. 6.

ROSE COMB RED COCKERELS, \$2 TO \$5. Fine shape and color. Matured. Toal & Toal, Sedan and Cedarvale, Kan.

DARK RED ROSE COMB, LARGE BONE, thoroughbred farm raised cockerels \$1 to \$3. Ed Clark, Severance, Kansas.

S. C. REDS, EVERY BIRD A HIGH SCORE show bird. Cockerels or pullets as low as \$2, and up. W. F. Brown, Byron, Okla.

LUNCEFORD'S S. C. QUALITY REDS. Good breeding ckls. and pullets \$1.50 to \$5.00. Sadie Lunceford, Mapleton, Kan.

BARGAINS—BIG, VIGOROUS, DEEP RED, Rose Comb cockerels. Sunnyside Farm, Havensville, Kan.

EGGS, SOMETHING FINE, SINGLE COMB Reds. Send for matings of prize takers. Bargain prices. D. H. Welch, Macksville, Kansas.

ROSE COMBED R. I. RED EGGS FOR setting, \$1.00 per 15 or \$5.00 per 100. Orders booked ahead. F. B. Severance, Lost Springs, Kan.

OUR ROSE COMB REDS MADE BEST winnings at Hutchinson and Wichita. Cockerels \$1.50 to \$3. Roberts & Bauman, Holsington, Kan.

SINGLE COMB RED EGGS FROM CHOICE range flock \$1 per fifteen, \$4.00 per 100. Orders booked for early shipment. H. A. Bushby, Rydal, Kan.

BIG BONED, DEEP RED R. C. COCK- erels, red eyes, long back, low tail, good comb. Scored. \$5 each. Guaranteed. Highland Farm, Hedrick, Iowa.

PRYOR'S ROSE COMB REDS, AMERICAN Beauty strain, "Bill Taft Line." Cockerels for sale on approval. Write for prices. Mrs. D. A. Pryor, Fredonia, Kan.

BIG BONED, DARK VELVETY ROSE Comb Reds. Utility stock. Best winter layers. \$1.25 per 17, \$5.00 100. Mrs. Walter Shepherd, Woodward, Okla.

ROSE COMB REDS, BLUE RIBBON WIN- ners, bred to lay. Trios \$7.50 and \$10.00, shipped on approval. Mating list free. Floyd Bloom, Shenandoah, Iowa.

ROSE COMB REDS, COCKERELS \$2. Bred from winners at American Royal, Kansas State Fair, Oklahoma State Fair, Baldwin Red Farm, Conway, Kansas.

NEOSHO POULTRY YARDS—ROSE COMB Reds. We have handled Reds for 12 years. We think we can please you. Prices reasonable. J. W. Swartz, Americus, Kan.

CHOICE R. C. RED COCKERELS, ONE and two dollars. No smut, no white feathers. Breeding thoroughbred Reds only for six years. F. Borden, Winona, Kan.

THOROUGHbred REDS, BOTH COMBS, Cockerels \$1 to \$5. Utility pullets. Satisfaction guaranteed. Excellent show record. Marshall's Poultry Yards, La Cygne, Kan.

ROSE COMB RHODE ISLAND REDS EX- clusively. Rich, dark, velvety Bean strain. 15 eggs \$1.00, 100 \$5.00. Satisfaction guaranteed. Mrs. Chancey Simmons, Route 3, Erie, Kansas.

DURKEE'S SINGLE COMB REDS ARE winners. Eggs for hatching, \$1.00, \$1.50, \$2.00 per setting; \$5.00 per hundred. Parkdale Poultry Yards, 715 Branner, Topeka, Kan.

RHODE ISLAND REDS, BOTH COMBS. Twelfth year of sending out guaranteed fertility and safe arrival low priced eggs considering quality of stock. Mating list free. H. A. Sibley, Lawrence, Kan.

MAMMOTH MAKE ROOM SALE, R. I. Reds male and females in both combs. Prices \$1.50 and up. My stock won ten premiums at state show. Don't delay. Order at once. A. M. Butler, Wichita, Kan.

QUALITY AND PRODUCTION ARE FOUND in White's laying strain, S. C. R. I. Red eggs \$1 to \$5 per setting. Write today for mating lists. S. C. R. I. Red cockerels and cock birds \$2 to \$5. H. L. White, 1747 N. Waco, Wichita, Kan.

"REDVILLE" EGG AND POULTRY FARM. The home of as good as the best Reds. Both combs. Cockerels for sale at farmer prices. Satisfaction guaranteed. Write me what you want. A. S. Fellers, Hays, Kan., Sec'y of the Golden Belt Poultry Breeders' Association.

100 ROSE COMB RHODE ISLAND COCKS and cockerels that have shape, color and size. Sired by roosters costing from \$15.00 to \$75.00 at \$1.50, \$3, \$5, \$7.50 and \$10 each; a few higher. No better bred birds. Pens mated for 1915 by far the best we ever had. W. R. Huston, Americus, Kan.

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WHITE FACE BLACK SPANISH COCK- erels for sale. A. W. Swan, Centralia, Kansas.

TURKEYS.

PURE BOURBON RED TOMS. JOHN CARROLL, Lewis, Kan.

MAMMOTH BRONZE TOMS, \$2.50. ED Leekwood, Kinsley, Kan.

WHITE HOLLAND TOMS \$5.00 EACH. Bertha Basil, Olivet, Kan.

WHITE HOLLAND TURKEYS. PRICES free. Grace Garnett, Marion, Mo.

MAMMOTH WHITE HOLLAND TURKEYS. Mrs. W. U. Stevens, Paradise, Kan.

EXTRA FINE, LARGE, WHITE HOLLANDS. Mrs. S. J. Bloxom, Pratt, Kan.

LARGE PURE BRED BOURBON TOMS \$4.50. Mrs. D. H. Zabel, Wetmore, Kan.

WHITE HOLLAND TURKEYS. TOMS \$5.00. Hens \$3.00. Mrs. Pierce, Md. City, Kan.

PURE BOURBON RED HENS, WELL marked \$3. V. E. De Geer, Deerhead, Kan.

WHITE HOLLAND TURKEYS. TOMS \$3, hens \$2. Mrs. R. A. Lewis, Timken, Kan.

THOROUGHbred MAMMOTH BRONZE turkeys. Letha Parkhurst, Plainville, Kan.

NARRAGANSETT TURKEYS. HENS AND TOMS. Mrs. S. W. Rice, Wellsville, Kan.

BIG RED HENS AND TOMS. WELL marked. A. W. Powers, New Albany, Kan.

WHITE HOLLAND TURKEYS FROM prize winning stock. S. A. Warren, Regar, Mo.

FULL BLOODED BOURBON RED TOMS for sale. Mrs. W. C. Kincaid, Peabody, Kan.

MAMMOTH BRONZE TURKEYS. TOMS \$5. Hens \$3. J. O. Batterton, Sylvia, Kan.

MAMMOTH BRONZE TURKEYS. TOMS \$5. Hens \$3. W. B. Williams, Carlton, Kan.

LARGE, FULL BLOOD BOURBON RED turkeys for sale. Emma Lamb, Havana, Kan.

TURKEYS WANTED. THE COPE'S, Topeka.

EXTRA FINE PURE BRED MAMMOTH Bronze turkeys. C. E. Foland, Almena, Kansas.

MAMMOTH BRONZE TOMS, CHOICE 24 to 30 lbs., \$5. John Gould, Conway Springs, Kansas.

THOROUGHbred BOURBON RED Turkey hens \$2.50. M. E. Noonan, Greenleaf, Kan.

CHOICE NARRAGANSETT TURKEYS, large, gentle kind. J. P. Hertzog, Blue Springs, Mo.

WHITE HOLLAND TURKEYS. TOMS \$2.00, hens \$2.00. Mrs. Jane Thompson, Cambridge, Kan.

THOROUGHbred BOURBON RED TURKEYS. TOMS \$4. Hens \$3.00. James Butler, Glasco, Kan.

BIG BONED PURE BRED BOURBON RED turkeys. Unrelated trios Mrs. Sam Clark, Hazelton, Kan.

MAMMOTH BRONZE TURKEYS, SCORED TOMS \$5, hens \$3. Mrs. A. B. Holford, Hartford, Kan.

PURE BRED M. B. TURKEY PRIZE WINNERS. TOMS \$5.00, hens \$3.00. Sam Caughey, Asherville, Kan.

EXTRA LARGE PURE WHITE HOLLAND TOMS \$4.00, hens \$2.50. Mrs. Will Jones, Wetmore, Kan.

MAMMOTH BRONZE TURKEYS FOR SALE. Sire prize winner, weight 50 lbs. L. R. Wiley, Elmdale, Kan.

THOROUGHbred BOURBON RED TURKEYS. \$3 per 11 eggs. Order early. H. B. Humble, Sawyer, Kan.

BOURBON REDS. STANDARD VARIETY. Standard weight. TOMS \$5. Hens \$3. May Gill, Piedmont, Kan.

FOR SALE—LIMITED NUMBER OF FULL blood Mammoth Bronze turkeys. Roy Hoch, R. F. D. 3, Peabody, Kan.

BOURBON RED TURKEYS. EARLY-hatched, large bone, good color. TOMS \$4; hens \$3. A. M. Farmer, Pratt, Kan.

THOROUGHbred BOURBON RED TURKEYS. Large bone. Hens \$3. TOMS \$4. Mrs. Russ Robinson, Centralia, Kan.

MAMMOTH WHITE HOLLAND TURKEYS for sale. Eggs \$2.50 per 11 in season. Mrs. Ada Poindexter, Medicine Lodge, Kan.

LARGE WHITE HOLLAND TURKEYS. Extra large, fine and healthy. TOMS \$5.00. Hens \$4.00. Chas. W. Zabel, Wetmore, Kan.

FOR SALE—TURKEYS. BRONZE OR White Holland, either sex. TOMS \$4. Hens \$3, or 15 cts. lb. Jno. Brigham, Cedarvale, Kan.

BIG BRONZE TURKEYS FROM LONG line winners, large boned. Healthy stock. Write for prices. Gertrude Tilzey, Lucas, Kansas.

BOOKLET ON TURKEY RAISING. VALUABLE, practical information, 75c. Raise big clocks every year. I do; you can. Mary Cuiver, King City, Mo.

PERKINS'S BRONZE TURKEYS HAVE won more prizes wherever shown than all others combined. No better blood in America. G. W. Perkins, Newton, Kan.

MAMMOTH WHITE HOLLAND TURKEYS, sired by a 40-pound tom at 18 months. TOMS \$5.00. Hens \$4.00. Trio \$12.00 while they last. W. E. Monasmith, Formoso, Kan.

MAMMOTH BRONZE TOMS, THE HEAVY kind. Eggs in season. If it's pounds you want, buy from my flock. Berry method of turkey raising with each order. C. W. Berry, Moore, Okla.

TURKEYS.

WHITE HOLLANDS—LARGER AND FINER than ever. The rangy, heavy boned, pink legged variety. From best Mo. and Kan. stock. TOMS \$6.00. Hens \$4.50. Mrs. H. F. Elder, Morrowville, Kan.

BOURBON RED TURKEY EGGS FROM 3 yards unrelated, \$3 for 11. Large, well colored birds. Prize winners. Directions for raising and receipt for homemade lice powder free. Ringlet Barred Rock eggs. Mrs. C. B. Palmer, Uniontown, Kan.

ORPINGTONS.

S. C. WHITE ORPINGTON. \$2 TO \$5. Mrs. Geo. Bellman, Hays, Kan.

BUFF ORPINGTON COCKERELS AND pens. Mrs. T. N. Beckey, Linwood, Kan.

SINGLE COMB BUFF ORPINGTON COCKERELS, \$1.25 each. Edith Shelby, Moline, Kan.

CHOICE BUFF ORPINGTON COCKERELS, reasonable. Clarence Lehman, Newton, Kansas.

FINE THOROUGHbred BUFF ORPINGTON cockerels. C. A. Bassett, Burlingame, Kansas.

3 FIRSTS. WHITE ORPINGTON WINNERS. For eggs write Edith Vincent, Jamestown, Kan.

FINE BUFF ORPINGTON COCKERELS one dollar fifty each. Lette Vining, Ma-haska, Kan.

ROSE COMB AND SINGLE COMB BUFF Orpingtons. Stock and eggs. C. H. Heyne, Uehling, Neb.

CHOICE S. C. BUFF ORPINGTON COCKERELS \$2.00 each. Mrs. W. V. Wilson, R. No. 2, Detroit, Kan.

WHITE ORPINGTONS. LET ME TELL you about them. Eggs at honest prices. Sharp, Iola, Kansas.

WHITE ORPINGTON COCKERELS. KELLERstrass strain. \$1.50 each. Mrs. Everett Nichols, Kinsley, Kan.

GERTRUDE GEER'S BUFF ORPINGTON Farm range. Eggs \$1.50 setting. Cockerels all sold. Winfield, Kan.

BUFF ORPINGTON COCKERELS; STANDARD bred; \$1.00 apiece; \$11.00 doz. Nettie Kubik, Caldwell, Kan.

CRYSTAL WHITE ORPINGTON AND White Wyandotte eggs. Prices reasonable. M. Garnant, Kidder, Mo.

PURE BRED WHITE ORPINGTON EGGS \$1.50 for fifteen; \$7.50 per 100. Mrs. O. C. Brett, Humboldt, Kan.

WHITE ORPINGTON EGGS. FIFTEEN \$1. Hundred \$5. Males English strain. Mrs. Helen Lill, Mt. Hope, Kan.

S. C. BUFF ORPINGTONS. COCKERELS and cocks \$2 to \$10. Hens \$1 to \$3. Mrs. Grant Stafford, Winfield, Kan.

BUFF ORPINGTONS—25 YEARLING COCK birds for sale, of rare quality; can please you. Aug. Petersen, Churdan, Ia.

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WHITE ORPINGTON KELLERSTRASS Jackson strain cockerels. Large. \$1.00 and \$2.00. Robt. Turner, Anthony, Kan.

WHITE ORPINGTONS—KELLERSTRASS—Carry strains. Stock and eggs for sale, prices right. H. B. Humble, Sawyer, Kan.

WELLER'S BUFF ORPINGTONS LAY more, grow faster, win. Mating list proves this. \$1.50 per 15. Lewis Weller, Salina, Kan.

BUFF ORPINGTONS. SHOW AND UTILITY birds. Cockerels weighing as high as 10 lbs. Pleasant Hill Poultry Farm, Ellinwood, Kan.

S. C. BUFF ORPINGTON EGGS FOR hatching. 75c for 15, or \$4.00 per 100, from fine birds. Mrs. S. S. Tate, Orlando, Okla.

241 EGG STRAIN. BUFF ORPINGTONS. 200 choice cockerels, hens and pullets. Catalogue free. Walter Bardsley, Neola, Iowa.

LARGE, PURE BRED S. C. BUFF ORPINGTON cockerels, \$2.00 and \$3.00 each. Mrs. A. Gfeller, Chapman, Route 3, Box 28, Kansas.

25 WHITE ORPINGTON COCKERELS \$2 and \$3 each. Every bird guaranteed. Walter Johnson, R. F. D. No. 3, Coffeyville, Kansas.

S. C. CRYSTAL WHITE ORPINGTONS Direct from Kellerstrass' \$30.00 matings, \$1.50 each. Eggs \$1.00 for 15. Mrs. R. Helm-baugh, Sedan, Kansas.

FOR SALE. BUFF ORPINGTON COCKERELS. Grand sire was imported and cost \$150.00 in England. Three to five \$3. Clara B. Barber, Corbin, Kan.

S. C. BUFF ORPINGTON COCKERELS AND pullets. Eggs, 30 \$2.25, 100 \$5.50. Parcels paid 3rd zone. (This farm for sale.) White House Poultry Farm, Salina, Kan.

FOR SALE—THE VERY BEST BRED Black Orpington roosters. Also booking orders for eggs for setting. Lou Bordenkircher, Vinita, Okla., care R. S. G. Co.

35 BUFF ORPINGTON CKLS. FOR SALE; early hatched; large, big boned. Write for prices on stock. Eggs and baby chicks. Pleasant Hill Poultry Farm, Ellinwood, Kan.

BUFF ORPINGTON CKLS. WINNINGS, Topeka, fourth ckl.; Emporia, first cock, first hen, second pullet, second pen. Prices right. A. R. Carpenter, Council Grove, Kan.

WHITE ORPINGTONS—EGGS FROM always healthy, vigorous birds bred for years for heavy laying. \$1.50 setting; \$6 hundred, express paid. Some good cockerels. J. H. Lansing, Chase, Kansas.

ORPINGTONS.

S. W. ORPINGTON EGGS. \$1.75 PER 15, postpaid. Hillcrest, Altoona, Kan.

WHITE ORPINGTON COCKERELS, \$3 each. Parent stock Kellerstrass' \$30 matings. Eggs \$3 and \$1 per fifteen. Utility \$5 per hundred. Mrs. W. Patterson, Yates Center, Kan.

S. C. BUFF ORPINGTONS; WINNERS AT Osborne and Downs poultry show 1st cockerel, 1st pullet, 1st pen. Fine cockerel and pullets for sale. Eggs in season. Earl R. Falls, Luray, Kan.

DON'T OVERLOOK OVERLOOK POULTRY Farm. Sweepstakes Orpingtons, Buff and Black. Six correctly mated pens. Mating list ready. Prices right. Chas. Luengene, Box M 149, Topeka, Kan.

CRYSTAL WHITE ORPINGTONS. SIXTY-five eggs on January ninth from one hundred layers. Cockerels, pullets, hens, eggs and chicks for sale. Urbandale Poultry Farm, Butts Bldg., Wichita, Kan.

LANGSHANS.

WHITE LANGSHAN COCKERELS. WM. Wischmeyer, Mayetta, Kan.

WHITE LANGSHAN COCKERELS. EGGS in season. Mattie Rowe, Lane, Kan.

BLACK LANGSHAN COCKERELS \$2.00. Mrs. J. B. Stein, Smith Center, Kan.

BLACK LANGSHANS. PRIZEWINNERS. Write Mary McCaul, Elk City, Kansas.

BLACK LANGSHANS. COCKERELS. Write C. W. Simmons, Elk City, Kan.

WHITE LANGSHANS. GUARANTEED. Write Mrs. Howard Erhart, Independence, Kan.

FINE LARGE PURE BRED BLACK LANGSHAN cockerels. Minnie Manley, Meriden, Kansas.

WHITE LANGSHANS. COCKERELS, PULLETS, eggs in season. Mrs. Geo. McLain, Lane, Kan.

BLACK LANGSHAN COCKERELS SCORING \$3 1/4. Cards furnished. Martha Haynes, Grantville, Kan.

BLACK LANGSHAN COCKERELS AS large and black as they grow. Geo. W. Shearer, Lawrence, Kan.

PURE BLOOD BLACK LANGSHAN COCKERELS; scored; of the Iowa strain; guarantee satisfaction. Chas. Leeper, Harper, Kan.

EXTRA BIG BONED GREENISH GLOSSY Black Langshan cockerels, scored, \$2.50 and \$5 each, guaranteed. H. Osterfoss, Hedrick, Iowa.

BLACK AND WHITE LANGSHANS. WINNERS at Kansas State Fair, state show, and Federation show. Choice mating. Eggs \$2.00 for 15. Range flock \$6.00 for 100. H. M. Palmer, Florence, Kan.

FOR QUICK SALE—60 THOROUGHbred Black Langshan cockerels, weighing 8 to 10 pounds, \$2.50, \$3.00 and \$5.00. Will pay express both ways and refund money, if dissatisfied. Also few White Langshan and Partridge Rock cockerels. Write quick. Frank A. Vopat, Lucas, Kansas.

BUTTERCUPS.

SICILIAN BUTTERCUPS. WRITE DOCTOR Stevens, Caney, Kan.

BUTTERCUPS. COCKERELS \$2.00 EACH. William Parker, Fryer, Okla.

BUTTERCUPS EXCLUSIVELY. ONE EXTRA fine pen only. Eggs \$3.00 per setting. Jon. R. Blair, Russell, Kan.

SICILIAN BUTTERCUP. AND WHITE Runner ducks. Eggs \$1.50 per 15. Roscoe Pfrimmer, Oklahoma City, Okla.

SICILIAN BUTTERCUP COCKERELS AND pullets. The great egg producers. Miss Alice Layton, Fayetteville, Arkansas.

MY TRUE SICILIAN BUTTERCUPS. BEST money can buy. Heavy layers and beautiful. Prosperity and happiness with this breed. Write for circular and prices. W. C. West, 321 Park Ave., Topeka, Kansas.

ANCONAS.

ANCONA COCKERELS \$1.00 EACH. MRS. Bart Owens, Weaubleau, Mo.

ANCONA EGGS FOR HATCHING. 15 \$1.00. 100 \$5.00. Lucile House, Haven, Kan.

ANCONA EGGS \$1.00 TO \$5.00 PER 15. Won 1st cockerel, 3rd pullet at the Topeka State show. D. J. Mackey, Pittsburg, Kan.

SHEPPARD STRAIN SINGLE COMB ANCONAS, non-setters. 100 eggs \$5.00. Also African kaffir seed. Buchele's Spring Branch Poultry Farm, Cedar Vale, Kansas.

GEESE.

THOROUGHbred TOULOUSE GEESE \$4.00 pair. Eggs in season \$2.00 per doz. Mrs. J. H. Sides, Blanket, Tex.

TOULOUSE GEESE. I HAVE A FINE LOT of extra large Toulouse geese for sale at \$2.00 each. Male or female. \$3 for \$5.00. Eggs for sale in hatching season at reasonable price. Ed Sheehy, Hume, Mo.

COCHINS.

PARTRIDGE COCHINS. GILT EDGE strain. You want beauties. We have them. Write me. M. F. Llenard, Burr Oak, Kan.

BUFF COCHINS—GOOD LARGE CKLS. from \$5.00 up. Good utility females \$2.00 apiece. Also show quality on application. J. C. Baughman, Topeka, Kansas.

CORNISH.

DARK CORNISH COCKERELS. KERR McCluggage, Douglass, Kan.

FINE CORNISH COCKERELS. \$1.25 TO \$3.00. Dan Neher, McCune, Kan.

BLUE ANDALUSIANS.

BLUE ANDALUSIAN EGGS \$2.00 PER setting or \$12.25 a hundred. A. A. Neufeld, Route 4, Iman, Kan.

BLUE ANDALUSIANS. GREAT LAYERS. 20 hens laid 2589 eggs 6 1/2 months. Cocks, cks., eggs for sale. John A. Huber, La Crosse, Kan.

CAMPINES.

SILVER CAMPINES. FINE BREEDING pens \$15.00 and up. Eggs in season. Orders booked now. Elmer F. Quigley, Unionville, Mo.

HAMBURGS.

SILVER SPANGLED HAMBURG EGGS \$1.00 per 15. Mrs. Church, Burlington, Colo.

SILVER SPANGLED HAMBURG COCKERELS \$1.00 to \$2.00. Eggs \$1.00 per 15, \$4.00 per 100. Mrs. J. H. Lindsay, Conway Springs, Kansas.

HOUDANS.

HOUDAN COCKERELS. MRS. NETTIE King, Lebo, Kan.

HOUDANS DEPENDABLE—LINE BRED cocks, cockerels, yearling hens and pullets. Prices reasonable. Elm Park Place, Lawrence, Kan.

FIT GAMES.

FIT GAMES. IRISH GRAYS, EGGS \$1.50 for 15. N. F. Baty, Whitesboro, Tex.

MINORCAS.

SINGLE COMB BLACK MINORCA COCKERELS at \$1.00 to \$1.50 each. Sarah Peters, Nashville, Kan.

SEVERAL VARIETIES.

HENS WANTED. THE COPE'S, TOPEKA.

CAPONS WANTED. THE COPE'S, TOPEKA.

COCKERELS WANTED. THE COPE'S, Topeka.

BOURBON RED TURKEYS. ROSE COMB Reds. Mrs. Walter Dixon, Severy, Kansas.

ROSE COMB REDS, SILVER LACE WYANDOTTES. Mrs. Ola Elliott, Delphos, Kan.

WHITE ROCKS, BUFF DUCKS, BOURBON Red turkeys. Mrs. Chas. Snyder, Effingham, Kan.

FOR SALE—WHITE RUNNER DUCKS, Buff Orpington cockerels. Katie Luak, Plains, Kan.

MAMMOTH BRONZE TURKEYS. WHITE Wyandotte cockerels. Alex Thomason, Havana, Kan.

WHITE LEGHORNS, WHITE RUNNER ducks. Eggs. Snyder's Little Diamond Farm, Topeka, Kan.

PREPAID. S. C. WHITE LEGHORN, FAWN and White Indian Runner duck eggs. O. N. Keller, Le Roy, Kan.

PUREBRED S. C. W. LEGHORN AND W. Rock cockerels, \$1.00 each or six for \$5.00. J. R. Hayward, Hope, Kan.

EXTRA FINE BOURBON RED TOMS. Partridge Rock and Buff Orpington cockerels. Sol. Banbury, Pratt, Kan.

FOR NEARLY ALL BREEDS FANCY poultry and eggs. Baby chicks and Duroc hogs. F. Kremer, Manchester, Okla.

EGGS—\$5.00 PER 100. UP; CHICKS 15C up, from thoroughbred stock. All leading varieties. C. & K. Lee, Hastings, Neb.

THOROUGHbred WHITE ROCK COCKERELS \$1 each. Also thoroughbred Bourbon Red toms. Henry Walno, Ames, Kan.

CHOICE MAMMOTH BRONZE TURKEYS and Single Comb Buff Orpington cockerels. Mrs. Perry Higley, Cummings, Kan.

35 LEADING VARIETIES CHICKENS, ducks, geese, turkeys. Eggs and stock guaranteed. Davis Brothers, Lincoln, Neb.

IMPERIAL PEKIN DUCKS FROM PRIZE winners. Stock and eggs. S. C. Brown Leghorn eggs. Hulda Kearns, Girard, Kan., R. 2.

PURE BRED BARRED ROCK AND PART-ridge Cochins cockerels \$1.50, \$2.00. Eggs in season. Mrs. J. R. Rathbun, Simpson, Kan.

BARGAIN IF TAKEN SOON. PART-ridge Wyandottes, Single Comb Reds, Rose Comb Whites. W. W. Eddy, Havensville, Kan.

FOR SALE. KELLERSTRASS WHITE Orpington cockerels \$1.00. Bronze turkey toms \$3.00. Geo. Roggendorf, Carlton, Kan., R-1.

PURE WHITE RUNNER DUCKS, BUFF Orpington chickens. Fancy stock. Best breeding. Free mating list. J. Cox, R. 8, Topeka, Kan.

SILVER CAMPINE COCKERELS AND eggs, reasonable prices. Also S. C. W. Leghorn and White Orpington eggs. F. L. Matthews, Sterling, Kan.

FINE CKLS. SATISFACTION GUARANTEED. Silver Laced Wyandottes, White Wyandottes. Spangled Hamburgs. Stella Snider, Piedmont, Kan.

UTILITY COCKERELS \$2.50 EACH. S. C. White Leghorns, Light Brahmas, Barred Rocks, S. C. R. I. Reds. Poultry Dept. H. S. A. C. Manhattan, Kan.

BOURBON RED TURKEYS. WORLD'S best strain. Great big, vigorous, farm raised, deep breasted birds. Also white egg Indian Runners. These are from prize winning stock. Eleonora Poultry Ranch, Brighton, Colo.

SEVERAL VARIETIES.

BARRED ROCK COCKERELS. LATHEN strain. \$1.00 each. Fawn and White Indian Runner drakes 75c each. Florence Edwards, Newkirk, Okla.

FOR SALE—GOLDEN SEBRIGHT BANTAMS. White Wyandottes and White Orpington cockerels. Price \$1 to \$2. Bert Stevens, Vinland, Kan.

BUFF LEGHORN COCKERELS \$1 TO \$3. Also one full blood big boned Bourbon Red tom for \$3.50 if taken soon. Mrs. F. B. Wempe, Frankfort, Kan.

ROSE COMB WHITE LEGHORN, SILVER Spangled Hamburg, Black Langshans, Bourbon Red turkeys, cockerels. Chas. Gresham, Bucklin, Kansas.

ROSE COMB AND SINGLE COMB RHODE Island Red cockerels, \$2.00 each. Fawn and White Indian Runner drakes \$1.00 each. Mrs. F. A. McGuire, Paradise, Kan.

LENNAPPE STRAIN R. C. RED COCKERELS, \$3.00, \$5.00 each. Silver Wyandotte cks. Hen hatched baby chicks 10c each. Order early. Alta Murphy, Luray, Kan.

COCKERELS—SCORED AND UNSCORED birds at farmer's prices. Indian Runner and other ducks, geese and turkeys. Norfolk Breeders' Co-operative Assn., Norfolk, Neb.

FOR SALE—HIGH GRADE BOURBON Red turkeys; hens and toms. Also high-grade Rhode Island Red cockerels and pullets. Write for full particulars. F. M. Kern, Springville, Ind.

WHITE HOLLAND TOMS \$5.00. HENS \$3.50. White Indian Runner drakes \$2.00. White Wyandotte cockerels \$1.50; hens \$1.00. Eggs and day old chicks for sale in season. J. W. Rider, Henrietta, Mo.

BUFF ROCKS, S. C. BLACK MINORCAS, Mammoth Pekin, Buff Orpington ducks, Cockerels, drakes, ducks. From blue ribbon winners. Eggs for hatching. Prices reasonable. Henry Blauer, Bern Kan.

FOR SALE—THOROUGHBRED RANGE raised mammoth W. H. turkeys. Hens \$3.50. Toms \$5.00 each. Also a choice lot of Single Comb Brown Leghorn cockerels, \$1.00 each. Mrs. C. May, Garfield, Kan.

INCUBATORS.

A BIG, STOUT, LUSTY CHICK FROM every hatchable egg. The proven record of Fairfield Incubators everywhere. Free catalog and poultry book. Sam Thompson, Fairfield Incubator Co., No. 56 Main St., Fairfield, Nebraska.

MISCELLANEOUS.

POULTRY PRINTING—LETTERHEADS, envelopes, catalogs. Ask for prices. Bedford, Platteville, Colorado.

20,000 BABY CHICKS AND STOCK. YOU buy the best thoroughbred baby chicks, guaranteed, at Colwell's Hatchery, Smith Center, Kan.

FIFTY BABY CHIX FREE. NEW HOT water jug brooder. Eggs for hatching. Free circular. Kansas Poultry Company, Norton, Kansas.

335 EGGS YR. PER HEN GUAR. ASK free sample, test, letters, etc. Quick work on unlaying hens. Be convinced at my expense. 1112 Judkins, Seattle, Wash.

