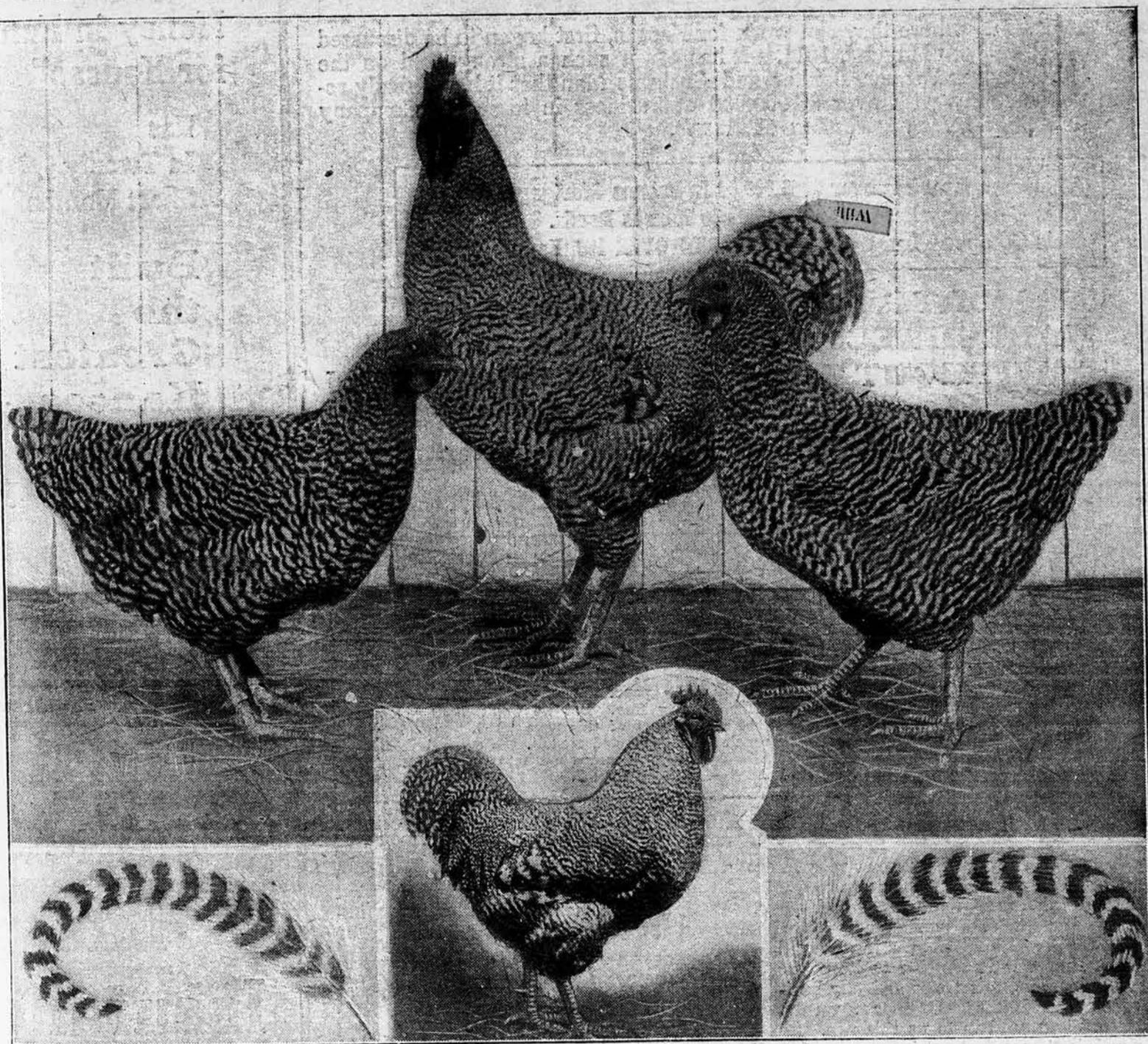


THE FARMERS MAIL AND BREEZE

Volume 42

February 1, 1913

Number 47



"Cackle, Cackle, Plymouth Rocks"

CACKLE, cackle, Plymouth Rocks
Ye can have the wagon box,
'N' the smoke house, 'n' the barn,
Take 'em—we don't care a darn.

CACKLE here and cackle there,
Lay your eggs jes anywhere.
Every time ye lay an egg
Down go mortgages a peg.

CACKLE, cackle. all the day.
Who kin find a better way
Fer to get ahead again,
Than to cultivate the hen?
—Ed Blair, Spring Hill, Kan.

SEVENTH ANNUAL POULTRY NUMBER

Keep Kansas Money in Kansas For Kansas

Do You Know What Those Seven Words Mean for Kansas?

Have you ever stopped to think that the Money Question is a vital one for Kansas? We can't tell you the full meaning of those seven words here—it would fill a large volume. But, we CAN tell you of one thing that those seven words have done and it's this:

The Idea of Keeping Your Own Dollars At Home where they can work for Kansas, first began to be discussed on May 1st, 1911. It has taken such a strong hold on the minds of the Kansas Farmer, Banker and Business Man that it has already resulted in a Company with over \$6,000,000 of business in force; a Company with over \$500,000, *Half a Million* of Assets.

This Company has over \$225,000.00 in Kansas Mortgages.
This Company has over \$80,000.00 in Kansas Bonds.
This Company has OVER \$100,000.00 IN OVER 100 Kansas Banks.

EVERY MORTGAGE LOAN HAS BEEN MADE DIRECT TO THE BORROWER WITHOUT LOAN MAN'S COMMISSION

The Money Stays at Home for Kansas. The Interest Stays at Home for Kansas.
The Taxes Stay at Home for Kansas. The Business Stays at Home for Kansas.

Do you Begin to see the Meaning of those Seven Words?

Do You Think It Would Be Interesting to Hear More About It?

LISTEN! DO YOU LIKE THIS NEWSPAPER, THE MAIL AND BREEZE? Mr. Capper says you do; he says you read the ads which appear in it. We don't know, but hope you do. This full page is a new venture with us. We don't know whether it will pay us or not.

Wait a Minute; Listen! It will pay us to advertise in this paper if you, yes YOU, read our advertisement and become interested in the Kansas Home Money Idea. But we won't know you are interested unless we hear from you. So we have set aside a part of this page which you may cut out and send in. We want to know how many people see this ad and read it. So cut out the slip and send it in. It means much to THE MAIL AND BREEZE, it means much to us, and you will find out it means much to you. CUT IT OUT NOW—MAIL IT TO US.

Listen! What are you? A farmer, a banker, a merchant, a miller, a professional man? It does not make any difference what you are, you are a Kansan, aren't you? Are you also a lover of our State like Senator Ingalls was? If you are, then you are vitally interested in anything which is of importance to Kansas. Well, then, this Idea is of immense importance to Kansas. Do mortgage loans without loan agents' commissions appeal to you? Do you think it will help Kansas if we build up a great financial institution to keep our money, our interest, our taxes and our business at Home in Kansas? Of course you do. Then fill out and send in to us this slip.

We won't bother you about insurance. You can see our agents for that. But we will send you a booklet which will tell you more about Money, Taxes and Interest. Send for it now.

The Farmers and Bankers Life Insurance Co., Wichita, Kan.

Gentlemen: I am a Kansan. I am interested. Please send me your booklet and oblige.

Name

Address

The Farmers and Bankers Life Insurance Company of Kansas

Executive Offices—Wichita

H. K. LINDSLEY, President.
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Company
of
Kansas**



THE FARMERS MAIL AND BREEZE

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



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A PLEA FOR JUSTICE TO WESTERN KANSAS

KANSAS, as is well known, is an essential part of the Great Plains that form the eastern slope of the Rocky Mountains. It has an area of 82,144 square miles, 400 miles from east to west and 208 miles from north to south. The average altitude at its western end is about 3,650 feet and on its eastern border 850 feet. The average slope from west to east is about 7 feet to the mile, and there is also an inclination from north to south. The range in elevation is from 727 feet in southeastern Montgomery county to 3,906 at Kanorado, in Sherman county on the Colorado line. The annual average precipitation—rainfall and the water from melted snows—ranges from 15 inches in the extreme west to 44 inches in the southeast.

Throughout this area the soils in general are very productive. Their fertility has been proven, but, as might be expected, with such extremes in altitude and rainfall, conditions are widely different in the west from those in the east.

A trait of human nature is to follow lines of least resistance. Accordingly, eastern Kansas, with its generous rainfall, was settled early and rapid progress was made in developing its resources. Conditions in western Kansas, with scantier moisture, seemed against general farming, and for years that part of the state was regarded mainly as a grazing country. Demand for land, however, led increasing numbers to locate there with the intention of farming, but a season or more of inadequate moisture would cause many to emigrate. Hence, some settlers left, while others stayed; then a year or more of good crops would bring additional inhabitants. This has been the history of western Kansas, throughout the years. Its prosperity has been uncertain. What is needed is to make its agriculture in general as dependable as science and skill have proven possible. Even though its population has fluctuated more or less it is steadily increasing. Old-timers who "held the fort" have prospered, but too often their lessons were learned and prosperity attained at the cost of a trying experience.

It is my judgment that the state should aid western Kansas in some adequate way to guard against and eliminate so far as may be the drawbacks and uncertainties of farming in that region, by providing suitably located experiment stations, county demonstration farms and irrigation plants, which individual enterprise cannot afford and should not be expected to provide, to help in solving the problems peculiar to their territory.

Kansas is 52 years old, and it is time she awoke to the advisability of making her western portion as inviting as it is possible through state co-operation. If it is left to individuals to demonstrate methods and crops and possibilities, the process will obviously be slow, as indicated by past records. Thus far the state has largely left the western counties to look after themselves, devoting most of her funds and experimental work to the eastern half. There is no complaint on that score, and should be no curtailment in that direction, but the scope of such work should be so extended that it will include the western end of the state. While the experiment stations

The State Not Adequately Doing Its Share to Develop That Region

BY F. D. COBURN

Written Expressly For Farmers Mail and Breeze

at Hays and Manhattan are doing invaluable work there is a wide stretch of country really beyond the zones of their greatest usefulness, with different altitudes and conditions. No better investment of public funds could be made than in some additional stations, not necessarily expensive, to serve especially the territory for which in large measure the experiments of the present institutions are inadequate.

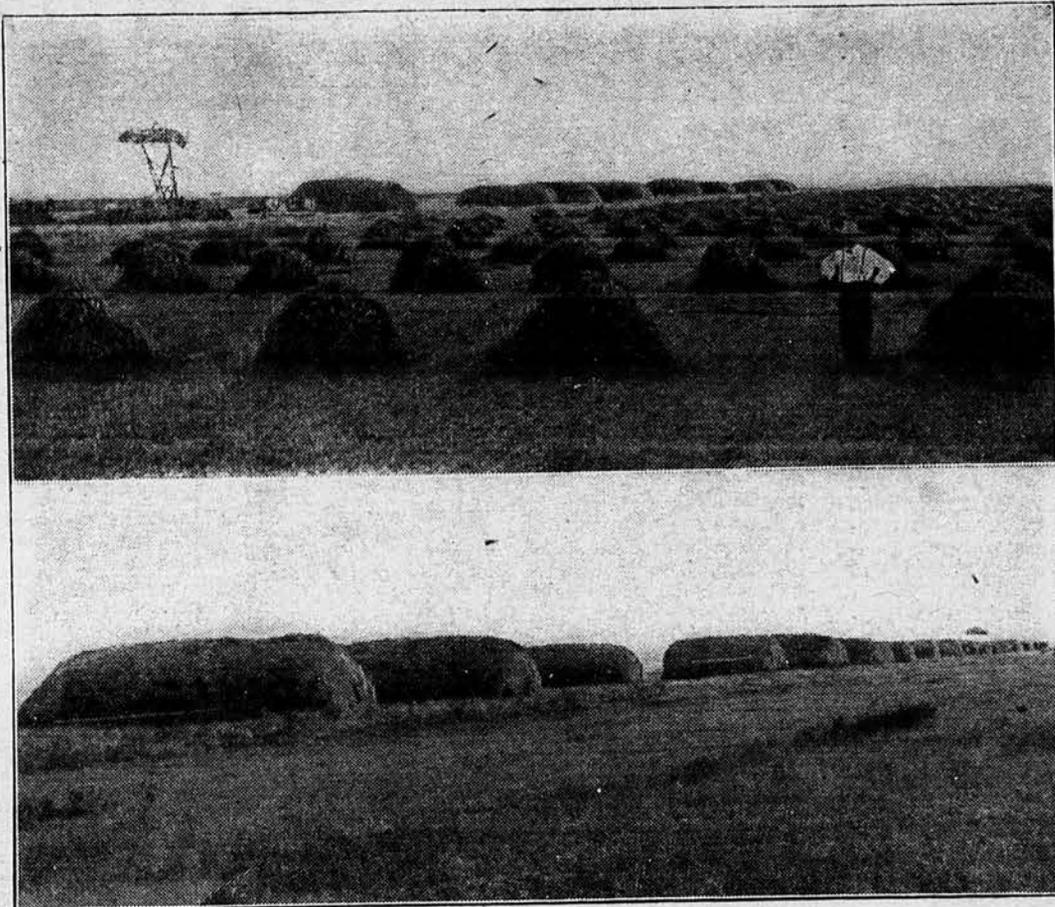
Take, for example, the 31 counties either wholly west of or transected by the 100th meridian. Their total population is 124,616, of which 32,177 live in towns and cities. Counting four persons to a household, of the rural population there would be less than one family to the square mile, which would mean

cal years ending June 30, 1912, amounting to \$67,000. Its work, of tremendous value, is very largely inapplicable to the west because done under very different conditions. The Hays branch, established in 1901, has a state appropriation of \$18,800 for 1913. It is in the central third of the state, entirely too remote from many western counties to render the most valuable service. Thus, it is seen that out of the funds annually available for state experimental work approximating \$88,000, the 31 western counties are given, directly, but \$2,500. Moreover, out of more than 6 million dollars appropriated by the legislature of 1911 for the unexpired portion of that year, and for the fiscal years 1912 and 1913, the western fifth of the state was allotted \$7,500, which was for the station near Garden City. This 6 million dollars does not include appropriations to regents, boards, state house officials and employes. Aside from being properly entitled to such helpfulness as the state has been and is rightly rendering in full measure to other sections through the stations at Manhattan and Hays, the western fifth of Kansas pays an annual state tax amounting to thousands of dollars for

which no adequate return is made. In equity it should derive greater direct benefits from its taxes. No more judicious expenditure of public money could be made than in upbuilding and expanding agriculture in that portion, learning just what the region is capable of, and determining the crops and methods best adapted to conditions as they are.

As geologists proclaim that inexhaustible water underlies western Kansas, irrigation by pumping should be liberally encouraged and promoted by the state, in exploring the water supply, testing its efficiency, demonstrating at public expense the most efficient and economical pumping equipment, and determining just what the possibilities are, what systems are best, and their cost. Irrigation is a mighty aid to agriculture, and wherever the subterranean waters can be economically lifted \$10-per-acre land is at once transformed into \$100 and \$200 land. With water rightly applied at the right times all western Kansas soils will yield prodigiously a diversity of products, under ideal circumstances for maturing in the finest condition.

If the state is ever to take hold in a broad-gauged and comprehensive way to help make western Kansas something more and better than it is and has been, we should begin forthwith. The welfare of the western border should be given the same helpful consideration by the state as is the east. This would not only contribute immeasurably to the welfare of those already there, but open up opportunities that will invite larger numbers of those who seek to have lands and homes of their own. Prosperity there will mean a better and a greater Kansas, for whatever benefits one portion of the state will redound to the welfare of the whole. Let us at least be fair, even if we are not generous with the western counties.



ALFALFA GROWN BY WATER FROM WELLS, SCOTT COUNTY

less than one able-bodied man for each section of land. The population, urban and rural, per square mile is 4.5, as against an average for the state of 20.3 persons. This area is capable of supporting a greatly increased population; its resources should be developed and intelligently utilized to that end—an undertaking to which the state should gladly and continuously lend a helping hand.

These counties comprise an area of 27,660 square miles, or more than the combined areas of Rhode Island, Delaware, Connecticut, New Jersey and Massachusetts, yet this wide expanse of country has no experiment station, except an insignificant branch near Garden City, the state appropriation for which the present year is \$2,500. This station at Manhattan, in operation for 26 years, had funds for the fis-

F. D. Coburn

The Farmers Mail and Breeze

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Editorial Contributors. F. D. COBURN, PROF. A. M. TEN EYCK, PROF. CHARLES DILLON, PROF. O. E. REED, PROF. H. F. ROBERTS, PROF. J. T. WILLARD, PROF. C. A. SCOTT, PROF. W. M. JARDINE, PROF. A. H. LEIDIGH, PROF. L. E. OALL, PROF. G. C. WHEELER, PROF. ALBERT DICKENS, PROF. W. A. LEPPINCOTT, DR. F. S. SCHOENLEBER.

Department Editors. FARM CROPS - A. H. Leidigh. LIVESTOCK - Frank Howard. DAIRY - A. G. Kittell. SWINE - E. J. Watertripe. HORTICULTURE - M. Mathewson. FARM DOINGS - Harley Hatch. VETERINARY - F. S. Schoenleber. THE MARKETS - C. W. Metsker. HOME DEPTS. - Mabel Graves. POULTRY - Reese V. Hicks.