POULTRY PRINTING—FINEST POULTRY printing made in the U. S. The kind that brings business. Cuts at all breeds. Tell us what you need. Southern Printing Co., Perry, Okla.

MY DISINFECTANT POULTRY ROOST fills long felt want. Prevents poultry diseases. Plans and formula one dollar. Cheerfully refunded unless satisfactory. W. E. John, Siloam Springs, Ark.

FIRELESS INCUBATOR. BEEN TESTED. Proved to be successful. Inexpensive, non-explosive, nothing like it. Pat'd 1914. Entirely new. Try one. Write for particulars. Bess and Ishell, Waukomis, Okla.

POULTRY RAISERS SUCCEED WITH Mandy Lee Incubators. Lee's Lice Killer, Germozone, and Lee's Egg Maker. Sold by dealers or direct. Send for Catalogs and Lee's Poultry Book. Free. Geo. H. Lee Co., Mfrs., Dept. 37, Omaha, Neb.

LIVE STOCK

SHEPHERD PONIES. CHARLES CLEM-mons, Coffeyville, Kan.

HEREFORD BULLS. SEED CORN. W. R. Hildreth, Oswego, Kan.

STANDARD BRED STALLIONS FOR SALE right. D. H. Bibens, Larned, Kan.

REGISTERED RED POLL COWS FOR sale. D. F. Van Buskirk, Blue Mound, Kan.

REGISTERED SHETLAND MARE AND stallion 5 years old. Spotted. G. H. Summer, Gridley, Ill.

PERCHERON HORSE FOR SALE CHEAP if taken soon. Sure breeder. A. W. Toews, Inman, Kan.

REGISTERED HAMPSHIRE SWINE BRED in the "Blue" priced to sell. Fred G. Triplett, Lyons, Kan.

WANTED—TWO REGISTERED RED Polled bulls, unrelated. Near R. I. line. R. Hartwig, Goodland, Kan.

REGISTERED HOLSTEIN BULL 3 YRS. old, fine individual. Priced to sell quick. C. W. Stoddard, Olathe, Kan.

FOR SALE—TWO YEAR OLD REGIS-tered Jersey bull of high class breeding. John Homfeld, Frederick, Kan.

POLLED HEREFORDS 3 GOOD YOUNG cows; one extra good herd bull, one good bull calf, 2 good heifer calves. Write at once. Ben Anderson, Route No. 1, Lawrence, Kan.

FOR SALE—ONE THOROUGHBRED Percheron stallion. One black jack, 4 jennets. W. M. Dice, Tecumseh, Kan.

FOR SALE—FIVE NICE YOUNG HOL-stein cows. Fresh soon. Raised on my farm. R. E. Hopkins, Attica, Kan.

FOR SALE—TWO AMERICAN BRED saddle stallions. Write for price and breeding. Jno. O. Evans, Asherville, Kan.

HIGH CLASS JERSEY BULLS AT A BAR-gain; from great dams and ready for service. Chester Thomas, Waterville, Kan.

SIX REGISTERED GALLOWAY BULLS. Also registered Percheron stallion, coming two. Write for prices. J. M. Innes, Beardslay, Kan.

FOR SALE—JERSEY BULL, FOXY DARR; sire, Loneer's Favorite; dam, Fancy of Cherry Grove; 2 yrs. old. E. S. McKittrick, Cimarron, Kansas.

GOOD HEAVY STALLION AND JACK, good breeders, prompt servers; can show excellent colts from each; 6 and 8 years old. D. W. Little, Conway Springs, Kan.

WANTED SHEEP—A SMALL CAR OR more of native breeding ewes. Give full description as to age, breed, weight. Also price in first letter. Box 323, Halstead, Kan.

FOR SALE—REGISTERED PERCHERON stallion, Mammoth Jack, three jennets, all good ones. Trade for other stock. Red clover seed \$10 bu. E. Gathers, Maple Hill, Kan.

TWO GOOD, BLACK, REGISTERED Percheron stallions 3 and 5 years for sale right. Also good registered jack. Henry J. Wahlenmaier, Arkansas City, Kan., R. No. 3.

FOR SALE, AT A BARGAIN, ONE Percheron stallion "grade," weight eighteen hundred and excellent breeder; six years old; color black. H. B. Humble, Sawyer, Kansas.

JAUNEAU, PURE BRED IMPORTED black six-year-old Percheron stallion, will be offered in T. H. Smyth public sale three miles south of Beloit February 9th. Also 31 cattle, 75 coming 2 and 3 year old steers.

SEEDS AND NURSERIES

COW PEAS—NEW ERA. SAMUEL KEL-ler, Caney, Kansas.

TWO CARS CANE SEED FOR SALE. Geo. H. Tate, Lakin, Kan.

ENGLISH BLUE GRASS SEED, \$2.25 PER bu. H. G. Mosher, Schell City, Mo.

STRAWBERRY PLANTS \$2.00 PER 1,000. List free. J. R. Sterling, Judsonia, Ark.

CHOICE NONIRRIGATED ALFALFA SEED 14 cts. per lb. Wallace Libbey, Larned, Kan.

WANTED 100 BU. ALFALFA SEED DI-rect from grower. Ernest Raasch, Norfolk, Neb.

DRY LAND ALFALFA SEED FOR SALE. \$5, \$7.50 and \$8 per bu. W. B. Sheeder, St. Francis, Kan.

PALMETTO ASPARAGUS—FINE ROOTED plants, \$1 hundred, postpaid. McCord Bros., Elk City, Kan.

BUY TREES AT WHOLESALE PRICES. Fruit Book free. Write Wichita Nursery, Box B, Wichita, Kan.

SWEET CLOVER—WHITE AND YELLOW; biennial; choice seed; prices lower. R. E. Purdy, Falmouth, Ky.

NORTHERN GROWN YELLOW BIENNIAL sweet clover. Write for prices. W. M. Budding, Rockford, Ill.

FOR SALE—500 TONS OF HAY; CORN, kafir corn and cane seed. Ask for prices. A. M. Brandt, Severy, Kan.

FOR SALE—RED TEXAS SEED OATS. Extra heavy, 75c per bushel. Ben Anderson, R. No. 1, Lawrence, Kan.

PURE SUDAN GRASS SEED. GUARAN-teed free from Johnson grass. 50c per lb. W. R. Mitchell, Verden, Okla.

SUDAN. GUARANTEED FREE FROM Johnson grass, 5 to 10 pounds 40c pound. Charlie Clemmons, Verden, Okla.

SUDAN GRASS AS GOOD AS THE BEST. 45 cts. per lb., this station, sacks free. W. A. Beaumont, El Dorado, Kansas.

WE WANT ANY PART OF CAR LOAD OF good alfalfa seed. Send samples and price. Brooks Wholesale Co., Ft. Scott, Kan.

SUDAN GRASS SEED. GUARANTEED free from Johnson grass, 50 cents per pound. Walter Jenkinson, Pond Creek, Okla.

FANCY SWEET CLOVER SEED—PURE white, hulled, re-cleaned; fourteen dollars per bushel. F. O. B. J. F. Sellers, Florence, Kan.

FOR SALE—SPANISH PEANUTS, WELL matured, five cents pound. Large quantities cheaper. John W. Burkes, Aline, Okla.

E. H. FISHER, ELKHART, KAN. BUYER and shipper of grain and seeds. Maize, kafir, feterita, 2nd cane seed in car lots are less.

WHITE BLOSSOM SWEET CLOVER, hulled, \$11 per bushel. Robert Reynolds, Eskridge, Kan.

SUDAN GRASS—KANSAS GROWN. GUAR-anteed free from Johnson grass. Officially inspected and approved. Wilson-G. Shelley, McPherson, Kan.

ALFALFA SEED—WESTERN KANSAS dry land alfalfa seed for sale. Samples and prices on application. P. O. Box 276. D. O. Chessmore, Atwood, Kan.

FOR \$1 I WILL SEND YOU 8 TWO YEAR budded apple, pear or peach or 5 cherry trees, or 75 blackberry, raspberry or dew-berry or 20 grape, gooseberry, currant or rhubarb, or 100 asparagus or 50 ever bearing or 200 spring bearing strawberry plants, or 100 cedar or other evergreens or 8 roses. Catalogue free. Manhattan Nursery, Manhattan, Kansas.

SEED CORN. MOST DEPENDABLE VA-rieties, hand picked and graded. Description and prices free. J. B. Armstrong, Shenandoah, Iowa.

SWEET CLOVER SEED. PURE WHITE blossom variety. Hulled and re-cleaned. New seed. \$14 a bu., sacks free. Geo. Bingham, Bradford, Kan.

AM MAKING SPECIAL PRICES ON 100 lb. lots of Sudan seed for next thirty days. If you buy before writing me we both lose money. Box 842, Lubbock, Texas.

10 ELBERTA AND 5 CHAMPION PEACH trees for 95c by parcel post prepaid. Pruned ready to plant. Desk "C," Wellington Nurseries, Wellington, Kansas.

SUDAN GRASS SEED, 40C POUND. QUAN-ties less. Pure high grade farm seed. By grower, on experimental farm. G. H. Branham, Slaton, Lubbock Co., Texas.

ALFALFA SEED: CHOICE SEED GROWN by farmers around Winfield—thoroughly re-cleaned by us. Samples and prices on application. Silver Seed Co., Winfield, Kan.

SENEKER'S EARLY BLACK HULL WHITE kafir, 15 days earlier than old variety, about the same in growth, yields heavy. Pure bred seed, graded \$2.00 per bu. F. O. B. Okeene, Okla. G. W. Seneker.

SWEET CLOVER SEED. PURE WHITE blooming variety. Unhulled, re-cleaned 24c and hulled, 27c per pound. Unhulled \$14 and hulled \$16 per bushel, each of 60 pounds. E. G. Fennup, Garden City, Kan.

SUDAN GRASS SEED—OFFICIALLY IN-spected and approved. All about it—and purity guaranteed with every sale. 50c lb., 10 lbs. \$4.25 prepaid. Weight 48 lbs. per bu.—Not 32 lb. kind. C. E. White Seed Co., Plainview, Texas.

WANTED: 5 OR 6 BUSHELS OF REAL good seed corn. Deep grain, small cob, white or yellow medium early, is the kind wanted. Must be pure of the kind. Nothing but the best wanted. W. P. Gamp, Euchas, Delaware Co., Okla.

WE HAVE A LIMITED QUANTITY OF pure inspected Sudan grass seed that we are closing out and it will pay you to write for our special prices before buying elsewhere. Agents wanted. Reference, First National Bank, Lubbock, Texas. Kimbro & Parks, Lubbock, Texas.

SEED CORN—IMPROVED, HIGH YIELD-ing strains—direct from grower to you. Same great corn that was so much in demand two years ago, following special descriptive article in Mail and Breeze. It's truly a great corn. Write for particulars. Bristow Seed Corn Farm, Wetmore, Kansas.

NORTHERN KANSAS KAFIR AND feterita seed heads. Kafir is Black hulled white, early maturing, heavy yielding; result of ten years' careful field selection. In head only. 5 cts. per lb. in any amount. Add postage for parcel post quantities. J. W. Berry, Jewell City, Kan.

SEEDS—WE ARE PREPARED TO BOOK your orders for the following seeds. Alfalfa, cane, white or yellow maize, kafir, feterita; German, golden, Siberian, hog millets; in car load lots or mixed car. We live in the heart of the growing district where the above seed grows. Samples sent on request. L. A. Jordan Seed Co., Winona, Kan.

LANDS

GOOD STOCK RANCH FOR RENT. AD-dress C. B. Gillett, Olsburg, Kan.

BUY SUMNER COUNTY, KANSAS FARMS. H. H. Stewart, Wellington, Kansas.

TRADE IMPROVED FARM FOR WEST-ern farm. Box 36, Armstrong Springs, Ark.

CALIFORNIA ORANGE AND OLIVE LAND for sale. Lineker Land Co., Palermo, California.

120 CLOUD COUNTY, IMPROVED, GROW-ing wheat, \$5400. Walter Axtell, 1315 Lincoln, Topeka, Kan.

CENTRAL MICHIGAN FARMS—FRUIT, grain or stock. Write for free list. Phillip O. Lippert, Stanton, Mich.

SAY: DO YOU WANT TO BUY A GOOD farm cheap? If you do, write me for description and price of farms. F. D. Greene, Longton, Kan.

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

WRITE US, LARGE AND SMALL FRUIT and grain farms. Good water and climate. Lowell Realty Company, Gentry, Benton county, Arkansas.

FOR SALE—TWO QUARTERS EASTERN Colorado land \$700.00 per quarter; some improvements; can make some terms. F. W. care of Mail and Breeze.

7 A. WELL IMPROVED, ALSO TWO TOWN lots adjoining the 7 a., will sell or exchange for larger tract. Owner, Route 3, Box 51, Galena, Kan.

FOR SALE: ONE HALF-SECTION, ONE quarter and one 80 near good town with two railroads. For particulars, write Henry Klaumann, Cuba, Kan.

40 ACRE FARM; FOR QUICK SALE ONLY \$385.00. \$185 cash, terms on balance. No trade. If you don't mean business don't answer this adv. Crain, Licking, Mo.

SUNNY SOUTHERN OREGON—40 ACRES, partly river bottom; running stream; near railroad; \$550; \$150 cash, balance easy. G. Wynn Wilson, 903 Chamber of Commerce, Portland.

FOR SALE BY OWNER—160 A. RIVER bottom farm, mile from town, 90 a. in cultivation, fenced and cross fenced, mostly with woven wire, neat improvements, abundance of good water and timber, beautiful home and ideal location; will sell at a sacrificed price. M. T. Dye, Bloomington, Kan., R. R. 1.

\$2500 WILL HANDLE THIS DEAL. 160 acre farm one mile from good live R. R. town, 80 acres in wheat. Price \$6000. Balance terms to suit. E. F. Foulds, Gate, Okla.

400-ACRE RANCH IN BACA COUNTY, southeastern Colorado; fair improvements; sell \$6,000 or exchange for smaller in southeastern Kansas. Thos. D. Hubbard, Kimball, Kan.

ARKANSAS RICE LAND. 240 ACRES, unimproved, 4 miles to railroad, near Brinkley. Low price, easy terms. For particulars write Aug. Isenburg, Siloam Springs, Arkansas.

110 ACRES BOTTOM LAND ADJOINING town, creek through place; 5 room house and barn; 54 town lots go with place. Price \$5,500. C. E. Hall, care Hoyt State Bank, Hoyt, Kan.

80 A. EXTRA GOOD LAND IN WASH-ington Co.; good improvements, never falling well; 10 a. alfalfa; 4 miles to good town. \$6,000. Mrs. A. Bellows, Webster, Kansas.

QUICK CASH FOR YOUR PROPERTY OR business no matter where located. Low fees. Quick sales. Special terms to owners. DeDl. F. Co-operative Salesman Co., Lincoln, Neb.

2500 ACRES CUT OVER PINE LANDS IN central Louisiana. Gently rolling. Good soil, good water, fine climate, low prices and good terms, in small tracts to actual settlers. John Truan, Forest Hill, La.

FREE GOVERNMENT LAND. NEAR 500,000 acres in Arkansas now open to homestead entry. Guide Book with lists, laws, etc., 25c. Township map of state, 25c additional. L. E. Moore, Little Rock, Ark.

JEWELL COUNTY, KANSAS. A GOOD, well improved 160 acre farm for sale. Good soil, plenty of water. Owing to ill health, must sell at once. \$10,500.00, good terms. R. M. Cauthorn, Mankato, Kansas.

BIG MONEY IN SOUTH MISSOURI LAND. 20 acres \$400. \$5 monthly; 40 acres \$700; 80 acres \$1200. Others are making money. Why not you? Literature, maps free. A. Merriam, Ellis & Benton, Kansas City, Kansas.

RELINQUISHMENT, 300 ACRES, ON creek; plenty water always; pumping plant, free range, school 1/2 mile; sell for less than cost of improvements; good small stock proposition. Address Box 3, Las Animas, Colo.

WANTED—CATHOLIC FAMILIES TO LO-cate around Turon, Kan. New church just built, no debt. Good imp. farms, corn, wheat and alfalfa land. Prices from \$25 to \$50 per a. fine terms. John Collopy Realty Co., Turon, Kan.

PRODUCTIVE LANDS; CROP PAYMENT or easy terms along the Northern Pac. Ry. in Minn., N. D., Mont., Idaho, Wash. and Ore. Free literature. Say what state interests you. L. J. Bricker, 46 Northern Pac. Ry., St. Paul, Minn.

FOR SALE OR RENT—40 ACRES, 3 MILES of Carbondale, Kan.; 30 under cultivation, balance pasture and little timber on creek; 2-room house, barn, cow lot, chicken house and corn crib; 1 mile to good school; 3 to church and store; fine neighborhood. Am a widow and must sell or rent quick. Bargain. Mrs. Rachel Layman, Carbondale, Osage Co., Kan.

FREE GOVERNMENT LAND FOR HOME-seekers in the Montezuma Valley, Colorado. I have just returned from inspecting these lands in the interest of some of my friends. These lands are very rich in agriculture products. Climate fine. Water good to fair and plenty of timber. I am going to locate in this valley myself, and would like to take a number of good families with me. No bachelors wanted. For full information write to A. M. Finley, Ellis, Kan. P. S. Half million acres now open for actual settlers.

CHASE COUNTY, KANSAS. BARGAINS—320 acres, ninety acres under cultivation part bottom, balance fine pasture and mow land, abundance of water, 7 room house, other improvements, 6 miles town, route and tele., near school; price \$30 per acre, terms till 1945, on 1/2; no trade. 160 acres, 60 acres first bottom, cult., 25 alfalfa, bal. pasture, good improvements, best water, timber, 2 miles town; price \$8000.00. Mortgage \$3000 long time. Trade equity for smaller farm east Kan. A. J. Klotz & Co., Cottonwood Falls, Kansas.

TWO EXCEPTIONAL BARGAINS. 160 acres 3/4 mile from town on Santa Fe in Harper Co., Kan. 80 acres in cult. with grow sweet clover and alfalfa. \$3,600. 1/2 cash, and terms. 160 acres in north central Ark., healthy country, 4 room house, barn, outbuildings, 18 acres cultivated, fruit, valuable oak timber, 4 miles to town on Missouri Pacific, school 1/2 mile, churches near. Abundant stock range. \$800. 1/2 cash and terms. Both rented. Other business far west. No trades. Quick sale or off market. Address owner, Wm. Cosand, Haviland, Kan.

FINE TOPEKA HOME FOR SALE—I WILL sell my place in Topeka, located on the most beautiful street in the city, near limits of city, two blocks from street car, two blocks from the school, fine old shade, park like surroundings, lot 61 1/2 by 205 feet, eight room house, modern in every detail, hardwood finish, four fine mantels and grates, of oak, brick and tile, big sleeping and dining porch, both screened, barn, poultry houses, etc., etc. Fine place for farmer who wants to move to the capital city. Price \$5,500, worth more. Cash or terms. Interest only 6 per cent instead of the usual 7 per cent. No trade. Address R. W. E., care Mail and Breeze.

LUMBER.

LUMBER—HOUSE AND BARN BILLS DI-rect from mill to consumer. Wholesale price. Shipped anywhere. McKee Lumber Co., Shawnee, Okla.

1915—LUMBER! BUY IT RIGHT! WE'LL save you big money. Farmer's trade a specialty. The mill direct to you. Think of it. No. 1 dimension \$10 plus freight. We require no payment until material is unloaded and proven satisfactory. Send bill now for estimate. Local Lumber Company, Tacoma, Washington.

FARMS WANTED

WANTED—TO HEAR FROM OWNER OF good farm or unimproved land for sale. C. C. Buckingham, Houston, Texas.

WANTED TO HEAR FROM OWNER OF good farm for sale. Send cash price and description. D. F. Bush, Minneapolis, Minn.

SELL YOUR FARM OR BUSINESS QUICKLY for cash no matter where located. Information free. Black's Business Agency, Desk 9, Chippewa Falls, Wis.

FARMS WANTED. WE HAVE DIRECT buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 28 Palace Bldg., Minneapolis, Minn.

WANTED—A FARM TO WORK ON shares, owner to furnish everything. Good reference. Box 13, Americus, Kan.

I HAVE SOME CASH BUYERS FOR SALEABLE farms. Will deal with owners only. Give full description, location, and cash price. James P. White, New Franklin, Mo.

FOR SALE

PEDIGREED FEMALE COLLIE PUPPIES. R. A. Fullerton, 1304 Tracy, Kansas City, Mo.

BULL TRACTOR FOR SALE. GOOD CONDITION. A bargain. Will Davis, Altamont, Kan.

BELGIAN HARES—FINE HEALTHY stock. \$1.25 each. W. G. Thorson, Aurora, Colorado.

BELGIAN HARES—RUFUS REDS, FLEMISH Giants, Golden Fawns. L. V. Carr, Garden City, Kan.

PRATT CITY PROPERTY FOR SALE OR trade for land or breeding stock. Wilbur King, Cullison, Kan.

BALED ALFALFA, PRAIRIE AND BOTTOM hay, kafir corn and feterita. A. B. Hall, Emporia, Kan.

WANTED—FOX TERRIER DOGS. WRITE what you have for sale. This ad will appear but once. W. J. Honeyman, Madison, Kan.

FOR SALE—A SEVEN PASSENGER JACKSON automobile in a good running order; also a 10 year old imported registered Percheron stallion; black; weight 2000 lbs. Address Holger Anderson, Concordia, Kan.

WE CAN SUPPLY YOU WITH PRAIRIE hay, can ship from three to five cars per week. Have both number one and number two. If you are needing hay come and see us. Also have a limited amount of alfalfa hay. Bradfield & Hathaway, Olpe, Kan., Lyon Co.

EXTRAORDINARILY GOOD CANE SYRUP, made from the juice of pure Ribbon cane. Contains all sugars and no chemicals. Especial care given to cooking and skimming, which guards against summer fermentation. Prices free. Sample can 10c. Telmah's Plantations Mills, Houston, Texas.

FOR SALE—NEW ELEVATOR IN 1,500 southeast Kansas town. Galvanized iron bldg. 140x29 ft. Mill portion 2-stories. Bin capacity 6,000 bu. Storage room 15 cars. Fully equipped to manufacture corn products. Cheap, cash price for quick sale. No trades. Louis W. Johnson, 310 Commerce Bldg., Pittsburg, Kan.

WE HAVE JUST TRADED FOR A STOCK of plows including gangs, walkers, breakers and cultivators. These are all new goods right from factory to your home. Twelve inch walker \$7.50. Sixty dollar gang plow for \$35.00. Six shovel cultivator \$22.50; four shovel cultivator \$17.50. Write us for further information. Whan Trading Co., Marysville, Kansas.

FOR SALE OR TRADE

CLEAR INCOME PROPERTY FOR FARM, value about \$10,000. Owner 68, Strong, Kan.

MERCHANDISE AND INCOME FOR land; describe and price yours. Funk, Gridley, Kan.

TO EXCHANGE—160, FINE, IMPROVED, in corn belt, near Almena. Equity \$3500, for wheat quarters. N. L. Wilson, Beloit, Kan.

ELECTRIC WHEEL CO. TRACTOR TO trade for Bull tractor; a good plow engine, cost \$650.00. Geo. McWilliams, Halstead, Kan.

TO EXCHANGE FOR LAND OR LIVE-stock, 30 lots Kansas City. Clear. Will take tax valuation. W. D. Shore, Simpson, Kansas.

FOR SALE OR EXCHANGE FOR STALLION. Gray jack, good individual. Exceptional good breeder. Sound. F. W. Nichol, Wilder, Kan.

CALIFORNIA VACANT OR IMPROVED TO exchange for Middle West farm, business property or merchandise. Fred C. Conner, Wichita, Kansas.

MALE HELP WANTED

GOVERNMENT FARMERS WANTED. AGE 21 to 50. Make \$125 monthly. Write, Ozment, (38 F) St. Louis.

WANTED—RAILWAY MAIL CLERKS. \$75 month. Examinations soon. Sample questions free. Franklin Institute, Dept P 51, Rochester, N. Y.

I CONDUCTED GOVERNMENT EXAMINATIONS—can help you secure railway mail or other government positions. Trial examination free. Ozment, (38 R) St. Louis.

MOTORMEN—CONDUCTORS; INTERURBAN; earn \$80 monthly; experience unnecessary; qualify now; state age; details free. Electric Dept. 813 Syndicate Trust, St. Louis, Mo.

SALESMEN WANTED FOR FULL LINE fruit and ornamental trees. No experience necessary. Full or part time as you prefer. Prompt pay each week. The Lawrence Nurseries, Lawrence, Kansas.

MALE HELP WANTED—LIVE YOUNG farmers or country school teachers in spare time can make \$10 to \$25 a week selling our Farm Record and Account Book. Every farmer needs one. Nothing like it. Southern Printing Co., Perry, Okla.

WANT CAPABLE MAN, INVEST \$5000.00, take charge improved irrigated alfalfa ranch, near railroad town, western Kansas; ample feed and pasture. Intend build dairy barns, silos, and buy herd milch cows. Fine proposition. K. care Mail and Breeze.

FARMERS—GET U. S. GOVERNMENT jobs. \$65 to \$150 month. Short hours. Easy work. Vacations. Common education sufficient. Pull unnecessary. Write immediately for list of positions now obtainable and information how to get appointment. Franklin Institute, Dept P 51, Rochester, N. Y.

HELP WANTED

CHRISTIAN HELPERS WANTED. MODEL colony. Farming. Jno. Marriage, Mullinville, Kan.

1915. EARN YOUR TRIP TO THE FAIR. Send 15c for samples and particulars. B. Neff, 932 So. Main St., Los Angeles, Cal.

BE A DETECTIVE. EARN \$150 TO \$200 per month; travel over the world. Write Supt. Ludwig, 401 Westover Bldg., Kansas City, Mo.

15,000 GOVERNMENT JOBS OPEN TO men and women. \$65.00 to \$150.00 month. Write for list. Franklin Institute, Dept P-51, Rochester, N. Y.

WILL PAY RELIABLE WOMAN \$250 FOR distributing 2,000 packages Perfumed Soap Powder in your town. No money required. M. Ward & Company, 218 Institute Place, Chicago.

FIREMEN AND BRAKEMEN; \$100 MONTHLY; experience unnecessary; hundreds needed by the best railroads everywhere; particulars free. 796 Railway Bureau, E. St. Louis, Ill.

AGENTS

YOUNG MAN, WOULD YOU ACCEPT A tailor-made suit just for showing it to your friends? Then write Banner Tailoring Co., Dept. 978, Chicago, and get beautiful samples, styles and a wonderful offer.

AGENTS—SOMETHING NEW—FASTEST sellers and quickest repeaters on earth. Permanent, profitable business. Good for \$50 to \$75 a week. Address, American Products Co., 521 Third St., Cincinnati O.

SITUATION WANTED

MARRIED MAN WISHES POSITION ON farm. A No. 1 man with stock. Address 1115 Broadway, Parsons, Kansas.

COLLEGE MAN WITH EXPERIENCE IN diversified farming, desires position as manager. Experienced with registered stock. Single. Good habits. Address, W. J. Whipple, Winona, Minnesota.

PATENTS

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

PATENTS THAT PAY. \$600,000 MADE BY clients. 2 wonderful Guide Books free. Send model for free search. E. E. Vrooman & Co., 885 F., Washington, D. C.

IDEAS WANTED—MANUFACTURERS ARE writing for patents procured through me. Three books with list 200 inventions wanted sent free. Advice free. I get patent or no fee. R. B. Owen, 34 Owen Bldg., Washington, D. C.

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

HEDGE POSTS

POST WANTED—I WANT A SMALL CAR of Osage hedge fence post. Chas. J. Nelson, Yuma, Colo.

SILOS

WE WANT AGENTS TO SELL OUR steel silo fixtures. Sixty-ton silo \$75. The original flooring silo. In use in fourteen states. Liberal commissions. Get booklet with testimonials. Bonita Farm, Raymore, Mo.

OILS

BEST AUTOMOBILE ENGINE, CYLINDER oils, greases, crude dip, kerosene, etc. Save money by writing for price list. Neosho Valley Oil Co., L. J. Hurt, Mgr., Station "E," Kansas City, Mo.

Farm Credit 20 Years Ago

I see much in print nowadays concerning the back-to-the-farm movement, keeping the boys on the farm, rural credits, and other important questions. We scarcely pick up a newspaper without seeing something on one of these questions.

Twenty years ago none of these subjects was ever mentioned. One reason was because any average farmer could get all the money he needed to carry on his business. If he had a bunch of hogs that were not quite ready for market and he wished to hold them until they were ready but needed a little more money to carry on his farming, he went to the bank and borrowed the money. This is almost out of the question now.

Then if a farmer had plenty of rough feed and wanted some cows or heifers or steers to feed, he would go to Kansas City and buy them, although perhaps he had not a dollar of his own. It was no trouble for him to borrow it then. Some persons say, in the argument brought against feeding cattle on borrowed money, that a great many feeders

The tendency of our day is toward too much legislation—too many ill-advised, useless, contradictory and ambiguous laws, inevitably the breeders of misunderstanding, strife and litigation. Your effort should be to simplify existing laws and to make every new enactment so simple that the most humble citizen may understand and respect it, so plain and explicit that the most powerful cannot evade it.—From Governor Capper's Message to the Kansas Legislature.

went broke. While this is true, the cattle were kept until they were older and weighed more and consequently produced more beef, which certainly cut the cost of living.

In those days more stock of all kinds was kept by nearly all the farmers, and so it took more help the year round to care for them. I dare say 75 per cent of the farmers kept a hired man nine months out of the year. I do not believe 10 per cent of the farmers keep hired men six months of the year now. And it is because they are not able to get capital to work on and so do not produce so much as they formerly did.

Some persons say that farmers are getting better fixed financially and do

MISCELLANEOUS

MONEY TO LOAN ON KANSAS FARMS. Ella Peacock, Topeka, Kan.

FOR BELGIAN HARES WRITE J. W. Wampler, Garden City, Kan.

WANTED TO BUY SLIGHTLY USED small threshing machine with web stacker. Address Lock Box 153, Greensburg, Kan.

DRIED APPLES? FIRST CLASS; 100 pounds \$7.75 freight paid. Sample 25 cents. Carlocks Orchard, Whitener, Arkansas.

LONG GREEN LEAF TOBACCO TO CHEW or smoke. Twenty and twenty-five cents per pound. 100 pounds delivered. Cutler and Gallagher, Holt, Mo.

100 NOTEHEADS AND 100 ENVELOPES \$1.00; 250 each \$2.00; 500 each \$3.00 postpaid. Best value. Send for samples. Letterhead Shop, 1025 Broadway, Kansas City, Mo.

WILL PAY RELIABLE MAN OR WOMAN \$12.50 to distribute 100 free pkgs. Perfumed Borax Soap Powder among friends. No money required. M. B. Ward Company, 218 Institute Pl., Chicago.

THE BENNETT TYPEWRITER. NO REBUILT junk, but new and guaranteed. Price \$18.00 express prepaid. Send today for descriptive literature and trial offer. Boyero Specialty Co., Distributors, Boyero, Colo.

BIG BARGAIN FOR SHORT TIME ONLY. Send only 10 cents and receive the greatest farm and home magazine in the Middle West for six months. Special departments for dairy, poultry and home. Address Valley Farmer, Arthur Capper, publisher, Dept. W. A. 10, Topeka, Kansas.

CHIROPRACTIC DOCTORS MAKE LARGE incomes; our graduates earn \$3000 to \$6000 yearly; be independent; work for yourself; this big paying profession easily learned by correspondence; special rates now; illustrated book free. American University, Dept. 243, 162 No. Dearborn St., Chicago.

A MILLION DOLLAR BOOK. IF WE CAN get ten thousand farmers to read the Equity Text Book, they will join the Equity Union and we will save them one million dollars per year as we are doing for our present membership. Send fourteen two cent stamps to The Equity Union, Greenville, Ill. for the book and read carefully our plan of co-operation which holds ten thousand farmers together in a business union. C. O. Drayton, Greenville, Ill.

not work so hard nor try to do so much as they did. This may be true of the older men but any sensible person knows there are young men growing up just as anxious to make a start in the world and who would make a success if they had the chance that the young man had 20 years ago. Let the banks and the loan companies open their hearts to the poor farmers so they can carry on their farming and hold their stock until it is better matured instead of having to sell it! When we have a better credit system there will be no need of back-to-the-farm movements or arguments about how to keep the boys on the farm. The boys would want to stay on the farm if they were not crowded out as they are now.

I know several good, honest, hard-working men that would be producing more than a good living on some small farm were it possible for them to obtain credit as we could in earlier days. The high cost of living would disappear to a certain extent if the farmers could get credit as there would be more producers. Even if products were the same price, more men would have work and would be more nearly able to support themselves and their families.

What the country needs is less class legislation and better laws for the general public. When we have more men at the plow this high cost of living will be a thing of the past. When good men can get the credit they deserve all the problems will be solved.

A Reader.

For More Pumping Irrigation

The Use of Water in Irrigation, by Samuel Fortier, is a 265-page book issued recently by the McGraw-Hill Book company of New York. This is part of the agricultural engineering series, of which E. B. McCormick, formerly dean of the engineering division of the Kansas State Agricultural college, is consulting editor. The price of this book is \$2.

An effort has been made to make this book especially practicable. The main topics covered are: The irrigated farm, the necessary equipment and structures, methods of preparing land and supplying water, waste, measurement, delivery and duty of water and the irrigating of staple crops. The author is the chief of the irrigation investigations of the United States Department of Agriculture, and the book is the result of a life time devoted to investigations in this subject. It ought to be in the library of every man in western Kansas who is interested in irrigation.

Grow Green Feed On the Lot

If I had an acre on which to keep 100 hens I should not use all that space for the hens. I should build a house 12 by 32 feet, partitioned every 8 feet. I should

Letters Will Be Printed

A great many poultry letters were received after the closing date of the contest. These letters did not have a chance to compete for the prizes, because the contest closed promptly on receipt of the last mail January 27. Very few letters received in this contest have been discarded as not worthy of printing. Almost every one contains something of interest and value to the poultry growers of Kansas. We shall print these letters as fast as we can find space for them in the Farmers Mail and Breeze.

have the roof sloping one way and have the house fact south or east, according to the slope of the ground. I should have sloping drop boards with roosts over them in the back part of the house.

I should leave 3 feet open space across the front of the house for light and air, putting in glass or closely woven chicken wire, whichever would suit the climate best. I should build yards 8 by 50 feet in front of the house. Each yard would be for 25 hens, but the number could be increased to 50 without crowding if the house and yards were kept clean. I should use the remainder of the land for vegetables and alfalfa, for green feed is something that is necessary when hens are kept in a yard.

R. 2, Glencoe, Okla. Grant Goold.

Stockmen Listen!

The Topeka Mutual Live Stock Insurance Company Will Insure Your Live Stock Against Death From "Any Cause"

We are here to stay and want to show you that it is a business proposition for you to carry a Blanket Policy or Herd Policy with us. Twelve head of horses and cattle die from disease or accident where one is killed by fire or lightning. One out of every twenty-one horses die each year—one out of every twenty-two cattle die each year on the farm. Our rate is based on this loss ratio which is the average in Kansas. As we operate on the Mutual Plan for protection of stockmen farmers, we are making a rate that should interest you in view of the fact that stock of all kinds is higher than ever before. Your cash capital is invested in your Live Stock and therefore you should insure it against loss from "Any Cause." This is strictly a business proposition, your average loss pays your insurance and protects you against the big loss that might come. Our Blanket Policy on Dairy Herds covers the tuberculosis hazard where Dairy Cattle are condemned by civil authorities.

The Following is a Partial List of Losses Paid During the Past Month:

JEWELL COUNTY.	
Martin Kelby.....Esboorn	\$ 98.73
B. E. Hill.....Burr Oak	151.20
SUMNER COUNTY.	
Lafe Burger.....Wellington	29.55
WASHINGTON COUNTY.	
Con L. Werner.....Hanover	16.50
GREENWOOD COUNTY.	
W. C. Martin.....Eureka	20.00
D. L. Prather.....Eureka	25.00
W. H. & H. O. Martin Utopia, R. L.....	40.00
BARTON COUNTY.	
Fred H. Ewing.....Pawnee Rock.....	375.00
Merritt Schimer Cr'y Co., Great Bend..	174.90
JEFFERSON COUNTY.	
J. W. Clark.....Meriden	140.00
M. G. Bighaus.....Ozawkie	500.00
J. W. Clark.....Meriden	60.37
G. W. Wilcox.....Meriden	75.00
ROOKS COUNTY.	
James Webster.....Stockton	8.00
Harry Clemmons.....Stockton	21.00
POTTAWATOMIE COUNTY.	
Carl Miller.....St. Marys.....	250.00
S. E. Segrist.....Havensville	69.00
J. E. Cline.....Havensville	200.00
A. A. Beach.....Havensville	112.50
J. F. Buton.....Blaine	75.00
W. J. Harries.....Havensville	53.48
MARION COUNTY.	
H. H. Johnsmeyer.....Tampa	177.18
Adam Ruff.....Marion	32.00
A. J. Pospisil.....Lost Springs.....	58.27
SMITH COUNTY.	
G. M. Pursifull.....Bellaire	45.00
T. M. Wilson.....Lebanon	49.50
A. B. Armstrong.....Smith Center.....	83.85
Floyd Kellogg.....Lebanon	78.75
C. W. Kohlenberg.....Gaylord	142.25
G. H. Peterson.....Bellaire	78.69
H. D. Douglas.....Smith Center.....	73.00
BROWN COUNTY.	
H. L. Stoffer.....Morrill	161.20
F. M. White.....Willis	268.20
SALINE COUNTY.	
Fred Ott.....Gypsum	17.89
Ed. A. Mitchell.....Salina	64.00
MITCHELL COUNTY.	
E. E. Brooker.....Beloit	56.17
J. W. Lambert.....Beloit	100.00
DOUGLAS COUNTY.	
Edward Hadl.....Lawrence	112.55
T. K. Boyd.....Baldwin	55.87

SHAWNEE COUNTY.	
L. E. Dann.....Rossville	300.00
H. L. Summers.....Topeka	168.75
C. Beal.....Valencia	60.00
W. C. Scopela.....Topeka	255.00
J. W. Kingsley.....Topeka	63.45

JACKSON COUNTY.	
R. R. Schultz.....Holton	45.00
RUSH COUNTY.	
P. H. Brack.....Otis	25.00
MARSHALL COUNTY.	
G. G. Faulkner.....Waterville	90.00
P. F. Burke.....Frankfort	1,200.00
August Koch.....Nina	75.00
STAFFORD COUNTY.	
L. J. Stever.....Macksville	750.00
RILEY COUNTY.	
L. E. Klien.....Zeandale	30.00
DICKINSON COUNTY.	
Jno. Hartman.....Elmo	161.51
W. H. Mott.....Herington	82.00
O. L. Thisler.....Chapman	450.00
LYON COUNTY.	
L. J. Smith.....Hartford	141.70
Ed. Benedict.....Emporia	100.00
HARVEY COUNTY.	
J. D. Hege.....Holstead	45.00
Dan McCarthy.....Newton	101.25
LEAVENWORTH COUNTY.	
Nora McEnulty.....Tonganoxie	273.75
R. M. Lenehan.....Tonganoxie	112.50
Lloyd Jackson.....Baselor	77.50
GEARY COUNTY.	
Edw. P. Tully.....Junction City.....	131.00
Ed. Mitchell.....Junction City.....	73.33
Albert Rosey.....Junction City.....	63.75
COFFEY COUNTY.	
T. E. Balley.....Strawn	23.29
C. O. Mentzer.....LeRoy	150.00
PAWNEE COUNTY.	
A. E. Bellew.....Garfield	75.00
A. E. Bellew.....Garfield	94.00
RICE COUNTY.	
J. T. Noll.....Little River.....	690.85
NEOSHO.	
H. E. Coulter.....Chanute	75.00
PRATT COUNTY.	
Rebholtz Brothers.....Pratt	131.25
BOURBON COUNTY.	
Mrs. A. E. Hill.....Ft. Scott.....	50.00
WABAUNSEE COUNTY.	
A. J. Moseley.....Alma	67.50
Albert Lochr.....Alma	60.00
ELLIS COUNTY.	
F. H. Wood.....Yocemento	300.00
F. H. Wood.....Yocemento	93.90

Following is an actual settlement of a Policy in

The Topeka Mutual Live Stock Insurance Co.

of Topeka, Kansas

No. 1524 Insurance \$2,150

Name, H. F. ELDER, Morrowville, Washington Co., Kansas

Insurance \$2,150.00
 Value of Herd 2,900.00
 Premium 124.50

Issued December 20th, 1913.
 Expired December 20th, 1914.

LOSSES PAID.

1 Horse }
 4 Cows } \$336.11
 19 Hogs }

Being three-fourths of the cash value of animals lost.

H. H. TROSPER, District Agent,
 Frankfort, Kansas.

**INSURE YOUR LIVE STOCK,
 "DEATH FROM ANY CAUSE."**

ALL LOSSES ARE PROMPTLY ADJUSTED AND PAID!

During 1914 2000 Losses were paid, and you are invited to investigate any patron who has had a loss with us. Make our office your home when in Topeka. Live Stock Insurance is the most consistent proposition in the insurance world—the Live Stock Losses in Kansas last year were FOURTEEN MILLION DOLLARS, which is two and one-half times the total fire loss in the State. The Topeka Mutual is not an assessment Company. Clip this coupon and mail today to

THE WHITE INSURANCE AGENCY
 Central National Bank Building Topeka, Kansas

Without obligation on my part send me literature and rates.

I own.....Cattle I own.....Stallions
 I own.....Horses I own.....Jacks

Name

P. O.

R. F. D. No.
 Kansas

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

FIELDMEN.

A. B. Hunter, S. W. Kansas and West Okla., 614 So. Water St., Wichita, Kan.
John W. Johnson, N. Kansas and S. Nebraska, 820 Lincoln St., Topeka, Kan.
Ed R. Dorsey, North Missouri, Iowa and Illinois, Cameron, Mo.
Jesse R. Johnson, Nebraska, 1937 South 16th St., Lincoln, Neb.
C. H. Hay, S. E. Kan., So. Mo. and E. Okla., 4204 Windsor Ave., Kansas City, Mo.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Poland China Hogs.

Feb. 9—F. S. Kirk, Mgr., Enid, Okla.
Feb. 9—Jas. W. Anderson, Leonardville, Kan.
Feb. 9—Phil Dawson, at St. Joe, Mo.
Feb. 10—Ed Frazier, Drexel, Mo.
Feb. 10—Agricultural College, Manhattan, Kan.
Feb. 10—Ira C. Kyle & Son, Mankato, Kan.
Feb. 11—John Klummer, Mankato, Kan.
Feb. 11—Howard R. Ames, Maple Hill, Kan.
Feb. 12—W. E. Willey, Steele City, Neb.
Feb. 13—J. F. Foley, Oronoke, Kan.
Feb. 13—Thos. F. Walker & Son, Alexandria, Neb.; at Fairbury, Neb.
Feb. 15—Joshua Morgan, Hardy, Neb.
Feb. 16—L. E. Klein, Zeandale, Kan., at Manhattan, Kan.
Feb. 17—J. H. Harter, Westmoreland, Kan.
Feb. 18—K. S. A. C., Manhattan, Kan.
Feb. 18—J. L. Griffiths, Riley, Kan.
Feb. 19—W. A. Baker, Butler, Mo.
Feb. 19—A. J. Swangie, Leonardville, Kan.
Feb. 20—Jas. A. Bell, Junction City, Kan.
Feb. 20—John Belcher, Raymore, Mo.
Feb. 23—J. D. Mahan, Whiting, Kan.
Feb. 25—T. M. Willson, Lebanon, Kan.
Feb. 26—Lambert Bros., Smith Center, Kan.
Feb. 26—W. E. Epley, Diller, Neb.
Mar. 1—Gröniger & Sons, Bendena, Kan.
Mar. 2—H. E. Walter, Effingham, Kan.
Mar. 3—H. C. Gramer, Lancaster, Kan.
March 3—Gilbert Johnson, Osceola, Neb.
Mar. 4—Olivier & Sons, Danville, Kan.

Spotted Poland Chinas.

Feb. 24—Alfred Carlson, Cleburne, Kan.
Duroc-Jersey Hogs.
Feb. 9—F. S. Kirk, Mgr., Enid, Okla.
Feb. 9—Agricultural Col., Manhattan, Kan.
Feb. 10—Adolph Gustafson & Son, Leonardville, Kan.
Feb. 12—Howell Bros., Herkimer, Kan.
Feb. 16—J. M. Layton, Irving, Kan.
Feb. 17—E. A. Horton, St. Joe, Mo.
Feb. 20—Blackshere & Weaver, Elmdale, Kan.
Feb. 25—Martin Kelly, Verdon, Neb.
Feb. 25—C. C. Boyd, Centralia, Mo.
Feb. 27—E. N. Farnham, Hope, Kan.
March 2—Chas. W. Finley, Otterville, Mo.
March 5—Samuelson Bros., Blaine, Kan.
Mar. 11—W. W. Otey & Sons, Winfield, Kan.
Mar. 12—G. C. Norman, Winfield, Kan.
March 17—Mott & Seaborn, Herington, Kan.

Shorthorn Cattle.

Feb. 10—F. S. Kirk, Mgr., Enid, Okla.
Feb. 23—J. D. Nutter, Morrowville, Kan., sale pavilion, Washington, Kan.
Mar. 10—D. E. Reber & Sons, Morrill, Kan.
March 11-12—Nebraska Shorthorn breeders' sale, Grand Island, Neb. J. C. Price, Lincoln, Neb., Mgr.
Mar. 16—J. R. Whistler, Watonga, Okla.
March 17—F. A. Egger, Rocca, Neb.
March 18—Rudolph Firme, Hastings, Neb., and A. A. Stone, Hanson, Neb.; sale at Hastings.

Angus Cattle.

Feb. 10—F. S. Kirk, Mgr., Enid, Okla.
Feb. 16—F. W. Schaefer, Yates Center, Kan.
Feb. 17—Bartlett & Coolbough, Stockton, Kan.

Hereford Cattle.

Feb. 10—F. S. Kirk, Mgr., Enid, Okla.
Feb. 18-19—Nebraska Hereford Breeders' sale, Grand Island; Robt. Mousel, Cambridge, Neb., Mgr.

Jersey Cattle.

Feb. 10—F. S. Kirk, Mgr., Enid, Okla.
Mar. 17—Dr. J. H. Lomax, Leona, Kan.; B. C. Settles, Sales Mgr., Palmyra, Mo.
Mar. 31—E. Willey Caldwell, Fulton, Mo.; B. C. Settles, Sales Mgr., Palmyra, Mo.

Percherons.

Feb. 11—F. S. Kirk, Mgr., Enid, Okla.
Feb. 16—R. Schroader, Emporia, Kan.
Feb. 22—F. A. Cole, Barnard, Kan.; sale at fair grounds, Beloit, Kan.
Mar. 2—Lee Bros., Harveyville, Kan., at Sale Pavilion, Manhattan, Kan.
Mar. 10—D. E. Reber & Sons, Morrill, Kan.
March 17—F. A. Egger, Rocca, Neb.

Belgian Horses.

Feb. 16—R. Schroader, Emporia, Kan.
Clydesdale Horses.
Feb. 16—A. Montgomery, Smith Center, Kan.
Jacks and Jennets.

Mar. 6—G. C. Roan, LaPlata, Mo.
Mar. 8—G. C. Roan, LaPlata, Mo.
March 12—W. J. Finley, Higginville, Mo.

Combination Livestock Sales.

Feb. 8 to 13—F. S. Kirk, Mgr., Enid, Okla.
Feb. 25—Miami Co. Breeders, Draft horses, beef cattle and hogs, O. C. Hagans, Mgr., Paola, Kan.
Feb. 26—Smith County Breeders' association sale, Smith Center, Kan.

S. W. Kansas and W. Oklahoma

BY A. B. HUNTER.

Take a look at the Duroc Jersey advertisement of Buskirk & Newton in this issue.

Enid, Okla., Percheron Sale.

This Percheron sale, February 11th, by far outranks any Percheron sale event ever recorded in the Percheron annals of the

state. Taking into consideration the breeding and quality of the Percherons listed in this sale very few sales have ever been held that could rank with this offering. Even the seeing of these horses will be an object lesson and a treat to those interested in Percherons. Read display ad in this issue and be sure to attend the sale.

Spohr's Good Percheron Sale.

The Percheron sale of Spohr & Spohr, Latham, Kan., which was held at Wichita, January 28th, was a very satisfactory sale. The offering contained several head that were too young for breeding purposes. However, the entire offering, of 31 head, made an average of \$364.51; the 13 stallions averaged \$452.30 and the 18 mares averaged \$301.11. The range of prices was even, and while there were a few that went at bargain prices it was a very satisfactory sale. The top on stallions was \$715.00 and on mares \$475.00.

Percheron and Belgian Horse Sale.

Rudolph Schroader, Emporia, Kan., will sell at auction in the old M. Pyle barn, one-half mile west of Emporia, Kan., Tuesday, February 16, 25 head of horses. Included in this sale will be seven head of extraordinary Percheron and Belgian stallions and mares. These horses must really be seen to be fully appreciated. The display advertising in this issue gives further description but if you want something in the line of a Percheron or Belgian stallion or mare that is unusually good, write today for catalog and arrange to attend this sale. Please mention Farmers Mail and Breeze.

Carload Kentucky Jacks.

Sanders & Maggard, well known Kentucky breeders, have shipped a carload of big Mammoth Kentucky Jacks to Hutchinson, Kan., and will sell them at private treaty. Sanders & Maggard are well known to readers of Farmers Mail and Breeze, as they have used this paper for several years past in their Jack advertising. It is a custom of this firm to ship a carload of Jacks to Kansas each winter and sell them at private sale. Their customers are always satisfied, a number of men having bought from them from each of their shipments. If you want something exceptionally good in a Jack be sure to see this stock fresh from the "bluegrass" country before you buy. If you want further information about the Jacks write Sanders & Maggard, at Hutchinson, Kan., being sure to mention Farmers Mail and Breeze.

Poland Chinas Must Sell.

Olivier & Sons, Danville, Kan., breeders of large type Poland Chinas offer to sell privately 60 head of hogs most all sows and gilts showing safe in pig to their good herd boars. They first intended to hold as usual a public auction but later decided to give their customers the benefit of a reduction on price and sell these 60 head the next 30 days. They have good hogs and should have little trouble in placing these hogs where they will make money for you who buy them. They have, as you will note from their display advertising, hogs of the most fashionable, large type breeding and they mean business and will make prices, quality considered, that will move these sows and gilts right soon and if you can use several head do not delay but write, wire or phone them when you will be at Danville. Please mention Farmers Mail and Breeze.

Dispersion Sale of Durocs.

J. R. Blackshere and W. G. Weaver, Elmdale, Kan., will hold a dispersion sale of the Blackshere & Weaver Duroc-Jersey herd of hogs, Saturday, February 20, under cover at Elmdale, Kan. This is one of the leading Duroc herds of the state and will include the entire herd consisting of 60 head, including 25 tried sows, 20 fall yearling and 15 spring gilts and their three great breeding boars, Big Chief, J. R.'s Chief and Model Bob. Among the tried sows are such tried producers as Lady Wonder, the dam of a grand champion Miss Tat, by the champion Tatarax, King Surprise, Baby Girl 2d, Top Notcher Girl, Pearl Orion 2d, and others that have proven to be unusual producers. Show herd, breeding herd, fall yearlings and spring gilts, 55 head, most all by or bred to the good boars above mentioned and showing in pig, together with these three herd boars sell without reserve. Here will be a good place to buy Duroc breeding stock. Send today for catalog and mention Farmers Mail and Breeze.

N. Kansas and S. Nebraska

BY JOHN W. JOHNSON.

J. R. Jackson, Kanopolis, Kan., is offering 50 bred Duroc-Jersey sows and gilts for sale at private treaty. He is also offering a lot of fall and spring boars. If you want some choice young sows at attractive prices write Mr. Jackson at once. Mention the Farmers Mail and Breeze when you write.

Ralph P. Wells, Formoso, Kan., offers Duroc-Jersey bred sows at private sale. He is not holding a public sale but is selling choice sows bred for March, April and May farrow at prices that are much lower than he could take in a public sale. Write him for his private sale catalog.

W. A. McIntosh, Courtland, Kan., offers 10 spring gilts bred to Orange Wonder 2nd, for spring farrow and four yearling and two spring boars. These are strictly big type breeding and good individuals and will be priced right to move them soon. He has not enough to go to the expense of a public sale and will price them right to move them this month. Write him today for prices.

Much noted Iowa breeding is included in the Jas. W. Anderson sale that will be held at Leonardville, Kan., Tuesday, February 9th. Mr. Anderson's catalog contains as much of the blood of famous big

sires as any to be held this year. He is putting in twelve tried sows many of them daughters of his great old boar Clay Jumbo. Remember the date and either be there or send bids to J. W. Johnson, in Mr. Anderson's care, at Leonardville, Kan.

The 50 head of big type Immune Poland China bred sows that go in Joshua Morgan's February 15th sale will equal any offering of the season. Mr. Morgan is putting ten of his big herd sows in this sale. They have size and quality and are descended from the very biggest sires and dams of the breed. No herd in the West has a greater per cent of the blood of the great Tecumseh strain. Remember the date and location. If interested in this sale and unable to attend send sealed bids to J. W. Johnson of this paper in Mr. Morgan's care at Hardy, Neb.

A. Montgomery, Smith Center, Kan., will sell on Feb 16th in his cleanup sale at the farm three miles south of town five registered Clydesdales, three of them mares in foal to an imported stallion. There are also three young fillies; also 14 head of high grade Galloway cattle and all of his farm machinery and household goods. He has sold his farm. Write him for information about this stock and you will receive a prompt answer. Mention the Farmers Mail and Breeze when you write.

Few Poland China bred sow sales, to be held during the winter will include a greater number of outstanding good tried sows than will the J. F. Foley sale to be held at Norton, Kan., Saturday, February 13. Among the attractions will be daughters of Ott's Big Orange, Blain's Last Hadley, Jumbo Pan and Panorama. These sows are just in their prime of usefulness. Everything is immune and will be sold in correct breeding condition. Bids may be sent to J. W. Johnson, in Mr. Foley's care at Norton, Kan.

Lee Bros.' Percheron Sale.

Lee Bros., Harveyville, Kan., have decided on March 2nd, as the date of their annual Percheron sale at the Agricultural college, Manhattan, Kan. The offering is one of great merit. Their half page advertisement appears in this issue of the Farmers Mail and Breeze. Look it up and write them for their big catalog. They will sell 50 head, 35 imported and American bred mares and 15 stallions, including their entire show herd, except Scipion. Mares bred to this great stallion and colts by him will be attractions in the sale. Write them today for the catalog and mention the Farmers Mail and Breeze.

Scotch Shorthorn Cattle.

One of the best bred herds of Shorthorn cattle in Kansas is owned by S. B. Amcoats of Clay Center, Kan. Mr. Amcoats's collection of cows is not large but the breeding is of the very best. A number of his females are pure Scotch, representing the most popular families. At the head of this herd Mr. Amcoats keeps a pure Scotch bull of exceptional breeding and individuality. He always has something to sell. At present his offering consists of four bulls and three or four yearling heifers. One of the bulls is a yearling and these are eight-months-old calves. Two of these bulls are pure Scotch, one an Orange Blossom and one a Brawith Bud. All of the offering is sired by Secret Sultan. Mr. Amcoats has been having a nice trade on his bulls.

Duroc-Jersey Sow Sale.

On February 17, Earl A. Horton of St. Joseph, Mo., will hold his annual brood sow sale at the Horton Sanitary Duroc Hog Ranch, 10 miles from the city, on the St. Joseph, Clay Center, Interurban at the station that is called Willowbrook. He is selling 40 bred sows and two of his herd hogs. Mr. Horton has been a breeder for 15 years and he holds from one to two sales each year. In this offering he has a great lot and in particular four daughters of Red Crow. Many will remember him as one of the sensational champions of 1914; two extra gilts by Golden Model Critic and out of 1 Am Golden Model, the sow Mr. Horton thinks the best one he ever owned and the three gilts by Royal Wonder, out of Top Notcher Queen, by Tip-Top Notcher are right in the class of the other good ones. This sale should attract many buyers. The hogs are right and the location can't be excelled for Kansas, Nebraska and Missouri. Get his tabulated catalog.

Poland Dispersion Sale.

J. D. Mahan, Whiting, Kan., disperses his well known herd of Poland Chinas at Whiting, Kan., Tuesday, February 23rd. The sale will be held in a big tent and there will be provided good hotel accommodations for visitors. 55 head of bred sows consisting of 20 tried sows, 21 spring gilts and 14 yearling gilts. The 20 tried sows are by such boars as Expansion Look, Moore's Halvor, Hadley Goldust, Referendum and Big Hadley's Likeness. They are bred to King John, by Long King's Equal. There are 14 yearling gilts by King John, Moore's Halvor and Expansion Look. Also 24 spring gilts by Expansion Look, Moore's Halvor and King John. In addition he is selling 40 last fall pigs of both sexes. Mr. Mahan has always been recognized as one of the up to date and reliable breeders of northeastern Kansas and his dispersion, in which he is selling all of his great sows is sure to attract attention. Write today for catalog and mention the Farmers Mail and Breeze when you write him.

Shuck's Bred Sow Sale.

Dana D. Shuck's Duroc-Jersey bred sow sale at Burr Oak, Kan., last Thursday, was well attended considering the fact that the morning of the sale was very stormy. The offering was one of unusual merit and deserved better prices than were received. The average was a little better than \$32. The top was \$48, paid by Nick Billenwillms of Burr Oak, for number five, a very fine tried sow worth much more money. Among the breeders present were Harry Shuck, Esbon, Kan.; E. M. Myers, Burr Oak; Elmer Trump, Formoso, Kan.; Lorin Shuck, Guide Rock, Neb.; C. W. Donahoe, Superior, Neb.; Walter Smith, Esbon and others. Dana D. Shuck is one of the breeders that has been steadily forging to the front with his herd and the offering on last Thursday was one of the best that will be made this season. The great boar at the head of this herd, Pawnee Crimson was the sire of the principal part of the offering. He is one of the really great boars of the West. Mr. Shuck has left a few choice bred sows

which he will price reasonably. Write him. The sale was conducted by John Brennen, Ned Price and E. E. Denney.

Briggs & Sons' Great Sale.

The first important Duroc-Jersey sale of the season in Nebraska was made Jan. 25, to Geo. Briggs & Sons, at Clay Center. The offering was high class and immune. Prices ranged from \$41.00 to \$157.50, that price being paid by H. S. Bonner, a Clay county breeder, for No. 26, a tried sow sired by Queen's Crimson and bred to Illustrator 2nd, for an early litter. Not a single gilt bred to this boar sold below \$50, and the 37 head bred to him averaged \$90, the first 20 averaging \$105. The entire offering of 43 head cataloged animals averaged \$83.40, all spring gilts but three or four. A large part of the offering went to breeders of Nebraska, but several breeders from outside states were present or represented by mail bids. Iowa, Missouri and Kansas coming in for some of the best of the offering. The following Kansas breeders bought in this sale: Alvar Patterson, Esbworth; N. B. Price, Maudslor; E. N. Farnham, Hope; J. B. Swank, Blue Rapids; Hows Bros., Herkimer; and Ward Bros., Republic.

Kansas Spotted Poland Chinas.

Alfred Carlson, Cleburne, Kan., breeds big boned spotted Poland Chinas and the date of his big bred sow sale is February 24. The offering is a good one and the tried sows, which are spring yearlings that have raised one litter each, the fall yearlings and the March and April gilts are all well grown and have been handled with care. The sires of the younger sows are Big Ben and Spotted King, two big, massive sires that Mr. Carlson and the rest of the big spotted Poland China breeders have a right to call the farmer's kind. They certainly look like the profitable kind to the writer. The 50 sows that go in this sale have been bred for early spring farrow. The spring gilts are sisters to the fine lot of boars Mr. Carlson has been advertising this summer and which he has shipped all over the country. He has no more boars for sale. Write him today for his catalog and come to the sale. If you can't come send your bids to J. W. Johnson, of the Farmers Mail and Breeze and you will be treated right. Address him in care of Alfred Carlson, Cleburne, Kan.

Shorthorn Dispersion Sale.

J. D. Nutter, Morrowville, Kan., has decided to disperse his herd of registered Shorthorn cattle and will hold a public sale in the sale pavilion at Washington, Kan., Tuesday, February 23. Forty head will be sold consisting of 27 bred cows and heifers and five open heifers and eight young bulls, ranging from 6 to 14 months old. The cows and heifers are bred to Prairie Sultan, by Meadow Sultan and Choice Master 2d, by Choice Knight, by Choice Goods. Both bulls represent the best breeding and the cows and heifers in the sale are of families that have always been popular. The sale will be one of the real bargain places this season. The herd is not very well advertised but is full of good useful cattle, that Mr. Nutter has bought and reserved with the idea of building up one of the strong herds of the country. Now that he has decided to disperse it everything will go for the high dollar sale day. Come to Washington, Kan., and attend this sale. You will be pleased with yourself if you do. Write Mr. Nutter today for further information about his sale offering. Look up the big display advertisement in this issue of the Farmers Mail and Breeze and write for catalog.