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

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

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



PASSING COMMENT by T.A. McNeal.

PRESIDENT WATERS AND THE CABINET.

A week or two ago word was sent out that President-elect Wilson had definitely selected his cabinet and that Congressman Burleson of Texas was to be the secretary of agriculture instead of President Waters. I confess that I was not very sorry about this, from a purely selfish standpoint, for I regard President Waters as a great help to Kansas and the Agricultural college. It would be, in my opinion, a loss to Kansas to have him placed in the cabinet. However, it is now said that the matter of the cabinet is not settled and that President Waters may yet be chosen.

Now, while it will be a loss to Kansas to have President Waters taken to Washington, it will be a good thing for the whole country, and therefore Kansas should not be selfish enough to object. The country needs a man of the Waters type at the head of the department of agriculture. He is young, progressive and has a head full of good brains.

The subject of co-operation among farmers, which is now attracting a great deal of interest, has been given a great amount of intelligent study by him. He is an enthusiast on the subject, but his enthusiasm is tempered by good, hard sense. Many an enthusiast fails because he lacks practical sense. The tremendously important subject of soil waste is another thing that President Waters has made a special study.

So in view of the good that he ought to be able to do as head of the great department of agriculture, I am willing to give him up temporarily. I would like, however, to attach this condition—that when he grows weary of life in Washington and weary of official life generally, he shall agree to come back to Kansas.

GOVERNMENT LOANS.

During the past week I have received a number of letters from subscribers in Kansas and Oklahoma concerning the plan I suggested of government loans for farmers and others. I urged the readers of this paper to write to their members of congress and senators urging them to favor a bill providing for the depositing of municipal and other good securities in the United States treasury upon which the government should issue currency as it now issues currency to national banks based on bonds deposited by the banks in the treasury.

One or two or perhaps more write me asking for further explanation of the plan. I thought I had made it clear, but if not I will try to do so now.

Government loans to farmers is not a new, untried experiment. It is in operation in Australia and New Zealand and to some extent in Europe. In a general way the idea is favored by both the great political parties, though it must be said that the platform declarations touching on that are so vague and indefinite that they do not amount to anything fur-

ther than showing that there is a public sentiment in favor of such a measure, otherwise the politicians who framed the platforms would not have said anything concerning the matter.

As I said in a previous article, at least one bill has been introduced in congress providing for the issuance of bonds by the government, the proceeds of such bonds to be lent to the farmers. I have not seen the text of this bill, but gather from what I read of it in the papers that it provides for farm organizations to be incorporated, with power to issue their bonds which will be secured by the lands of the members of the organizations. These bonds will be taken by the government to secure its loans.

Now, if these bonds are good enough to secure the government for the money that is to be obtained by selling its own bonds, they are certainly good enough security on which to base currency issued direct to the organizations.

The financial wise men of the country who favor the Aldrich plan of a great central bank organization cannot object to this on the theory that it is an unsafe currency, for their own plan is based on this very idea. They propose to permit the banks which will be members of this association to deposit securities—not bonds, remember, but approved commercial paper—with the central organization and have currency printed and issued to them, based on this security. The currency so issued will be issued by authority of the government and will be backed up by the government.

What I want is to eliminate the middleman, the banking trust, and let the farmers get currency based on their own securities direct from the government. I hope that I make this plain.

I would go further. I would permit established municipalities like counties and permanently located cities and towns to issue their bonds running for say 30 years to the extent of 10 per cent of the assessed valuation of such municipalities. I would have these bonds bear a small rate of interest payable to the government to cover cost of issuing the currency and something over to go toward bearing the expenses of the government. Two per cent per annum would be ample. As there would be some cost of distribution on the part of the municipalities and the farmers' organizations mentioned, it would probably be necessary to charge the borrowers a rate of interest slightly above the 2 per cent paid to the government.

The currency so issued should be made a legal tender for debts public and private. The money obtained by the municipalities should be used first in paying off their outstanding obligations as fast as they mature, thus materially reducing the burden of bond interest; second, in making necessary public improvements and thereby adding to the general comfort and happiness, but also affording employment for those needing employment; and third, making loans to worthy workers desiring to own homes of their own.

I hope that I have made the plan I have in mind plain.

One of the causes of the high cost of living in this country, and in other countries, too, for that matter, is the enormous burden of interest that is piled on the backs of the producers, for however much it may seem to be shifted about, eventually that burden must rest on the backs of the producers.

Every individual who can do so shifts his share of the burden onto the shoulders of somebody else. The merchant borrows money and adds the interest charge to the selling price of his goods. The wholesaler who sold the retailer his goods probably had to borrow money and he adds the interest to the price of the goods sold.

Railroads borrow money, vast amounts of it, and add the interest on bonds to freight charges that must be paid by the people who pay for the freight and then the merchants add the extra freight charge to the price of their goods. Finally there comes the producer, the farmer and laborer, the men and women who work for wages or who plant and cultivate the soil. They would shift the burden onto somebody else if they could, but there is nobody else to pile it onto, consequently they have to grunt and bear it all.

The national, state and municipal debts of the world are getting bigger and bigger and if the exact figures could be obtained it would be found without doubt that private debts are increasing in the same proportion. The national, state and municipal debts of the world have now reached the enormous total of 60 billion dollars. It is impossible to obtain exact figures concerning the debts of public service corporations, private indebtedness, etc., but it is reasonably certain that it totals nearly as much as or possibly more than the debts of nations, states and municipalities.

The bonded debt of the railroads of the United States alone amounts to 11 billion dollars and their combined capital stocks to nearly 20 billions more. Add to that the bonds of industrial corporations, the farm mortgages and other debts all bearing interest and it is certainly not unreasonable to estimate the indebtedness already piled on the backs of the producers of the world at the incomprehensible sum of 120 billions.

Interest rates are not decreasing; on the other hand, they are rather increasing. Now begin to figure what that means. It means that the producers have to carry an annual burden of interest of at least 6 billion dollars. All the currency of various kinds in the United States totals a little more than 3 billion 100 million dollars. In other words, it would require twice as much money as all of our gold, silver

and paper currency combined to pay the interest on the debts of the world for one year.

Unless a way can be found to stop the increase of debt and to lift a part at least of this burden off the backs of the producers, civilization will eventually break down under the weight. We cannot always go on piling up debt and increasing the burden of interest.

A few subscribers write me saying that while they favor the plan suggested for government loans, they do not know just how to frame a letter to their congressman asking that he favor such a bill and would like to have a form of letter. I much prefer that each subscriber frame his letter to suit himself, but might suggest the following as a form of letter:

Hon. _____, Washington, D. C. The people, especially the farmers of your district, are much interested in the plan to lend money to farmers at a low rate of interest. It has been suggested that the government should borrow money obtained from the sale of government bonds and lend the money so obtained to the farmers. I assume that the government would secure itself by taking a bond or mortgage from the farmers to whom the money is to be lent.

If this is good security, why not permit it to be deposited in the United States treasury and currency based upon it be furnished direct to the farmers' associations as national bank currency is now furnished to the banks based on the bonds deposited by the banks in the U. S. treasury?

In other words, let the government act as the trustee of the securities deposited and issue the currency based thereon. Also why not permit municipalities to deposit their bonds within the limit of safety, say 10 per cent of the assessed valuation of the taxable property of the municipality and let that security allow the government to issue currency to the municipality? I think these bonds should bear interest sufficient to bear the expense of issuing the currency and distributing the same and perhaps something over in the way of revenue to the government. Two per cent per annum would be ample. Yours truly,

THE RAILROAD PASS IN COLORADO.

It seems really strange to read that in the state of Colorado only a few months ago on an average passenger train, there were more people riding on passes than on tickets for which the holder had put up good money.

And yet it has not been so many years since that condition prevailed right here in Kansas. Politicians of high and low degree rode on passes. No state central committee managers thought about paying the railroad fare of the campaign speaker. All the orators who went up and down the state telling the voters how they might be saved, rode on passes. Every member of the legislature was furnished with all the free transportation during the session that he asked for. All newspaper men had passes without any particular regard for the amount of advertising carried for the railroads. Looking back on that time now the injustice of the thing is so apparent that it is wondered at that the practice was not stopped long ago. It is almost a wonder that so many were willing to accept these special favors from the railroad corporations.

Mighty few of us can make any claim to having taken a higher plane than others, for the fact is that we all were at fault alike. We reasoned that the passes were being distributed and we might as well have them as other people, which wasn't much of an excuse when you come to think it over, but it was all the excuse we had.

Once in a while, perhaps, when you were riding comfortably on a pass for which you had rendered no equivalent, you did feel a trifle sheepish when you saw a poor hardworking man or woman in the next seat to you give up a ticket for which cash had been paid, and hard earned cash at that, but generally your conscience was under fairly good control. A conscience can be subjected to discipline so that it will not bother too much.

Colorado is several years behind Kansas in this matter of railroad passes, but the abuse of the privilege had grown so great that it could not be stood for any longer and so the pass is being cut off by law.

Now that we have gotten over the notion that we ought to have passes, the meanness and unfairness of it is plain enough and so it is with all special privileges. Special privilege has been the bane of human government, the foundation of unjust monopoly. Human governments have been organized by the powerful and with natural selfishness, but a mean selfishness, just the same, these powerful have arrogated to themselves certain special privileges which placed unjust burdens on the backs of those least able to bear them.

THE POSSIBILITY OF EVERLASTING YOUTH.

A noted surgeon and chemist as well claims to have made the discovery of a process by which he can renew animal tissue. He can take a part of some organ of the body such as the liver, or a lung, or the heart and by treating it to an infusion of some sort of serum he can quicken it into new life after it is apparently dead. He has taken a part of a chicken heart, for example, and restored the pulsation and caused it to grow new again.

This suggests wonderful possibilities. If he can take a wornout heart, for example, and make it over into one that is just as good as new, he can also restore the liver, kidneys and other vital organs. Finally he can enlarge on the process until he can

take the old man as a whole and dip him in this life-renewing fluid and turn him out a blooming youth with new hair, new teeth, new muscles, new eyes and new blood.

Here will be a new old man; a man with all the activity and ambition and comeliness of youth and at the same time with the experience and wisdom of age. This renewed man would understand the follies and pitfalls that lay in the way of his callow youth and know how to avoid them. He would be acquainted with the ways of the smooth-spoken grafter and refuse to be taken in. He would avoid fool investments taught by the sad experience of his early and middle life.

Naturally he would have every advantage of the young fellow who was going through his first experience. He would have the polish that comes from education and mingling with the world. He would know himself and know other men. He would realize his own capacities and his own weaknesses.

It may be that some time in the future it will be a common thing for men and women who have passed the heyday of life and are beginning to feel the winter of coming age to go to the life-renewing station and be dipped in the fluid of youth. Incidentally, if they happen to have any organs that are imperfect, such as a heart with valves that leak, or a liver that has spots on it, or a lung that has not the proper expansion, or an eye that has not a perfect vision, or a nose that is too long or too short, or that tilts at the end, or a pair of ears that flare out into the glad sunshine like the wings of an aeroplane, at the human repair shop they can be fitted out with new ones shapely and up-to-date. Dentists will, of course, be put out of business and hair restorers will be but an unpleasant memory.

STATE INSURANCE. A bill has been introduced in the legislature providing for state life insurance. Not having examined the bill I am not prepared to pass judgment on its provisions, but I believe that state insurance is practical, if properly managed, and that it would keep a great deal of money at home that is now sent East to the detriment of the West.

The great life insurance companies of the East have been the means of concentrating more capital in the hands of a few than any other agency or perhaps all agencies combined. The assets of 10 leading life insurance companies with headquarters in New York city amount to \$2,260,146,752. These companies gather in yearly about 290 million dollars in the way of premiums. That amount of cash is gathered annually from other parts of the country and poured into New York. I can see no reason why that money should not be kept at home.

THINKS THE FARMS ARE TOO LARGE. Editor Mail and Breeze—Did you ever stop to think about the size of our farms and their relation to our rural population? I mean the 160-acre farms. There is scarcely a township west of Ohio that has as large a population as it had 30 years ago, and the average for Kansas of able-bodied men between the ages of 21 and 45 is less than half what it was when the homesteads were being taken up.

The 160-acre farm is a mistake. No other country has it and it will not last long here. It is too large for intensive farming where you spend from \$50 to \$100 per year on an acre and not large enough for general farming. It is a one-man proposition, isolated and alone.

Man was not made to live that way and he won't stand for it long. He is compelled to raise all wheat or all corn or else they interfere with each other. For good farming there is more work on 160 acres than one can do alone and not enough to pay a profit for two. Changing work helps but little. It is inconvenient and cannot be depended on, as a rule.

Before the homestead law our farms were larger. Our households consisted of a score or more of persons of all ages; a community within itself. Work and play went with a swing. It was stimulating and produced our best citizens. Hogs were killed by the dozen; provisions bought in quantities and the cost of living was reduced. The 160-acre farmer can't do this and he sells out to the town speculator, who rents the farm to a soil robber. About 50 years more of this and we will have a howling desert. The single tax is the best remedy I can see for this non-resident holding.

Now the speculator removes all improvements except a shanty and horse shed, and would take these off if he could rent to nearby farmers, but as there is so much speculator-held land around he has to leave them so the renter can have a place to live in.

With a single tax the average farmer with a well improved and stocked farm would pay less taxes than he does today, but the speculator and his soil robber have to give way to a better system. "TAXEM."

McPherson, Kan.

While I am not prepared to agree with all the statements and conclusions of the writer, I am deeply impressed by the fact that there is a great deal of truth in his reasoning. That the farms of the country generally are being impoverished by the present system of cultivation I have not a doubt, and if that is true the question of how to stop that waste becomes a problem of the most vital interest not only to the farmers themselves, but to the whole population of this republic.

The soil is as essential to life and health as the air. To permit a system to continue that is gradually making the soil less productive and less capable of sustaining an ever increasing population amounts almost to a crime against nature. Rented farms, as a rule, deteriorate much faster than farms culti-

vated by the owners, but this is not altogether, and perhaps not to a great degree the fault of the renters.

Usually the renter has not much capital. He cannot stock the land. He is compelled, therefore, to crop it and sell the crop. That is taking off the land what ought to remain there. There is no inducement for him to improve the appearance of the farm, for if he did it would probably mean that he would have to pay more rent.

It has been demonstrated by experience, first, that a farm if properly treated will not decrease in fertility, but actually become more fertile; and second, that with proper care and cultivation, including proper fertilization, the yield of the average acre of land can be doubled and at the same time the ground left richer than before the proper system of cultivation was commenced.

That farmers, as a rule, try to cultivate too much ground there is no doubt. They might produce more and better crops from half the land and not work as hard as they do in trying to cultivate the large area.

Possibly the single tax would solve the problem, but a large majority of the farmers do not think so and I am far from being convinced that it would myself.

Instead of piling all the burden of taxation on the land I would favor a graduated land tax. I would relieve the small farm of say 40 acres from tax entirely and gradually raise the taxes on farms above that size. That is, I would place a moderate tax on the second 40 and gradually raise it until it would be unprofitable to hold large bodies of land for speculative purposes. Of course, this program would have to be varied according to the locality and character of the land.

We all know, of course, that there are lands on which it would be impossible to make a living from 40 or 80 or even 160 acres. What I want is to encourage the holding of lands in small bodies by actual farmers and not by speculators. I would also favor a plan by which the small farmer could obtain cheap money for the purpose of stocking and improving his farm.

A NEW PLAN OF INSURANCE SUGGESTED. Editor Mail and Breeze—You and the political parties have advocated passing a law to have the state print the school books and sell them at cost so as to keep the people from being robbed by the school book trust but the book trust doesn't get a nickel where the insurance trust gets dollars.

The Grange Insurance company writes a five-year policy for less than \$1.00 on the hundred, while the old line companies charge \$3.00 a hun-

The supreme question at this time is greater efficiency in the administration of justice.
—ARTHUR CAPPER.

dred on farm property where the owner resides and 4 per cent on tenant property, so it is evident the extra money goes to an endless chain of parasite agents to get them to send the actual insurance money to Wall street and then it is sent west again through another chain of usurers and loan sharks to rake the farmers for interest on money that should never have left the state.

It is like a two-edged sword that cuts both ways and the back of it the sharpest. The money paid for insuring property in Kansas should never leave Kansas.

I believe this legislature should pass a law making it possible for each county to insure its own citizens. The trustee to value and insure the property for a nominal fee, the premium to be paid to the county treasurer, the commissioner to determine the per cent of premium and the township board to appraise losses and that would keep Kansas money at home and we would not be paying \$3 or \$4 for \$1 worth of insurance.

If the Grange can insure for less than 1 per cent, the county can carry the risks for 1½ per cent and pile up a surplus.

And if the county were to charge 3 or 4 per cent like the old line companies it would pile up a surplus in a few years that would pay off their bonded indebtedness and keep our money at home instead of being taxed to pay interest on bonds held in Wall street and bought with Kansas insurance money.

I know proposing this kind of a law would bring the biggest lobby to Topeka that ever tried to blight the state for there are more men trying to live by selling insurance than preaching the gospel and their livings are a burden on those they insure and the influence they will try to bring on the legislators will not be logic or moral suasion but the logic of the jackpot and the boodler.