Klein's Dispersion Sale.

L. E. Klein, Zeandale, Kan., well known Poland China breeder, will disperse his herd this winter. He recently decided to rent his farm and this caused him to disperse his herd of Poland Chinas. The 30 tried sows, fall and spring gilts and the two herd boars are now offered you at your own price. The sale will be held in Manhattan just off Poyntz avenue and near the Baltimore hotel which will be headquarters for his guests sale day. The offering is good through and through and will be sold in just ordinary condition and not fat. Everything is bred for spring farrow to the two herd boars that will be sold sale day. Mr. Klein is selling the day before J. H. Harter sells at the Agricultural college and breeders who attend this sale which is the first sale in the big Riley county Poland China bred sow sale circuit can come a day earlier and take in Mr. Klein's big dispersion sale. Earlier in the season Mr. Klein decided not to hold a sale this winter but reserved the fall and spring gilts that go in this sale for his own use. It is one of the real opportunities to buy good ones and you better plan to be on hand. Ask him for his catalog today and you will get it by return mail. Mention the Farmers Mail and Breeze when you write to him.

Duroc and O. I. C. Sow Sale.

J. M. Layton, Irving, Kan., breeds up-to-date Duroc-Jersey and O. I. C. hogs, Tuesday, February 16, is the date of his bred sow sale in which he is selling 30 Duroc-Jersey bred sows and one spring boar. The sows consist of tried sows, fall and spring gilts. All have been vaccinated with the double treatment 30 days before they were bred. The 10 O. I. C. sows have received the same treatment. The Duroc-Jersey herd is strong in the blood of old Tatarax and Valley Chief. Everything in the sale is sold with the usual guarantee and will be in the best possible breeding form. There will also be one O. I. C. boar offered in the sale. Mr. Layton has lived in Marshall county practically all of his life and has been identified with the good stock interests all the time. Write him for further information and arrange to attend his sale. He will take good care of you sale day. You can go over either the Blue Valley Branch of the Union Pacific, north and south, morning of the sale and make good

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John D. Snyder AUCTIONEER, successfully sells pure bred live stock, real estate and general sales. HUTCHINSON, KAN.

FLOYD CONDRAY, Stockdale, Kansas Livestock auctioneer. Write for open dates.

BOYD NEWCOM Wichita, Kansas, AUCTIONEER. Real Estate a Specialty. Write, wire or phone for dates

N.W. COX Wellington, Kan. AUCTIONEER LIVESTOCK AND FARM SALES.

Spencer Young, Osborne, Kan. Livestock Auctioneer. Write for dates.

Jas. T. McCulloch, Clay Center, Kan. Reference: The breeders I am selling for every year. Write for open dates.

WILL MYERS, Livestock Auctioneer SELOIT, KANSAS. Ask the breeders in North Central Kansas. FOR DATES ADDRESS AS ABOVE.

RUGGELS & SON SALINA, KAN. BEVERLY, KAN. Livestock, Real Estate. Address either place.

JESSE HOWELL, HERKIMER, KAN. of Howell Bros., breeders of Durocs and Herefords can make you money on your next sale. Write for dates.

W. A. Fisher, White City, Kan. Livestock Auctioneer. Write or Phone for dates.

MULE FOOT HOGS.

Mule Foot Hogs All kinds for sale. Gilts sired by and bred to my first premium winning boars at Ohio and Indiana State fairs of 1913 and 1914. Some fine fall pigs in pairs Zone 6, Hadley, Box C, Wilmington, Ohio not related.

POLAND CHINAS.

Klein's Big POLANDS Two herd boars at attractive prices. I will hold my bred sow sale on Feb. 15th at Manhattan on Poyntz Ave., in pavilion. Write for catalog. L. E. KLEIN, ZEANDALE, KAN.

POLAND CHINAS BIG TYPE, PEDIGREED BRED SOWS Boars, Fall pigs. Shipped on approval. DAVIS BROS., Box 12, LINCOLN, NEBR

Gephart—Long King A few choice spring boars at attractive prices. I will sell 50 bred sows and gilts at the Agricultural College, Feb. 17. I start the big Riley County circuit. Write to day for my catalog. J. H. HARTER, Westmoreland, Kansas.

Fairview Herd Poland Chinas Choice Fall Yearling and Spring Gilts, bred for March and April farrow, offered at prices to sell quickly. Write us for guaranteed descriptions. P. L. WARE & SON, PAOLA, KANSAS

MT. TABOR HERD POLANDS I am offering the tops of my 150 spring pigs by four different boars at attractive prices. Write for prices on one or as many as you want. J. D. WILLFOUNG, ZEANDALE, KANSAS.

Blough's Big Poland Big, growthy spring gilts, safe in pig to the splendid sires, Valley Coin or a Great Orphan. And at prices we can both afford. JOHN BLOUGH, BUSHONG, KANSAS

Big Spotted Poland Chinas 50 Big Spotted Poland China sows and gilts in my Feb. 24 bred sow sale. I want you to come. Write today for Catalog. The Farmers Kind. Alfred Carlson, Cleburne, Kan.

Poland China Boars March and April farrow. Also a few choice fall yearlings. These are actual tops and for sale at reasonable prices. Strictly Big Type. Gilts reserved for bred sow sale. JAS. ARKELL, Route 4, Junction City, Kansas

Axlines' Big Type POLAND CHINAS Choice gilts bred for April and May farrow to a big strong Chief Mastiff boar, out of a Price Again dam. Prices reasonable. Write to J. E. AXLINE, WELLSVILLE, KANSAS, or E. E. AXLINE, INDEPENDENCE, MISSOURI

Erhart's Big Type Polands 25 head of our top sows and gilts for sale, bred to four of the greatest big type Poland China boars in use today including Robidoux, a 1200 lb hog; also fall pigs from Orphan Big Gun, Big Hadley, Mr. and Big Giant, at \$20 each; three for \$45.00; a few Robidoux fall males at \$25 each for quick shipment.

A. J. Erhart & Sons, Ness City, Kan.

Geo. Bingham Bradford, Kan. (A Pioneer Iowa Herd) 50 strictly big type Poland China sows and gilts at private sale. Inspection desired. Prices and descriptions by return mail. Address GEO. BINGHAM, BRADFORD, KAN. (Wabaunsee County).

connection getting back; also over the Central Branch of the Missouri Pacific and make—the best of connections. Send bids to J. W. Johnson of this paper or either of the auctioneers. Look up his advertisement in this issue of the Farmers Mail and Breeze.

Wilson's Poland China Sale. Thos. M. Wilson, Lebanon, Kan., will sell Poland China bred sows, a valuable Percheron stallion and some high grade Polled Durham cows and heifers in his big public sale at his farm near Lebanon, Thursday, February 25. There will be 35 bred sows and gilts, consisting of tried sows, fall and spring gilts. Also three boars. Everything has been immuned with the double treatment and is in fine, healthy condition. Queen, a great sow, by Grothy King, by Long King, is a valuable brood sow in this herd. She will have daughters and granddaughters in this sale. Last spring she farrowed 14 pigs and three of the gilts will be in this sale. The spring and fall gilts are mostly by Springbrook Hadley, one of the truly great sires of north central Kansas. All are of big type breeding. The Percheron stallion is a 5-year-old, a beautiful black and a sure foal getter. He is sold because Mr. Wilson has too much work and does not have the time to take care of this business. The cows and heifers are high grade Polled Durhams. Free hotel accommodations at Lebanon and transportation to and from the farm. Bids may be sent to J. W. Johnson of the Farmers Mail and Breeze in care of Mr. Willson. Mention the Farmers Mail and Breeze when you write for catalog.

Big Angus Cattle Sale. Bartlett & Coolbough, Stockton, Kan., have claimed February 17 as the date of their big Angus cattle dispersion. The sale is made to close up a partnership and Mr. Bartlett is retiring from the business. 85 cows and heifers go in the sale. The heifers not of breeding age are a grand lot of young things and are well developed. They are also selling in this sale 41 head of high grade yearling and two year old steers and heifers that will make show cattle. Practically everything in the sale was bred and developed on the Solomon Valley Stock Ranch. The Blackbirds, Queen Mothers and other noted families are represented. It has been the custom of this firm to use as good herd bulls as money would buy and that it has paid them will be shown sale day. The offering is one of the very best ever made this far west. It is an unusual opportunity to buy at auction the best in up to date Angus breeding and individual merit. You are buying from a firm that is well and favorably known in central Kansas and you will be treated right if you come to their sale. Write Bartlett & Coolbough, Stockton, Kan., for their catalog which is ready to mail. Look up their advertisement in this issue and mention the Farmers Mail and Breeze when you write them.

Forty Bred Sows. W. E. Epley, Diller, Neb., sells Poland China bred sows in C. W. Smith's public sale pavilion at Fairbury, Neb., Friday, February 26. Mr. Epley's is one of the good offerings of the season and will contain 40 sows and gilts of the best of up-to-date and popular breeding. There will be five tried sows that are in their prime as producers. Eight are fall gilts that are as good as will go through any sale ring this winter. The 27 March gilts are big, well grown and well conditioned young sows, sired by Hutch Hadley, Fan Defender and Expansion Chief. The eight fall gilts are practically of the same breeding. The herd boars in Mr. Epley's herd are among the best to be found in any herd and his herd sows are great individuals. Mr. Epley has always had a desire for the best to be had and has never knowingly bought an inferior animal. He has paid some long prices and is a good caretaker which is the big end of it in producing the profitable kind. You will be taken good care of by Mr. Epley at the Merchants Hotel and the sale will be held in one of the best sale barns in the West. Ask him for his catalog today and mention the Farmers Mail and Breeze when you write him. Send bids to J. W. Johnson in his care, general delivery, Fairbury, Neb., if you can't come.

Ames's Dispersion Sale. Howard R. Ames, Maple Hill, Kan., will disperse his well known herd of big type Poland China hogs at his farm near St. Marys, Kan., Thursday, February 11. Mr. Ames has been one of the best buyers of high class Poland Chinas in the country. He owns the great breeding boar, Big Orange Again, which he bought of A. J. Swingle last spring at a long price. This great sire, now in his prime, is included in this sale. The seven tried sows are out of the great sows Colossal Queen, first at the Nebraska State Fair and the Kansas State Fair the same season. Four of these great sows are 2 years old and three are 3 years old and all are bred to Big Orange Again. There is nothing better in the West. The nine spring gilts are bred to Big Orange Again. Four of them are by Gritter's Surprise. Mr. Ames has recently sold his farm and decided to disperse his herd. All of the sows and gilts have been reserved and bred for his own use. He has always produced the kind that easily commanded the big prices. This is surely a rare opportunity to pick up some choice sows and a noted sire at your own price. The sale is the day following the Poland China sale at the Agricultural college and you can go to St. Marys on an early morning train. Write him for his catalog. Bids may be sent to J. W. Johnson in care of Mr. Ames, at Maple Hill, Kan.

K. S. A. O. Bred Sow Sales. Tuesday and Wednesday, Feb. 9 and 10, are the dates of the third annual bred sow sale which the animal husbandry department of the Kansas State Agricultural college is making in the livestock judging pavilion at the college. The Duroc-Jersey offering numbers 40 head and all of them are spring gilts with the exception of a few tried sows. The Durocs will be sold on Tuesday, Feb. 9 and the sale will commence at 1:30 P. M. On the day following Feb. 10, they will sell 30 Berkshires, sale commencing at 9 A. M. and 35 Poland Chinas, sale commencing at 1:30 P. M. All of these young sows have been bred and grown by the department and are bred and conditioned with their future usefulness assured. All of the gilts are well grown and are of the best of breeding and individual merit. They have had the run of plenty of pasture and are the big, stretchy kind. Everything

BIG TYPE UNPAMPED BERKSHIRES 150 sows bred to Fair Rival 10th, King's 4th Masterpiece, Trustype, King's Trustype, and the great show boar King's 10th Masterpiece. All long, large and heavy boned. Sows farrow from August 1st to December 1st. Slightly bred sows and gilts to farrow soon. Open gilts and boars ready for service. Not a poor back or foot. Every man his money's worth. E. D. KING, BURLINGTON, KANSAS.

POLAND CHINAS. SMUGGLER GILTS bred to KING HADLEY for early spring farrow. J. B. MYERS, Galva, Kansas.

Courtland Herd Big Type Polands For sale boars and gilts by Long John. Gilts bred to Orange Wonder 2nd or 3rd or 4th. W. A. SEWING, COURTLAND, KAN.

Sam Herren, Penokee, Kas. Booking spring pigs sired by my great young boar by old A Wonder and out of the great sow Lady Major.

I HAVE SOME FALL PIGS for sale at a bargain. Priced to sell. Sired by my blue ribbon, reserve champion and grand champion boars. W. Z. BAKER, RICH HILL, MISSOURI

Poland China Bred Sows, Norton, Kan., Feb. 13. 40 sows and gilts. A few choice spring boars at private sale. J. F. Foley, Oronoque, Kan. (Norton Co.)

Poland Chinas with size and quality herd boars King Hadley, Chief Giant and Long Look. Cholera Immune. Stock for sale. LAMBERT BROS., SMITH CENTER, KAN.

SPECIAL BOAR BARGAINS 15 yearling and spring boars for sale, sired by Cavett's Mastiff by King Mastiff and Sterling by Brookside, by Hadley. \$20.00 to \$30.00 to move them quick. A. L. ALBRIGHT, WATERVILLE, KANSAS

Becker's POLAND CHINAS Spring gilts, Hadley, Expansion, Mastodon, and other leading strains and safe in pig to Orphan Boy, by Orphan Chief. Fall pigs, pairs and trios, by Orphan Boy and Hadley's Wonder, a grandson of A Wonder. J. H. BECKER, NEWTON, KANSAS

King of Kansas Bred Sow Sale 30 fall and 20 spring gilts sired by the above great boar. Five choice proven brood sows bred to King of Kansas. A big percent of the gilts bred to Long Jumbo Jr. Write to day for catalog. J. L. GRIFFITHS, RILEY, KANSAS

ENOS' Big Type POLANDS 25 head of my top sows and gilts for sale, bred to two great boars, Orphan Chief and Mastodon King, a great young boar. Three July boars that are strictly herd headers by Orphan Chief. A. B. ENOS, Ramona, Kan.

Strauss' Big Poland Chinas Six last fall boars and 18 spring boars by Model Wonder (900 pounds) and Blue Valley Chief by Blue Valley. Write me your wants. O. R. STRAUSS, MILFORD, KANSAS

DOOLEY'S SPOTTED POLANDS Etterville Breeding Farm, home of the old original spotted Poland Chinas. I am selling spring pigs, either sex, sired by five of the biggest and best spotted boars of the breed. Pairs and trios not related. Get your order in early as they are going fast. Over 100 head to select from. EDGAR DOOLEY, EUGENE, MISSOURI

LOOKABAUGH POLAND CHINAS 600 Head. Best of Large Type Breeding. A Wonder, Hadley, Designor, Long King and other noted blood lines. ANY FARMER CAN AFFORD ONE 100 SPRING BOARS They grow big and mature early and will breed just that way for you. Why not have a crop of pigs next spring that, not only will look good, but make hogs big enough to ship out next fall before the weather gets cold. I want to sell 50 of these boars to farmers the next 30 days and when your pigs arrive if you are not satisfied you have made a good buy I will refund your money cheerfully. But you must do business quickly if you get one of these good boars. Also bred sows and gilts. H. C. LOOKABAUGH, Watonga, Oklahoma

HOGS! HOGS!! HOGS!!! Big Type Poland Chinas Every hog shipped on approval. Time if desired. 60 Head Must Sell, Next 30 Days To make room for our spring crop of pigs we are making special prices on tried sows, fall yearling and spring gilts, also a few good young boars. They carry the blood of such noted sires as Blue Valley Quality, Blue Valley Hutch, Blue Valley Price, Giant Expansion, Expansion, Big Orange, Revenue Chief and other large type sires of note. Most of these sows and gilts are safe in pig to King of All Wonders and A Wonderful King, two wonderful stretchy sons of King of All and out of Lady Jumbo 4th, No. 1 in the Lawson sale catalog and said by several to be perhaps the best sow A Wonder ever sired. They are the kind that are bred to produce both size and quality. Others are in pig to Logan Price, a show prospect of great size and quality. Start In The Hog Business Now Special prices will be made to parties buying several head. They have been fed and bred for breeding purposes and we guarantee every hog sold. Come and get first choice. Farm near town. Write, wire or phone us when to meet you. Yours for quick business, OLIVIER & SONS, Danville, Harper Co., Kans.

DUROC-JERSEYS.

RICE COUNTY HERD DUROCS
Spring and summer boars, 30 fine gilts and sows bred for March and April farrow. Good Enuff, Colonel, Crimson Wonder, Ohio Chief blood lines. Prices right, herd immune. Write today for prices and descriptions.
G. M. SHEPHERD, LYONS, KANSAS

CAMPBELL'S DUROCS
A few yearling sows, also spring pigs—the handsome, stretchy kind. Ohio Chief, Col. and Model Top blood lines. Can ship via Rock Island or Santa Fe. Satisfaction guaranteed.
A. T. CAMPBELL, MARION, KANSAS

BONNIE VIEW STOCK FARM
For Sale: Tried sows and bred gilts by Tat-A-Walla and Jayhawk Crimson Wonder. Sows bred to Tat-A-Walla and gilts bred to A Critic.
SEARLE & COTTE, BERRYTON, KANSAS

Durocs of Size and Quality
Immured boars and bred gilts, all from large prolific stock. Band's Col., Superba, Defender, Perfect Col., Good E Nuff Again King, and Ohio Chief blood lines. Description: John A. Reed, Lyons, Kansas guaranteed.

Immured Boars and Sows
Twenty immured Duroc-Jersey boars ready for service, \$25 to \$35 and up. 100 Immured sows bred to Buddy K 4th, Wide Awake, Cream and others, \$30 to \$50 and up. Ready for immediate shipment. Geo. W. Schwab, Clay Center, Nebr.

Hirschler's Durocs
Herd headed by Graduate King, by Graduate Col. Gilts by Tatarax Chief and E. L.'s Col. bred to him; also a fine lot of spring boars, priced for quick sale. Write today.
E. L. HIRSCHLER, HALSTEAD, KAN.

Uneda Herd Unexcelled Durocs
March boars of excellent breeding, color and quality. Weight, 175 to 200 pounds and not fat. \$20, \$25 and \$30. Choice Sept. boars \$10 to \$15. The Duroc Bulletin one year with each boar. Tyson Bros., McAllister, Kas.

IMMUNE DUROC SOWS For Sale
Duroc sows guaranteed in farrow and cholera immune. Shipped to you before you pay.
F. C. CROCKER, FILLEY, NEBR.

Get This Private Sale Catalog
Duroc-Jersey bred gilts. Choice spring gilts and a few fall gilts priced right. Get my prices. Write for my private sale catalog.
RALPH P. WELLS, FORMOSO, KANSAS

DUROC BRED GILTS PRIVATE SALE
Will not hold public sale and offer privately 18 choice yearling gilts, and 15 tops of spring crop. All sired by Royal Wonder and bred to Big Critic a richly bred 800 pound boar when mature. Every representation guaranteed.
D. S. COCHRAN, LINCOLN NEBRASKA

Good E. Nuff Again King, Grand Champion
Crimson Wonder 4th, second, Kansas State Fair 1913. Oley's Dream, junior champion Kansas State Fair 1914. Herd boars and grand champion prospects for sale.
W. W. OLEY & SONS, WINFIELD, KANS.

Howe's Bred Sows and Gilts
Immune spring gilts, fall yearlings and tried sows; extra good breeding. Bred for spring litters to Crimson Hero by Crimson Wonder 4th whose first six sires were grand champions. Prices reasonable.
J. D. HOWE, Route 8, WICHITA, KANSAS

Elm Creek Herd Durocs
A few extra good Duroc Jersey gilts, bred for March farrow. Also one good yearling boar.
J. G. HUNT, Marysville, Kansas.

50 BRED SOWS AT PRIVATE SALE.
30 tried sows 18 to 24 months old, 10 fall gilts and 20 spring gilts. All bred for spring farrow. Dreamland Col. heads my herd. A lot of choice spring and fall boars. Close prices on everything. Address: J. R. Jackson, Kanopolis, Kan. (Ellsworth Co.)

BANCROFT'S IMMUNE DUROCS
We hold no public sales; nothing but the best offered as breeding stock. Choice spring boars, also gilts, open or bred to order for spring farrow. Customers in 13 states, satisfied. Describe what you want. We have it.
D. O. BANCROFT, OSBORNE, KANSAS

IMMUNE Duroc-Jerseys
8 head of spring boars, 2 show boars. 30 spring gilts bred to Watson's Defender, a son of Defender. Satisfaction guaranteed.
R. C. WATSON, ALTOONA, KANSAS

IMMUNE BRED GILTS
Choice spring gilts by a grandson of both H. Climax and the world's fair champion sow, Doty. All safe in pig to Wonder of Kansas by Crimson Wonder IV, and out of Lady Good E Nuff by the champion Good E Nuff Again King. If you want good gilts bred in the purple we have them marked down in price so any farmer or breeder can afford them. Write today.
A. F. SIEGLINGER, PEABODY, KANSAS.

Private Boar Sale
Top boars from our 115 March and April Duroc-Jersey pigs. Nothing but choice ones priced. Extra size, best of breeding. Prices reasonable and satisfaction guaranteed.
HOWELL BROS. Herkimer, Marshall Co., Kansas.

is immune. On the night of Feb. 9th a program will be given for the benefit of visiting hog men. President Waters will give an illustrated lecture on the results secured in the experiments affecting the growth and developments of hogs. E. N. Wentworth, professor of animal breeding will give a talk on breeding purebred hogs. Everybody is invited. Write for the catalog which gives full particulars. Kindly mention the Farmers Mail and Breeze when you write. Look up their sale advertisement in this issue.

A Good Duroc Offering.
Adolph Gustafson & Son, Leonardville, Kan., are Duroc-Jersey breeders. They will hold a bred sow sale at the farm on Wednesday, February 10. Those who attend the Duroc sale at the Agricultural college can go to Randolph on the morning train and they will be taken out to the farm and returned in the evening in time for the train back to Manhattan. Those coming from the west on the Leavenworth, Kansas and Western should stop at Walsburg station which is only two miles from the farm where they will be met with autos. This is this firm's first sale but it is an offering of good, useful Duroc-Jersey sows. There will be 45 head in the sale and 35 of them are March and April gilts and 10 are tried sows and the dams of the gilts in the sale. All are bred to College Babe, a boar bred by the Agricultural college and Belle Chief 3d, sired by Belle Chief 2d, a great young boar bred by Samuelson Brothers of Cleburne, Kan. Adolph Gustafson has lived in Kansas and been identified with the state's development for almost 40 years and nearly all of that time in Riley county. His son Harry who is the junior member of the firm in the Duroc-Jersey business, owns a nice farm joining his father and both are popular farmers and breeders. Come to their sale and you will be pleased with the way they treat you. Bids may be sent to J. W. Johnson in care of the firm at Leonardville, Kan. Look up their advertisement in this issue.

Richest Bred Duroc Sows.
In this issue will be found the advertisement of E. N. Farnham's public sale of Duroc-Jersey bred sows at Hope, Kan., (Dickinson county) Saturday, February 27. Thirty-five of the offering are spring gilts that are certainly great attractions. The five fall gilts are equally as attractive. Twenty of the spring gilts were sired by Select Chief, the grand champion boar in several of the western state shows this season, and Col. Harris, the first in aged boar class in leading shows in 1912. Many of them are out of the prize winning sows. He also bought five gilts in the J. O. Hunt sale at Marysville, Kan., last fall. They were the actual tops of the 25 great gilts sold in that sale. In addition to these gilts Mr. Farnham will put in 15 very choice gilts of his own raising, sired by Taylor's Model Chief and five fall gilts by the same boar. These gilts are out of choice bred sows, owned by Mr. Farnham. They are bred in the purple and are big, attractive sows. The offering will be bred to Taylor's Model Chief, by R. L.'s Model Chief, bred by R. L. Comer; Prince of Col. Wonder, Crimson Wonder's Equity and other herd boars which the catalog will tell you all about. Write today for the catalog and study it. You should be at this sale if you need a few choice sows. Sale in town and under cover. If you can't come send your bids to J. W. Johnson of the Farmers Mail and Breeze. Mention this paper when you write for catalog.

Outstanding Brood Sows.
John Kemmerer, Mankato, Kan., is selling on February 11, 45 bred sows in a public sale at his farm near Mankato, Kan. The offering consists of 15 tried sows of proven value, five of them fall yearlings, that have raised one litter each, and 30 spring gilts. The five fall gilts are extraordinary. They were sired by Jumbo Ex., and have the advantage of being proven breeders. The other tried sows include some of the best sows on the farm. One is an outstanding sow sired by Moore's Halvor. Most of the 15 tried sows are safe to the service of Nebraska Chief and the balance are bred to Long King's Best Son. Long King's Best Son was sired by Long King's Best, recognized as one of the best sons of old Long King that ever came to Kansas. He was brought to Kansas from Iowa by H. B. Walter and H. C. Graner of Lancaster, Kan. The dam of Long King's Best Son was Guy's Best, by Guy's Price 2d, a sweepstakes sow of note. Mr. Kemmerer took a wagon load of his Poland Chinas over to the state wide fair at Beloit last fall and won three firsts, two sweepstakes and one second. The prizes included beautiful ribbons and his daughters presented him Christmas with a beautiful pillow with the ribbons beautifully arranged on it. Mr. Kemmerer sells at his farm the day following Ira C. Kile & Sons' sale at Mankato. Look up their advertising in this issue. Write to either of them for both catalogs. Ninety-five choice sows and gilts will be sold in this big two days' sale at Mankato. Bids may be sent to J. W. Johnson of the Farmers Mail and Breeze. Always mention the Farmers Mail and Breeze when writing to either party.

Big Combination Sale.
The Smith County Breeders' association has claimed February 26 as the date of its big annual combination sale which will be held in comfortable quarters at the fair grounds, Smith Center, Kan. Ten Short-horns will be sold and eight of them from the well known herd of C. A. Cowan. Athol, Kan. Four of the Cowan offering are young bulls ranging from 1 year to 20 months. One is a 4-year-old cow and the other a coming 3-year-old heifer. Also two last July bull calves. Oliver Dillsaver, the president of the association, consigns two good registered Short-horn cows, bred to a pure Scotch bull. They are good breeding cows and good individuals. H. L. Abercrombie, Gaylord, Kan., H. J. Danneberg, Gaylord and S. D. Seever, Smith Center, consign six yearling Hereford bulls of the best of breeding and individual merit. They trace to Anxiety 4th and are out of good sires and dams. Lambert Brothers will sell 35 Poland China bred sows and gilts and C. A. Cowan will sell 10 head. Lambert Brothers are among the recognized Poland China breeders of the West and have been successful showmen at some of the best shows during the past three or four years. They will sell tried sows, fall and spring gilts. Also a few June and July boars. C. A. Cowan sells six tried sows and four spring gilts. It is a splendid opportunity to buy Poland China bred sows. Thomas M. Willson sells Poland China bred sows at

DUROC-JERSEYS.
10 April and May Duroc Boars sired by Iowa Van's Crimson Wonder. Also a nice lot of gilts sired by these great herd boars and bred to a son of Royal Climax.
GARRETT BROS., STEELE CITY, NEB.

IMMURED DUROC-JERSEYS
Best of blood lines. Big type. Plenty of all ages. Prices right. Guaranteed. **MOSER & FITZWATER, GOFF, KANSAS.**

BALDWIN DUROCS
Baby boars \$7. Spring gilts \$25. Bred to "Bell the Boy" the undefeated first prize winner at the "Kansas State Fair," the "Tenn. State Fair" and the "Interstate Fair". Immune. Rose Comb Rhode Island Reds. Winners at the big shows. 79 incubators. Cockerels \$2. Call and see us.
R. W. Baldwin, CONWAY, McPherson Co., Kan.

Royal Scion Farm Durocs
The great Graduate Col., Gano's Pride, Cherry Scion and Graduate Scion head this herd. Bred sows and boar sale March 13th. Write for catalog.
G. C. NORMAN, Route 10, WINFIELD, KAN.

DUROC-JERSEYS.
DUROC GILTS bred and a fine lot of fall pigs at farmers prices.
A. G. DORR, OSAGE CITY, KANSAS

WOODDELL'S DUROCS
Herd headed by Rex E. Nuff by Good E Nuff Again King and brother to Oley's Dream. Spring boars and gilts priced reasonable. Satisfaction guaranteed.
G. E. WOODDELL, WINFIELD, KANSAS

THE GET OF CHAMPION BOARS
Duroc-Jersey spring boars and gilts sired by 800 and 1,000 lb. champion boars and out of one of the best herds of sows in Mo. Big boned, strong boars ready for service, \$20 to \$25; gilts bred to farrow in March, \$25 to \$35. Register papers furnished without extra charge. Send your check and get your money's worth. **R. W. TAYLOR, Olean, Mo.**

Durocs Priced to Sell 60 Head

**20 Bred Sows and Gilts
20 Choice Spring Boars
10 Handsome June Gilts
10 Fancy June Boars**

They are most all by or out of sows by Tattler, by the champion Tatarax, Smith Graduate, a grandson of the famous Graduate Col., and Gold Medal, a grandson of Crimson Wonder 4th. The sows and gilts are safe in pig to C. J.'s Col., by Col. Harris. They are the kind that farrow and raise large litters. The spring boars include both the rugged, stock-farmer kind and the kind suited to the breeder. The June boars and gilts have unusual quality. These hogs are fashionably bred, good boned, good colored, handsome headed and the type that will please you.

No Public Sale I prefer to give my customers the benefit of what a sale would cost. These 60 hogs must sell the next 60 days. Special Reduction on Six or More. Come to the farm on interurban R. R., near Newton, Kan., and let me help you select. If you cannot come write me exactly what you want. Yours for quick business.

J. R. SMITH, Newton, Kansas

Dispersion Sale of Durocs
Elmdale, Kan., Saturday, Feb. 20th

60 HEAD which includes our breeding herd, show herd, fall yearling and spring gilts; also our three herd boars, Big Chief, J. R.'s Chief and Model Bob. 25 tried sows, 20 fall yearling and 15 spring gilts all in pig to these good boars among them such producing herd sows as Lady Wonder, Miss Tat by Tatarax, King Surprise, Baby Girl 2nd, Top Notcher Girl, Pearl Orion 2nd, among which are producers of champions.

Show Herd and All Goes
In this sale, which is a complete dispersion of the Blackshere & Weaver herd. All excellent breeding stock. Culls all go to the packers. We offer without reserve this entire herd at your price. Send your name today for catalog.

Blackshere & Weaver, Elmdale, Ks.
Aucts.: John D. Snyder, Wood & Crouch, Fieldman, A. B. Hunter.

HAMPSHIRE.

REGISTERED HAMPSHIRE 150 gilts and boars, all ages. Cholera immuned. Description guaranteed. **C. E. LOWRY, Oxford, Kan.**

HAMPSHIRE Best of blood lines, well marked pigs, pairs or trios, with young boar to mate gilts. Breeding stock at all times for sale. Satisfaction guaranteed. **S. E. SMITH, LYONS, KANSAS.**

For Hampshire Hogs, Dutch Belted Cattle, Arab Stallion COLLIE DOGS AND GEESE FEATHERS. **W. W. WEISENBAUM, ALAMONT, KANSAS.**

SUNNY SLOPE FARM HAMPSHIRE
Pure bred, registered, well-belted, growthy, vigorous and immune Hampshire Hogs. I guarantee to please you or adjust any difference to your complete satisfaction.
FRANK H. PARKS, Olathe, Kansas

O. I. C. HOGS.

O. I. C. BRED SOWS and gilts. Priced right. **Elmer R. King, Houston, Kan.**

Choice O. I. C. BRED GILTS and TRIED SOWS. **HERY KAMPING, ELSMORE, KANS.**

Coon Creek O. I. C. Herd
32 Sept. pigs, both sexes, spring boars and gilts, and choice brood sows for sale. **A. G. Cook, Luray, Kan.**

SunnySide Herd O.I.C.
39 Spring pigs both sex, pairs and trios not related, best of breeding, priced right. **W. H. Lynch, Reading, Kan.**

Grandview Stock Farm
25 O. I. C., March and April, boars and gilts. Special prices for the next thirty days. **ANDREW KOSAR, Delphos, Kan.**

O. I. C. BRED SOWS and GILTS
A few tried sows and gilts bred for spring farrow; boars ready for service, pairs and trios not related. Best I ever offered. Very reasonable prices.
JOHN H. NEEF, BOONVILLE, MISSOURI

MAPLE GROVE O. I. C's.
Pigs farrowed first part of November, \$10.00. September pigs \$12.50 each. Bred gilts \$22.50, 5% off on all orders for two or more animals. Will have lots of extra good pigs coming between now and next April. Am booking orders now. Write me your wants. Satisfaction guaranteed.

F. J. GREINER, BILLINGS, MISSOURI

BERKSHIRES.

Hazlewood's Berkshires
Spring boars, bred gilts—immune: priced to sell. **W. O. HAZLEWOOD, WICHITA, KANS.**

Large English Berkshires
2 outstanding fall boars now ready for service, price \$40.00 and \$50.00 each. 20 head of spring boars at \$25.00 to \$40.00 each. 50 head of sows and gilts bred for spring litters, price \$35.00 to \$75.00 each. Address **H. E. Conroy, Nortonville, Kan.**

BERKSHIRES
Help me put Berkshires on every farm; some nice boars ready for service, prize winners; also some nice bred gilts. **FRED HALL, LONE WOLF, OKLAHOMA**

Walnut Breeding Farm
BERKSHIRE boars and gilts, spring farrow, grandsons of Barron Duke 50th, Big Crusader and Masterpiece 77000 and out of Lord Premier sows, also an imported bred outstanding 2-year-old boar and a few good Hereford bull calves. **Leon Waite, Winfield, Ks.**

OUTSTANDING BERKSHIRES Priced to Sell
Six spring boars ready to ship; two at \$25 each; two at \$25 each and two at \$50 each. Also one of our herd boars, Ideal Centerpiece 17845 at \$50. 15 sows and gilts and 30 pigs ready to ship. Buy early and save money.
J. T. BAYER, YATES CENTER, KANSAS

Special Offering
Sutton Farm Berkshires
125 head for sale, 10 service boars, 15 bred sows and gilts, 100 fancy spring pigs, at attractive prices. Write today.
SUTTON FARM LAWRENCE KANSAS

BERKSHIRES
Special offering of sows and gilts bred to Starlight Premier 6th and Rivaleer 139548. There will be quality and prices to suit all purses. Weanling fall pigs priced to sell. Write today.
KIESLER FARMS A. J. McCauley, Perryville, Mo.

GALLOWAYS.

Registered Galloways
250 in herd. 40 bulls from 5 to 18 months, sired by the 2200 lb. Carnot. Imp. breeding. **W. W. DUNHAM, Doniphan, (Hall County), Nebraska.**

CAPITAL VIEW GALLOWAYS
Bulls from 6 months to 2 years; also a few females of modern and quick maturing type.
G. E. Clark, Topeka, Kan.

Lebanon the day before and both sales can be conveniently attended. **J. H. DUSTON, Cedar, Kan.**, sells a few choice purebred Guernsey bulls that are eligible to registry. **W. A. Wilson and Lambert Brothers** will sell two Holsteins. One 2-year-old bull and a 3-year-old cow. Catalogs are ready to mail any time and you can have one by addressing **W. H. Lewis, secretary, Smith Center, Kan.** Mention the Farmers Mail and Breeze when you write. Attend both the Wilson sale at Lebanon on the 25th and this sale on the 26th.

The Kyle-Kemmerer Sales.

Ira C. Kyle & Son, Mankato, Kan., are pioneer Poland China breeders at that place. **Wint Kyle**, the junior member of the firm, is the secretary of the Jewell County Breeders' association. The Kyles and **John Kemmerer**, both of Mankato, are selling in a circuit. The Kyles sell on Wednesday, February 10, and **John Kemmerer** on Thursday, February 11. **Ira C. Kyle & Son** will sell 40 head consisting of four very choice tried sows, 16 fall gilts and 20 spring gilts. The spring and fall gilts are by Belle's A Wonder and are granddaughters of old A Wonder. The dams of the gilts are such sows as Intestate Queen, by Big Medium, and out of a Belleville Chief dam. Belleville Chief was the sire of Choice Goods and many other noted sires. Also two good sows by Henry's Expansion and one splendid sow by B's Great Hadley. The herd sows in this herd combine splendid quality with good size and this is by far the best offering this well known firm has ever been able to make. The fall gilts are bred to Henry Expansion and the spring gilts are bred to a good son of this great boar. There are also two good herd sows in the herd by Giant Chief Price. Everything in the herd is immune. Ninety-five bred sows and gilts will be sold in this big two days' sale of richly bred Poland Chinas. It is a big opportunity for those who want to buy bred sows. Write either party for both catalogs. Hotel accommodations for both sales will be provided free to visiting breeders. Write today for catalog and arrange to attend both sales which can be attended at one cost. Bids may be sent to **J. W. Johnson of the Farmers Mail and Breeze**. When you write please mention their advertisement in the Farmers Mail and Breeze.

Worth Going to See.

Thos. F. Walker & Son's half page advertisement of their annual bred sow sale at Fairbury, Neb., February 13, appears in this issue of the Farmers Mail and Breeze. In this sale they are selling 50 bred sows consisting of 10 fall gilts and 40 early spring gilts. The Walkers have been in the Poland China business on the same farm since 1888 and have built up a big business in several states. This season they decided to sell their spring boars at private sale and sold 46 of them in 19 different states at an average of \$75. Kansas have always bought liberally from this herd and have always received good treatment from its proprietors. Blue Valley is without doubt one of the great sires of the breed. He is a big fellow, weighing easily 1,000 pounds, in just good condition. There are several Blue Valley boars in Kansas and wherever there is one he is greatly admired and his get is in demand. Blue Valley Orange is another great sire in this herd that crosses well on Blue Valley's get. He was sired by Big Orange and was bought in the J. O. James sale. A few are by Columbus Wonder, by the champion Columbus. About half of the offering is bred for early farrow to Blue Valley and the rest to the different herd boars. Blue Valley Jumbo was sired by M's Jumbo and is one of the big sires of the West. He has 11 inch bone and is a massive boar. The dam of Blue Valley Jumbo is last season's biggest gilt. She is not 2 years old and will weigh 700 pounds. The 50 sows in this sale will prove on inspection as good as any like number that will be sold east or west this winter. They are out of big half ton boars and out of 700 to 800 pound dams. Send bids to **J. W. Johnson of the Farmers Mail and Breeze** in care of **Thos. F. Walker & Son, Fairbury, Neb.** Write for catalog today and mention the Farmers Mail and Breeze.

Great Percheron Sale.

In this issue will be found the half page advertisement of the big Percheron horse sale at the fair grounds, Beloit, Kan., Monday, February 22. **F. A. Cole** is dispersing his great herd of Percherons and will sell about 20 head. Fourteen head are being consigned by leading breeders in Mitchell county. In dispersing his herd **Mr. Cole** is selling one of the greatest stallions ever owned in the West. **McDuff**, showing as a yearling won 25 firsts without a second in 1906 and six gold medals. He was also shown later in Mitchell county and won first and grand championship. He has been in service on **Mr. Cole's** farm ever since he bought him in 1906 and the service fee has always been \$25. He is one of the most popular horses ever owned in Mitchell county. The two mares, **Lora C** and **Cora C** are also International prize winners and have proved great brood mares. In addition to these great mares and this great stallion, he is selling seven young stallions and 10 mares ranging in ages from yearlings to 6 years old. There is a mare by Calypso and three by **Olbert**. The 14 head consigned to this sale by other Mitchell county breeders are as classy a lot of young Percherons as ever went into a sale ring. **J. R. Albert, Glen Elder**, is consigning, from the La France stock farm, one great, young stallion, **R. C. McKinnie** is putting in a coming 3-year-old stallion out of one of the imported International prize winning mares which he brought to Mitchell county several years ago. **Miss Winnifred Johnson**, of Solomon Rapids, is consigning a 3-year-old filly sired by **Carnot** and out of the other imported **McKinnie** mare. The others are consigning first class animals in every instance. The other consignors are **P. H. Pauley, John Pickett, Morris Moore** and **Chaput Brothers**. On the night of the sale the Mitchell County Breeders association will give a banquet in honor of visiting breeders. Speaking will be indulged in and a good supper provided. Catalogs will be ready to mail February 10. You can write **Mr. Cole** any time for one and you will get it as soon as they are off the press. Mention the Farmers Mail and Breeze when you write.

N. Missouri, Iowa and Illinois
BY **ED. R. DORSEY.**
The Duroc-Jersey sale held by **Ira Dodson & Sons, of Aledo, Ill.**, January 26, resulted in an average of about \$40.00. The prices

Lookabaugh's Shorthorns

More and better Shorthorns for my customers than ever before. \$20,000 worth of pure bred Registered Shorthorns to sell the next 60 days. \$1000 properly invested in these cattle will make you rich. Come early and get your pick; we pay your car fare home if you do not buy.

Foundation stock that carry the blood of the very best Scotch families.

THE FARMER'S COW

Strong in the blood of the most noted sires of the breed.

2 heifers and a bull — milking strain, not related — \$250.

2 fresh milk cows, calf at foot and rebred — milking strain — \$350.

8 head of heifers, milking strain and Scotch herd bull all for \$1,000.

A car load of rugged young bulls, \$100 to \$150 each.

A WORD TO MR. BREEDER

It is easy to increase the value of every Shorthorn you raise from \$10 to \$30, simply by using a better breeding bull. Stop and figure what this means even on the first crop of calves, whether you have 5 or 50 breeding cows and heifers in your herd. I have never before had such splendid herd bull material from which to select. I want to place these bulls where they will do the most good. The success of those who buy these herd bulls will prove more than all my prize winning and show ring honors my ability as a breeder. Come and see them, you will say with others they are the greatest bunch of herd header material you ever saw on any farm.

CALL ON OR WRITE

H. C. Lookabaugh, Watonga, Okla.

Reduction Sale of Shorthorns
Come to Doyle Valley Stock Farm

175 Head of Shorthorns

consisting of many choice animals that carry the blood of noted sires and fashionable families. Built up from foundation stock purchased from the best breeders of the Southwest.

50 HEAD MUST SELL IN 60 DAYS. Here is the Bargain Counter for the man who expects to start in the Shorthorn business. All kinds of Shorthorn Breeding Stock from which to select—Cows, Heifers and Bulls, cows with calf at side others due to calve soon. Included are grandsons and daughters of such sires as Avondale, Prince Oederic and other noted sires. If you want Shorthorns come now. Write, wire or phone me when to meet you at Peabody either Rock Island or Santa Fe Depot.

M. S. CONVERSE, Peabody, Kansas

HIGH GRADE and REGISTERED HOLSTEINS

OVER 100 HEAD OF COWS, HEIFERS AND BULLS.

The sio and dairy cow are here to stay. There is big money and sure profit in the dairy farm if you use the right kind of cows. The Holstein has proven her worth in the North and East and is sure to take the lead in the southwest. Visitors welcome; call or write today.

Clyde Girod, Towanda, Kansas

HOLSTEINS

Herd headed by Sir Juliana Grace's DeKol. Dam one year, semi-official, milk 22087 pounds; Dam one year, semi-official, butter 924 pounds. Sire's dam one year, semi-official, 1026 pounds butter, as a three-year-old (world's record) and over 3,000 pounds butter in three years (world's record). We will let this great bull to a few good cows this season at \$25.00. We have several young bulls for sale. Write for particulars to

SHULTHIS, ROBINSON & SHULTZ, (Owners), Independence, Kas.

RED POLLED CATTLE.
FOSTER'S RED POLLED CATTLE Write for prices on breeding cattle. **C. E. FOSTER, R. R. 4, Eldorado, Kansas.**

RED POLLED CATTLE
Choice bulls, cows and heifers for sale. Best of breeding. Write or better come and see **CHARLES MORRISON & SON, Phillipsburg, Kan.**

RED POLLED CATTLE
BEST OF BLOOD LINES and cattle that will please you. Cows, heifers and young bulls, at attractive prices. **I. W. POULTON, MEDORA, KAN.**

ABERDEEN-ANGUS.
Aberdeen Angus Cattle DUROC HOGS
Johnson Workman, Russell, Kan.

ANCUS CATTLE
I will sell my herd bull **Rutger Heatherson 3rd, 118104** and eight coming yearling bulls; also some females, open and bred. My herd consists of animals of the best breeding, strong in the blood of the Blackbirds, Queen Mothers, Bruce Hills, Heatherblooms and Lady Jeans.
W. G. Denton, Denton, Kansas

ABERDEEN-ANGUS.
Aberdeen Angus Cattle
50 Females Yearlings and coming yearlings; also one three-year-old bull.
50 Bulls These are the best cattle we have ever offered and priced for quick sale.
Sutton & Porteous, R. 6, Lawrence, Kan.

POLLED DURHAMS.
Good Enough X8933
3 years old; also registered black Percheron stallion, a sure foal getter. **T. M. WILSON, LEBANON, KANS.**

Double Standard Polled DURHAMS
Six yearling bulls. A number of under yearling bulls. 2 good French draft stallions and some Jacks. **C. M. HOWARD, Hammond, Ks.**

HEREFORDS.
Sedlacek Herefords
14 bulls from 6 to 18 months old for sale. Popular breeding and the best of individuals. Write for full particulars and prices.
J. F. Sedlacek, Blue Rapids, Kan.

DAIRY CATTLE.
HOLSTEINS FOR SALE high bred registered bulls, from 4 to 18 months old. N. S. AMSPACKER, JAMESTOWN, KANSAS.

35 Head of 1, 2 and 3 year old **JERSEY HEIFERS** also a few cows and two registered bulls, a nice lot. Priced to sell. R. F. HODGINS, SILVER LAKE, KAN.

HOLSTEINS —CHOICE **BULL CALVES**
 H. B. COWLES, TOPEKA, KANSAS.

HOLSTEIN BULL eligible to register. From one of the best herds in Kansas. \$90 if sold now. GEO. H. HAUTS, GRIDLEY, KANSAS.

Higginbotham's Holsteins
 Registered Holstein bulls for sale, from a month old up to two years old, many of them from A. R. O. Dams. They are priced so they sell readily. If you need a bull see our before you buy. HIGGINBOTHAM BROS., Rossville, Kansas.

Sunflower Herd Registered Holsteins
 A number of choice young bulls all from A. R. O. dams and from proven sires and grand-sires. (A good bull is a profitable investment, a cheap bull will prove a disappointment.) Buy a good one from F. J. SEARLE, OSKALOOSA, KANSAS

Linscott JERSEYS
 Premier Register of Merit Herd Est. 1878. Bulls of Reg. of Merit. Imported, Prize Winning stock. Most fashionable breeding, best individuality. Also cows and heifers. Prices moderate. R. J. LINSOTT, HOLTON, KANSAS

HIGH GRADE HOLSTEINS
 Over 200 head in herd. Special prices on cows and 40 yearling and 2-year-old heifers, sired by Sindy Butter Boy King, whose dam and granddam were 27 lb. cows. 40 miles west of K.C. N. EAGER, R. R. No. 6, Lawrence, Kansas

HOLSTEINS FOR SALE
 Seventy-five Holstein Heifers, twenty months to three years of age. Bred to registered male; well marked, good stock. In order to sell these heifers quickly we are making very attractive prices. WAGGONER & SON, Independence, Kan.

Holstein Herd Material
 Choice Bull Calves; Service-able Bulls; and Females: Herd headed by Wauseons King Korndyke, a grand-son of Pontac Korndyke, that sired 109 A. R. O. daughters. T. M. EWING INDEPENDENCE, KAN.

SOMMER-BLADS GUERNSEYS!
 TUBERCULIN TESTED.
 Some matured cows and young bulls by Chief Glenwood Boy of Haddon, Penwyn 2d and Flash of Fenmore (A. R. 55). Address ERNEST KENYON, Nortonville, Kansas

SHORTHORNS.
17 SCOTCH TOPPED BULLS
 9 yearlings past and 8 yearlings. Big, strong, rugged bulls, mostly by Victor Archer. Reds and roans. Write today for descriptions and prices WILL GRANER, Lancaster, Kan.

SHORTHORN BULLS
 4 Shorthorn bulls, 9 months old, white and roans, sired by Golden Cruickshank, pure Scotch. From the same family as Lavender Lord, by Avondale. C. E. HILL, TORONTO, KANSAS

CLOSING OUT SALE
Scotch Topped Shorthorns
 12 bulls, 8 to 23 months old, reds and roans. 11 cows and heifers safe in calf or calf at side. EBY BROS., MARION, KAN.

Shorthorns Priced to Sell
 A nice lot of Scotch and Scotch topped bulls 8 to 30 months old; also cows and heifers safe in calf. These cattle can be bought so they will make you a good profit. Do not wait, first come, first served. H. C. STEPHENSON CLEMENTS, (CHASE CO.) KANSAS

SHORTHORNS
 Choice Young Herd Bulls 10 to 14 months old. A few Choice Young Heifers. Some Cows close to calving. Everything guaranteed free from tuberculosis, or any other contagious disease. Prices very reasonable. C. H. White, Burlington, Kan.

SCOTCH and SCOTCH TOP BULLS
 Four bulls; one yearling and three 8-months-old calves. Two pure Scotch, one Orange Blossom and one Brawth Bud. Also three or four choice yearling heifers. All by Secret's Sultan. Priced to sell. S. B. AMCOATS, CLAY CENTER, KAN.

Pearl Herd Shorthorns
 Vallant 346162 and Marengo's Pearl 391962 in service on herd. Choice early spring bulls by Vallant for sale. Thrifty and good prospects. Scotch and Scotch Topped. Correspondence and inspection invited. C. W. Taylor Abilene, Kansas

ranged from \$30 to \$67. The offering consisted of 5 tried sows and a splendid lot of yearlings. The offering has attracted the attention of not only the local breeders but the breeders of four outside states. Bids from the outside states were considerably higher than the local bidders would pay. In most cases running as high as \$30 above the prices for which the animals sold. The quarantine established on account of the foot and mouth disease had a very depressing effect on this sale. If everything had been in good working order no doubt these hogs would have made an average of \$60.00.

Jack and Jennet Sale.
 G. M. Scott of Res. Mo., is one of the old time Missouri breeders. His father before him and his grandfather were dealers in jacks. On March 4, Mr. Scott sells 25 jacks and 12 jennets. Not a matured jack will be sold that is under 15 hands, standard, and mostly 15 1/2 to 15 3/4 hands high. A few of the best jacks are mentioned. Mammoth Glen is 15 3/4 hands high and now weighs 1100 pounds, can be made weigh 1200 by spring, has a 35 inch ear and very heavy bone. Mr. Scott thinks he is the best jack he ever owned. Paymaster Longfellow is 3 years old, one of the best of his age. He was sired by Paymaster that Mr. Scott sold to parties in Tennessee for \$2,500. This is a 1200 pound jack with a 33 inch ear. Monarch Taxpayer is 5 years old, 15 1/2 hands high, and weighs 1200 pounds, very strong in bone, 34 inch ear. We like him as well as any jack to be sold. A goodly number of the jennets are in foal by Monarch Taxpayer. This offering is one of the best to be sold anywhere. Get a catalog that tells all about them.

Nebraska
 BY JESSE R. JOHNSON.

The W. E. Willey sale of big type prize winning Poland China bred sows to be held at Steele City, Neb., Friday, February 12th, should interest buyers from all over the corn belt. No sale of the year will contain a larger per cent of sows and gilts that have won at leading state fairs in the strongest kind of competition. Parties unable to be at the sale should send bids to Jesse Johnson of this paper. All letters should be sent in Mr. Willey's care at Steele City, Neb.

The Immune Poland China bred sow sale that Phil Dawson of Endicott, Neb., is making at St. Joe, Mo., February 9th is full of the breeding of the great Panorama. Included will be twenty yearling gilts that are granddaughters of O. K. Lady, one of the biggest and best sows ever exhibited at Nebraska State Fair. The entire offering was double immuned when young. Anyone that is interested, and unable to attend may send bids to Jesse Johnson in care of Mr. Dawson at the Transit house St. Joe.

Readers of this paper who appreciate size in Durocs will be interested in the Howell Bros.' bred sow sale to be held at the farm near Herkimer, Kan., Friday, February 12th. This will be one of the first class offerings of the season. A big lot of the most up to date breeding is represented and the bred sows and gilts that go in this sale have been raised and conditioned by men that know how and were anxious for best results from the standpoint of the buyer. If unable to attend send bids to J. W. Johnson in care of this firm at Herkimer, Kan.

Last Call Willey's Sale.
 Time was when the little roly poly Poland Chinas won the premiums at the big fairs and shows, but conditions are different now. Size is a requirement and the breeder with ability to combine the greatest size and quality wins. The W. E. Willey sale to be held at Steele City, Neb., February 12, will be full of bred sows and gilts that have won at all the big fairs the past season. Over half of the offering will be bred to the undefeated Superba and half will be daughters of Big Bone's Son, the sire of the prize winning herds last fall. Write for catalog of this sale before you sleep and attend or send bids to Jesse Johnson of this paper.

The Third Day's Sale.
 A. J. Swingle, Leonardville, Kan., sells Poland China bred sows at his farm, Joining town, Friday, February 13. His is the third sale in the Riley county Poland China bred sow sale circuit. Mr. Swingle will have autos and rigs at the Griffiths sale to take everybody to his nice comfortable hotel in Leonardville where everyone will be his guest. His offering, while not as large in point of numbers is one of great merit. He will sell 13 fall gilts that have raised litters that are certainly great young sows. They were sired by Gritter's Surprise and Big Orange Again, the great sires that sired his offering last February that was considered one of the best offerings of the season. The 25 spring gilts were sired by Gritter's Surprise, Big Orange Again, Tip Top Wonder and Hercules 2d. This is popular breeding and everything in the sale is well grown and good individually. Most of the offering is bred to Gritter's Surprise with a few to Hercules 2d and Orange Wonder. Everything is immune. Leonardville is on the Leavenworth and Miltonvale branch of the Union Pacific but he can ship over the Rock Island at Riley which is only six miles from Leonardville. Write Mr. Swingle for his catalog today and arrange to attend all four sales.

The Riley County Circuit.
 J. H. Harter, Westmoreland, Kan., opens the big Riley county Poland China bred sow sale circuit at the Agricultural college, Manhattan, Kan., Wednesday, February 17. The sale will be held in the stock judging pavilion and those who would like to avail themselves of the opportunity of looking over the big college should come as early as is convenient. Mr. Harter will provide free hotel accommodations for the breeders. The sale will start at 1 o'clock p. m. The offering numbers 50 head of tried sows and gilts. There will be 12 tried sows, none of them over 3 years old and most of them 2 years old. Five of them were sired by old Mogul's Monarch and two are by Chief Price, by Chief Price Again and one by Blue Valley Goldust, by Blue Valley Expansion. The 12 fall gilts are mostly by Long King and the 26 spring gilts are by Gephart and Long King. Everything is bred to Gephart, Long King and a splendid son of Gephart. Mr. Harter pronounces this the best offering he has ever made and he has made some great bred sow sales. He is one of

Percheron Stallions and Mares

50 Head of Percherons
 All Registered in the Percheron Society of America



Algarve by Samson at the head of the herd, is a wonderfully impressive sire, weighing over 2200 pounds.

Young stallions and mares by Algarve and big handsome mares of correct type, in foal to him, make up a large part of this offering. His two-year-old daughter was 1st in class at the International and the mares we offer you bred to him are the kind that will do honor to him.

If you want Percherons, we want to meet you and there is no better way than right at our barns and pastures, where you can see what they are and how we raise them. When you see this year's crop of big-boned, square-built, handsome colts you will have a better idea of what we have to sell.

These Percherons are strong in the best blood ever imported from France. They have size, bone and conformation that cannot help but please you if you want the good, big draft type of Percheron. We expect to sell Percherons because we have the right kind and at prices you will say are reasonable. Write wire or phone what you want or when you can call at the farm, 3 miles East of Great Bend. Shipment over both Missouri Pacific and Santa Fe. Call on or address

Harris Bros., Great Bend, Kan.

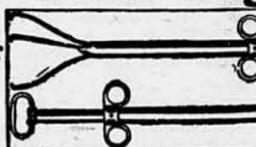
Brilliant Blood, Jet Blacks, Rich Grays
 Registered Percheron studs, 1, 2, 3 and 4 years old. I grow the son type with extraordinary bone and heavy quarters—I love a good horse. Come and visit at my plain old-fashioned Percheron farm that has the goods, and lots of them. Don't let anyone tell you that they have Percherons just like Fred Chandler's. Just above Kapsas City. FRED CHANDLER, Route 7, Chariton, Iowa.

BUY YOUR JACKS OF PRAIRIE VIEW JACK FARM
 We have shipped jacks for 35 years. The same reliable guarantee goes with each sale. We have forty jacks and jennets to sell from 2 to 5 year olds, 15 to 16 1/2 hands high. We sell more jacks at private sale than any other firm, 40 miles north of Kan. City and 40 ml. east of St. Joe. ED. BOEN, LAWSON, MISSOURI

Jacks and Jennets
 A good lot of two to six-year-old jacks, well broke and quick servers, the kind that gets business in any community. Reduced prices for the next 30 days. Call or write. PHIL WALKER MOLINE, KANSAS



Save Your Pigs
 Get a SureGetter Pig Forcep
 The Great Veterinary Instrument the Farmers of the "Hog Belt" are all talking about. The "Twentieth Century Wonder"—Gets 'em Alive and saves the Mother. Don't compare them with the Old Fashioned Pincher and Loop Forceps that are Flooding the Country. "They do the work."—Beautifully Nicked—Thus Doing Away with all Possible Danger of Blood Poison to the Animal. "Worth Their Weight in Gold" to every Farmer.—Order one today, have it when you need it. General Agents Wanted.—Every County in Your State. R. C. FOLLET & CO., 3328 Dupont Ave., So., Minneapolis, Minn.



ECKHARDT'S SHORTHORNS

More Than 100 HEAD Must Sell by Feb. 15th
 Cows and heifers bred or with calf at foot. A choice lot of young heifers and bulls 8 to 20 months old.

A Rare Chance for Breeder or Farmer
 to add to or lay the foundation for a Shorthorn herd. Rose Dale by Avondale and out of Rose Wood 92nd, a sire of great merit at head of herd. 75 cows with calf at foot or bred to this son of the champion Avondale. When you visit this herd and see 30 of his last season's get, handsome sons and sweet daughters, they will prove to you his ability as a sire and you will want some of these cattle. We have raised these cattle and know what they are. The female foundation is mostly from my Wisconsin herd and are strong in milking qualities.

Special Prices Will Be Made
 to those wishing the entire herd or who buy several head. You cannot afford to wait if you want good registered Shorthorns. These cattle must sell and will sell soon. Wire, phone or write when you will come. Phone No. 1212.
Levi Eckhardt, 1203 E. 10th St., Winfield, Kas.

PUREBRED HORSES.



German Coach
70—Horses—70

The great general purpose horse. Satisfaction guaranteed. Write or call.

J. C. BERGNER & SONS, Pratt, Ks.

60 Head Registered PERCHERON HORSES

From weanlings to matured horses, of both sexes. Stallions one to five-year-olds; ton horses, herd heads and mares of the best breeding. Matched teams; All recorded in the Percheron Society of America. Also Shetland ponies and Shorthorn cattle. Herd headed by Velvet Chief 38840. Come and see us before you buy. 6 mi. north of Pawnee Rock or 10 mi. west of Great Bend, Kas. F. H. EWING, Route 1, Box 28, Pawnee Rock, Kan.

Imp. Stallions and Mares

Percherons, Belgians, and Shires 2 to 6 yrs. old, weight, 1800 to over 2100. Paris, Mamers and state fair winners. Best guarantee, prices right. Terms to suit reliable parties. Also Shorthorn bulls and heifers.



Joseph Rousselle, Seward, Neb. 2 1/2 MILES WEST OF LINCOLN.

STALLION FOR SALE

Best Percheron in Kansas. Coal black, coming 3 years old, will mature 2050 and has the style of a coacher. Registered, sound and right in every way. \$750.00 buys him.

Sutton Farm, Lawrence, Kan.

JACKS AND JENNETS.

FOR SALE OR TRADE Five jacks, 3 to 6 years old. W. E. LOOMIS, Route 16, Emporia, Kas.

HALEY'S STOCK FARM

For Sale: Three splendid jacks in service last season. Also one reg. Percheron stallion and a few good Percheron mares. Write **JAS. B. HALEY, HOPE, KANSAS**

Leavenworth Co. Jack Farm

25 jacks and jennets for sale. 2 good herd headers. Located between Atchison and Leavenworth on Santa Fe R. R. **CORSON BROTHERS, POTTER, KANSAS**

Big Boned Jacks and Jennets

Herd won more prizes at Oklahoma State Fair 1914 than all others combined. One of the oldest established herds in the state. **J. E. SMITH Kingfisher, Okla.**

KENTUCKY JACKS AND SADDLERS

Fine Kentucky Mammoth Jacks and Jennets, Saddle Stallions, Mares and Geldings. Kentucky quality is the best. Low express and freight rates. Home cured Blue Grass Seed. Write us describing your wants. **The Cook Farms, Box F, Lexington, Ky.**

MAMMOTH JACKS

You will find at my barns one of the largest number of best quality registered, big-boned black jacks, 15 to over 16 hands, to be found in the U. S. Reference, Banks of Lawrence. Location 49 miles west of Kansas City on the U. P. and Santa Fe. Prices reasonable.