But if every man in Kansas who pays extortionate insurance would write to his representative to help pass such a law we would get it and get it quick and it would save more money than reducing railroad fare from 3 to 2 cents a mile, for everyone does not travel but everyone insures and the tenants pay it in extra rent, for the property they live in pays 1 per cent more insurance than if they owned it.

Germany has government insurance of laboring men, why can't Kansas insure its home owners without charging them enough to support a chain of parasites from here to Wall street and back when the county officers could do the work for one-third the money and keep it all at home?

I know the local papers won't advocate this kind of a law for John Doe, Richard Roe, Brown, Jones, Robinson, and Tom and Jerry carry advertisements headed "Real Estate Loans and Insurance", and they would call around in a body and tell the editor if he did not quit pulling the shingles off their happy homes he would stir up their wrath so they would pull the foundation from under his house by stopping their paper and ad-

vertisements and induce their friends to do the same. So the local editor will see the error of his way and grow silent and thoughtful on that subject and then vent his righteous wrath on the book trust and harvester trust and old Rockefeller. It is safe to hit them. They don't live "in our town" or take our paper. Hoping to hear from you in the peoples' forum, "Passing Comments," I will conclude, hoping all the people can't be fooled all the time without raising a roar.
Harris, Kan. FRANK FAY.

USE THE COBS. Editor Farmers Mail and Breeze—In the Daily Capital of January 26 was published an article on the problem of making use of corn cobs, of which the present year by the elevator men to get rid of them.

The suggestion is made that they have some food value and that they could be utilized in making fertilizer. No doubt they could be made use of in these different ways if ground up and mixed with other substances which are used for these specific purposes. For instance, if ground and incorporated with alfalfa meal, milo maize, cottonseed meal and molasses, perhaps it would be a good food, depending largely upon the amount of food value contained in the cobs as to whether it would pay or not.

Then, again they certainly would make a first class fertilizer if the proper ingredients were added to their bulk. What would be the best substances with which to mix the ground cobs I would suggest that the experts of the Agricultural college ascertain by actual experiments.

There is still another use to which they could be put, and which would surely prove a profitable one, and that would be to grind them, add a small amount of tar, just enough to stick the substance together, and press them into briquettes for fuel.

Trusting that these suggestions will be acted upon by the authorities at the Agricultural college so that a great saving will be hereafter made. I remain,
Kansas. DR. S. C. ELLIS.

FAVORS CANAL FROM MISSOURI TO THE GULF. Editor Mail and Breeze—I see by your issue of November 30 that the Industrial and Agricultural congress which met recently at Hutchinson, endorsed Congressman George Neely's bill now in congress asking an appropriation for an irrigation canal leading from the Missouri river in Montana down through western Nebraska, Kansas and Oklahoma.

A body of representative men such as met at Hutchinson indorsing such a project ought to have a telling influence on congress. About four years ago, while writing to Professor Bailey, secretary of Roosevelt's farm life commission, I recommended just such a project, but in answer he said he didn't think the government would appropriate money that would not benefit all the people.

It seems to me that an appropriation of this kind would benefit more people than a great many that have been made. In a project like this the government could appropriate a sum of money for a starter and each state and county the canal run through could issue bonds and co-operate, and when completed in a few years could all be paid back in benefits.

Such a canal would not only be of great benefit as an irrigation project, but would divert the flood waters of the Missouri river into this canal, down across these fertile prairies, making them the garden spot of the world, and prevent in a degree the overflowing of thousands of acres of fine farming land along the river bottoms.

A canal of this kind could be extended on down through Texas and to the gulf; could be used for shipping purposes, or waterfalls could be established and power from them harnessed to generate electricity, and this power used to pump water from the inexhaustible underflow and turned in the canal, which would insure an everlasting supply of water and also it would probably be feasible to run a railroad along the canal with motive power furnished by this electricity.

Some will say this looks nice on paper, but can't be done, but if the government undertakes to do it, it will be accomplished, for Uncle Sam, with his worthy nephews, in digging a canal of this kind, would be of more benefit than anything undertaken lately, not excepting the Panama canal.
Selden, Kan. GEORGE B. SHIELDS.

I presume that a great many wise men will regard this canal project as visionary and utterly impracticable, but is it? While no preliminary survey has been made and therefore an estimate of the cost is the merest guess work, the probability is that the cost of constructing the canal would not anywhere near equal the cost of digging the Panama canal.

The engineering difficulties certainly would not be anywhere near so great as those encountered in digging the Panama canal. I can see great possibilities in the way of agricultural development in it and would be glad to see 300 million dollars cut off the appropriations for the army and navy, 150 millions per annum, for the next two years, and expended on this project—provided of course that a preliminary survey showed, as I think it would show, that such a canal would be practicable.

OBJECTS TO CHANGE IN BUREAU OF LABOR. Editor Mail and Breeze—I am writing to you urging you that you publish in the columns

of some of your papers the urgent protest voted by Local Union 2851 of the United Mine Workers' Association against the proposed change in the abolishment of the Bureau of Labor, mining industry and free employment as recommended by Governor Hodges. He would place these bureaus under one head to be selected by the governor and senate. We observe that this movement has for its object the placing of these departments in the hands of politicians instead of the able hands they are now in. During the past 14 years these departments have been built up to a very able efficiency and we vigorously protest against this change and this is the sentiment of all the labor organizations in this part of the state.

President U. M. W. A., Local No. 2851.
Arcadia, Kan. ERNEST F. SMITH.

CAPON INDUSTRY GROWING

All Markets Are Insufficiently Supplied

Written for Farmers Mail and Breeze

BY GEORGE BEUOY

Cedarvale, Chautauqua County

Editor's Note.—Caponizing is one way to increase your profits whether you get an advance in the price per pound or not. This winter Kansas City commission houses are offering from 15 to 25 cents per pound for capons. About twice as much as for cockerels. And a capon will put on 10 pounds while a rooster puts on 8. W. A. Lippincott, poultryman at Kansas Agricultural college, recently issued an excellent bulletin on caponizing which can be had on request by writing to W. M. Jardine, director of the Kansas station, Manhattan, Kan. The bulletin of the U. S. department of agriculture, Washington, D. C., on "Caponizing" will also be found helpful.

THERE is truly a constant and steady demand for fat, well finished capons, and they can be sold to almost any wholesale produce house in the country at very remunerative prices. In the Kansas, Missouri and Oklahoma territory, Kansas City and Denver are perhaps the best markets for capons.



George Beuoy.

The caponizing operation is so simple and easy that boys and girls can do the work. The time to caponize a cockerel is just before the comb begins to develop. Certain makers of capon instruments have dwelt largely on the high prices that capons sell for and some of our western folk have caponized their cockerels expecting to get these high prices. While from 40 to 50 cents per pound is often paid for capons, Kansas people should bear in mind that is an eastern price and

is paid for dressed capons and not live birds.

In Kansas we are in the habit of marketing our poultry alive and under existing conditions that is perhaps the best way to do it, but when capons go live weight on our western market they do not bring the high prices paid in the East for dressed capons. I have been marketing a good many capons each year, sold live weight, in the open market, and have realized about 15 to 20 cents per pound for them.

Last Saturday I happened to visit our local buyer's stall and the manager had just bought six White Rock capons from Mrs. George Garr, Grenola, Kan., and had them in one end of a double shipping crate. In the

other half of the same crate were 12 roosters of the same breed and age, each of which had eaten as much feed as either of the capons—or twice as much feed as all of the capons for the 12 roosters. The six capons weighed 9 pounds each and brought at that time 13 cents per pound live weight, or \$7.02 for the six. The 12 cockerels weighed 5 pounds each and brought 4 cents per pound, the 12 bringing \$2.40.

Just figure on that a little and you will see that the capons averaged almost \$1 per head more than the cockerels, the same time and feed being required to produce each lot.

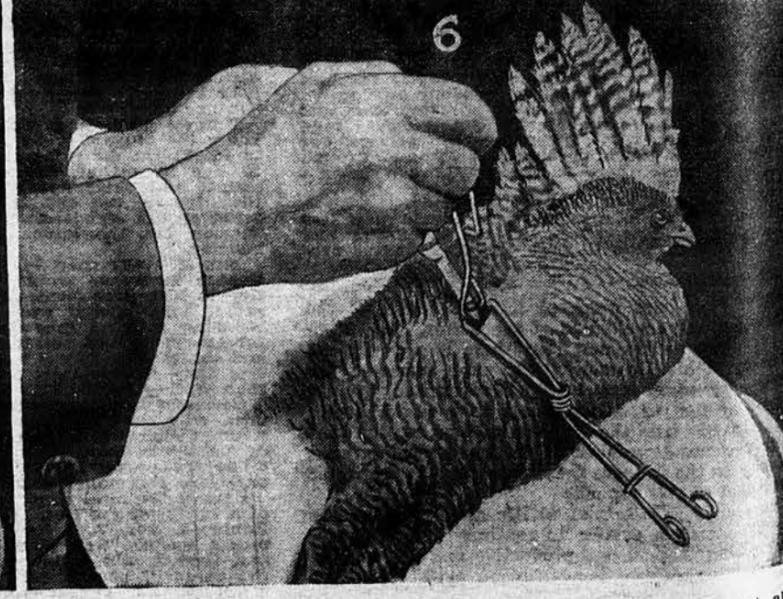
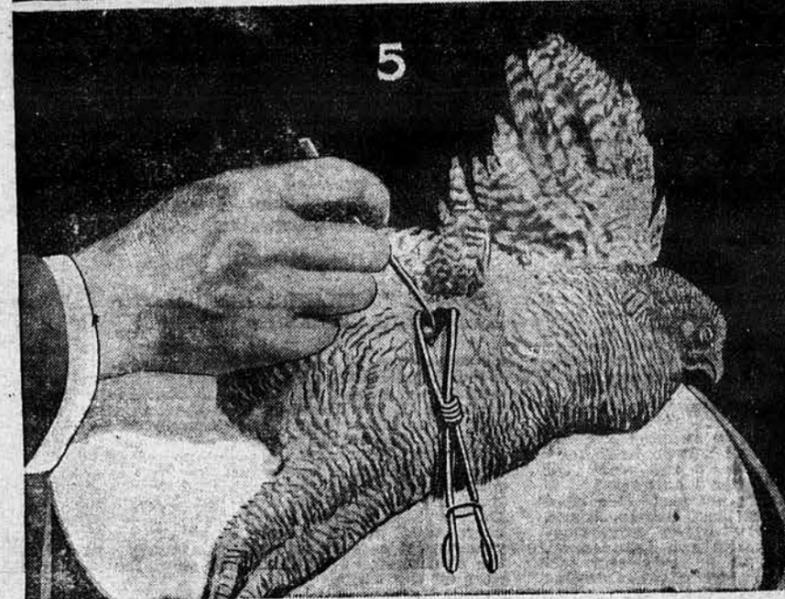
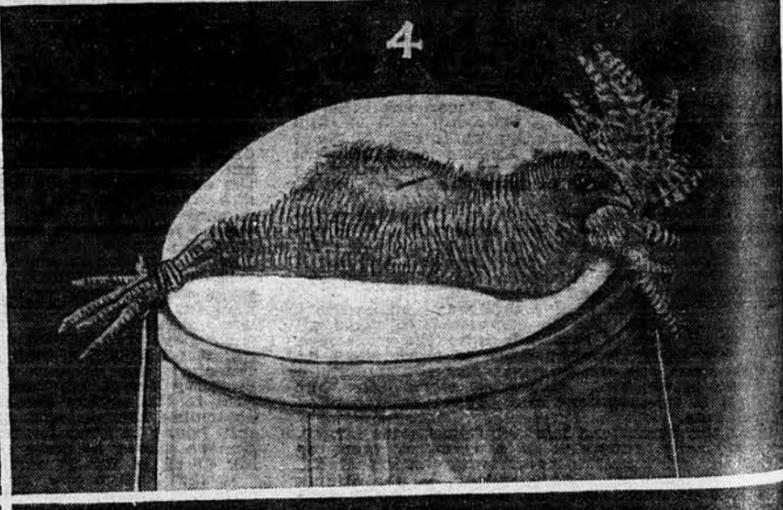
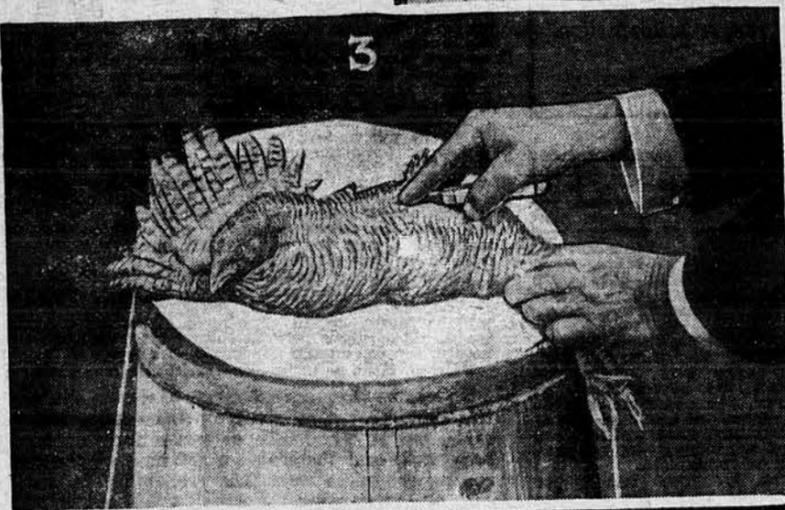
And it is not altogether a question of how much one can get per pound for capons, the point is we cannot af-

ford to be without capons for our own use. They are the best eating to be had. They are just right at a time of year when all other fresh meat is very scarce and high. Capons are at their best for eating during February, March and April. At this season of the year young stock is not to be had, and that is one of the many good reasons why capons sell so high.

From time to time articles have appeared in the different papers over my signature explaining about capons. I have frequently given the addresses of capon buyers and the editor man has cut that part out, presumably believing that the dealers should advertise that they were in the market for capons. I took the matter up with some of the buyers and they informed me the only reason they do not advertise they are capon buyers is that the supply of capons is so limited, not enough can be secured to make it profitable to advertise.

Beginning at the extreme west of the country, I will mention a few reliable buyers of capons scattered across the United States: At San Francisco, the Keystone Poultry & Egg company; at Ogden, Utah, the Griffin Produce company; at Denver, Pinkett Brothers, also the Eppel Produce company, and at Kansas City we find five or six buyers of capons. This is the market to which I always ship my capons. I usually send them to The Richard Butler Produce company, Walnut street. The farther east you go the better capons are known, the greater the demand and the higher the price. E. R. Jacques & Son of Lebanon, Ind., are large buyers in that state. This firm paid an expert caponizer \$20 per day last summer to go out among the farmers and teach them how to caponize so the

(Continued on Page 21.)



1.—A Barred Rock cockerel just right for caponizing. 2.—Method of fastening the bird for operation. 3.—Making the cut. 4.—Showing the cut, about an inch long. 5.—Humane spreader inserted in cut and cut spread, note the organ to be removed. 6.—Removing the testicle, point of knife under the organ.

Studebaker

How Studebaker Automobiles Are Made A Heart-to-Heart Story. No. 1

BECAUSE farmers are acquainted with machinery, we have decided upon an entirely new kind of farm paper advertising.

We shall run a series of articles in 8 of the best farm papers in the United States reaching upwards of 2,700,000 farmer subscribers. How many readers that will mean you can judge better than we.

The first and greatest problem of all automobile manufacture is simply this: How to produce the best car for a low price.

Now there is just one way known to man by which this question can be answered, and that is: By building so large a number of cars that the manufacturer can afford the machinery necessary to build cars in the best manner possible.

This is what is known as modern Quantity and Quality Production.

Let us stop here a moment and make it clear. Most manufacturers of automobiles are "assemblers," not real manufacturers. They buy a motor from one parts manufacturer, a transmission from another, a rear axle from another and then put the parts together to make a car. Naturally they have to pay a good profit to the parts manufacturers and then resell to the buyer at another profit. When they are done they may have produced a pretty good car, but—and this is the point—it is bound to cost the buyer several hundred dollars more than it would cost if the manufacturer made the whole car himself.

Remember two things here:

One: No matter what price you pay you never get more than you pay for.

Two: Every high priced car and every assembled car could be sold at from three-quarters to three-fifths of its present price if the manufacturer really made all his own car and if that car were built in quantities upwards of 20,000 cars annually.

This brings us to the Studebaker method:

We manufacture Studebaker automobiles from top to tread in our own factories, which cover 40 acres of floor space. And we are building 50,000 cars this year.

(The only exceptions to our own manufacture are tires, lamps, magneto and one or two similar parts, which no automobile manufacturer ought to build.)

For these two reasons, and these alone, we are able to sell cars at \$85.00, \$1,290.00 and \$1,550.00 which cannot be equalled by other cars at an average of \$500.00 higher price.

We start with the raw material, chiefly bar steel and pig iron.

This raw material begins its long journey of many processes and many weeks of time towards the finished car, through three or four main opening channels in our factory.

1. THE FORGE SHOP. Forty great hammers working on white hot steel.

2. THE FOUNDRY. A huge building where molten pig iron is poured into moulds almost as carefully constructed as for precious metal work.

3. THE STEEL STAMPING MILL. Huge

presses take steel plates of different gauge thickness and under many tons pressure stamp them into form.

4. THE HEAT TREATING PLANT. Forty deep ovens at glowing heat take every vital steel part in Studebaker cars and in from three to six separate treatments make it hard and tough.

No man, least of all a farmer who is accustomed to tilling the soil and getting back to first principles, can stand before these immense glowing gateways of Studebaker manufacture and not be stirred with the thought that here things are genuine and what they seem. Who can see a four-ton drop-forge hammer seize a hot square bar of steel and fashion it into form with blows now gentle, now awe-inspiring, without feeling the power and skill which control such forces.

Yet first we must go one step back of this to a quiet place of study and diligent experiment—our laboratories.

Here are highly trained specialists working over a microscope or adjusting a spring-testing machine, or watching a liquid change color in the chemical laboratories. It is such a scene as you would witness in the best universities, and no university has better equipment.

Yet the word of these men who are so far removed from the din of the forge shop and stamping mill make the law of our factories.

What material we shall use they specify.

Our laboratory experts tell the Pittsburgh steel mills what kinds of iron and steel we will use for the different parts and the mills make the steel and iron as we specify.

But we go further and will not accept a single shipment until the laboratories have tested it and found that it is in accordance with our formulas.

In other words, our laboratories tell us to the thousandth part of one percent, what our steel is made of and what it will do under any given conditions.

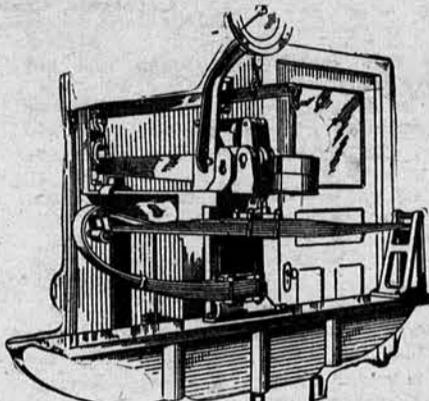
Let us now turn for a moment and speak of steels themselves.

You have heard and read often of Krupp, chrome, nickel, vanadium, manganese and other kinds of steel alloys. You have been told that this or that steel is "specially heat treated." Unless you were an expert these terms have been meaningless—even if you were an expert you wouldn't be real sure just which steel was best suited for each particular part unless you knew the amount and kind of strain that each particular part is subjected to.

But when the Studebaker engineers design a car they know by mathematics the "strains and stresses" to which each part is to be subjected, just as a bridge-builder knows what strains or stresses will fall upon each part of his structure. The automobile engineer, however, is called upon not only to provide a part strong enough, but also to provide it light and compact enough to simplify design and keep the weight of his car down.

Remember this next time you ask a salesman the weight of his car and remember also that in the Studebaker factories the engineer works with the scientist.

Now we have already spoken of heat treating, and as heat treating finally



Spring Testing Machine which Bends and Releases Spring Many Times a Second, for Days at a Time

determines the quality of all steels, we shall describe it further:

Remember that heat treating means to steel about what baking does to bread. To say "this steel is heat treated" is a good deal like saying "this bread is baked." But just as other things are important about bread, so also with steel. The kind of stuff in it, the way it is baked, the temperature, the oven, the brown it gets on the crust, all these things are important in steel as well as in bread!

The scientists in Studebaker laboratories are specialized experts in steel. They know steel as a good baker knows his bread. The baker strives to get a fine, even white grain to the inside of his loaf; the steel expert under a microscope, which magnifies 1,000 diameters, studies the grain of the steel. He watches the effects of great pressures exerted at high temperatures or the changes in structure brought about by "tempering."

In order to get just the right "temper" he chills the glowing metals in oil, water or brine as may best give him the desired result.

By varying the heat treating according to temperature and using the right kind of "tempering" he adds to or diminishes the amount of carbon, chromium, nickel or other materials in the steel by precisely the right amount for a gear, a crank shaft, an axle, or spring. The springs, for example, are "tempered" in oil and because this is a delicate process it takes from three to six operations.

Do you begin to see how thorough Studebaker manufacture is?

Steel is usually hard or soft according to the amount of carbon in it. Nickel makes it very tough and highly resistant to twisting strain. Chromium adds both to toughness and hardness.

Supposing, then, we are making an axle shaft which must turn its rear wheel over 30,000 to 100,000 miles of road in its day. It must travel a long road which knows many bumps, terrific jars, strains in mud, sand and steep grades, and it must not break. For this shaft we take the tough, resistant nickel steel and heat-treat it until it just suits the purpose.

Or we may be studying a driving gear. This must be glass-hard to resist wear. It dare not be brittle or the teeth would fly into a thousand chips. By proper heat treatments we provide for all this.

Then there is the steering knuckle which must not fail, and a thousand other parts, each of which will be subjected to a different kind of wear or strain and each of which must be unfailing in the performance of its task. So every Studebaker part is carefully studied, designed right and manufactured as carefully as if on it alone hung the honor of the Studebaker organization.

And now that the Studebaker laboratory experts have told us what steels shall be used at every point in the car, suppose we turn again to those three main channels through which the steel is admitted to Studebaker manufacture.

First the drop-forging. A drop-forge is really the old blacksmith's forge grown to gigantic size with hammers of thousands of pounds weight. The steel comes in a long bar, which is first put in a giant shears that clip it off as neatly as the housewife snips her thread.

The bar is heated glowing hot and if it is to be a crank shaft, for example, the first forge drives it into the mere rough form of the finished piece. Let no one think this is a little thing, for the

pounding produces an indescribable roar and the earth all around is shaken.

The partly formed shaft is then heated once more and another hammer takes its turn. The particles of white-hot steel are driven together as closely as particles of glass in a piece of crystal. Then a third forge takes up the work and the steel takes more and more definitely the shape it will finally bear. Yet there are 24 operations still to come on this piece before it is finished.

After the forging the shaft is stacked away for six weeks to age and let the particles of steel shrink and adjust themselves to the tremendous pounding they have received in the forge.

Later it is rough ground and then machined several times and always by Studebaker workmen in Studebaker shops—until it is close to its final shape and size.

Then it is straightened, trued, inspected and made ready for the grinding which begins to give it the velvet smoothness of the finished shaft.

Right here it is again heat treated, baked for hours and pure carbon literally roasted into the surface of it, and when it comes out the surface is a high carbon steel, very hard, and so fine grained that it will wear glass smooth on its bearing surface.

Again it is heat treated to bring out the true temper of its nickel steel core, which must be tougher than the side of a battleship.

Even now nearly a dozen operations remain before it is ready.

These consist in grinding, truing, straightening and inspecting.

The truing of the shaft to balance is almost as delicate an operation as the truing of a balance wheel of a watch. It is accomplished by placing the shaft on ball-bearing castors with knife edges and allowing it to swing free. If any part of the shaft is heavier than another it turns to the lowest point. This heavy part is ground away until at last it is finished true and even and when placed on the castors will center without movement at any point.

Thus does the Studebaker Corporation take the most minute care that every part in Studebaker cars is true and right.



We balance crank shafts to avoid vibration, we straighten and true cam shafts to insure correct timing of the valves within one one-hundredth of a second and every part of Studebaker cars bear the same intense scrutiny and skilful watchfulness. Better cars cannot be built.

Yet such are the economies of our immense and thorough-going equipment that Studebaker automobiles are far and away the biggest values the world has ever seen.

In the next issue this heart-to-heart Studebaker story will be continued in the same way, going further into the manufacture of Studebaker cars. We hope you will be looking for it.

The limits of space have not permitted us to go into many other interesting points of iron casting, steel stamping, etc., but we have told much more about these things in what we call the Studebaker Proof Book—a book designed to prove the quality of the Studebaker cars. Whatever your automobile preference, you ought to have this book. It is free—send for it on the coupon below.

THREE GREAT CARS

Studebaker "25" Touring Car, \$885

5 passenger—Gas starter

Studebaker "35" Touring Car, \$1290

6 passenger—electric lights, electric self-starter

Studebaker "Six" Touring Car, \$1550

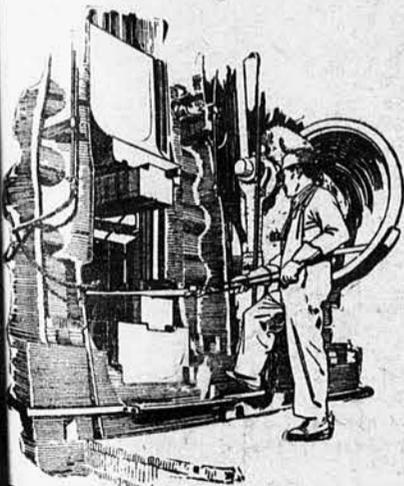
6 passenger—electric lights, electric self-starter

All prices; completely equipped f. o. b. Detroit

The Studebaker Corporation, Detroit, Mich.

TEAR OFF HERE

THE STUDEBAKER CORPORATION, Detroit, Mich. Please send me Studebaker Proof Book. I am interested. Name Address



Forging a Front Axle in 4,000 lb. Drop Forge

PROFIT BY PARCEL POST

How to Find Town Customers For Farm Products

Written For Farmers Mail and Breeze

BY REESE V. HICKS

President American Poultry Association

THE parcel post was the one thing needed to make the poultry business a big business. It remains for poultry raisers, dairymen, farm folk and the consumer in the city to take advantage of it.

The new post provides for the collection of butter, eggs and vegetables by the rural route carriers in the country and for their delivery in the city by the city carriers. It is important, if we are to get the full benefit of this great measure, that some method be provided for the consumer in the city to get in touch with the producer.



Reese V. Hicks.

The rates for parcel post delivery in a zone of 50 miles are 5 cents for first pound, 3 cents each additional pound, or 35 cents for 11 pounds, the limit in weight. The rate for your town and rural route is even less, being 5 cents for first pound, 1 cent for each additional pound, and 15 cents for 11 pounds. It is in the 50-mile zone that to my way of thinking 80 per cent of the delivery of eggs and butter for kitchen use will be made.

When it comes to shipping for hatching, the area of business will be nationwide, but I am speaking especially of home consumption.

With a rate that is cheaper than express and cheaper than farmers can afford to deliver their butter and eggs themselves, the great question that comes up is how to find customers, and what is equally important, how shall the customers, anxious to get farm products, find us. To my mind the same road is open to both. That road is a small announcement in the for sale columns of the city papers and the classified columns of the farm papers. The producer should announce just what he has to sell, while the buyer should also ask for what he wants on the market.

How to Find Customers.

For instance, I want for my table an average of 1 dozen eggs a day or twice a week. Living in the heart of the city I have no acquaintance or connection in the country to whom I can apply for the fresh eggs, so I insert an announcement in some good farm journal something like this:

WANTED—Six dozen fresh eggs a week delivered by parcel post. Quote prices. John Smith, 1253 Van Buren St., Topeka, Kan.

This should be run two or three times or longer if necessary, in the classified column. These classified advertisements are not expensive, they are small advertisements which are carefully read by readers of farm papers. Or, if no farm paper covers the field surrounding my town, or any of the local dailies, the local country weekly will bring me a producer of high-class eggs, poultry, butter and vegetables.

While it is important to the man who is buying the eggs and butter that he get in touch with some one who produces them, it is even more important that the man who has his products to sell shall be able to sell them direct to the consumer, cutting out the much talked of middle man with a saving to both producer and consumer. The producer can afford to advertise in the town or city paper until he gets enough customers to take his entire output. Here is a sample advertisement that will give the idea. It should be inserted in the "for sale" advertisements of your town or city paper. Try it two or three times or a week at first. The rate will be found cheaper the longer the advertisement is continued:

FOR SALE—By parcel post. Newly laid eggs, the day laid. Guaranteed strictly fresh and safe delivery. Ralph Wilson, R. 2, Topeka, Kan.

Or, if it is butter that the producer wishes to sell an advertisement like this will bring the inquiries:

FOR SALE—Clean, sanitary butter, from tuberculosis free cows; bluegrass pasture, pure water; light, well ventilated stalls for herd. Butter delivered by parcel post the day it is produced. John Thomas, R. 2, Topeka, Kan.

Calculate Cost Carefully.

Prices are not given in these sample advertisements, but they should be. The producer may figure out just what it will cost him to deliver each package and by adding a small per cent to allow for damaged eggs, he can quote prices in the advertisement. In the case of butter and vegetables there will be little breakage and it is only necessary to add the actual cost of delivery since the loss will be small through handling.

Unquestionably one of the great problems today from the farmer's view-

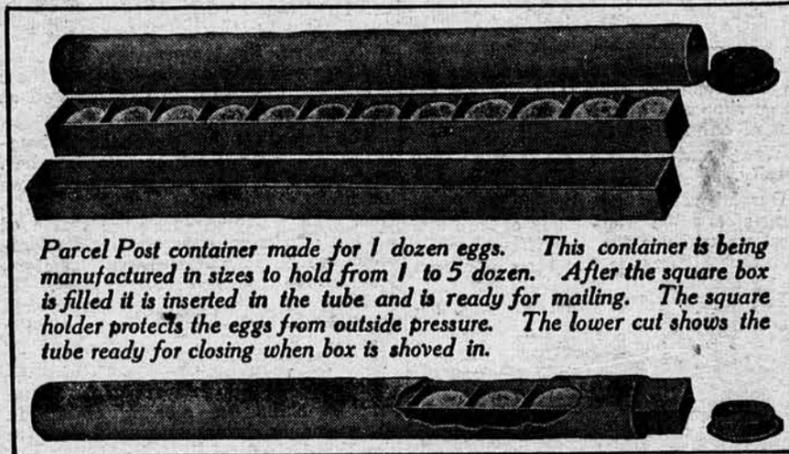
shipping eggs and butter, as well as vegetables, have been devised and are on the market. No doubt the postoffice department will at an early date approve a number of these containers just as it does certain makes of mail boxes.

How Parcels Shall Be Packed.

However, at the present time no special approved package or brand has been given preference but only certain rules have been laid down with which these packages must comply. These rules read:

Mailing—Parcels must be prepared for mailing in such manner that the contents can be easily examined. When any parcel offered for mailing is sealed or otherwise closed against inspection, or contains or bears writing not permissible, it is subject to postage at the first class rate and shall be treated as first class matter.

Eggs—Eggs will be accepted for local delivery when so packed in a basket or other container as to prevent damage to other mail matter.



Parcel Post container made for 1 dozen eggs. This container is being manufactured in sizes to hold from 1 to 5 dozen. After the square box is filled it is inserted in the tube and is ready for mailing. The square holder protects the eggs from outside pressure. The lower cut shows the tube ready for closing when box is shoved in.

point is that of getting better prices for his products. On the other hand the man who lives in town needs cheaper products than he has been getting and at the same time he wants them fresh and clean. By doing business direct by parcels post the prices can be increased to the producer and at the same time decreased to the consumer. Ordinarily days, week and even months are consumed by some products before they get from the producer to the consumer, thus adding dirt and filth to their condition while at the same time this delay increases the cost to the consumer in addition to increasing the middleman's profits.

To be shipped safely by parcels post eggs will have to be carefully packed. Already containers and packages for

Eggs—Eggs will be accepted for mailing regardless of distance when each egg is wrapped separately and surrounded with excelsior, cotton or other suitable material, and packed in a container made of double corrugated pasteboard, metal, wood or other suitable material in such a manner as to place each egg on its end and to prevent them from striking together or against the side or top of the container, with an outer cover of double corrugated pasteboard, metal, wood or other suitable material.

Butter, Lard, Meats, Fruits—Butter, lard and perishable articles such as fish, fresh meats, dressed fowls, vegetables, fruits, berries and articles of a similar nature which decay quickly, when so packed or wrapped as to prevent damage to other mail matter, will be accepted for local delivery (See Sec. 3, Par. 2a) either at the office of mailing or on any rural route starting therefrom. When inclosed in an inner cover and a strong outer cover of wood, metal, heavy corrugated pasteboard or other suitable material, and wrapped so that nothing can escape from the pack-

Parcel Post Regulations

- All perishable matter should be so marked.
- The name and address of the sender must be on the parcel.
- The combined girth and length of a parcel must not exceed 72 inches.
- The weight limit is 11 pounds and the fraction of an ounce above that mark will bar a parcel from the mails.
- All parcels post matter must bear the parcel-post stamps. The ordinary postage stamp will not be accepted on parcel post matter.
- The parcel post rates are:

	First pound.	Each additional pound.	Eleven pounds.
Rural route and city delivery.....	\$0.05	\$0.01	\$0.15
50-mile zone.....	.05	.03	.35
150-mile zone.....	.06	.04	.46
300-mile zone.....	.07	.05	.57
600-mile zone.....	.08	.06	.68
1,000-mile zone.....	.09	.07	.79
1,400-mile zone.....	.10	.09	1.00
1,800-mile zone.....	.11	.10	1.11
Over 1,800 miles.....	.12	.12	1.32

age, they will be accepted for mailing at all offices within the first zone.

Why not cut out the roundabout method of handling these perishable products and send them directly by parcel post? There is really no reason. It is only a matter of getting together

Why Mixed Flocks Fail.