Al E. Smith, Lawrence, Kas.

FAIRVIEW STOCK FARM

Registered Jacks, bred to meet modern requirements for bone and stamina. 25 head from weanlings to 7-year-olds and up to 1200 pounds in weight. Good jennets bred to the champion Pharaoh 2491. We won the 1913 and 1914 state fair championships.

H. T. HINEMAN & SONS, Dighton, Kansas.

GRANDVIEW JACK FARM

At private sale: 18 mammoth jacks ranging in age from serviceable jacks down to weanlings. All are black with white points and have bone, size and substance. Also 35 jennets in foal. Write for descriptions and prices, and visit my barn at Stockton. Visitors called for at Plainville. If you are looking for the best at reasonable prices write me. **Cornelius McNulty, Stockton, Kan.**

SCOTT'S JACK and Jennet Sale

will be held in Savannah, Mo., March 4th; will sell 24 large black registered Mammoth Jacks, 3 to 7 years old and 12 bred jennets of same type as the jacks; the best offering I have ever made. Write for illustrated catalog. **G. M. SCOTT, Res, Mo.**

35 Years A Breeder For Sale

35 head Jacks and Jennets 1 1/2 to 16 hands. These Jacks have all been raised here on our Farm in Kansas and are acclimated. We are not speculators but raise and sell our own stock. Also 1 Imp. Percheron Stallion and 1 grade Belgian Stallion. **M. H. Roller & Son, Circleville, Kan.**

the pioneer Poland China breeders of Kansas and has kept abreast of the times by buying from leading herds over the country. Look up his advertisement of this sale in the big double page announcement of the big sale circuit. Almost 200 bred sows will be sold in these four good sales. You can attend them all for the one expense. Start with Mr. Harter's sale at the college. Write him today for his catalog.

The Fourth Day's Sale.

James Arkell Junction City Kan. sells Poland China bred sows in Junction City, Kan., Saturday, February 20. His sale is the fourth and last sale in the big Riley county Poland China bred sow sale circuit. It has been arranged so Mr. Arkell's sale can be attended very easily and those attending the Swingle sale can reach Mr. Arkell's sale without losing any sleep and get there in plenty of time for the sale Saturday morning. Junction City has good railroad facilities and everyone can make the best of connections for home that evening. Mr. Arkell has arranged for good hotel accommodations for his guests. The sale is in town. His offering is one of the truly good Poland China offerings of the season. Mr. Arkell is well known as a breeder of Poland Chinas and his herd is one of the strongest in the West. He will sell 45 head, consisting of 15 fall gilts, a few of them have raised litters, 10 exceptionally choice tried sows and 20 spring gilts. The fall and spring gilts were sired by Pan Look, First Quality and Longfellow Again. This is noted breeding. This fall Mr. Arkell made quite a trip looking for a suitable herd boar to use on the sows that go in this sale. He wound up by buying Tom Miller's 3-year-old herd boar, Chief Big Bone. The thing that was most convincing to Mr. Arkell that he had found the right boar was his get which Mr. Miller showed him. His sire was Long Chief 2d and his dam was Queen of Big Bones. The entire offering will be bred to this great boar and Longfellow Again. Everything is immune. Write for catalog today.

Popular Breeding and Immune.

An event that should interest every Duroc-Jersey breeder in northern Kansas and Nebraska is the big sale of Immune Duroc-Jersey bred sows to be sold at Verdon, Neb., Thursday, February 25. This is Martin Kelly's annual sale and will contain as many outstanding individuals as will be found in any one sale this year. In breeding Mr. Kelly has used as much as possible the great show boar Carnival Chief, a son of Lincoln Chief, by Belle's Chief. His dam was Uneda Rose, by Uneda Crimson Wonder. Carnival Chief was first in class at Kansas and Colorado last year. This boar is an excellent individual and has one of the best sets of feet and legs the writer ever saw under a hog of any breed. Another boar used extensively is Kelly's Defender. Some are bred to and many are sired by Valley King Again, son of Valley King and Kelly's Model, by Kelly's Pilot Wonder. The attraction of the sale will be the great sow Model Queen 2d, full sister to Model Queen, the sow that won grand championship and later sold for \$705. She is a splendid and regular breeder and just in her prime. It is hard to estimate the value of such a sow but the buyers in this sale will set the price. She is bred for an early litter to Valley Chief Again. Included is one tried sow by Yanquisher, a son of Kant Be Beat. The dams of the offering are largely of Crimson Wonder and Defender blood. Six high grade Holstein and Guernsey fresh cows will also be sold and six heifer calves same breeding and one 2 months old Holstein bull eligible to registry, out of a 500 pound dam and grandson of a \$1,000 bull. Write at once for catalog. Verdon is in Richardson county, only a few miles from the Kansas line. If you can't come send bids to Jesse Johnson, in Mr. Kelly's care at Verdon, Neb.

The Second Day's Sale.

J. L. Griffiths, Riley, Kan., sells Poland China bred sows at his farm near Riley, on Thursday, February 18. This is the second sale in the big Riley county Poland China bred sow sale circuit. Riley is only 18 miles from Manhattan and those attending the Harter sale at the college can have supper in Manhattan and take a Rock Island train the same evening for Riley where Mr. Griffiths has arranged for good hotel accommodations for his guests. Mr. Griffiths is selling 50 head. Twenty of them are fall gilts, 25 are spring gilts and all are by King of Kansas, the great sire whose get is so popular with the breeders. He is a big massive fellow sired by Long King's Equal. There will be five tried sows in the sale bred to King of Kansas and they are real attractions. The fall and spring gilts are a well grown, well conditioned lot of young sows that are sure to make good as brood sows. They will not be loaded with fat but will be in the best possible breeding condition. More than half of them will be bred and safely passed over to the great young boar, Long Jumbo Jr., sired by Long Jumbo and out of the great sow, Big Lady Wonder, bought by H. B. Walter in a prominent Iowa herd last winter. She farrowed nine pigs and raised six of them which sold in Mr. Walter's October sale for \$1530. Mr. Griffiths found the great boar he was looking for in this litter. His sire has weighed over 1100 pounds and his dam is easily an 800 pound sow and called one of the best individuals ever owned in Kansas. The balance of the gilts will be bred to Hercules 2d. Everything is immune. Mr. Griffiths invites you to attend his sale and also the other three sales in this circuit. You can rest assured you will be well taken care of. Ask him today for his catalog.

S. E. Kan., S. Mo. and E. Okla.

BY C. H. HAY.

Any of our readers who want first class big type Poland China bred gilts will find it to their advantage to correspond with J. E. Axline of Wellsville, Kan., or E. E. Axline of Independence, Mo. They have a fine lot of big type gilts bred, for April and May farrow, to a big strong yearling Chief Mastiff boar, on which they will make close prices. Look up their ad in this issue and write them for prices and particulars.

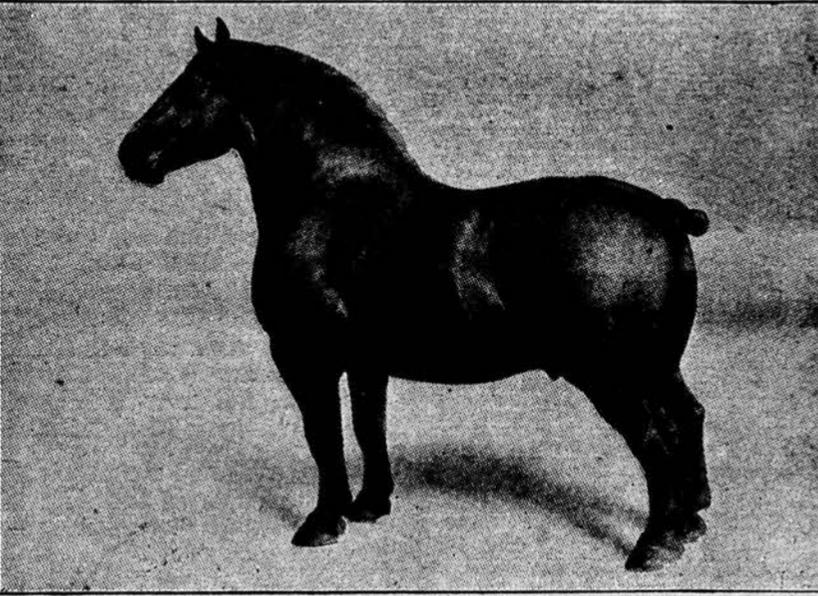
Breeds Splendid Berkshires.

E. D. King, of Burlington, Kan., is truly one of the West's great hog breeders. He goes at things with the true Kansas spirit. He maintains the largest Berkshire ranch in the West if not the largest in the world. Not only does Mr. King raise Berkshires in large numbers but he keeps the quality up to the very highest standard. He uses

Seven Extraordinary Percheron and Belgian Stallions and Mares

Sell At Auction in M. Pyle's Barns, 1-2 Mile From City of

Emporia, Kans., Tuesday, Feb. 16th



"Wide as a Wagon" and "Peaches and Cream" Are Terms None Too Broad to Use in Describing These Horses.

The Percherons

IMP. JUVENILITE, a 5-year-old ton stallion by Acrobat, dam Lisette, is a show horse that has never been shown; sure foal getter and a splendid sire with plenty of bone, style and action.

KANSAS KING, a 1600 pound coming two-year-old stallion, by Juvenilite and out of the imported prize winning mare, Venita, weighing over a ton also sells. Venita, sired by Bouilvet, dam Jule and safe in foal to Imp. Juvenilite, weighs over a ton; she was first prize winner at Kansas State Fair, 1913. You can travel many a mile without finding her equal. All are registered in the Percheron Society of America.

The Belgians

DALL, by Imp. Electrique, dam Gruesette, an 1800 pound, three-year-old, broke to service, and to harness; the true Belgian type. His sire was the best in a whole carload of imported stallions and he has license to make a better horse than his sire.

CALINE, JEZABELLE and GRISETTE are three matured Belgian mares, all imported; one weighing 1900, the other two right at a ton each. All three are showing safe in foal, one to Dall, described above and the other two to Imp. Rozon-old, a 2100 pound grandson of a Belgian grand champion. The imported mare Caline was winner of a silver cup and 1st prize at Hutchinson State Fair, 1913. Jezabelle is also a prize winner.

These stallions and mares are all hardened to work, the stallions broke to service and sure foal getters. The imported animals are all acclimated and the mares all safe in foal. If you want the best in either Percheron or Belgian stallions or mares, here is your opportunity. Twenty other horses also sell consisting of six high grade Percheron mares safe in foal to these good stallions, also matched teams of work geldings and mares, fillies, colts, etc. Every animal to sell exactly as guaranteed. Good train service on M. K. & T. and main line of Santa Fe. Write today for catalog.

RUNDOLPH SCHROADTER, Emporia, Kansas

AUCTIONEERS—Wood and Crouch. FIELDMAN—A. B. Hunter.

Registered Percheron Studs

We have them, big fellows, 1, 2, 3 and 4 yr. olds. Real Drafters, big bone, lots of quality and action, grown right, will go out and make good both as to sires and foal getters. You lose money if you don't look at Bishop Bros.' Studs before buying. 20 miles east of Wichita on Mo. P. Ry.

BISHOP BROS., Box A, TOWANDA, KANSAS

LAMER

I have just received a new shipment of 20 Stallions and now have

80-Head-80

Stallions, Mares, Fillies and Colts

WRITE FOR PRICES

C. W. Lamer, Salina, Kansas

for herd boars some of the very best boars to be found in the United States. Mr. King does business on a very large scale, and is in a position to ship breeding stock by the carload; he can take care of most any sized order. He gives the business his personal attention and every order no matter how small will receive his prompt and careful attention. Write for particulars.

Seventh Annual Jack Sale.

W. J. Finley, the well known jack breeder of Higginsville, Mo., will hold his seventh annual jack and jennet sale Tuesday, March 2. He is offering 50 head, practically all the great Dr. McCord breeding. There will be 25 big jacks from 3 to 5 years old, the balance jennets and colts. This will be the most important sale of its kind in this section this spring. Watch Capper papers for display ads.

Combination Stock Sale.

The Miami County Breeders' association have their ad in this issue. This is going to be one of the best offerings of this kind that will be held this spring. The consignors are the most reliable breeders and men who have been very successful. The stock they are putting in is first class. There is nothing going in this sale but what they feel sure will go out and make the purchaser money, and will make him and his neighbor look to Miami county for breeding stock in the future. Miami county is the home of many careful and progressive breeders; men who are up to the top notch in breeding and a glance at the list of consignors will give you some idea of what you can expect in the February 25th sale. Look up the advertisement and write for catalog today.

Last Call Frazier's Sow Sale.

For a long time the name Frazier has been deeply stamped on the minds of Missouri Poland China breeders. Years ago the elder Mr. Frazier was recognized as one of the particular breeders of the state. Later three of his sons took up the business. E. D. Frazier is now known and recognized as one of the foremost Poland China breeders of America. His hogs have been shipped from coast to coast. He has shipped over 100 head this fall. He also has the honor of making the highest average made on brood sow sales in this territory last spring. This year Mr. Frazier is putting up the best offering he has ever made. He has made the assertion that the sows and gilts that go in his February 10 sale will be 25 per cent larger than in any previous sale. Arrange to attend this sale or send bids to C. H. Hay, who will represent this paper.

A Smooth Columbus Sale.

"That is the best big type Poland China boar that has been shown at Sedalia." This remark was made numerous times at the Missouri State Fair. The hog mentioned was Smooth Columbus, owned by John Belcher of Raymore, Mo. Smooth Columbus was shown in little more than working flesh, for Mr. Belcher knows too much about the hog business to ruin a prospect like Columbus just for one or two blue ribbons. Mr. Belcher is an old hand at this show business and knows what often results from overfeeding. Smooth Columbus so favorably impressed those who saw him at Sedalia that Mr. Belcher sold all his boar pigs before many other breeders realized that the season was open. Elsewhere in this paper you will find a likeness of this great boar. In Mr. Belcher's sale will be about 35 sows bred to him. In the ad you will notice the breeding of the sows. A glance will tell you they are an extra well bred lot and as for individuality they are mighty hard to beat. There is one by A Wonder, one by Expansion Wonder, one by Colossus, four by Grand Look, one by Big Sampson, one by Panorama's Son, 35 yearling gilts, granddaughters of Big Hadley and Grand Look, and some spring gilts by A's Midnight. What a great lot of sows, and bred to the great Smooth Columbus; where are you going to get anything better? Mr. Belcher has topped the sales of some of our best breeders for sows to breed to Smooth Columbus. You can't help but like Smooth Columbus. He has the breeding, the bone, the size. We know that if you see this great hog you will want a couple of these good sows bred to him. Arrange to attend this sale.

Prize Sow Offering.

W. A. Baker and Sons of Butler, Mo., have selected for their February 19th sale the best lot of sows and gilts they have ever offered. One cannot appreciate the significance of such a statement unless he is familiar with the high class of stock that they have always bred. Those not familiar with the quality of Mr. Baker's hogs may judge them somewhat by the marks they have made everywhere they have been shown. At Sedalia last fall, they won the futurity trophy and 16 other ribbons. At the Butler fair last fall they won all but three ribbons with strong competition. They are using as herd boars Big Look, shown at 5 fairs in 1913, winning two firsts and three seconds. Mo. Wonder, by Blaine's Wonder and out of a dam by Big Hadley, and most important of all Big Boned Son Jr. 7194. One of the yearlings from the show herd of Mr. Willey of Steele City, Neb., the sensation of the western fairs last fall. Among the many good things of the offering will be the splendid fall yearling gilt with which they won first at Sedalia. She now tips the scale at a little better than 425 pounds. The spring gilts are large and growthy and in our opinion will average better than 300 sale day. The 10 tried sows rank with anything in the state and are the kind that will make you money. You need this kind of sows in your herd; no matter if you are not in the purebred business you can well afford to own such sows as these. They are money makers for both breeder and farmer. Baker & Sons are justly proud of their offering and want you to have one of their catalogs. Look it over carefully and try to attend this sale. If you live too far away and wish to save time and expense of attending the sale, write your fieldman what you want and what you want to pay. Don't forget the date, February 19th. Mr. John Belcher sells at Raymore the following day.

Angus Cattle Dispersion Sale.

We want everyone interested in the production of beef to read carefully the ad of P. W. Schaefer which appears in this issue. Mr. Schaefer's offering will be first class in every way. He has been nearly 14 years in developing this herd. During those years he has been with them constantly and given them his personal attention. Every-

Greatest Percheron Event of the West

Enid, Okla., Thursday, Feb. 11th

Under Auspices of Oklahoma Breeders Combination Sale, Feb. 9-12th

W. S. BOLES & SONS

Consign

Their regular annual sale date Feb. 18th has been cancelled and they will consign 18 head including 12 stallions and fillies by their great herd stallion, Hautain, grand champion at Kansas, Oklahoma and Arkansas State fairs; also 6 choice mares bred to this famous champion; among them a 1st prize winner at Kansas, Oklahoma and Arkansas State fairs.

Think of it, 45 Percheron stallions and mares most of them sired by or bred to the champion stallions Albany 2nd, Hautain and the great International grand champion, Carnot. Write for a catalog of these richly bred Percherons. Address

F. S. KIRK, Mgr., Enid, Okla.

J. H. JACKSON

Consigns

6 head including the four-year-old imported stallion, Kor, 1st prize winner Oklahoma, Texas and Louisiana State fairs, 1914; also a team of mares weighing 4410 pounds, both state fair winners. One a grand champion at two state fairs. All of Mr. Jackson's mares are bred to Albany 2nd, eight times grand champion at state fairs and national shows, and grand champion over all breeds at National Feeders' and Breeders' Show at Ft. Worth, Tex.

F. S. KIRK and OTHERS

Consign

3 fillies sired by the \$10,000 International grand champion Carnot, owned by W. S. Corsa, of Whitehall, Ill., one of them a prize winner at both Iowa and Illinois State fairs, also 7 extra good fillies bred to the famous Carnot; one wonderful 2-year-old, weighing over a ton. C. F. Cooper consigns 4 including an imported four-year-old stallion weighing over 2200 pounds, prize winner at Kansas State fair, also one of his fillies, winner at the same fair. F. N. Gardner consigns 3, 1 a 1900 pound-2-year-old stallion.

Percheron

Event of the Year

March 2, 1915

Manhattan, Kansas

35 Imported and American bred mares.

15 Stallions, including our entire show herd except Scipion. Mares bred to him and colts sired by him will be included.

LEE BROTHERS

Catalog Ready February 1st Harveyville, Kan.



Grand Champion Scipion.

10 Registered PERCHERON Stallions

ranging in ages from two years to six. Blacks and greys. Strong in Brilliant breeding. Write for prices and descriptions. WILL GRANER, LANCASTER, KANSAS

Percherons Belgians

I have a fine bunch of Percheron, Belgian and French draft stallions and one Shire stallion. Also mares, colts and fillies that I am offering for sale very cheap. I will sell you a stallion ready for service next spring for from \$300 to \$500. Some extra good ones higher. Colts and fillies very cheap.

J. M. NOLAN,
Paola, - - Kansas



WE HAVE BEEN IN THE HORSE BUSINESS MANY YEARS

And we have never at any time owned as many ton stallions as we have at the present time. If you are looking for a stallion with size, quality and action at a reasonable price come and see us.

Daniel Kelly & Son City Office, Lincoln, Neb. 1612 O. St.

Watson, Woods Bros. & Kelly Co.

LINCOLN, NEBRASKA

Imported and American Bred Stallions,

PERCHERONS, BELGIANS AND SHIRES.

We have a splendid lot of stallions of various ages selected especially for the requirements of our trade. They are big, drafty, clean boned, well finished and good actors. We have never offered better bargains.

150 Choice Holstein Heifers unregistered, from best milking strains, soon to freshen. OUR PRICES ARE RIGHT



one of them is well broke to the halter. They are the most quiet and gentle lot of cattle the writer has seen. A stranger can go up to most any one of them, right out in the lot. Every cow has been broke to milk. Mr. Schaefer is dispersing the entire herd; he has been troubled in getting pasture for them for several years, and had to pasture some of them away from home, where he could not give them the attention that purebred cattle require. For that reason and that reason only he has decided to sell them. The offering will include some as fine individuals as the Missouri Valley can produce. The two 2-year-old bulls should be at the head of good herds. There is one Double Trojan Erica yearling that is simply outstanding and in a class by himself, one of the greatest prospects in the valley. Someone is going to draw a prize when he buys this bull. He will also sell the herd bull, Erica of Eshott, a Double Trojan Erica, got by imported Eaton Eshott, out of imported Evesham, bred by Chas. Esher & Son. Here is a bull that you will like when you first see him. When you see his get, you will like him more than ever. It is certainly a recommendation for a bull when he sires the kind of calves that will go through the sale ring Feb. 16. There is a very nice variety of breeding offered here. There are Ericas, Double Trojan Ericas, Blackbirds, Hawthorns, Pride of Aberdeens, Queen Mothers, Beautys, and Zaras. Everyone interested in Angus cattle should be at this sale. Catalogs, fieldnotes and advertising do not do this herd justice, they must be seen to be appreciated.

Publisher's News Notes

A Barred Rock Man.

C. C. Lindamood of Walton, Kan., has been successful as a producer of Barred Rock chickens. We believe his success due to his efforts to sell only the best eggs and chickens and to sell precisely what he advertises.

Get This Catalog.

A tractor advertiser well known to the readers of this paper is the Kinnard-Haines Company of Minneapolis, Minn., makers of the Flour City tractor. It is a sturdy, practical tractor. The 1915 catalog is just out. It is worth sending for and reading. It gives information the prospective tractor buyer wants to have. The Kinnard-Haines Company, has a branch house at Wichita, from which it is in a position to serve Kansas and southwestern farmers. See ad on page 42 of this issue and write for the catalog, addressing Kinnard-Haines Company, 854 44th avenue, North, Minneapolis, Minn.

The Rumely Receivership.

Our subscribers may have read in the daily press that the M. Rumely Company of La Porte, Indiana, is in the hands of a receiver. The report is correct. It should be understood, however, that the business of the company is going on as usual, under the direction of the receiver. The question may be asked, "Can I be sure of getting repairs and supplies if I buy Rumely machines?" There is no difficulty whatever about making such purchases. The Rumely branches are serving their customers as usual. The Rumely business is going on uninterruptedly. The farmer can buy the Rumely, Advance or Gaar-Scott machines with perfect assurance that his interests will be taken care of as heretofore.

The Old Oaken Bucket.

The "old oaken bucket" has its picturesque place in the cherished memories of childhood. It has little place, however, in the present day scheme for hygienics. For it must be admitted that the stagnant well and the moss covered pail are first rate breeding places for disease. Nowadays, the up to the minute captain of farm industry is looking out carefully for his water supply, not only for his family and himself but for his stock. And he is the one to take especial interest in the announcement in this issue of an auto-olled windmill that "works by a breath," that runs in the slightest of air currents, busy practically all the time keeping the well pumped out, keeping the water in motion. The manufacturer says it requires but a political argument in the near vicinity to make it run industriously. The gears and bearings are flooded with oil, which is used over and over again. Two quarts of oil will keep it running a year or more. Surely here is a new height of efficiency reached in the construction of farm machinery. It merits a place with the auto plow, the motor churn, the 8-cylinder "buzz wagon"!

Pure Water.

Pure water and unflinching adds greatly to the comfort and health of the people and of domestic animals. Nearly every farmer or dweller in the outskirts of the city or village can have the pure liquid from beneath the solid rock free from surface contamination. Everyone who can afford it should at the earliest possible date put down a deep well and thus insure the health of his family, the community and the welfare of the domestic animals. This policy is a wise investment as the real estate is enhanced in value more than the expenditure. The man who engages in sinking deep wells and in prospecting for mineral is doing his country a great service as well as making a good income for himself. At times it is advisable that a group of families should unite in procuring one large well where the cost is unusually high. Whatever the cost every neighborhood should provide for itself pure water, and if possible every family. Modern machinery offers facilities for efficient work. Our columns give announcements of such equipment. The large catalog of the American Well Works, Dept. 18, Aurora, Ill., is of great value to all who will write for it if they are interested.

How to Save 40 Per Cent on Trees.

If you are going to set trees of any kind next spring, either for domestic, home orchard or for commercial purposes, you will find the investment of 1 cent in a postal card very well worth while. Provided, of course, you use this post card to write to W. F. Schell of the Wichita Nurseries and ask him to send you his new 1915 catalog and money-saving proposition. Mr. Schell probably was one of the first nurserymen in the Southwest to use the plan of selling trees direct to his customers and saving to his customers the tree agent's commissions, which amount to about 40 per cent. For more than 35 years the Wichita Nursery, under the management of Mr. Schell has

Aberdeen-Angus Sale

Dispersion of the Solomon Valley Herd

Stockton, Kansas, Wednesday, February 17th

THE PROPERTY OF BARTLETT & COOLBAUGH

Eighty-five head of bulls, cows, and heifers of the most fashionable blood lines and superior individuality that have ever been offered in the state of Kansas. They represent the most popular families; Blackbird, Queen Mother, Miss Watson, Boghead Vine and others. They are a well developed lot of extra good breeding cattle. Sixteen bulls of a serviceable age are catalogued. All are of the popular type and have quality. Black Knight of Highland included in sale, is now at the head of the herd. The cows and heifers are a choice lot, and every female of a breeding age is safely settled, and the young heifers are in the pink of condition to go on making money.

We are also selling forty-one head of high grade yearlings and two-year-old steers and heifers that will make show cattle. We pay freight on car lots east and south of the state of Kansas.

For a catalogue address

BARTLETT & COOLBAUGH, STOCKTON, KANSAS

Sales Manager, M. A. Judy, West Lebanon, Ind. Auctioneers, Cols. John W. Travis and Ira Hazen.

Mitchell County's Greatest Percheron Sale

In the Sale Pavilion at the Fair Grounds
BELOIT, KANS.
Monday, February 22

In this sale F. A. Cole is dispersing his herd of registered Percherons and in addition to the great stallion, **Macduff** and the great mares featured in this advertising, is selling young stallions, one three-year-old, three coming two-year-olds, three weanlings. Also 10 mares ranging in ages from six years old down to yearlings. Many of the stallions are by **Macduff** and one of the mares is by **Calypso**, three by the great champion **Olbert**, others by other noted sires. There will be plenty of evidence of the worth of the great stallion, **Macduff** sale day.

Other Mitchell County Consignors

Mitchell county is noted for its good Percherons and several breeders have consigned choice animals with Mr. Cole's offering as follows: J. R. Albert, Glen Elder, a fine young stallion; R. G. McKinnie, Glen Elder, a young stallion coming three, out of one of the great international prize winning mares he shipped to this county four years ago; Winnefred Johnson, Solomon Rapids, a three-year-old filly, by **Carnot** and out of the other International prize winning mare brought to Mitchell county by Mr. McKinnie. Both were imported mares. P. H. Pauley, John Pickett, Morris Moore and Chaput Bros. are consignors. Thirty-four head in all will be sold and will be one of the best offerings of Percherons of the season. Catalogs ready to mail February 10th. Send your name for one to

F. A. COLE, Barnard, Kansas

Mention the Farmers Mail and Breeze when you write. Auctioneers—R. L. Harriman, Will Myers, Harry Vanamburg. Fieldman—J. W. Johnson.



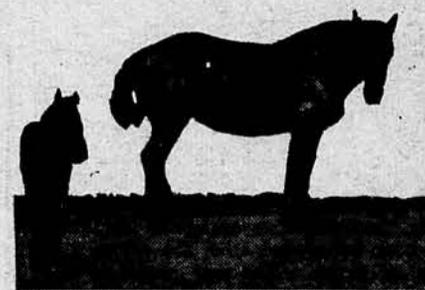
Stallion Macduff 45562 P. S. A.

Foaled Jan. 28, 1905. Won in 1906 as follows: First at International, first at Iowa State Fair, first at Minn. State Fair, first Illinois State Fair, first Wisconsin State Fair, first Indiana State Fair. 25 firsts that year and six gold medals. Also first as aged stallion at Mitchell County Fair later.



Mare Lora C. 40165 P. R. Co.

Foaled May 10, 1902. First and champion mare any age at International, 1905. Weight about 2100 pounds. Has raised a colt every year since Mr. Cole has owned her. He sold two yearlings and one two year old at the farm for \$3500.



Mare Cora C. 40816 R. P. Co.

Foaled March 24, 1903. Won 2nd at the International same year. Lora C won first, competing with her. Won first in special class. Weight about 2100. A splendid brood mare.

been supplying trees of all kinds to farmers and fruit growers all over Kansas, Oklahoma, Arkansas, Missouri, Colorado, Nebraska, Texas and the Panhandle. Consequently, Mr. Schell knows the right trees for each section of the West and Southwest. If you will read the Wichita Nursery advertisements appearing on page — of this issue you can get a very fair idea of just the kind of trees, as regards quality, that Mr. Schell takes pride in shipping to his customers. Your name on a postal to Mr. Schell will bring you all of this information by return mail. Address W. F. Schell, Box B-1, Wichita, Kan.

Don't Let Down the Bars.

Contagious diseases that carry off thousands of hogs, sheep, horses and cattle, can be prevented. It is not a matter for one stockman or farmer. Every man who raises stock should use great care as to sanitary conditions. A war must be fought against stomach and intestinal worms. It is admitted that lime should be scattered liberally in the pens and yards, as a disinfectant; that all rubbish be cleaned up regularly and burned—that stock should be kept free from worms. Comparatively few farmers do this, and unless there is more concerted action along this line there will always be contagious diseases, and serious loss. Worms are more dangerous than many imagine. They cause 90 per cent of livestock losses. They not only infest young stock, but if left undisturbed burrow into the inner walls, forming viscous, worm-infested patches. They multiply rapidly—consume the vitality of the animal and in many cases cause death. There are various methods employed to rid stock of worms, but the easiest, quickest and safest way, now used by successful stockmen is feeding Sal-Vet. Sidney R. Fell, president of the Fell Mfg. Co., Dept. F. M. B., Cleveland, Ohio, is so firmly convinced of the great value of Sal-Vet as a worm destroyer and conditioner that he agrees to send enough to feed all your stock for 60 days—asks no money in advance—and if it fails to do what he says, he cancels the charge. The Sal-Vet advertisement on page 43 of this paper gives the full particulars.