Mr. Editor—In the mixed flock of hens certain breeds are represented, each needing a certain care and feed, but being all together, some of the birds get too fat to become good layers and some do not get enough feed because there is no uniformity of requirements. When the eggs go to market there are all sizes, shapes, and colors. The same thing is true in marketing the birds, and with the best poultry trade this item counts.

In the old days the hen that laid 30 or 40 eggs per year was considered a tremendous layer. With her half wild instinct she made her nest and laid her eggs in some hidden out of the way place. Practical breeding brought improvement and the standard of the farm fowl has been raised wonderfully. But take away this practical breeding, as in a mixed flock left to its own ways, and the offspring from such a flock will retrograde at once.

The easy and inexpensive way of getting a start with purebreds is to get a few settings of eggs from some reliable breeder. Mark each chick when hatched with a toe mark or leg band and keep track of them. Next spring pick out the best pullets for breeders and get a good male to mate with them. Keep them away from the rest of the flock and set the eggs from this mating. The next fall sell off your mixture and the year after that you will have a flock of purebreds large enough to raise all the chickens and lay all the eggs you will want.

Cull closely each year, using only the best for breeders, and you will never regret the day you disentangled yourself from the expensive net of keeping a mixed flock of chickens. We make a success of the things we are interested in and not of those which have simply been allowed to "happen".

Humboldt, Kan. William A. Hess.
The writer of this illuminating little statement, explaining why it is that some persons are not getting the returns they should from their poultry, practices what he preaches. Notice the uniformity of the eggs shown in the basket on page 7. These eggs were laid by Mr. Hess's well bred flock of Buff Rock hens.—Ed.

Getting Chicks Beyond Danger.

Mr. Editor—There are plenty of people who can hatch from 90 to 98 chicks from 100 eggs in an incubator but the greater feat is to raise them. As strong vitality in the breeding stock is the very first consideration, it will pay well to get several strong roosters and leave each in the breeding pen one week, alternating them every other week. You will need twice as many roosters but it will pay. Most all chicks will live until the third day if you do not feed them until then. Most losses the first three weeks can be traced to methods of feeding and yet there is a great variety of feeds that will make them do well and thrive. Among the feeds generally used are boiled eggs chopped up, bread moistened in sweet milk, oat meal or hominy, cracked wheat, corn meal, millet, or commercial chick feed. All are good and I find it makes little difference which is fed so long as the chicks are kept growing and they do not get the white diarrhea.

I find lice one of the worst problems. Grease your hens before setting them and wash out nest boxes with salty soapuds and there will not be many lice to torment the hens while sitting. I find sweet oil or lard rubbed on the chicks the only sure method of killing the lice and sometimes this treatment will kill a chick. Keep their coops and boxes clean. Goodland, Kan. Fred J. Kohler, Jr.

HOW EGG PROFITS IN KANSAS MAY BE INCREASED

Editor's Note.—This is the best article on egg-production the Mail and Breeze has ever published and it has published many good articles on this subject. It goes to the root of the matter and suggests ways and means within the reach of everybody, besides it is well written and full of information, presented in plain English. Don't fail to read all of it.

KANSAS is low in average egg production. The reason is not that she has so few good layers. She has lots of them. The trouble is that she has a lot of crow-headed, dull-eyed, shrunken-pale-combed, short, shallow-bodied, long-clawed hens sitting around doing nothing but eating when food is thrown to them. There is no easier way to increase egg profits of Kansas than to dispose of all such birds at once.

The hen's comb is her health certificate. It should be well developed and fiery red. The beak should be short and well curved, the eyes bright and prominent. Anything approaching a "crow head" should be avoided as a pestilence. It is birds with such heads that most easily pick up the contagious diseases that sometimes wipe out whole flocks. They are likely to lay few eggs and beget weak chickens.



W. A. Lippincott.

The average hen in Kansas lays about 70 eggs in a year. These eggs at the average price

would be worth a trifle over a dollar. At the present price of feed it costs more than a dollar to feed a hen a year. This puts the margin of profit on the wrong side of the ledger.

The average hen in Kansas lays eggs that will weigh an ounce and three-quarters each, or 21 ounces a dozen. The legal weight of a dozen of eggs in many states is 24 ounces. Half the eggs sold in Kansas would be rejected if the legal weight of other states were adhered to. And to be really first-class eggs should weigh better than 2 ounces each. On many markets there is a spread of 10 cents a dozen between large, uniform eggs and small eggs of equal freshness.

The average hen in Kansas is laying eggs that give 75 per cent fertility and less than 60 per cent strong chicks, and many people have to be satisfied with 50.

It is a common practice to breed from pullets. Every one knows that the pullet laying year is the most profitable in a hen's life so far as eggs are concerned. Eighty per cent of the winter eggs in Kansas are laid by pullets. It is the most natural thing in the world to set some of these pullet eggs. This is where the trouble begins.

A pullet lays a smaller egg than she will as a hen. The average weight of 100 White Leghorn 3-year-old hens' eggs has been found to be 13.09, while 100 pullet eggs weighed an average of 10.09 pounds. A small egg hatches a small chick. A small chick may grow into a good sized chicken, but is not so likely to as a chick of the same breed hatched from a larger egg. If you are going to have good stock of any kind it is a pretty safe proposition to have it born right.

Where about 2,000 eggs were incubated the following results were obtained:

	Hens, percent.	Pullets, percent.
Per cent eggs hatched.....	76.70	67.80
Average weight of 100 chicks at hatching.....	8.28	7.12
Average weight of 100 chicks at 3-4 weeks.....	29.56	23.07
Chicks dying before 4 weeks old.....	5.00	14.50

A certain proportion of the pullets stand up under the strain of heavy laying better than the rest. They may lay no more eggs during the spring and early summer, but along in July and August, when the thermometer registers 95 on the north side of the house the difference will show. They remain active and vigorous and are still laying eggs clear up to the time they begin to molt. Their weaker sisters begin to be a bit peevish when hot weather comes on, and some of them die. We don't know much about it, perhaps, partly because we are used to it and partly because we feel we have already got most of our profit from their winter's laying. The thing that ought to appeal to us is that there was a funda-

Written For Farmers Mail and Breeze

BY W. A. LIPPINCOTT

Poultryman Kansas Agricultural College

mental weakness present which caused them to break down. And further, that we have a bunch of young stuff coming on, a good percentage of which have inherited the same hidden weakness. In the early spring all hens, good, bad and indifferent lay a good number of eggs. The chances are that as many eggs from weak pullets have been hatched as from strong ones. We have been using pullets as breeders without giving them a chance to die. Pullets should never be used as breeders because they lay small eggs that hatch small chicks which are likely to be weak. Only vigorous mature hens that have proved that they can stand up under the strain of heavy laying, stand the hot weather and be active when it is cold, should be used to renew the flock. All the inferior hens, and none but these should be marketed. So much for the breeding problem.

The problem of incubation is one that has been growing up almost unnoticed during the last 15 years. Bill Jones will say an incubator won't hatch chicks as well as an old hen. Sam Jones will say it will. Bill bases his assertion on the fact that when he put eggs under a hen the chicks came out lusty, bright and active. When he tried to hatch them in an incubator about 25 per cent turned out to be cripples. He's tried three different machines and every time he gets cripples. Sam bought two of Bill's cast-

out of the bunch and was mightily tickled. A year after that his trouble began and grew worse every year. Now the trouble was that the stock had been artificially incubated so long that the weakness caused by it began to reach the surface.

Bill was right. The incubator was responsible for his trouble. Not his own incubator so much as the incubator of the breeder he bought eggs of. Sam is scheduled for some as bad if he goes on using incubators for hatching all his stock as he has been for the last three years.

What then? Shall we banish the incubator from the farm? There is no surer way of cutting down the egg profits of this or any other state. The day has passed when the up-to-date farmer tries to get along without an incubator. There should be an incubator on every farm in Kansas and there are more of them going there every day.

To make money on eggs we must get them in winter when the other fellow's hens are not laying. Eighty per cent of the winter eggs are laid by early pullets. To get early pullets one can't wait until May for the old hen to set. He must have a hustling, husky bunch hunting worms in late March and early April. This means buy an incubator.

But along in May when the hens all decide it's time to assume family cares let them have their way. Select your largest eggs and let the biddies have them. The fact that the pullets thus secured will be late need cause no worry. In fact it is an excellent thing. These pullets will practically have their growth when cold weather comes but will not have begun to lay. Instead of putting their strength into

egg production they will go on developing and by February, when they start to lay, they will be strong physically. It is through these pullets that we are to avoid the problem of incubation.

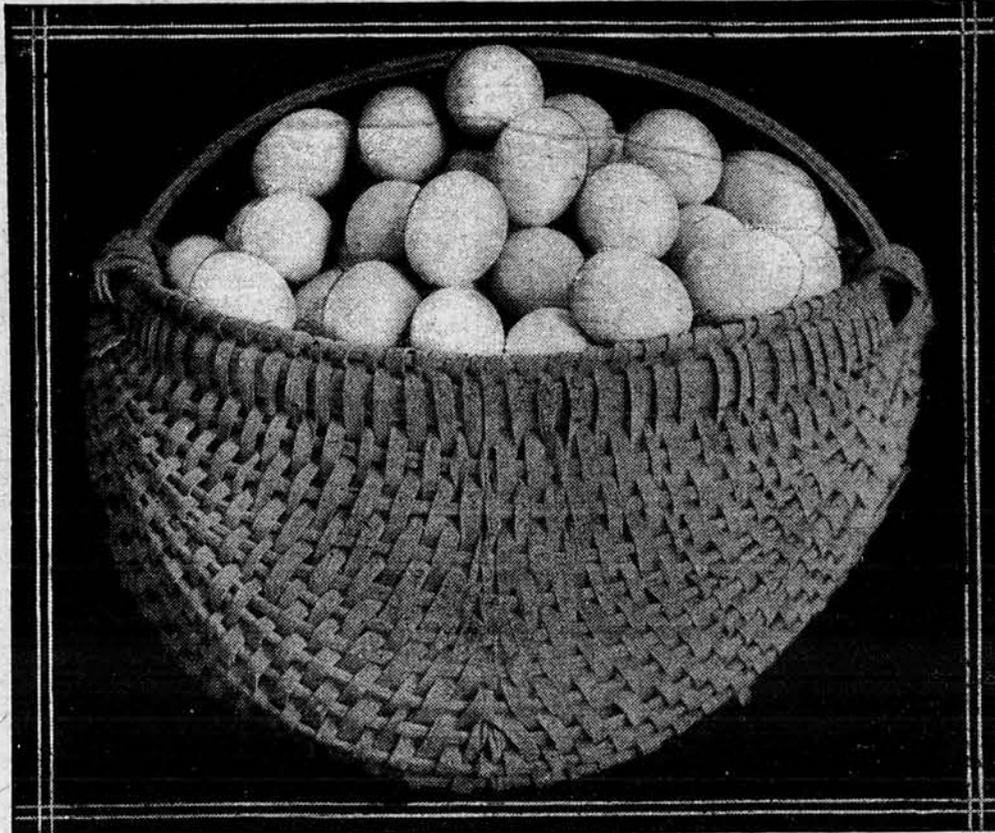
The early pullets that are incubator-hatched should be shut up in the early fall and fed stimulating food calculated to increase egg production. They should be kept up all winter and never mated to a male bird. Infertile eggs keep better in hot weather or cold storage. In the spring when the bottom drops out of the price of eggs and chickens are a bit scarce, they may be disposed of to fair advantage on the open market.

Then hen-hatched pullets should then be given the run of the farm and not fed any stimulating food in the spring. Through the summer they will lay enough eggs to pay for their keep for a year. In the fall they will molt and the chances are the cold weather will catch them before they are well over it. Then comes another rest and time of storing strength, and by spring you will have a bunch of breeding birds that have been fitted for their task just as surely as the grand champion steer at the International is fitted for his task. And it is just as necessary. Hens that are hen-hatched should be used for the breeding flock every time.

Two flocks for every farm should be Kansas' slogan! A comparatively small bunch of birds hatched under hens for a breeding flock. And a large flock of early incubator-hatched pullets to lay the eggs.

How shall we select the layers and eliminate the loafers? A hen that lays 12 dozen eggs in a year has to eat, grind, digest and assimilate enough food to sustain her body and manufacture three times the weight of her body in eggs. A hen that does not lay 12 dozen should not be tolerated on the farm. In order to do this she must have a good sized work shop. In the heavy-laying hen there will almost without fail be found associated with the strong head, the roomy, capacious body, toe nails that are worn off nearly down to the quick. This seems like a little thing and yet there is no surer indication of a hen's activity. And you will find that your big producer is hustling every minute she is not on the nest, for material out of which to make more eggs. Right in this connection you can put it down that the two or three hens that are still scratching around after the sun has gone down and all the hens are on the roost, are the ones that will give the largest records if you but go to the trouble of trap-nesting. The hen that lays 200 eggs will have a 200-egg appetite. It is equally true that the hens that sit around all day or go to roost early are the ones that are keeping Kansas' average production so low. No hen has any business on the roost during working hours.

(Continued on Page 13.)



L A I D I N K A N S A S B Y A L L E N C O U N T Y B U F F R O C K S

off machines and he has been getting about as many chicks from a hundred eggs as he did when he was using only hens. They are chipper and vigorous and will start a rough and tumble any time for a worm.

Where's the trouble? It has been shown beyond a doubt a chick that is hatched in an incubator is different from a chick from the same parents but hatched under a hen. At the Ontario Experiment station in Canada and the Oregon station in this country it has been found that when the bodies of chicks of the same breeding are analyzed, those hatched under hens show more lime than those hatched in incubators. It has also been found that where a miscellaneous bunch of chicks is taken and their individual vigor noted, the most vigorous show a larger lime content when a chemical analysis is made of their bodies. It seems to be a pretty well established fact that strong constitutional vigor and a large amount of lime in the body go hand in hand, and, furthermore, the incubator seems to be responsible for a somewhat diminished amount of lime in the chicks it hatches.

But even if this is so, why can Sam hatch his without getting into trouble? The answer is that Sam's stock has been hen-hatched and range-raised for years. Bill became dissatisfied with his chickens about five years ago. He bought a hundred eggs from a fancier who had been hatching his stock in incubators for the last 15 years. He got 80 chicks

Wins in the Two BIGGEST HATCHING Contests Ever Held

Ironclad

TRADE MARK

140-EGG Ironclad Incubator
Don't class this big, all metal covered, dependable hatcher with cheaply constructed machines—and don't buy any hatcher until you know what it is made of. Note these Ironclad specifications. Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery—hot water top, heat, copper tanks and boiler, self regulator, Tyco's thermometer, glass in door and many other special advantages fully explained in Free Catalogue. Write for it TODAY or order direct from this ad.

IRONCLAD INCUBATOR CO., Box 69 Racine, Wis.

Why take chances with untried machines when for only \$10 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an Ironclad—the only incubator that has for two years in succession (1911 and 1912) won in the greatest hatching contests ever held. In the 1912 contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2000 machines were entered including practically every make, style and price. With 140 egg Ironclad—the same machine set up with Brooder, freight paid for only \$10. Mrs. C. F. Merrick, Lockney, Texas hatched 140 chicks from 140 eggs in 1912 contest.

30 Days' Free Trial

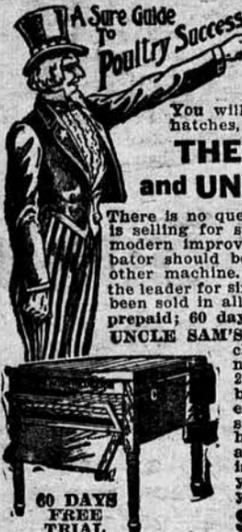
Both for \$10 Freight Paid East of Rockies

140 Chick Brooder

Use the Government Method of Raising Poultry and Make Big Money

You will have better luck with your chickens, raise more hatches, get more eggs and insure greater profit by using

THE SURE HATCH INCUBATOR and UNCLE SAM'S POULTRY BOOK



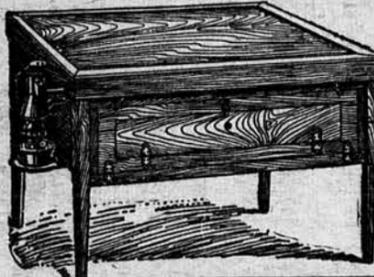
60 DAYS FREE TRIAL

There is no question about the Sure Hatch being the best incubator made that is selling for such a low price. The best materials, good workmanship, most modern improvements, built just as the government experts say a good incubator should be built and hatches more chicks that live and grow than any other machine. It was the first low-priced, well built machine, and has been the leader for sixteen years. More than a quarter million of Sure Hatches have been sold in all parts of the world. Ask a Sure Hatch owner about it. Freight prepaid; 60 days free trial, and a 5 year guarantee.

UNCLE SAM'S POULTRY BOOK is the greatest authority published on the chicken business. Written by government experts and tells all you need to know to be successful at the business. Sold only by us at 20 cents—send stamps or two dimes. It is worth \$10.00 of anybody's money and by our plan you get 50 cents back. Limited edition, order at once. Our big catalogue of Sure-Hatch machines sent free. Send for it today. Market your chickens quick at the high prices that will prevail the coming season. All authorities agree there was only about a half crop of chicks last year, which is causing high prices. Send for our free catalogue today. Select your machine and order it at once. Set without delay and rush your chickens into the market.