Increased Demand For Eggs.

In no year in the history of the whole poultry industry have poultrymen faced a more cheerful outlook than the one that is confronting them now. Every indication of the times is that both poultry and eggs will find a bigger and richer market in 1915 than ever before. For a great many years there has been a growing scarcity of meat. This year this condition is accentuated by the ravages of cholera among hogs, and the foot and mouth disease among cattle. The war in Europe is increasing this shortage. In the trenches facing the cold of winter the soldiers have to be fed heavy rations of meat, and the war in Europe is cleaning up the meat supply of the country. We know more about poultry now than we did ten years ago; preventive measures for escaping disease, for increasing the egg yield have been widely distributed by many agencies. The most active agency in this connection has been the educational efforts of the incubator manufacturers. Their efforts have enriched the country by many millions of dollars, through the increased production of poultry everywhere. In discussing this subject sometime ago with H. H. Johnson of Clay Center, Neb., manager of the largest exclusive incubator and brooder factory in the world, we find a good illustration of how well one incubator company has been carrying on this educational work. The Johnson's point out to their customers that one of their big advantages is the ease with which big hatches can be made at any time of the year, particularly in winter and early spring, which gives you fall laying pullets and lets you get chickens and eggs on the market at the time when prices are highest. Here is an advantage that every experienced poultry raiser recognizes. It calls for an incubator of top notch construction, of course, but when you think of the extra profits it brings you it's well worth the effort to get it. For instance, the Johnson's Old Trusty, which so many people have made big successes with, is heated with a hot water system connected to a double boiler. Then, as an extra precaution to insure uniform heat over the eggs, the case is made with triple walls, top and bottom. This extra care in construction is no doubt responsible for the marked success of Johnson's customers. Conditions this year mean for the poultryman a steady, growing demand and better prices for chickens and eggs than ever before. It is going to mean that this is the year for everyone to get into the poultry business.

Standard Prospers

The Standard Poland China Record association is in a prosperous condition. This was the report made at the annual meeting held at the headquarters in Maryville, Mo., January 6. There was a large attendance at this meeting. The proposal to establish a branch office at Kansas City was defeated. The directors decided to erect a building, suitable for the association in Maryville. This building probably will be completed by June 1.

The officers elected were: Alvin Windom of Iowa, president; W. O. Garrett, F. P. Robinson, and S. S. Spangler of Missouri; L. R. McClaron of Iowa; T. J. Dawe of Kansas; Thomas A. Shattuck and J. C. Meese of Nebraska, directors; Ray Davis of Lincoln, Neb., secretary, and Frank L. Garrett of Maryville, Mo., assistant secretary.

Mr. Garrett, the assistant secretary, has been connected with the office more than 17 years. The new secretary will spend a large part of his time in the field. His first work will be to encourage a closer fellowship among breeders and to advance the interests of the Poland China.

A desirable husband is known by the size of his wife's woodpile.

J. D. Mahan's Dispersion Sale of Big Type Poland Chinas

Whiting, Kansas, Tuesday, February 23 55 Head Of The Best—55

The offering is the tops and cream of one of the strong herds of Big Type Poland China herds of the West. There will be 20 tried sows representing such boars as **Expansion Look, Moore's Halvor, Hadley Golddust, Referendum, Big Hadley's Likeness and Jumbo Jr.** These sows are bred to **King John, Expansion Look and John Halvor.** There are 14 yearling gilts sired by **Expansion Look, King John, Moore's Halvor and Expansion Look.** There is also 20 spring gilts. The 34 fall and spring gilts are bred to **John Halvor.** Also 40 last fall pigs about half of each sex that are great. Mr. Mahan is closing out his herd and is putting in all of the tops. No reservations. Get his catalog and be convinced that it is one of the really great offerings of the season. The sale will be held in a big tent. Free hotel accommodations for breeders from a distance. Ask him for the catalog today. Write today and address,

J. D. MAHAN, WHITING, KANSAS

Send bids to J. W. Johnson of the Farmers Mail and Breeze in care of Mr. Mahan.

Smith County Breeders'

Combination Registered

STOCK SALE

In the Sale Pavilion, Fair Grounds

Smith Center, Kas., Friday, Feb. 26

SHORTHORN CATTLE

C. A. Cowan, Athol, Kan., consigns a draft of eight Shorthorns consisting of four bulls from one year to 20 months old. Also one two-year old heifer and one four-year-old cow and two last July calves. The older bulls and cows are by Mr. Cowan's old bull, Victoria's King, by old Victoria. The calves are by Avondale's Best, by Avondale and the cows are bred to him. This is a pure Scotch bull and his dam, Nonpariel Lady 4th was by Victor Sultan by White Hall Sultan. Oliver Dillsaver, of Athol, also consigns two good Shorthorn cows, bred to Scotch Lad, a straight Scotch bull. The cows are of good breeding and are just class in every way.

HEREFORD CATTLE

Six young Hereford bulls, all around one year old and all registered or eligible will be sold. They are consigned by H. L. Abercrombie, Gaylord, Kan., H. J. Dannenberg, Gaylord and S. D. Seevers, Smith Center. All of these young bulls trace to Anxiety 4th. They are choice young bulls, good individually and of good breeding.

PERCHERON HORSES

Two two-year-old Percheron stallion colts and one yearling will be sold. R. H. Gedney, Gaylord, Kan., will sell one two-year-old and one yearling and both by the imported stallion Ranvalo and out of a span of ton registered Percheron mares. Mr. Hammond's colt is out of a registered sire and dam. All three colts are black.

POLAND CHINA BRED SOWS

Lambert Bros., Smith Center, will sell 35 bred sows as follows: 12 tried sows, all spring and summer yearlings that have raised one litter each, four fall gilts and 14 spring gilts and five June and July boars. The entire offering was sired by Waechter's Referee, by Referendum, with the exception of a few by Big Hadley and Long Look. All are bred to a Grandson of old Big Orange and Long Look, by Nebraska Ideal, the best boar they ever owned. C. A. Cowan sells 10 bred sows, consisting of six tried sows and four spring gilts. Sired by Expansion Boy and Referendum's Pride. Everything bred to King Jim. Both herds represent the best in big smooth type.

GUERNSEY CATTLE

Mr. J. H. Duston of Cedar, Kan., consigns a few choice young Guernsey bulls. Mr. Duston is building up a registered Guernsey herd at his farm near Cedar and these bulls are from his best cows.

HOLSTEIN CATTLE

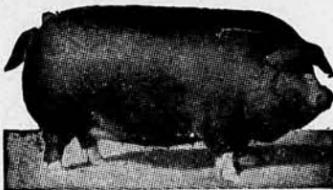
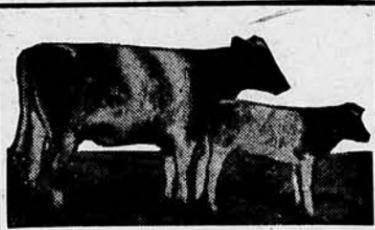
W. A. Wilson, Smith Center, will sell one three-year-old Holstein cow registered and Lambert Bros., one two-year-old bull. Both are first class animals.

This is the first of the regular annual sales which the members of the Smith County Breeders' association have decided to hold. All consignors to this sale are members of this association. Their big catalog will be ready to mail by the 15th of February. Write for it at once. Mention the Farmers Mail and Breeze when you write for a catalog. Address

W. H. LEWIS, Sec'y., Smith Center, Kansas

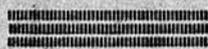
Auctioneers: John Brennen, Al. Hester, R. L. Brown.
J. W. Johnson, fieldman.

Thos. M. Willson Sells 35 Poland China Bred Sows at Lebanon the day before.





ANGUS



F. W. SCHAEDE'S

DISPERSION SALE

Yates Center, Kan., Tuesday, February 16

40—Kings and Queens of the Breed—40

Consisting of cows soon to freshen, cows with calf by side and bred again, bred heifers, heifer calves, bull calves, yearling bulls, 2 year old bulls and herd bull. All top notchers, representing the following families: Erica, Blackbird, Hawthorn, Pride of Aberdeen, Queen Mother, Beauty, Zara, and Bouble Trojan Erica.

Auctioneers—Cols. Silas Igo, Iowa; W. C. Mills, Yates Center, C. E. Hayhurst, Altoona, Kan. C. H. Hay, Fieldman for Capper Papers.

Write for catalogue.



**F. W. SCHAEDE,
YATES CENTER, - KANSAS**



The Result of 12 Years' Careful Breeding

Miami County Breeders Sale

Paola, Kansas

Thursday, Feb. 25th

60—Choice Animals—60

25 PERCHERONS, 6 stallions, 11 mares and fillies, 4 weanling fillies, 4 weanling studs. This offering includes two imported seven-year-old mares, 6 mares with foals in sale insure breeding worth. They are the drafty type of Percherons, the kind you want.

9 HEREFORDS; yearling heifers and bulls. From the best herds in Miami County.

6 POLLED DURHAMS; yearling heifers and bulls. From a herd with records as prize winners at state fairs and American Royal.

20 POLAND CHINAS; bred gilts and sows. From big type Poland China herds.

CONSIGNED by the following Breeders:—J. M. Nolan, Paola, Kan. Percherons; J. D. DeTar, Spring Hill, Kan., Percherons; J. W. Masters, Paola, Kan., Percherons; Heflebower & Laskie, Bucyrus, Kan., Percherons; M. A. Kelly, Bucyrus, Kan., Herefords; H. L. McDill, Paola, Kan., Herefords; C. J. Woods, Paola, Kan., Polled Durhams; P. L. Ware & Son, Paola, Kan., Poland Chinas; L. V. O'Keefe, Bucyrus, Kan., Poland Chinas.

The breeders consigning these animals are well known among breeders of Kansas and adjoining states. All are substantial farmers and breeders of Miami County. They are making this offering of such quality that if you buy once, you will always come to Miami County, Kansas, to buy your breeding animals. Catalogs now ready. For other information regarding the sale, address,

O. C. HAGANS, Sale Mgr., Paola, Ks.

Auctioneers—John Snyder, Andy Weir, J. W. Haggard.
Fieldman—C. H. Hay.

Kentucky Jacks

FOR SALE—We have shipped from Poplar Plains, Ky., to Hutchinson, Kan., 20 head of fine registered jacks, ranging in age from three to eight years old and from fourteen and a half to sixteen hands standard. All good colors



with large, heavy bone and plenty of weight. We have been shipping jacks to the West for years and this is the best load we have ever shipped. They are for sale privately. Come and look them over and we will make prices right. At Midland barn.

SAUNDERS & MAGGARD, Hutchinson, Kas.

Nutter's Shorthorn Dispersion Sale

In the Sale Pavilion, WASHINGTON, KAN.

Tuesday, February 23rd



This Type of Shorthorns Will Pay on Any Farm.

I have decided to disperse my entire herd of Shorthorn cattle on the above date and will sell 27 bred cows and heifers, five open heifers and eight young bulls ranging in ages from 6 to 14 months. The sale will be held in comfortable quarters and Washington has the best of railroad facilities. The cows and heifers are bred to Prairie Sulton 399309, by the great Meadow Sulton owned by Achenbach Bros., of Washington, Kan. The dam of Prairie Sulton was sired by Orange Cup. Other cows and heifers are bred to Choice Master 2nd, by Choice Knight, by Choice Goods. Everything will be found in ordinary breeding condition. Nothing is loaded with fat but is just as it was intended for our own use. Write for further information. Address,

J. D. NUTTER, Morrowville, Kans.

Auctioneer: Jas. T. McCulloch. Fieldman, J. W. Johnson.

Duroc Brood Sow Sale

ST. JOSEPH, MISSOURI

Wednesday, February 17

Sale to be held at Horton's Sanitary Duroc Hog Ranch at Willowbrook, on the St. Joseph, Clay Co., and K. C. Interurban. Car every hour; stops on the farm.

FORTY Bred Sows and Two Herd Boars

I have been breeding Durocs for fifteen years and have held at least one sale each year and this is the best offering I ever had.

HERD BOARS ON HORTON SANITARY DUROC HOG RANCH

Royal Wonder 140759, by Allen's Wonder Again 106657, by Crimson Wonder Again out of Miss Royalty.

I Tat A Tale, by Tat a Tale, by Tatarax out of Bopeep by Nebraska King.

Enhancer 157349 by E. Pluribus Unum out of Red Eva by Sir Thomas.

Horton's Golden Model, by Golden Model Critic out of Fannie Model, by I Am Golden Model 2nd.

The entire offering except 1 sow will be bred to our herd boars. This offering is by or out of sows sired by E. A. Crimson Rambler 103681; Butler Orion; Col. Scott Jr., 108773; I Am Golden Model 2nd 133821; Royal Wonder 140759; Crimson Rambler 78303; Carl's Col. 104198; Red Crow.

Special Four daughters of Red Crow (great winner of 1914 at the Kansas State Fair, Interstate Fair and the Missouri State Fair). Two show prospects by Golden Model Critic out of a daughter of I Am Golden Model (she is the best sow we ever owned). Three top gilts by Royal Wonder and out of Top Notcher Queen, by Top Notcher I Am. Tabulated catalog free for the asking. If you come to St. Joseph take the St. Joseph, Clay Co., & K. C. Interurban to the farm; any conductor knows my place. If you come from Kansas City follow the same instructions. Address all letters in care of

EARL HORTON, ST. JOSEPH, MISSOURI

Bids will be carefully handled if sent to me or the representative of this paper, Ed. R. Dorsey.

HOWELL'S Annual DUROC-JERSEY Bred Sow Sale

At farm near Herkimer and Marietta, Kans.

Friday, February 12, 1915

50 Big Type Sows and Gilts Properly Fed and Developed for Results, 50
10 Tried Sows 15 Fall Yearlings
25 Spring Gilts

Fall gilts sired mostly by Joe's Pride, son of Joe, winner of 1st at St. Louis World's Fair.

Spring gilts mostly by Royal Climax, 2nd at American Royal, 1913. His sire was Climax, a son of Dotie. 1 spring gilt by Perfect Col. Champion at Eastern shows the past season. Tried sows mostly by Joe.

The offering is bred to Revelator, a son of Queen May, grand champion of Kansas, 1913. His sire was Blue Valley, by Valley Chief. Others to Perfect Climax, by Royal Climax, and Sampson's son, by King Sampson. His dam was by Col. Scion.

The offering is very uniform and all but a very few raised on our farm and descended from sows raised by us. We know the breeding lines and can assure prospective buyers that this is one of the most practical and useful offerings of the year. Trains will be met at Marietta on Union Pacific and Herkimer on the Grand Island. Make connections at Fairbury and Wymore for these points. Write early for catalog and be our guest sale day if possible.

Howell Bros., Herkimer, Marshall Co., Kas.

AUCTIONEER—Jas. T. McCulloch.

J. W. Johnson will represent this paper; send him bids in our care at Herkimer.

Immune Duroc-Jersey Bred Sow Sale

At Farm Near Verdon and Shubert, Neb., Thursday, Feb. 25



40 HEAD 6 tried sows including Model Queen 2nd. Cut shown in advertisement. Sired by Golden Model, and full sister to the \$705 grand champion sow, Model Queen.

10 fall yearlings and 25 spring gilts, bred to Carnival Chief, Kelly's Defender, Valley King Again and Kelly's Model. The offering of gilts will have lots of size and uniformity and will be mostly sired by Kelly's Model and Valley King Again. Both boars of quality, size and rich breeding. The offering is out of dams of Crimson Wonder and Defender breeding. I will also sell six high grade Holstein and Guernsey cows and the same number of heifer calves and one Holstein bull 2 mos. old, eligible to registry, out of a 500 pound cow. Cattle sale before dinner.

Write for catalog. Trains met at Verdon and Shubert. Free hotel, either place. H. S. Allen, Auctioneer.

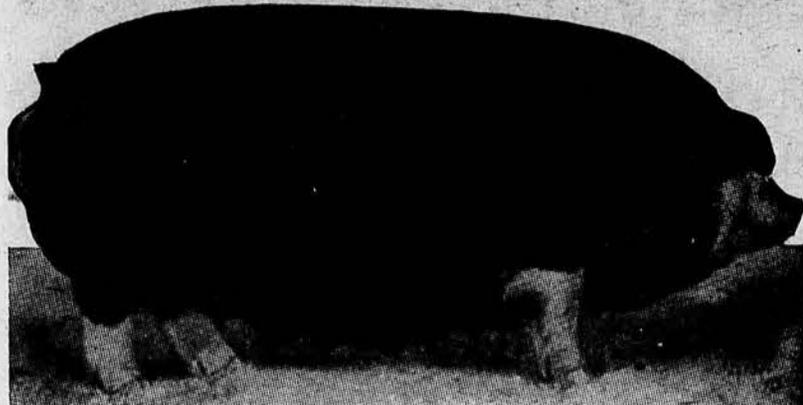
Martin Kelly, Verdon, Neb.

(Richardson County)

Jesse Johnson, fieldman for this paper. Send him bids in my care at Verdon.

Foley's Immune Poland China Bred Sow Sale

Under Cover at **NORTON, KAN., Saturday, February 13th**



Lizzie B., by Blain's Last Hadley, Out of Lady Jensen, by Mogul. Weighs Over 700 pounds. Sells bred to Panama Giant.

40 That Carry the Blood of Not- ed Big Iowa Sires and Dams 40

12 tried sows. 8 fall yearlings. 20 spring gilts. The fall gilts were sired by King Hercules. Spring gilts by The Giant, a son of Big Ben. Others by King Hercules and Blood Orange, a son of Ott's Big Orange. The tried sows include some of the very best sows in the herd, daughters of Ott's Big Orange, Blain's Last Hadley, Jumbo Pan and Panama. Selling these great sows as attractions. Most of the gilts are out of sows by Ott's Big Orange, Blain's Last Hadley and Blue Valley Look. The fall and spring gilts are bred mostly to Blue Valley Look, Panama Giant and King Hercules. Tried sows to same boars. Write early for catalog. Mention the Mail and Breeze. Send sealed bids to John W. Johnson in my care to Norton, Kan. Stop at any hotel in Norton as my guest.

J. F. Foley, Norton, Kansas

COL. JAS. T. McCULLOCH, AUCTIONEER.

Joint Sale Duroc - Jersey and O.I.C. Bred Sows

Irving, Kan., Tuesday, February 16
In Sale Pavilion

40 Head 30 Duroc-Jersey bred sows
and 10 O. I. C. bred sows, also
one Spring boar of each breed.

Everything was immunized by the simultaneous method 30 days before breeding. I breed both Duroc-Jerseys and O. I. C. hogs and my O. I. C. sows that are offered in this sale are from stock bought of L. B. Silver Co., Cleveland, Ohio. Everything is bred to Alvey Poincaire, a son of Damascus 41000.

The Duroc-Jersey sows and gilts are by and bred to **Rex Tatarraz**, a son of old Tatarraz, **Blue Valley Col. by Valley Chief**, and **Billy H 92889**. My catalogs are ready to mail. Please mention the Farmers Mail and Breeze when you ask for one. Send bids to J. W. Johnson of this paper or the auctioneers, in my care. I will take good care of you sale day. Address,

J. M. LAYTON, Irving, Kansas.

Auctioneers—Jas. T. McCulloch and T. E. Gorden.
Fieldman—J. W. Johnson.

Hillcrest Farm Duroc-Jerseys

**40 BRED GILTS FROM PRIZE
WINNING Sires and Dams 40**

Hope, Kansas

Saturday, Feb. 27

20 great spring gilts sired by **Select Chief**, the grand champion boar at the leading western State fairs this season and **Col. Harris**, the 1912 first in class boar. **Everything on my farm immune.**

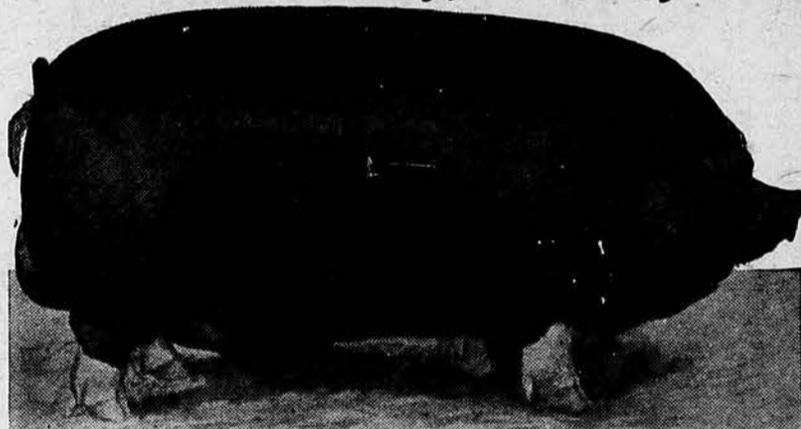
I bought the 20 spring gilts referred to above from **Thompson Bros., Garrison, Kan.**, last fall, expressly for this sale. Many of them are out of their prize winning sows and all of them choice gilts. I also bought five top gilts from the **J. O. Hunt** offering of 25 gilts in his October 21st sale. They are simply great. I am also putting in 15 spring gilts, sired by **Taylor's Model Chief** and out of my herd sows which I think will compare favorably with any in the West. Also five fall yearlings by the same boar. **Taylor's Model Chief** was sired by **R. L's Model Chief** and was bred by **R. L. Comer**. He is two years old and I will leave it to you sale day as to his individual merit and his ability as a sire. All of the offering is bred to four different sires owned by me. Write today for my catalog and it will give you full information about breeding, herd boars, etc. **Send bids to J. W. Johnson in my care** and you will get a square deal. Write today. Address,

E. N. Farnham, Hope, Kan.

Auctioneers: W. C. Curphey, Jas. T. McCulloch.
Fieldman, J. W. Johnson.

Epley's Big Poland China BRED SOW SALE

Smith's Sale Pavillon
FAIRBURY, NEBRASKA **Friday, February 26th**



Mammoth Hadley 70131. Sows in This Sale Bred to This Great Boar and Others by Him.

40 HEAD THE BIG QUICK MATURING KIND 40
5 Tried Sows 8 Fall Yearlings 27 Spring Gilts

The spring gilts were sired by **Pan Defender**, **Hutch Hadley** and **Expansion Chief**. Fall gilts all by **Pan Defender**. 10 choice Sept. boars are also being cataloged.

One litter of 5 is out of **Lula B.**, the dam of **Daisy**, the 800 lb. champion sow at 23 mos. The offering will be bred to **Hutch Hadley**, **Pan Defender**, **Mammoth Hadley** and a good son of **Pan Defender** and the show sow **Daisy**.

This is by far the best offering we have ever had for one of our sales. Sows are included that are the equal of any that will be sold this year. Write for catalog; it gives all information. Parties from a distance stop at **Merchants Hotel** at Fairbury as my guests.

W. E. EPLEY, Diller, Nebraska

Auctioneers: Jas. T. McCulloch, C. W. Smith.
J. W. Johnson will represent this paper. Send buying orders to him in my care, at Fairbury.

THOS. F. WALKER & SON'S Big Annual Bred Sow Sale

10 fall yearlings and 40 early spring gilts that are litter mates to the 46 boars sold this fall at an average price of \$75 and going to 19 states and every customer pleased.

Saturday, February 13th, In Sale Pavilion, Fairbury, Neb.

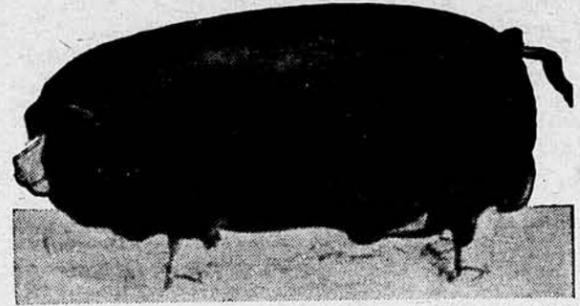
The Immune Blue Valley herd of big type, big bone Poland Chinas was established in 1888 and has been in business on the same farm continuously ever since. We have been selling herd boars and bred sows to Kansas breeders all of that time.



Blue Valley Jumbo by M.'s Jumbo. An Outstanding Under Two Year Old Boar Weighing 700 Pounds.



Thos. F. Walker, who has bred this type of Poland Chinas on the same farm since 1888.



Blue Valley by Blue Valley's Quality, the Premier Boar in This Great Herd.

Most of the offering was sired by Blue Valley and Blue Valley Orange, a few by Columbus Wonder, by the champion Columbus. There will be two litter mates to our great young herd boar, Blue Valley Jumbo. About half of the offering will be bred to Blue Valley and the rest to the herd boars mentioned above. Blue Valley, we believe needs no introduction to Kansas breeders. Blue Valley Jumbo is out of the biggest gilt sold last season and will weigh now, under two years old, 700 pounds. His sire, M.'s Jumbo 208633, has an 11 inch bone and Mr. Miller says is the biggest hog he ever owned. Our big illustrated catalog tells the story. Write for it today and mention the Farmers Mail and Breeze. Free hotel accommodations for breeders at Fairbury. The 50 sows in this sale are by half ton boars and out of sows weighing 700 to 800 pounds. They will be showing up fine for early litters. Everything was given the simultaneous treatment last August. Write today for our catalog. Address

THOS. F. WALKER & SON, Alexandria, Neb.

Auctioneers: H. S. Duncan, C. W. Smith.

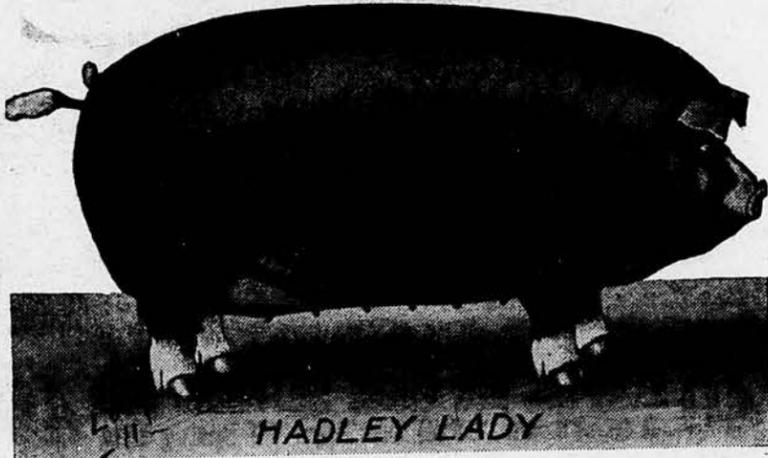
Send your bids to John W. Johnson of the Farmers Mail and Breeze in our care at Fairbury, Neb.
W. E. Willey will sell Poland Chinas at Steele City the day before our sale.

Morgan's BIG Poland Chinas

The Annual Bred Sow Sale Will Be Held on Mr. Morgan's Farm, This Winter, and 40 Choice Sows Go In The Sale.

Hardy, Neb., Monday, February 15

Mr. Morgan's great herd is known all over the West because of the great size which it contains. All of his sires are of the half ton kind. Some of the best fall yearlings ever raised on this farm will be in this sale. It is a great offering of the best of big ones.



One of the Attractions in This Sale of the Kind Everybody Is Looking For.

The offering consists of ten tried sows, 20 fall yearlings and 20 spring yearlings. The fall gilts are by Guy's Price Wonder and the spring gilts by Long Sam and Guy's Price Wonder. The fall gilts and some of the spring gilts are bred to the Sensational young boar bought in the Powers & Chattuck sale at Aurora, Neb., last October. He is a January pig and traces to Long Wonder and Smooth Wonder on the sires' side and to Big Hadley on the dams' side. The balance of the gilts and the tried sows are bred to Guy's Price Wonder and Big Sam. Everything immune. Sale at the farm. Will meet trains at Hardy, Neb. and Republic, Kan. Ask for catalog today. Send bids to J. W. Johnson of the Farmers Mail and Breeze in my care. Address

JOSHUA MORGAN, Hardy, Nebr.

Auctioneer: H. S. Duncan. J. W. Johnson, Fieldman.

Baker & Son's Poland China Sow Sale BUTLER, MO.

Friday, February 19, 1915

Winners of the Futurity Trophy and Sixteen Other Premiums at Sedalia.

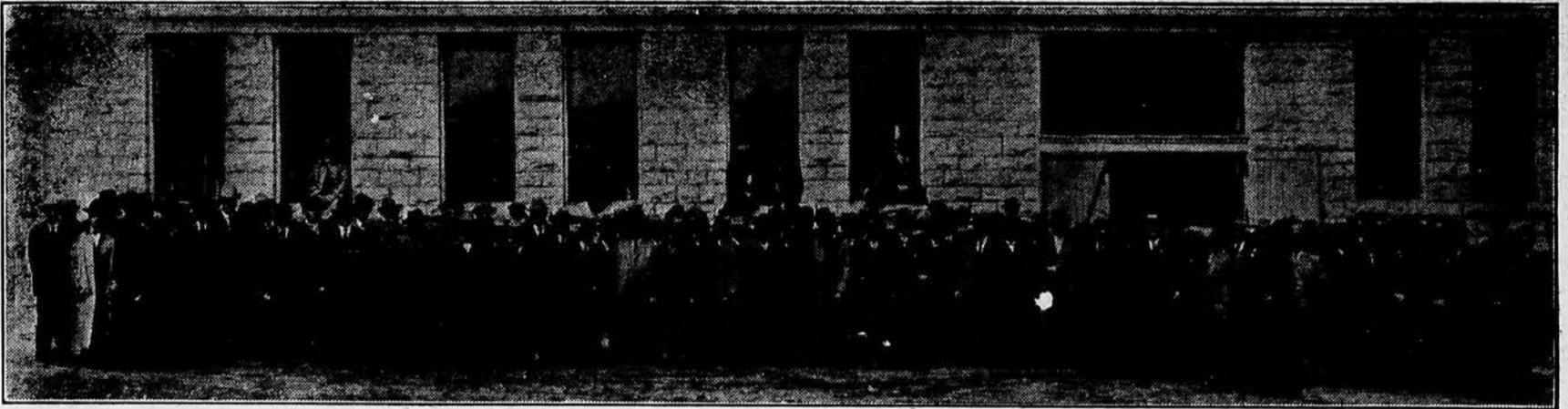
Herd Headed by Big Bones Son Jr., Champion of Three States Last Fall.

The offering will consist of 10 big, mellow, tried sows, well bred, just right age to produce good litters. 20 great, big, fall yearlings, by Mo. Wonder and other big boars. A remarkable bunch of gilts, some will weigh over 400 pounds at this writing. 20 choice spring gilts, by Big Look, winner of 2 firsts and 3 seconds, last fall. Among the good things in this sale is the fall yearling gilt that carried away the blue at Sedalia this fall. She now weighs over 400 pounds.