Sure Hatch Incubator Co., Box 14, Fremont, Neb.

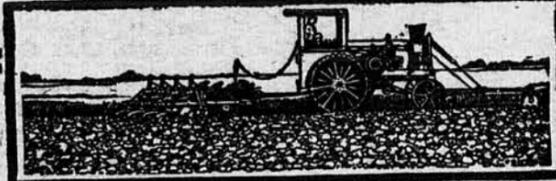
The Fostoria Incubator KANSAS MADE



Here is an incubator equal to the best on the market, an incubator that has been thoroughly tried and has proved its superiority, made of the best redwood lumber, and worth the price. It has a double acting regulator that acts quickly and surely and always. Equipped with Taylor Brothers' "Tyco's" thermometer, the best made. Requires less oil than any other incubator. It hatches the hatchable eggs. Find out about the incubator that is made in the good state of Kansas. Two sizes, 150 and 200 egg, 30 or 60 days' trial. Your money back if not satisfied. Send for free catalog that tells all about it.

Fostoria Incubator Company
B Street, Fostoria, Kansas.

Plowing is Play With This AVERY "Self-Guide" Tractor and "Self-Lift" Plow



Think of riding over your fields on an Avery "Self-Guide" Tractor that automatically follows the furrow without your touching the steering wheel. Just sit on the seat and watch it run. Think of pulling a cord at the ends of the furrows and the plows raising and lowering by power taken from the plow wheels. Just think how easy work plowing would be with this Avery "Self-Guide" Tractor and "Self-Lift" Plow.

Besides making plowing play, the Avery Power Plowing Outfit makes it far cheaper than with horses or any other outfit. Compared with horse farming, records of owners show that an Avery Outfit plows for half or less than half the cost of horse plowing. Also saves on other farm work. Compared with other outfits, an Avery saves the wages and board of a plowman. Whether you are a man or a boy, you can run an Avery Outfit all alone.

Avery Tractors make Power Farming a success on small, medium or large farms. The 12-25 H. P. plows 10 to 12 acres per day and just fits the small size farm—the 20-35 H. P. plows 15 to 18 acres per day and is just right for a medium size farm—the 40-80 H. P. plows 25 to 30 acres per day and is built for big farms.

Because Avery Tractors are "Light-weight" they will work on any ground in condition to be worked with horses. The 12-25 H. P. weighs less than 7,500 pounds, the 20-35 H. P. less than 11,500 pounds, and the 40-80 H. P. only 20,000 pounds. Also the simplest tractors built. Burns gasoline or kerosene.

Sold Under the Avery Mutual Benefit Selling Plan

Avery "Light-Weight" Tractors and "Self-Lift" Plows are Sold on Approval and Fully Guaranteed. At low prices—only \$1,200 for 12-25 H. P. Tractor, \$2,000 for 20-35 H. P., \$2,650 for 40-80 H. P. Backed up by a large and reliable company.

Write—Get Facts Write at once for new 1913 Avery Tractor and Plow catalog, with Free Power Farming Facts and full information about Avery Tractors and Plows and the Avery Mutual Benefit Selling Plan. Address **THE AVERY COMPANY, 1008 Iowa St., Peoria, Ill.**

Also manufacturers of Avery Undermounted Steam Traction Engines, "Yellow-Fellow" Grain Threshers and Gasoline Farm Trucks.

Buildings Nearly Ready

Mail and Breeze Laying Contest Soon to Start

BY RALPH H. SEARLE,

THE Poultry Experimental Farm of Farmers Mail and Breeze is a strenuous place these days. The carpenters are busy erecting the laying house in which the laying contest is to be conducted, as well as the other houses that are necessary to make a fully equipped poultry farm.



B. H. Searle.

These houses are all being made in the most modern fashion, yet so simple that any man on the farm who is handy with tools can make them himself. Detailed descriptions and illustrations of each of the various houses will be given in this and succeeding issues of the Mail and Breeze.

The house which we illustrate this week is the long laying house. It is what is known as the "fresh air poultry house"—of a style which has been given careful tests even as far north as Maine,

matter which way he is going. It will be noted that the partitions are boarded up solid 3 feet high clear across and are boarded up solid to the roof to a distance of 3 feet from the back. This is done for the purpose of keeping the birds out of drafts both in the daytime when

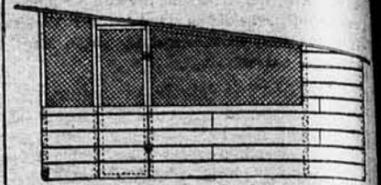


Fig. 3—One of the 12 interior partitions with spring-hinge door.

they are scratching and at night when they are on the roosts.

A house of this style and size, without the inside partitions, which are unnecessary for the farm, can be built for about \$250, and it will comfortably house an entire satisfactory manner, a farm flock of 200 hens.

Later further details of the proposed experiments will be given together

and illustrations of each of the various houses will be given in this and succeeding issues of the Mail and Breeze.

The house which we illustrate this week is the long laying house. It is what is known as the "fresh air poultry house"—of a style which has been given careful tests even as far north as Maine,

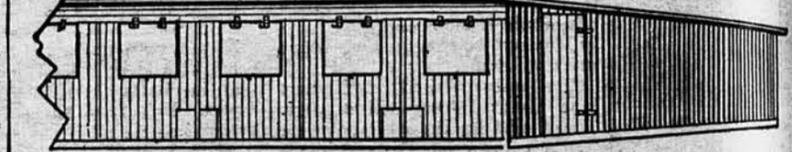


Fig. 1—A section of completed laying house which is 60 feet long and 14 feet wide.

and has proven to be the most practical poultry house in existence.

Poultry kept in this style of house is more healthy and vigorous, freer from diseases and lays more eggs during the winter months, than those kept in the close houses, with glass windows, which have for so many years been considered the proper kind.

The laying house on the Mail and Breeze Poultry Farm when completed will be 60 feet long, 14 feet wide, 7 feet high in front and 5 feet high in the rear.

Fig. 1 shows a section of the completed house. It will be seen that the house is boarded up solid to a distance of 3 feet from the ground. In each 5 foot section of the house, there is a muslin curtain 3 feet square, hinged at the top and swinging inward. These curtains are swung back inside and fastened to the roof except on very stormy days and very cold nights.

Fig. 2 shows the frame of the end of

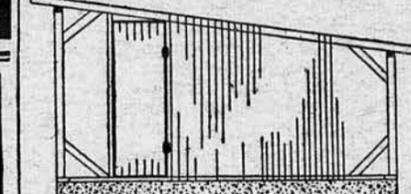


Fig. 2—Detail of frame construction of end of laying house showing concrete foundation.

building. The building is set upon a cement foundation, thus making it rat and vermin proof.

Fig. 3 shows one of the interior partitions used in dividing the house into 12 pens, in which will be kept the 12 pens of birds in the laying contest. The door on each of these partitions will be hinged with two-way spring hinges so that it will swing away from the attendant, no

with the plans for the brooder house and incubator cellar, which will form an important part of the equipment.

How Geese Are Reared

Mr. Editor—Geese are grazers, and too much grain is not good for them. To insure fertile eggs they should have an abundance of green food and access to a pond of water. If there is no pond at hand, a tub set into the ground level with the surface will answer the purpose. For the first two or three days after hatching goslings should have nothing but grass and water. This is why early hatches will not do so well, since they must be fed three or four times a day, and there is danger of over-feeding. They should not get into water until well feathered out, as they are easily chilled. Oats, rye, peas, turnips, beets, apples, rape and cabbage are eaten greedily by the goslings.

N. M. Latham, Kan.

"Such Wonderful Results."

Please find check for a poultry ad to be inserted in Farmers Mail and Breeze eight times. Please notify me when the eight times are out for I want to give you another ad. then. I had such wonderful success last year through my ad. in your paper that I thought I would try again. I sold so many eggs that I had to cancel a great many orders and send the money back. I never saw anything like Farmers Mail and Breeze for results.

Gus Schabeck, Esq.
Breeder of Barred Rocks, Atchison, Kas.
Jan. 25, 1913.

J. W. Yeager, Winfield, Kan., writes: "My wife thinks the Mail and Breeze is the best paper we take and has me read it to her."

How Keep Down Living Expenses?

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

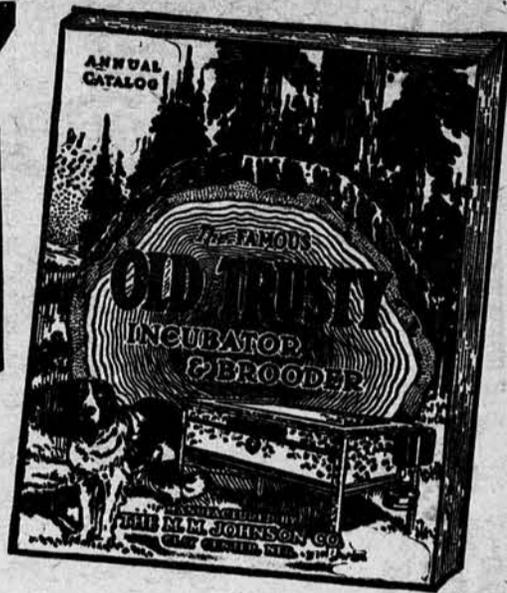
How shall we keep down or lower expenses?
Will a family garden help?
Can we manage better?
Can we buy to better advantage by buying in quantities?
Should we put up more of our own supplies, such as meats, canned goods, etc.
Give your experience, suggest some plan or way that has helped you. Your name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

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

JOHNSON'S FIRST "AD"

**M. M. Johnson
Engineer At the Mill
Makes Incubators**

**It is all told about in this free book,
along with many other experiences
and facts that will show you how
to make the most money in the
poultry business.**



The Old Trusty Book For 1913—Is Ready

Folks who have read previous Old Trusty Books don't need to know more—they will send at once for the new edition. Every chapter is worth real money to every poultry raiser. The "Ups and Downs of an Inventor" is the most interesting, most entertaining and most cherished bit of history ever written about incubators and poultry. The whole book is home written, home made and home printed. It is plain and practical—contains the facts learned in 17 years of experience during which time Johnson has made and sold over 400,000 incubators and received more than a million letters from his customers.

It's a Book that Will Help You—Tells Real Facts—Contains No Theories

Johnson landed in Clay Center with 65c in his pocket. Went to work in a mill for \$1.50 per day. Made incubators in spare time in boiler room. Old Trusty was a big success from the beginning. Neighbors all wanted it. Johnson smashed a lot of old ideas by practical, sensible demonstrations. Soon made artificial hatching popular and easy for everybody. Kept quality up and price down always. The facts are all told in the book. It is written in a simple way—easy to read and easy to understand. It tells how the Old Trusty is made and why it is made that way. It shows you a lot of ways to save money, and prevent trouble. It tells how to make a success right from the start without experimenting. It is plain and honest throughout. Shows hundreds of actual photographs sent in by owners of Old Trusty incubators—gives their names and addresses so you can write to them. Contains no guesses or theories. Every page is a sane, sensible sermon that will make you a better poultry raiser. You ought to read the Old Trusty Book. It is sent free to all who write for it. If you don't order an Old Trusty it won't make me feel bad. But nine out of twelve people who ask for my book buy the Old Trusty. That's because they are convinced of Old Trusty supremacy and I let them prove it at my risk.

On this page you will find some reasons why the Old Trusty is such a good incubator and why it costs you less than \$10. But write me that postal now and I will send you all the reasons. When you get the book—if you read it and say it didn't help you—return it and I will pay you the postage and for your time. Address

**Johnson—Incubator Man
Clay Center, Neb.**

Over 400,000 People Are Making Money With JOHNSON'S INCUBATORS

Johnson's Incubator has been on trial over 400,000 times. And it has made good. Think of it. 400,000 people, in every climate, in all parts of the country and under all sorts of conditions—have each made a success with the Old Trusty. Even boys and girls do it. Don't you think you can do it? Don't you think the Old Trusty is the Incubator you want—the incubator that will make the most money for you? You take no risk in proving it. I give you

**30 to 90 Days Free Trial
10 Year Guarantee**

That is the basis on which all Old Trusty incubators are sold. If you can't make a success with it I would much rather send your money back to you than have you disappointed. No one can say that Johnson ever gave anything except a fair, square deal. Send a postal for 1913 Old Trusty book, and read the whole story. Write me a postal card now.



**1913
PRICE
LESS
THAN \$10**

**Freight
Prepaid
East of
Rockies—
That Far If You
Live Beyond**

OLD TRUSTY

The Incubator That Gives You The Most For Your Money

You can pay any price you like for an incubator. The Old Trusty is made of the best materials by my big family of factory employes. It is made for folks who want the best and are willing to pay a reasonable price to get the best. I could cut my price down to \$6.99—sell twice as many incubators and make more profit on each—if I wanted to skimp on materials and workmanship. The Old Trusty is built to hatch eggs successfully for as long as you will want it. Read this brief description. The whole story is in the Old Trusty Book—free.

How It Is Made

Case—clear California redwood—powder-dry, without check, warp or knot in a thousand feet of it—no odor—heat and moisture do not affect it. Covered with first grade genuine asbestos, then covered with handsome galvanized sheet metal—making it the strongest, most substantial and most practical incubator case ever constructed. Made the same all over, top, bottom, sides and all—not skimped on the bottom.

Johnson's patented heating system is so simple that folks are surprised it wasn't thought of sooner. Heated water is discharged into main pipes at end opposite lamp—pipes made just the right size so that every part of the egg tray gets

the same even degree of heat. Tank made of pure, heavy copper with crimped joints that don't leak—tested 30 pounds to square inch to keep defective tanks from leaving factory.

Regulator that makes all others look complicated and unreliable. Double wafer—out of the way when moving trays. Single adjusting nut sets it. When once right it stays right. No levers, or other "do-dads" to bind and get out of order or spoil the hatch. Top of incubator is clear—can use it to rest trays on when turning eggs.

I use the Edward Miller Sun-Hinge Burner because I have never made a better one and no one else has. Don't let any "special" burner influence you. I also use absolutely the most accurate thermometer made. It is guaranteed by the manufacturers and by me. I have seen cheaper thermometers that were wrong as much as seven degrees. That's why I make sure of accuracy by using the best. A good lamp and good thermometer cost more but they mean success and success is worth the slight extra cost.

Every part of the Old Trusty is made in the most careful way, of the best materials. Honest all through—just as Abraham Lincoln would make it if he were my partner in business. We make good machines and tell the truth about them even if we don't know how to use flowery language. Don't you want the Old Trusty Book? Be sure to mail postal card now.

Caponizing Not Difficult

A Self-Taught Caponizer Gives Her Experience

BY MRS. EDWIN BROWN, Wabunsee County
Written for Farmers Mail and Breeze.

I HAD read of the profits in capons for six years. I had thought, and even dreamed about caponizing, but did not try it myself until last summer. Now I shall sell no more cull cockerels as broilers so long as I can make \$1.25 clear above expenses for each bird, by caponizing. City folk like the capons because they furnish the choicest of meat.

I raise the S. C. Buff Orpingtons and think they make the best capons because of their full breasts. This is very desirable in a capon. The cockerels should be caponized just as soon as they can be distinguished from the pullets, when they will weigh from 1 to 1½ pounds. After a cockerel begins to crow and his comb reddens up he is too old to make a capon. Previous to the operation the birds should be starved for 36 hours.

The instruments are not expensive and may be bought from any poultry supply house for from \$2.50 to \$5 per set. There are four tools—a knife to make the incision, a spreader to keep the incision open while working, a probe with a sharp bent point for pushing the in-



The capon makes a better mother than a hen as they are quieter. This one raised four broods in 1912.

testines aside to expose the organs, tearing the thin membrane about the body cavity, and the fourth is a pair of forceps for removing the testicles.

A special table or barrel will do for an operating table and should be tipped toward the light. The bird is pinioned by looping weighted cords over the legs and wings. I find it best to perform the operation from both sides, although it can be done from one side. A few feathers should be plucked from in front of the thigh, laying bare a small space just over the last rib. The surrounding feathers should be moistened to make them lie down.

Locate the last two ribs with the forefinger of the left hand, then pull the



Pair of 10-pound capons, properly dressed. Produced by George Beuoy, Cedarvale, Chautauqua county, Kansas and sold by him on his local market at 25 cents per pound.

skin as far toward the thigh or hip as possible. This is done so that when the operation is finished, the incision in the skin will not be directly over the open-

ing between the ribs. Pinch the skin with thumb and forefinger to drive out as much blood as possible, then make the incision, being careful to follow the



A 10-pound capon 7 months old. Their combs stop growing and they no longer crow.

line of the space between the ribs. If the bird has been properly starved there will be no danger of cutting the intestines. Make the incision about 2 inches long and insert the spreaders, being sure that each hook of the spreader is against a rib, then spread the opening as far as possible without tearing the flesh.