Sale held in Butler; No cold drives. Everything vaccinated, simultaneous method. Catalogs ready. Cols. Harriman, Beard, Robbins and Taylor, Auctioneers. C. H. Hay, Fieldman. Send bids to him in my care.

**W. A. BAKER & SON,
BUTLER, MISSOURI**

John Belcher, of Raymore, sells the day after our sale. Good train connections. Arrange to attend both sales.



THE NEW LIVESTOCK JUDGING PAVILION AT THE KANSAS STATE AGRICULTURAL COLLEGE, MANHATTAN, KAN.

THIRD ANNUAL SALE IMMUNE BRED SOWS Will be held in the Livestock Judging Pavilion at the Kansas State Agricultural College, Manhattan, Kans.

40 Duroc Jerseys, 1:30 p. m., Feb. 9, 1915, and 30 Berkshires 9 a. m.; 35 Poland China, 1 p. m., Feb. 10, 1915.

For a catalog address: ANIMAL HUSBANDRY DEPARTMENT, K. S. A. C., Manhattan, Kan. Auctioneer: L. R. Brady, Fieldman, J. W. Johnson.

ADOLPH GUSTAFSON & SON

45-Duroc-Jersey Bred Sows and Gilts-45

Wednesday, February 10th

At the farm of Adolph Gustafson, five miles southwest of Randolph, seven and a half miles southeast of Leonardville and two miles northeast of Walsburg station on the Leavenworth, Kansas and Western R. R. Autos and team will meet the morning train from the west at Walsburg. Breeders attending the Duroc-Jersey sale at the Agricultural college at Manhattan the day before should come to Randolph

on the early morning motor which will also be met and everyone will be returned to Randolph in time for the evening train back to Manhattan.

The offering consists of tried sows and spring gilts. The 10 tried sows are from such families as Gold King, White House Maid, Chief Lady, Proud Rose and Miss Belle. The 35 spring gilts were farrowed in March and

April and are out of the 10 tried sows in the sale and others and everything is bred to College Babe and Belle Chief 3d. None of the sows will be highly conditioned but in the best of breeding form. This is our first annual bred sow sale and we invite you to come. Remember the College sells Duroc-Jersey bred sows the day before our sale and you can attend both sales with the one expense. Address

Adolph Gustafson & Son, Leonardville, Kansas

Write for further information and catalog.

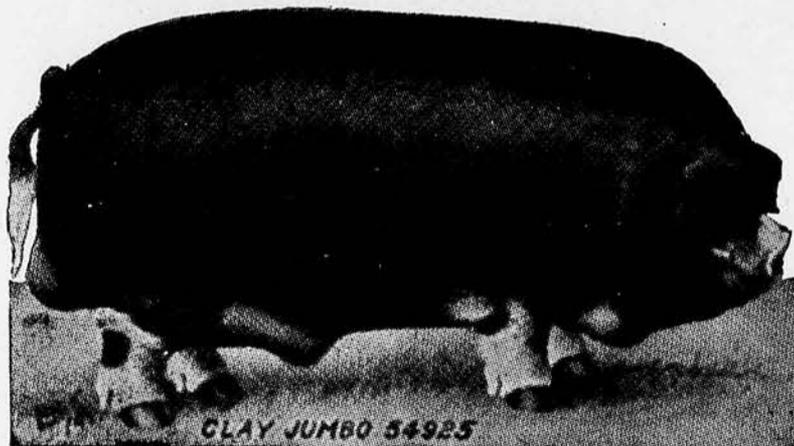
Auctioneers: Jas. T. McCulloch, Homer Boles.

J. W. Johnson, Fieldman.

Anderson's Clay Jumbo Sale

40 Poland China Bred Sows and Gilts-40
Leonardville, Kan., Tuesday, February 9

The day before the Agricultural college sells Polands at Manhattan



One of the Notable Sires of Northern Kansas. Look Up His Breeding.

The offering consists of 12 choice tried sows, five spring yearlings and 23 spring gilts. All are bred to the best advantage to Clay Jumbo, Joe Wonder and A King. The gilts were sired by Clay Jumbo and Joe Wonder and has a host of admirers who proclaim him one of the great sires of the breed. He could be put above the 1,000 pound mark if highly fitted. Joe Wonder is another great boar in the 1000 pound class. A King is a great young boar sired by A Wonder Jumbo and out of the \$200 sow bought by Mr. Anderson in the John B. Lawson sale last winter. The records show that Mr. Anderson has bought as much high class Poland China breeding as any breeder in the West. Get his catalog and be convinced. The 40 sows and gilts in this sale carry the breeding of the most noted sires. The sale will be held in town, under cover. Write today for catalog. The tried sows and spring yearlings are cholera proof. Send bids to J. W. Johnson in his care. Address

James W. Anderson, Leonardville, Kans.

Auctioneers—Jas. T. McCulloch, Floyd Condry, Fieldman—J. W. Johnson.

Sale Circuit
Jas. W. Anderson, Leonardville, Kan., Feb. 9.
Agricultural College, Manhattan, Feb. 10.
Howard R. Ames, St. Marys, Kan., Feb. 11.

Poland Chinas

Howard R. Ames' Dispersion Sale

Thursday, February 11

At The Farm Four Miles South of ST. MARYS, KANSAS



The offering is not large but is as good as will be offered this winter. It will consist of seven tried sows that are in their prime and that have been reserved because of their great producing value. Also nine very choice spring gilts that I had reserved for my own use. The breeding is strictly big type. In the sale will be Big Orange Again, the boar that I bought of A. J. Swingle at a long price. Much of the offering is bred to this great boar. The foundation of the herd and the dam of the seven tried sows is Colossal Queen, a first prize winner at Nebraska State fair and at Topeka the same year. The gilts are by Gritter's Surprise, Bogardus and Big Orange Again. It is a great opportunity. The Agricultural college sells Poland Chinas the day before my sale. You can take the early morning train and come from Manhattan (25 miles) to St. Marys, where I will meet you and return you to the same place in time for evening trains both east and west. Come to St. Marys. Write for my catalog today. Address,

HOWARD R. AMES, MAPLE HILL, KANSAS

Auctioneer—Jas. T. McCulloch; J. W. Johnson, Fieldman.

Note: I will also sell four good work mares, some good milk cows, all of my farm implements and household goods the same day. It is a clean-up sale, and everything will be sold.

The Jewell County Poland China Bred Sow Sale Circuit

Giant Chief Price Bell's A Wonder Sale

At Our Farm Adjoining Town

Wednesday, February 10, 1915

45—Head of Immune Strictly Big Types All Bred—45
4 Tried Sows. 10 Fall Yearlings. 20 Spring Gilts.

Fall and spring gilts all sired by Bells A Wonder, a son of A Wonder and out of Mammoth Giantess, by Long King. Tried sows are all by Giant Chief Price, one of the best sons of Long King. His dam was Lady Giantess, by Longfellow H. The gilts are out of sows by Big Medium, a Nebraska State Fair winner. His sire was Belle Ville Chief the sire of the great Choice Goods. Others by Henry Expansion, by Dorr's Expansion. Some by a son of Big Columbus. Fall gilts and tried sows are bred to Henry Expansion. Spring gilts are bred to a son of Henry Expansion. His dam was Florence Lonergan, by Guy's Price 2nd. This will be one of the good offerings of the year and all friends of the breed are invited. Write early for catalog. Free hotel accommodations.

IRA C. KYLE & SON, Mankato, Kan.

AUCTIONEER—John Brennen.

Nebraska Chief-Long King's Best Son Sale

At Farm Near Town

Thursday, February 11, 1915

45—Bred Sows and Gilts That Combine Great
Size and Quality—45

10 Tried Sows, 5 Fall Yearlings, 30 Spring Gilts, 1 Extra Good Spring Boar. Most of the spring gilts were sired by Neb. Chief. Others by Long King's Best Son and Big Ben Amazon. Fall gilts all by Jumbo Ex. The best son of Expansive. The tried sows include some of the very best sows on my farm and would not be for sale but for the fact that I must reduce size of the herd. They are by Jumbo Ex. and Giant Chief Price. One mighty good sow by Moore's Halvor for an attraction.

I have bred the tried sows and fall gilts to Nebraska Chief and the spring gilts to Long King's Best Son. Remember his sire is Long King's Best and he had for a dam the great sweepstakes sow, Guy's Best, by Guy's Price 2nd. Catalog upon application. Sale under cover.

JOHN KEMMERER, Mankato.

AUCTIONEER—John Brennen.

J. W. Johnson Will Represent Farmers Mail and Breeze. Send Him Bids

Poland China Bred Sow Sale

LEBANON, KANSAS

Thursday, Feb. 25th

Sale At Farm

The offering numbers 35 head of bred sows, consisting of four tried sows that are two and three years old, four fall gilts and 24 spring gilts. Also three boars, one last spring boar and two last September boars. Everything immuned with the double treatment.

The sows are bred to Springbrook Hadley, by Hadley Leader, by Smith's Big Hadley; a good son of Big Ben Amazon and Springbrook Monarch. Queen, by Grothy King, by Long King is a great sow in this herd with a great record for producing the kind that sells for the high dollar. She has daughters and granddaughters in this sale. Her last spring litter was 14 and three of the gilts are in this sale. Everything bred for spring farrow to the herd boars mentioned.

I WILL ALSO SELL A BLACK PERCHERON STALLION

that is a sure foal getter and a valuable stallion. Also some work horses and high grade Polled Durham cows and heifers.

Send bids to J. W. Johnson and mention the Farmers Mail and Breeze when you write. Free hotel accommodations and transportation to the farm. For a catalog address

Thos. M. Willson, Lebanon, Ks.

Auctioneer, John Brennen. J. W. Johnson, Fieldman.

The Smith County Breeders' association sells Poland China bred sows at Smith Center the day following my sale.

Big Spotted Polands

50 Big Boned, Spotted 50
Poland China Bred Sows

At Auction at the Farm near Cleburne, Kan.

Wednesday, February 24th

One of the strongest herds of big boned Spotted Poland Chinas in the West and the foundation was drawn from the best herds of the East.



A Snapshot of Some of the Splendid Spring Gilts in This Sale.

The offering is number one and consists of 10 tried sows, five of which are spring yearlings that have raised one litter each, five fall yearlings, by Big Ben and bred to Spotted King. Thirty-five March and April gilts by Big Ben and Spotted King. The gilts are bred to Spotted Giant, Big Ben and Spotted King. The tried sows to Big Ben. The herd is strong in the blood of Brandywine and Budwiser, breeding that is recognized as the best. Everything immune. Come, but if you can't come send your bids to J. W. Johnson of the Farmers Mail and Breeze and they will be handled right. Send them to him in my care at Cleburne, Kan. Write today for my catalog, which is ready. Best of train connections from all directions.

Alfred Carlson, Cleburne, Kan.

Auctioneers—Jas. T. McCulloch, T. E. Gorden.
Fieldman—J. W. Johnson.

L. E. Klein's Dispersion

Strictly Big Type Poland Chinas

Manhattan, Kan., Tuesday, February 16

In Sale Pavilion at Second and Poyntz Avenue

A dispersion of one of the well known herds of strictly big type Poland Chinas of central Kansas. 30 bred sows and two herd boars that I was planning to keep but having decided to rent my farm I am selling everything in this sale. The offering consists of six tried sows that are as good investments for breeders as any like number that ever went through a sale ring. Five fall yearling gilts sired by Chief Price 61667, 12 spring gilts sired by him and seven spring gilts sired by Bell Metal Again 69821. Two sows and five gilts are bred to Toulon, by old Toulon Prince. Four sows and 19 gilts are bred to Laurell Wonder, a son of Gephart.

**The Herd Boars Toulon and Laurell Wonder
Will be Sold in this Sale**

If you can't attend this sale send bids to J. W. Johnson in my care, General delivery, Manhattan, Kan., and you will be treated right. Write for my catalog today. You will get it by return mail. Address,

L. E. KLEIN, Zeandale, Kansas.

Auctioneer, L. R. Brady. J. W. Johnson, Fieldman.

Attend my sale and the J. H. Harter Poland-China sale at the Agricultural college the day following. Breeders attending my sale stop at the Baltimore hotel as my guests.

John Belcher's Poland China Sow Sale

Raymore, Missouri, Saturday, February 20, 1915

The Great Smooth Columbus Offering

9 Tried Sows

1 by A. Wonder
1 by Expansion Wonder
1 by Collosus
4 by (Old) Grand Look
1 by Big Sampson
1 by Panorama Son
3 Outstanding Boar Pigs
by Smooth Columbus
out of a big Orphan
Dam.



35 Yearling Gilts

Grand Daughters of
BIG HADLEY

and

(OLD) GRAND LOOK

A Few Outstanding
Spring Gilts by

A's MIDNIGHT

SMOOTH COLUMBUS THE COMING SIRE

Undeafated by anything in the state, and the sensation at Sedalia this fall. All yearling and over sows in the sale bred to this great boar except two. Smooth Columbus was sired by Columbus 64898, and out of Miss Mable 160310, a granddaughter of the show boar Big Victor. He is absolutely the best prospect I ever found, and he has proven himself a great sire. A few sows bred to Joe's Big Wonder, by Big Joe and out of Fessie's Lady the sow that topped Fesenmeyer's sale at \$210.00. Everything treated with the simultaneous method. Get a catalog and read individual descriptions. If unable to attend this sale send C. H. Hay a bid on some of these sows, you can't make a better investment than a Columbus bred sow.

JOHN BELCHER, Raymore, Missouri.

AUCTIONEERS—Cols. Sparks, Harriman and Robbins.

I sell the day after W. A. Baker and Son, of Butler, Mo. Good R. R. service from Butler to my sale.

200=Bred Poland

The Big Riley County Poland

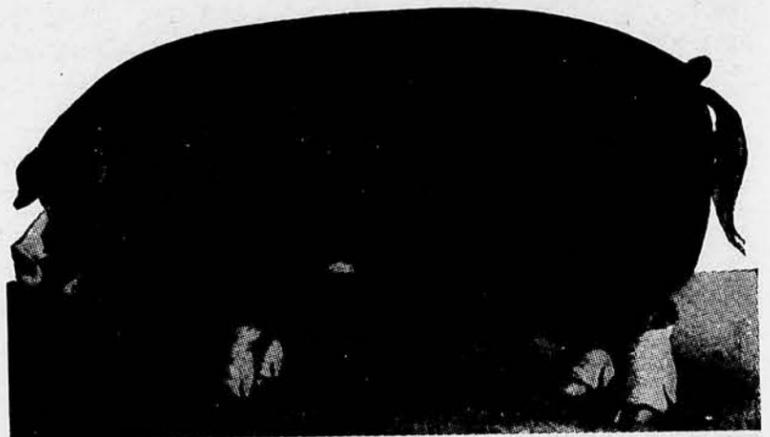
Bids may be sent to John W. Johnson of the Farmers Mail

J. H. HARTER'S SALE at the Agricultural College Manhattan, Kansas, Wednesday, February 17th

This is the first sale in the circuit and my regular annual sale. The sale will be held in the stock judging pavilion which is always comfortable.



The Sire of Many of the Fall and Spring Gilts. Others Are Bred to Him.



The \$112.50 Top Sow in Mr. Harter's Last Feb. Sale. There are Many of This Kind in This Sale.

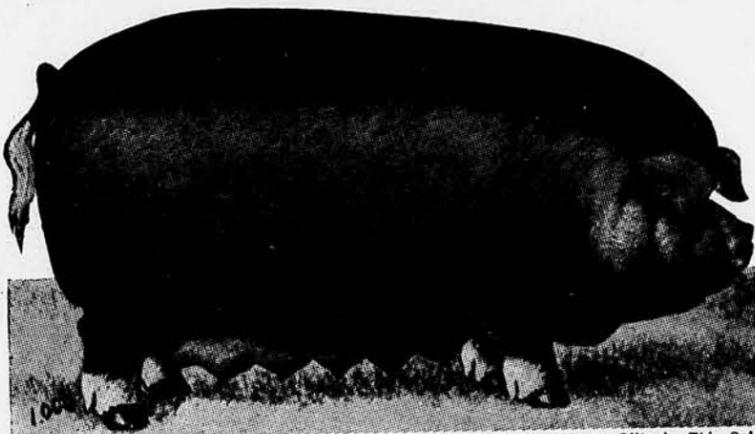
The 50 bred sows and gilts I am offering in this sale outclass any of my public sale offerings of recent years and I believe will meet with your approval. I am putting in this sale 12 tried sows, none over three years old, that are proven producers that are sure to be money-makers for the man that buys them. 5 are by Mogal's Monarch, 2 by Chief Price by Chief Price Again and one by Blue Valley Gold Dust by Blue Valley Expansion. The 12 fall gilts are mostly by Long King and the 26 spring gilts are by Gephart and Long King. Everything is bred to the best advantage to Gephart, Long King and a splendid son of Gephart. My catalog is ready to mail. If you can't come send your bids to either of the Johnsons in my care at Manhattan, Kan., and I will guarantee you are treated right. For a catalog address, Free hotel accommodations in Manhattan.

AUCTIONEERS—Jas. T. McCulloch,
W. C. Curphey and Floyd Condry.

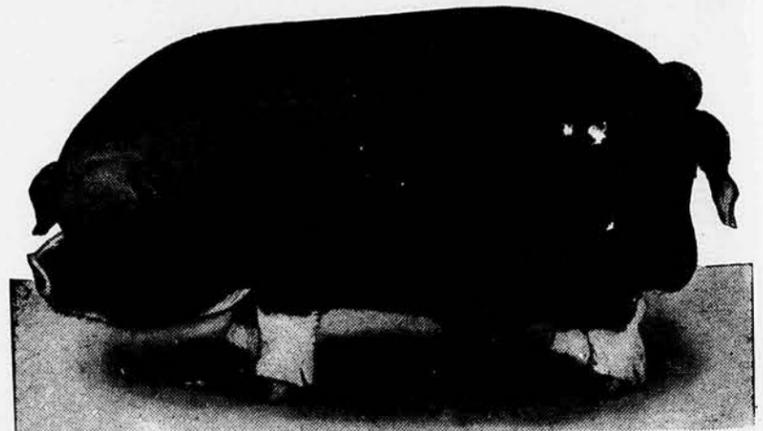
J. H. Harter, Westmoreland, Kas.

A. J. Swingle's Gritter's Surprise and Big Orange Sale Leonardville, Kansas, Friday, February 19th

My sale is the third sale in the circuit and my regular annual sale. Leonardville is six miles from Riley and I will have autos and rigs at Mr. Griffiths' the evening of his sale and take you to Leonardville where I will take good care of you.



Mollie Mastadon 3rd, a Great Herd Sow in This Herd. She Has Four March Gilts in This Sale.



Gritter's Surprise is the Great Sire That Has Done So Much for This Splendid Herd. Half the Offering is by Him.

I am selling only 38 head in my sale but I believe you will agree with me that it is an offering that I have a just right to be proud of. 13 are fall gilts that have raised litters and that for size, conformation and quality challenge any like number I ever saw. They were sired by Gritter's Surprise and Big Orange Again, which are the same boars that sired my last February offering that were so well received by the breeders who attended my sale. The 25 March gilts are equally as good and were sired by Gritter's Surprise, Big Orange Again, Tip Top Wonder and Hercules 1st. More than half of the offering is bred to Gritter's Surprise and the rest to Hercules 1st and Orange Wonder. I want you to attend my sale but if you can't you can send your bids to either of the Johnson brothers and you will be sure of careful and honest treatment. Everything immune. For a catalog address,

AUCTIONEERS—Jas. T. McCulloch and L. R. Brady. **A. J. Swingle, Leonardville, Kan.**

China Sows=200

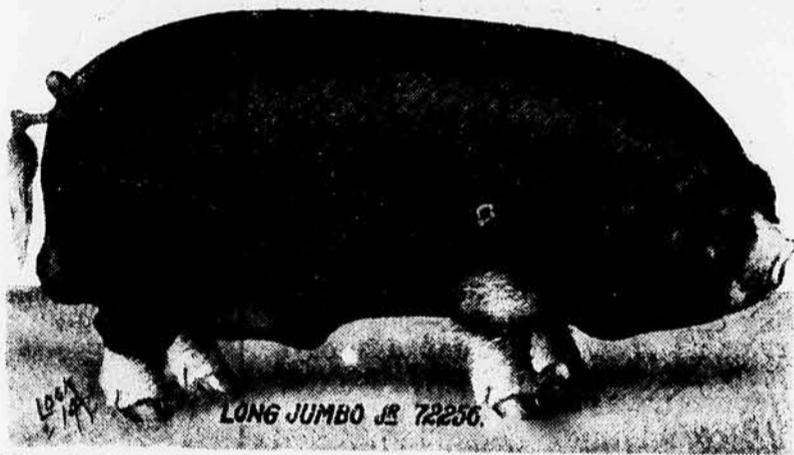
China Bred Sow Sale Circuit

and Breeze or Jesse R. Johnson of the Nebraska Farm Journal

J.L.Griffiths' King of Kansas and Long Jumbo Jr.Sale

Riley, Kansas, Thursday, February 18th

My sale is the second sale in the circuit and my regular annual sale. Riley is 18 miles from Manhattan on the Rock Island and good connections can be made for there the evening of Mr. Harter's sale. I will arrange good hotel accommodations for you at Riley.



A Sensational Boar to Which More Than Half of This Offering Is Bred. On exhibition Sale Day.

King of Kansas, the Sire of All the Gilts and the Tried Sows Are Bred to Him.

The 50 sows in my sale consist of 20 fall gilts and 25 spring gilts, all sired by King of Kansas. The five tried sows are two years old, selected sows and are rich in Peter Mouw breeding. They are bred for March farrow to King of Kansas. A big per cent of the fall and spring gilts are bred to Long Jumbo Jr., and the rest to Hercules 2nd. I believe that King of Kansas is one of the great sires of the breed. He has not only proven his worth as a sire in my hands but other breeders who bought sows in my last sale bred to him are elated with his get. The fall and spring gilts sired by him and bred to Long Jumbo Jr., (see field notes) will certainly prove profitable investments. If you can't attend in person send your bids to either of the Johnson boys and you will get good treatment. Everything immune. For catalog address

AUCTIONEERS—Jas T. McCulloch and Jim Cross.

J.L.Griffiths, Riley, Kansas

Jas. Arkell's Chief Big Bone and Longfellow Again Sale

Junction City, Kansas, Saturday, February 20th

My sale is the fourth and last sale in the circuit and my regular annual sale. It is arranged so you can come to Junction City the morning of my sale very conveniently as Junction City has the best of railroad facilities and you can make the best of connections for your homes. I have arranged for good hotel accommodations for you and want you to be my guests on that date. Sale in comfortable quarters.



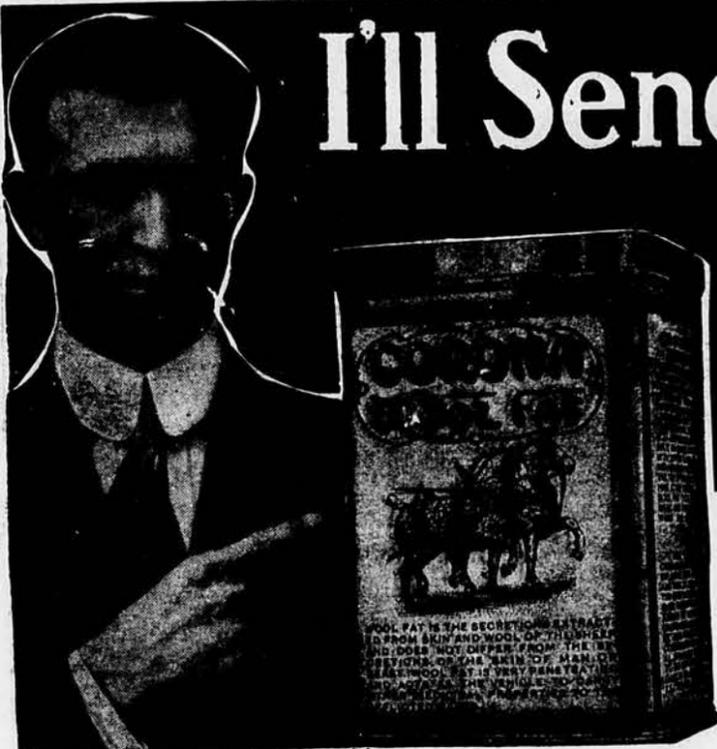
This Great Sire Was in Use in Tom Miller's Famous Herd at York, Neb., Until Mr. Arkell Bought Him Last Fall. A Good Per Cent of offering Bred to This Boar. On exhibition Sale Day.

Many of the Spring Gilts Are by This Boar and a Good Number of the Sows in the Sale Are bred to Him.

My offering consists of 10 tried sows, 15 fall gilts, some of them have raised litters and 20 spring gilts. The 10 tried sows are of proven value, as producers and are just in their prime. They trace to the principal big type families of today. The fall gilts have been selected for this sale and carefully handled and their future usefulness is assured. The same may be said of the spring gilts. The fall gilts are by Pan Look and First Quality. The Spring gilts by First Look and Longfellow Again. Everything is bred to Chief Big Bone and Longfellow Again (see field notes). I feel confident that my offering is one of the best that will be made in the West this season. I invite you to be my guests on this occasion. If you can't come send your bids to either of the Johnson boys and you will get square treatment. Everything immune. For a catalog address

AUCTIONEER—Jas. T. McCulloch.

Jas. Arkell, Junction City, Kansas



I'll Send You This Big Can of CORONA WOOL FAT Post Paid

SIMPLY mail me the coupon below and I'll send you this big can of **Corona Wool Fat**—the greatest preparation ever put on the market for Cracked and Split Hoofs, Contracted Feet, Corns, Grease Heel, Thrush, Barb Wire Cuts, Sore Shoulders, Sore Teats on Cows, etc. I want to prove to you *before you pay me a single cent*, that here

is a preparation you can't afford to be without. I want to send you, postpaid, this big can on

20 Days' Free Trial

I want to show you that you can keep your horse's hoofs in the finest condition—take out all foot soreness, cure all flesh wounds, etc. and do it quickly.

I want you to try this wonderful healing ointment at my risk—not yours. Try it on any case you have—apply part or all of it. At the end of 20 days if you are perfectly satisfied, send me only 50c for the big trial can. If you are not satisfied, tell me so and you won't owe me a penny.

CORONA WOOL FAT

The Wonderful Healing Ointment

is extracted from the skin and wool of the sheep and is the only remedy that will penetrate the shell of a horse's hoof—take out the soreness and grow new hoof. **Corona Wool Fat** does not burn, blister or cause suffering. It is a cooling, healing, penetrating ointment, quick in action, *heals without leaving a scar*. Read these letters—we have thousands more like them:

Corona Mfg. Co., Kenton, Ohio.
Gentlemen:—Corona Wool Fat is the best thing I have ever used for hard and contracted feet of horses. I have used about all kinds.
Yours truly,
P. D. Jamison,
Bridgewater, Maine.

Corona Mfg. Co., Kenton, Ohio.
Gentlemen:—I like Corona Wool Fat. I think it is fine to heal sores and cuts, and can truly recommend it to any one needing a good healing salve.
Yours truly,
Dewitt Conrad,
23 State St., Fort Plain, N. Y.

Send No Money—Simply Mail Coupon

Fill out the coupon and mail it today. When you receive the **Corona Wool Fat**—try it—watch results—then if satisfied send me only 50c—if not satisfied, just write and tell me so and I'll charge you nothing. Write for the big trial can *now*. Remember, I send it *postpaid*. You risk nothing in testing it. **Will keep your horses in working condition and put them in selling condition.** I take all the risk—send today.

Corona Mfg. Co., C. G. Phillips, Manager 47 Corona Blk., Kenton, O.

IT WILL CURE

Hard and Contracted Feet, Mud Fever, Split Hoofs, Corns, Grease Heel, Thrush, Quarter Crack, Cuts, Barb Wire Wounds, Sore Teats of Cows, Ulcer, etc.

Our Guarantee is on the Lid of Every Can. I have sent out a million cans the past eight months, and now have more than that number of satisfied customers. You need it; I have it for you, and you can try it out on the "before you pay" plan. Now, all I ask is a fair, square trial on its merits. C. G. Phillips.

Proof!

Corona Mfg. Co., Kenton, Ohio.
Dear Sirs:—I received the Corona Wool Fat all right and have tried it and it works just as you recommend and even better. My horse was sore in the front feet and she could hardly get out of the barn, and in two weeks time she improved so much that she was as limber as ever, and our blacksmith stated that he never saw anything as good as Corona Wool Fat.
Sincerely,
T. J. Tishell,
North Rush, N. Y.

Corona Mfg. Co., Kenton, Ohio.
Dear Sirs:—Having been in the dairy business all my life and as all dairymen will agree it is a hard matter to keep their horses going sound. I with the help of the shoeing smith were kept at our wits end until a friend of mine told me of Corona. It certainly does the work. Every horse is going sound and when it comes to sore teats on cows you have certainly solved the problem. In fact, my stable and barn boys all swear by Corona and the best part of it is, it is just as good for a man as for a horse or cow. Wishing you the success that is due you, I remain, Yours very truly,
Robt. T. Arnall, Prop.,
Oakwood Dairy Farms, Davenport, Ia.

Corona Mfg. Co., Kenton, Ohio.
Dear Sirs:—I am very well pleased with Corona Wool Fat, and am enclosing you remittance for more of this wonderful product. It is great stuff. Yours truly,
Louis J. Dumont,
R. F. D. 1, Wolverine, Mich.

Corona Mfg. Co., Kenton, Ohio.
Gentlemen:—Corona Wool Fat is just the stuff for my bank mules feet as it keeps the bank water from cracking their feet and getting sore. Enclosed find remittance for \$3 for which send me a ten pound pail. Yours truly,
W. F. Williams,
New Sharon, Iowa.

20 Day's Free Trial COUPON

CORONA MFG. CO., 47 Corona Block, Kenton, O.

Gentlemen:—Please send me the trial can of your Corona Wool Fat. It is understood that I am to use this for 20 days in accordance with directions, and if I am satisfied with the results I will send you 50 cents to pay for it. If it does not do as you claim I will owe you nothing.

Mention ailment you intend to use it on.....

Name.....

Address.....

County.....

State.....



Galled Shoulder

Fill Out the Coupon NOW



A Bad Case of Scratches



Heals Inflamed Cows Udders



Cracked Hoofs Before and After Using Corona Wool Fat



Corona Heals Barb Wire Cuts Smoothly



Grease Heel Before and After Using Corona Wool Fat



For Collar Sores and Sore Shoulders

1,000,000 Farmers, Stockmen and Blacksmiths are using Corona Wool Fat. Don't experiment—make sure of a quick cure by using Corona Wool Fat. There is no other remedy or healing ointment that will do the work as well. C. G. PHILLIPS.