With the hook end of the probe tear away the thin, papery membranes that cover the intestines, push the intestines aside and the testicle will be in plain sight. Just above it are the kidneys. Passing over the kidneys is a large blood vessel which constitutes practically the only source of danger in the whole oper-

ation. Having grasped the testicle, turn the forceps one way then the other, then round and round, and pull them out gradually. I find a small pair of scissors best for cutting off the testicle. If it should pull off before cutting it, as sometimes happens, one can reach in and catch the rope with the point of the scissors, thus preventing a "slip."

Next remove the spreaders and allow the skin to cover the opening between the ribs. Every capon should be marked with a toe punch. In 10 days there will be nothing left but a shiny scar. Sometimes a "windpuff" will appear later. If so, allow it to remain about four days, then clip off a small place and let out the wind.

After the operation the birds should be put in a pen by themselves and fed and watered at once. Do not feed heavily at first. At the end of a week they may be turned out with the other chickens.

If you have taken the organs out clean, the bird will become comparatively quiet and docile. Their combs will stop growing and they no longer crow. The hackle, saddle and tail feathers will grow long and shiny. A capon will make the best kind of mother for chicks, hovering and caring for them much better than any mother hen would. A capon will even cluck and scratch for the little fellows. I expect to raise all my incubator chicks with capons this spring. There is not a hawk or crow that flies that can get a chick away from a capon.

As meat fowls capons make the finest, tenderest quality of meat one can find on the market. The best time to market them is in the last half of January and February. The heavier they are the better. Our closest established market is Kansas City, where the prices paid range from 22 to 24 cents per pound. On the south shore of Massachusetts about 80,000 capons are grown annually, and marketed in Boston as "South Shore soft roasters." Occasionally the retail price paid reaches 50 cents, while 35 and 38 cents are not unusual prices.

R. I, Maple Hill, Kan.

More Chicks



Bigger, stronger and healthier, because hatched under right conditions. Send for catalog of the model automatic.

QUEEN Incubator

25 Points of Superiority

Sells at the lowest possible price on liberal trial plan. The Queen is used by successful poultry raisers everywhere. My book tells you all about it. Your copy is free. Send for it now, today.

F. M. WICKSTRUM, Incubator Man
Box 8, Lincoln, Neb.



This is the latest improved incubator and by reading our catalog you will discover it has features never before applied to an incubator. It is fireproof, has a sliding lamp that holds oil enough to run ten or twelve days, and it is a perfectly sanitary machine, as the top raises and all of the inside can be taken out and cleaned. Every piece of lumber in it is kiln dried. If your hardware dealer does not handle The Safety Hatch send his name and get free catalog.

One Minute Washer Co., El Reno, Okla.

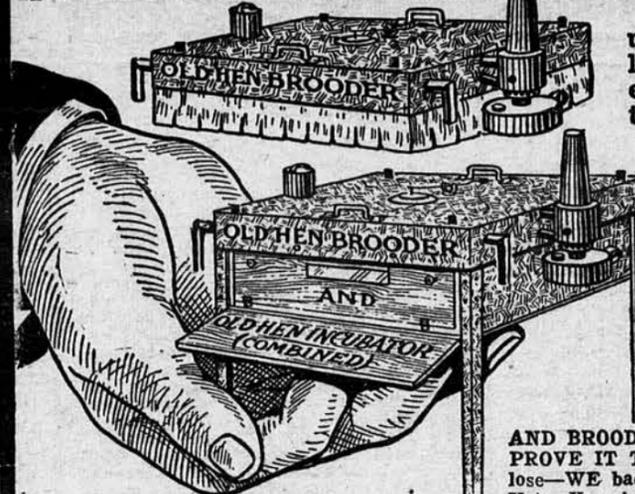
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Big Money in Auto Business
Travel, get good pay, run garage or auto livery. FREE illustrated book tells all. You can learn in a few weeks at home or in our shop. Write for information today.

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Largest and Best Equipped School in the World.
(Conducted by OLIVER HOGAN)
2102 East Fifteenth Street,
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The ONLY PRACTICAL COMBINED INCUBATOR and BROODER MADE!

IF YOU BUY OUR COMBINATION YOU GET BOTH WE SELL EITHER SEPARATELY



Designed and combined especially for farm use. Works better than the old hen. Requires less care. Varies less than two degrees during entire hatch. Keep oil in the lamp, water in the pipes and it can't go wrong.

More reliable than any incubator or brooder on the market. Heat is the question and we have twice the necessary amount for any condition. Perfect regulation. Can't over-heat. More heat than you need with the lamp at half blaze. "THINK OF IT!!" We have so much heat that we separate the heat chamber from the egg chamber with a heavy heat distributing blanket. We regulate the temperature ABOVE the egg chamber. This absolutely prevents any cold air currents from passing over the eggs, or chicks, and guarantees a good hatch and a healthy brood. That's the secret of the great success of this wonderful little machine. You need never sit up nights.

You want the most reliable. You want the most successful. You want the easiest to operate. In the OLD HEN INCUBATOR AND BROODER you get what you want. We HAVE IT AND WE PROVE IT TO YOU BY OUR FREE TRIAL OFFER. YOU can't lose—WE back our guarantee. We can't lose. It has not failed. Yet. Here is the secret!!!

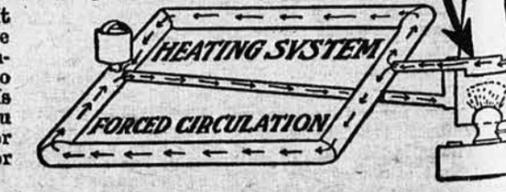
WE GUARANTEE

that our method of heating and ventilating ABSOLUTELY SOLVES THE MOISTURE QUESTION. There is NO BETTER INCUBATOR MADE and we have the BEST AND ONLY BROODER made that is ABSOLUTELY PRACTICAL and SOLD UNDER A POSITIVE GUARANTEE. Our circulating system, supplied with abundance of heat, forces the water around the outer edges to extreme points of the brooder thus warming the hover blanket to the same temperature at all parts. It hovers the chickens like the OLD HEN.

THE OLD HEN BROODER sits on the floor or ground. It is not a box. No chance to crush chicks. Has no "Stage Plank" entrance. Chicks come and go at will. Perfect ventilation, no foul air, no filth to clean out. Adjustable to hover any size chick. Hovers one as well as a hundred. Is simple, durable and safe. Fire proof. It is just what you and all chicken raisers have been wanting and dreaming of for years. Your dream is now realized. We have it. Write for descriptive circulars, prices, etc.

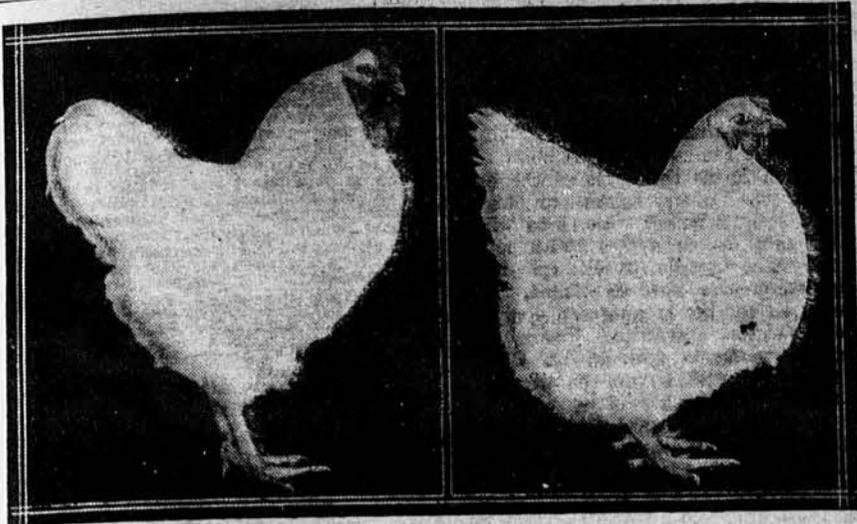
THIS LITTLE HEATER TANK

is placed directly over the flame without interfering with the lamp draft, thus making it a powerful supplementary heater. The water is first heated in the circular boiler surrounding the blaze and intensely heated in its passing through the small tank. This quickly produces a forced circulation, driving the hot water around the outer edge to the farthest parts of the machine.



THE OLD HEN INCUBATOR AND BROODER CO.

1414 Georgia Street, Louisiana, Missouri



These Wyandottes Show the Superiority of the Purebred.

How Egg Profits in Kansas May Be Greatly Increased

(Continued from Page 9.)

It should be considered a sign that she is ready for market.

The Egg Reproduces the Hen.

When a hen lays an egg she reproduces herself. When one has hatched his breeding stock under hens from eggs laid by well matured hens, has fitted them carefully for the breeding pen, has mated them with a purebred male bird whose mother laid more than 200 eggs and whose paternal grandmother laid the same number, has eliminated all but the vigorous hens, he has simply put his factory in running order.

The egg, which is the product we expect the hen to manufacture, is made up of three classes of materials. There are fat, found largely in the yolk, protein, most of which is in the white of the egg, and ash, which goes to make the shell. The ash goes to make the bone. The protein is used in making lean meat, feathers, toe nails, etc. The fat is used in keeping the body warm, furnishing energy and storing up body fat. If we are to get eggs we must first of all furnish the hen with the materials she needs for her body, and then see that she has what she needs for making eggs.

Don't Feed Too Much Corn.

There is no grain that we can offer the hen that will be eaten with more relish than corn. Corn is a fattening food than which there is no better, but hens loaded down with fat lay few, if any, eggs. When corn alone is fed only the material for the yolk is furnished. If the hen lays at all the eggs are likely to be soft shelled because she has nothing to make shells out of. Every hen should be fed corn, but most hens get too much.

To secure protein to keep the feathers growing and the muscles strong, as well as furnish albumen for the eggs, such grains as wheat and oats may be fed. But these alone will not furnish protein enough. Probably the best, and in the long run the cheapest source of protein is cooked meat which is sold under the trade name of "beef scrap." This can be secured from any of the large packing houses or from any poultry supply house. If the hens that have the run of the corn crib had beef scrap to even up on there would be several millions of dollars more of egg money brought into Kansas than there is now.

Then to make the shells the hen should have something in the form of lime. About the most economical way to supply this, is to keep oyster shells before the fowls all the time.

You may feed a hen corn, beef scrap and oyster shell, which represent the three classes of foods, and get eggs for a while. But in time it will become an old story. A hen is human enough to want a variety. It pays to give her what she wants because she gives back more eggs in return. In the spring she can get her protein in the form of worms or a hundred different kinds of insects. In furnishing her protein don't keep her too long on beef scrap. Vary it now and then with oil meal, gluten food, skim milk or cottonseed meal. In

the spring she has her choice of as many kinds of green food as there are plants that grow. Green food acts as a mild laxative. In the winter time give her some mangels every day varied now and then with sprouted oats, cabbage or carrots. There is no better way of using light oats than sprouting them. It does not cost much to put a sprouter in the cellar so you can sprout oats all winter. It will pay for itself the first season.

It has been found by careful experiment that more eggs can be secured if we give the hen a part of her food ground fine. Such food can be secured in the form of mill by-products quite reasonably. This makes up what is called a mash and may be wet or dry. It gives as good results fed dry and takes less labor to feed it. Where used dry it will be found convenient to feed it in hoppers.

Feed Whole Grain and Dry Mash.

More hens are overfed than underfed. If one must do one or the other it is better to underfeed than overfeed. It is almost as easy to feed just enough. The birds prefer the whole or cracked grain to dry mash, and the amount of dry mash they eat must be regulated by the amount of whole grain they are fed out of hand. In the following ration it is expected the hens will eat half as much dry mash as whole grain: A mixture of 10 pounds of wheat, 10 pounds of cracked corn and 5 pounds of oats is fed out of hand and in a deep litter of straw night and morning. The morning feed should be light and scattered over every foot of floor space. At noon the dry mash hoppers should be opened and green food fed. Give as much green food as the birds clean up in half an hour. At night feed the grain in the litter, giving them all they will scratch out and clean up before going to roost.

The dry mash may be composed of 4 pounds wheat bran, 4 pounds bolted oats, 2 pounds wheat middlings, 1/2 pound of charcoal and 2 pounds of beef scrap. Besides this it would be well to let the hens have all the milk they will drink. It should be well soured or perfectly sweet and always fed one way or the other.

"We surely enjoy the Mail and Breeze."—Mrs. O. H. Winegar, Sligo, Colo.

Here's My Remarkable X-Ray Incubator, That Uses Only One Gallon Oil to a Hatch

Requires Only One Filling of the Lamp

J. H. Kate,
President
of the
X-Ray
Incubator
Company.

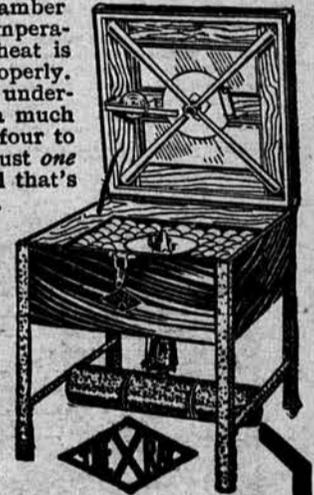


Now shipped direct to you from my big X-Ray Factory. No agents—no dealers. Guaranteed to please you. Orders filled same day received. I prepay freight anywhere! Quick Service!

Here's the only incubator built on the right principle with the lamp underneath—square in the center—and not on the side as with old-style machines. With the lamp underneath on my X-Ray

Incubator an even, regular temperature is kept all the time, every part of the egg-chamber is at proper hatching temperature—because the heat is distributed evenly and properly. In placing my oil tank underneath, I am able to use a much bigger one—it holds from four to eight quarts of oil—but just one gallon (four quarts) are all that's needed for an entire hatch.

I absolutely guarantee this! And this big tank just has to be filled only once—not every single day as the old-style machines do. Now my automatic trip—an exclusive patented X-Ray feature—is the watchdog on your oil bill. It is really a most wonderful regulating device, cutting down the flame at the burner when the egg-chamber gets too hot—and thus saving you all that excess heat that goes to waste in the old-style lamp-on-the-side machines. You never have to touch the regulator on my guaranteed-successful



X-RAY Incubator

"Built Different From All Other Machines"

Why? Because it is automatic and takes care of itself! The door of my X-Ray Incubator is at the top, and has two double-glass panels—so you can see the thermometer at any time by looking through the glass. You don't have to raise the lid and let chilly air in on the eggs. It is not necessary to remove or lift the egg-tray from my X-Ray Incubator during the hatch. Ventilate by simply raising the lid. So you save the time and labor of removing the egg-tray in order to turn or air the eggs. You save the danger of dropping a tray of eggs—because tray is not removed. You save getting down on your knees in front of machine and wasting matches trying to read the thermometer through a side door. You save all uncertainties in automatic regulation. My X-Ray Indicator shows whether heat is right or wrong—my thermometer is the most accurate and most simple to read of any ever placed on an incubator.

Get My Factory-Direct Price—
Get My New Free X-Ray Book

Learn about both my machines—my X-Ray Incubator and my X-Ray Brooder. Brooder has same perfect heating system as X-Ray Incubator. It is easiest to clean—has best lighting and ventilating systems. Four windows—all slide—to ventilate. Makes a better home for little chicks than the old hen herself. But first get all facts about my X-Ray Incubator. Please bear in mind that I positively guarantee to save you three-fourths of the oil you would have to use with one of the old-style machines. Please remember also that my X-Ray Incubator is the only one built on the proven principle the lamp underneath. The X-Ray in your home means less of handling, less oil, less heat generated, absolutely no waste, no filling of the lamp during the entire hatch, no danger of "cooking eggs"—and an even, regular hatching temperature in the egg-chamber all-the-time. Instead of wasting the excess heat as all the old-style machines do—the X-Ray controls it.

Free Book No. 47 tells you all about X-Ray Incubators and Brooders. Just drop me a postal or a letter today and ask me for this valuable book. I'll send it right back to you by return mail—and you'll profit both in dollars and experience by having done so. When you write, please address me personally. Sincerely yours,

J. H. KATE, President
X-RAY INCUBATOR CO.



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The Oil Saving Toil Saving INCUBATOR

Saves three fourths the oil and nearly all hatching work. Stop burning 3 to 5 gallons to a hatch—the Rayo uses one. Quit being a drudge with old-style, lamp-on-the-side machines. Fill Rayo oil tank once—the Rayo completes hatch without trouble, muss or worry. Simple—economical.

One Gallon to a Hatch. One Filling to a Hatch.

See eggs and thermometer thru double glass top, which raises for airing, cleaning and turning eggs. Lamp under egg chamber gives perfect radiation. Double-water thermostat acts on flame—produces exact heat needed, none thrown away. Automatic ventilation. Turns eggs semi-automatically without touching tray. Clean lamp without removing chimney or tank. Oil tank holds 5 quarts, month's supply. Strong redwood case; covered with steel, enameled like mahogany, making it fire proof and handsome. Matches every fertile egg. Six years on the market—thousands of testimonials from enthusiastic, satisfied users. RAYO hatching chart and \$1.50 Tycoos byrometer FREE. Low direct prices—freight prepaid. Ask for Free Catalogue No. 13.

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- Chapter III—Deep-Litter Feeding Experiments of 1912;
- Chapter IV—Quick Maturity in General-Purpose Fowls;
- Chapter V—Ages and Weights of Chickens for Table Use;
- Chapter VI—How to Establish Prolific Egg-Yield Flocks;
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CYPHERS Incubators and Brooders

are the right poultry equipment for real results—uniformly high percentage hatches of chicks that live—and no heat or moisture troubles. You can't afford to experiment! Be rightly prepared—get the whole good out of your 1913 opportunity. But

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It tells also about Cyphers Company's "Free Bulletin and Personal Letter Service" which keeps us in constant touch with our customers—helps them win success. Write today—244 big pages—600 illustrations.

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POULTRY LIFE INSURANCE ZENOLEUM

KILLS LICE AND MITES

DISINFECTS the Hen House, Brooder and Incubator. CURES Roup, Scaleg Leg, Canker, Cholera. PREVENTS White Diarrhoea

Endorsed by 50 Experiment Stations

Every person interested in the causes and symptoms of all poultry diseases should read CHICKEN CHAT—Free if you ask for it. It names diseases, and suggests methods for curing them, and offers ideas for preventing contagion and infection.

The most eminent poultry authorities in the world have contributed their stories to this book. An interesting report is made by the Ontario Government poultry expert, Professor Graham, in regard to his successful handling of incubators, and the prevention of white diarrhoea in his hatches.

Ask the Druggist or Poultry Supply Man

At dealers 8 oz., 25 cts; Quart, 50 cts; Gal., \$1.50
Postpaid 8 oz., 35 cts; Quart, 65 cts; Gal., \$1.50

The ZENNER DISINFECTANT CO.
327 Lafayette Ave., Detroit, Mich.

Hatch-All Incubators

They save worry. Help you make more money. Strong, durable. Even in heat, pure air, simple to run. Beginners get big hatches. Write us for proofs and learn to add to your income. Handsome catalog free.

HEBRON INCUBATOR CO., Box 22, Hebron, Neb.



Breed Layers by Trap Nest

How a Good Trap Nest May be Made at Home

BY M. K. BOYER

Written for Farmers Mail and Breeze.

WHAT we most wish to know is not how many eggs a hen will lay in a year, but how many she will lay in the winter when the prices of eggs are the highest. From the latter stock we breed.



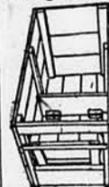
M. K. Boyer.

Trapnests have been the guide, and these are used as a rule from January 1 to June 1. And again from October 1 to the end of the year. Occasionally they are used in some pens the entire year, but that is done only where a special test is made of a new selection or a new breed.

During the summer months the traps are discarded, and only the open nests are used. By selecting our best cold-weather layers and breeding from them, we each year increase our winter-egg supply. It is a fact that our hens have, in consequence of our careful selection of winter layers, become poor summer layers, a condition we would rather have than the great year around records and a poor constitution in consequence.

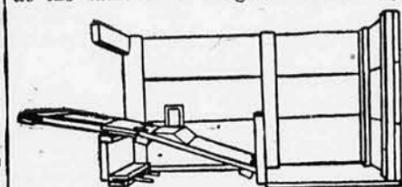
A Help in Breeding Layers.

By the use of traps and careful selection of the breeding stock any breed can be brought up to do prolific work. We tried the experiment with Brahmas, and as a result have a strain that is doing remarkable work. One bird as a pullet, laid 100 eggs from January 1 to June 1. As a 2-year-old hen she did not begin laying until February 6, but laid 14 eggs from that date to the end of the month. We mention this individual case to show the progress that can be made in careful trapnesting and in a judicious selection of breeding stock, even with Brahmas—so generally classed as poor and indifferent layers.



View from above.

One great danger lies in the ambition to secure 200-egg layers in a flock. The flock is quite frequently forced by condiments, meat and other highly stimulating articles of food. While it will, in many cases, produce the eggs, it will at the same time bring about an early



Open—Waiting for Biddy.

decline. But by working for a strong winter crop we get the bulk of our eggs at a certain season and the hen has the rest of the season to recuperate.

Another method adopted by some of those ambitious for great results, is to hatch the eggs from one or more phenomenal layers and mate up the offspring, brothers and sisters, and repeating for two or three years. We do not know of a surer way to deteriorate the stock than with such inbreeding. It may bring good results the first year or two, but it cannot hold out.

The Maine Style of Trapnest.

The trapnest used by the Maine Experiment station is 28 inches long, 13 inches wide and 16 inches deep without front, end or cover. A division board, is placed across the box 12 inches from the rear end and 15 inches from the front end.

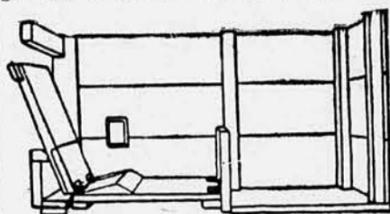
The front portion of the nest has no fixed bottom, but instead there is a movable treadle hinged at the back. The rear section is the nest proper. When the nest is open, the door extends horizontally in front.

The side strips of the door rest on another strip 1 1/2 inches wide, beveled on the inner corner, which extends across the front of the nest. This strip is nailed to the top of a board 4 inches

wide, which forms the front of the box-nest proper. To the bottom of this is nailed a strip 2 inches wide, into which are set two 4-inch spikes, with heads cut off. The treadle rests on these spikes when the nest is closed. The hinges used for the treadle and door are narrow, 3-inch galvanized butts with brass pins made to work easily. Hinges that will not rust should be used.

A hen about to lay steps upon the door and walks in toward the dark back of the nest. When she passes the point where the door is hinged to the treadle, her weight causes it to drop, and at the same time pulls the door up behind her. It is then impossible for the hen to get out of the nest till the attendant lifts door and treadle and resets it.

The nest has no locks or triggers to get out of order. Yet, by proper bal-



Trap Sprung, Door Closed.

ancing of door and treadle it can be so delicately adjusted that a weight of less than 1/2-pound on the treadle will spring the trap.

Hens Must Have Leg Bands.

The trapnests are not made with covers because they are used in tiers and slide in and out like drawers. They can be carried away for cleaning when necessary. Four nests in a pen accommodate 20 hens by the attendant going through the pens once an hour, or a little oftener, during that part of the day when the hens are busiest. Earlier and later in the day his visits are not so frequent.

The hens must all have leg bands, in order to identify them. A number of different kinds are on the market. To remove a hen, the nest is pulled part way out, and as it has no cover she is readily caught, the number on her leg band is noted and the proper entry made on the record sheet. After having been taken off a few times, the hens do not object to being handled.

DARN YOUR OLD STOCKINGS

with the Capital Handy Stocking Darner. Fits any sewing machine. Will darn a sock or mend a hole in a grain sack in five minutes. So simple a child can use it. Mail and Breeze 13 numbers and one Darner 35c; 26 numbers and one Darner 55c; 52 numbers (one year) and Darner for \$1.00. Address Mail and Breeze, Topeka, Kan.

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Brings you the world's most famous hatching machine—the incubator with 18 features of superiority—the one that's first in hatching more chicks, larger chicks, sturdier chicks—the most efficient and reliable machine under all conditions—the incubator that's backed by the strongest guarantee ever placed behind a hatching machine.

Don't delay but order a Successful today. You have everything in your favor by starting in the money-making poultry business with my

SUCCESSFUL INCUBATORS — BROODERS

(Life Producers) (Life Preservers)

I will even go so far as to give you a

\$25 Poultry Course FREE

with each machine. This course contains the most practical advice ever given. It tells how to produce poultry and eggs at lowest cost, explains how to sell them to best advantage; in fact takes you from the beginning to end of the business, revealing everything necessary to insure you a big success. Don't delay another day but write NOW for my

Successful Catalogue—FREE

My book tells you about various incubators and brooders. It gives you a good idea of the advantages of each, what size to buy, etc. It is free from all exaggeration and tells you just what steps need to be taken to make good money from a very beginning. Write NOW, before you lay the paper aside.

DES MOINES INCUBATOR COMPANY
348 Second Street Des Moines, Ia.

Note—Our famous little booklet "Proper Care and Feeding of Chicks, Ducks and Turkeys." Sent for 10c, but our big catalog is free. Send for it. Ask about our thoroughbred poultry and eggs for hatching at lowest prices.

GET IT

Before buying any kind of an incubator, at any price, for a body, get my 1913 offer on the IDEAL. Last year I broke the record for low price on efficient, dependable incubator. This year I'm going still further.

I'm Going to Pay the Freight—Give You An Unqualified Guarantee—Include Everything FREE.

When writing, tell me what size incubator you are interested in and I'll send you my BIG ILLUSTRATED POULTRY BOOK FREE. Describes Standard Breed Poultry, tells how to become successful and other valuable information. Easily worth \$1.00. Because it contains advertising, you get it FREE. Ask for copy.

J. W. MILLER CO., Box 368 Rockford, Illinois

Save Your Chicks

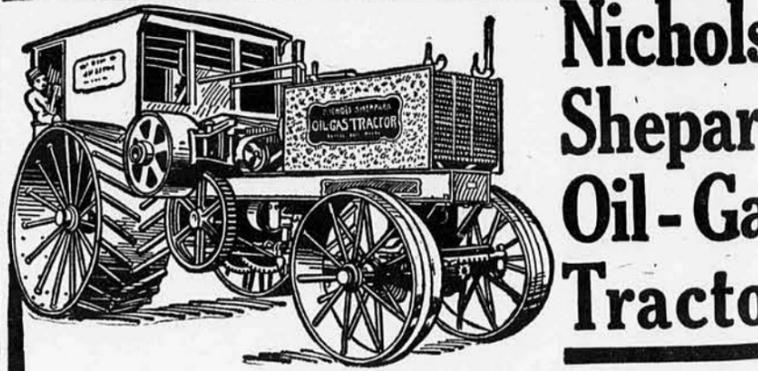
We can help you. Send us names and addresses of (10) poultry friends and receive our revised 32 page book on "White Diarrhoea, the Greatest Foe to Chick Life." This book makes Poultry Profits Possible; gives care and feeding of chicks and Turkeys; also cause and guaranteed cure for bowel trouble. Above book FREE postpaid for the names. Write today. F. K. REMEDY CO., 740 Second St., Arkansas City, Kansas.

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Does toughest job of tool grinding in a few minutes without hard work. This wonderful tool grinder with its rapid Dimo-Grit (artificial diamond) Sharpening Wheel makes 3000 revolutions a minute. No cooling by water or danger of drawing temper. Sharpens everything from a jackknife to a plow point.

LUTHER DIMO-GRIT GRINDER has metal frame, enclosed shaft-drive, dust-proof bearings, runs easy as sewing machine. 25 times faster than grindstone. Times better than emery. Special attachments such as forge, milk testor, rip saw, jig saw, latho, drill, etc., furnished. Fully guaranteed. Send for free book on tool grinding and liberal free trial offer.

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Burns Kerosene, Gasoline, Naphtha, or Distillate at all loads. Designed right. Strong in every part. Lots of power. Motion as Steady as a Steam Engine

A Great Threshing Engine

Will not shake itself to pieces. Does not drive through bevel gears. Guides as easily plowing as it does on the road. Get full particulars by writing for Oil-Gas Tractor Catalog No. 3.

Nichols & Shepard Company, Battle Creek, Michigan
Builders of the Red River Special Threshers and Steam and Oil-Gas Tractors

Here's What I'll Do—For Every Mail & Breeze Reader Who Writes Me a Postal Card

If you write me a postal card I will send you the most remarkable hatching facts ever published. I will make you the **lowest priced proposition you ever heard of.** I will show you how to make championship hatching records and prove to you that you can make **greatest success right from the start with a World's Championship Belle City—prove with facts and figures its money-making power.** I will send you the reasons why the Belle City won six World's Championships and why no other hatcher has equalled its records. Won't you write me? I will send you my valuable collection of

World's Championship Hatching Facts—FREE

I have been advertising in Mail and Breeze eight years. I am proud to number thousands of Mail and Breeze readers among my **195,720 customers,** which also includes the **U.S. Government.** The remarkably low price I am making this year is sure to bring me hundreds of new Mail and Breeze customers, because you can't buy a better hatcher or a better brooder, no matter what you pay.

I am proud of the fact that Belle City customers have won so many World's Championships; that the Belle City has won in contests totaling 10,000 hatches, against every other incubator made, many of them costing from two to five times more than my low price.

I am not asking you to take my word for it. Just write me and I'll put the facts, proof, figures and all information right in your home so you can judge for

yourself. I want to tell you about the folks who won the World's Championship prizes—send you their letters telling how they did it and what they think of the Belle City.

I want to tell you how to be in a position to win Championships yourself and the prizes and benefits that go with the title.

I will send you proof that will leave no question in your mind as to the remarkable hatching value of the Belle City. I will tell you the secrets of construction and the advantages in design, that have made my Belle City the **Championship Hatcher of the World.** I leave nothing unsaid. I tell you everything because I am proud of everything connected with the Belle City. I will send you all of these astounding facts, proofs and information so you can compare the Belle City, point by point, feature by feature, and record by record with any other incubator in the world.

I Want to Send You My 1913 Low Price On My 6-Time World's Champion Belle City Incubator

You have nothing to lose and everything to gain by writing me. Whether you buy of me or not, you ought to get my **portfolio of World's Championship Hatching Facts.** It will give you just the information you need to start you and keep you right in the poultry business. You will see where the World's Champion Belle City differs from others and why the difference is all in favor of the Belle City. I don't just say so—I **prove it to you by the records and the testimony of owners.** Isn't that the kind of proof you want? And I give you the chance to prove it yourself, in your own home—at my risk. I will show you positively that my 6-time World's Champion Belle City

Has Everything Worth Having In and On an Incubator

Yes, the World's Champion Belle City is a double-walled machine, with dead air space all over. Yes, it has the best self-regulator money can buy. Yes, it has a pure, cold-rolled copper heating tank and boiler. Yes, it has a real safety lamp. Yes, it has a big, roomy nursery. Yes, it has the famous "Tycos" thermometer. Yes, I furnish a strong egg tray, a reliable egg tester and a complete book of instructions. What more can any other incubator possess? What else can be put in or on an incubator that will help it hatch more eggs? Nothing! I've proved it. My World's Championships were won with 100 per cent hatches—by people who **never owned any incubator before they bought the Belle City.** What more can you ask? What more can anyone else give?

I will explain my manufacturing, selling and shipping plan, that cuts out all the frills and fancies, cuts out all the useless expense that makes it necessary for others to charge from two to five times my price in order to make a profit.

I'll tell you about my **World's Famous Belle City Brooder, too.** It's worthy of the Belle City Incubator. It is the only **Double-wall, Hot-water, top heat brooder made.** My price will surprise you.

Then, after you have read all the facts—should you decide to try a Belle City Incubator and Brooder—I will let you have them on

One, Two or Three Months' Test in Your Own Home. Money Back, if You Want It—And 10 Years Absolute Guarantee.

I want you to be the judge and jury and decide the merits of the Belle City by the evidence of your own eyes. I want you to try a Belle City outfit at my risk. I will send one to you on one, two or three months' home test. If it doesn't come up to what you expect—send it back and I'll return your money. If you decide to keep it, you are protected by my personal 10-year guarantee.

Write Me That Postal Now

All the information I want to send you is placed in convenient form—big type—lots of pictures—easy to read and easy to understand. **Don't miss my World's Championship Hatching Facts.** There is no charge, no obligation. You will be in the best position to select the right incubator and brooder, after you have read **Hatching Facts.** My sensational low price offer goes with my letter. Write me now—before you forget. Address Jim Rohan, Pres.

Belle City Incubator Company

Box P21 Racine, Wis.



1, 2 or 3 Months Home Test

10-Year Guarantee

Freight Prepaid Everywhere

Be Sure to Get My 1913 Low Price—Before You Buy Any Hatcher

Just Send Me a Postal Card

We Ship Quick From Buffalo, Kansas City, St. Paul or Racine



Mrs. Laura J. Clark of Illinois, winner in the Missouri Valley Farmer and Nebraska Farm Journal contest, hatching 140 chicks from 140 eggs.

Mr. George W. Black of Indiana, winner in Successful Farming's 1911 contest with two 100 per cent perfect hatches.

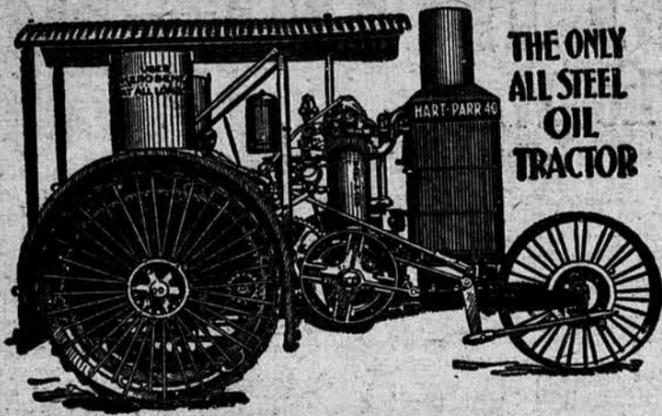
Mrs. M. J. Clifton of Oklahoma, winner in the 1910 Successful Farming Contest by hatching 140 chicks from 140 eggs, 100 per cent perfect.

Mrs. F. H. Osman of Ohio, winner of the Tycos' cup shown below, offered participants in contests by manufacturers of Tycos Thermometers.

F. E. Bennett of Ohio, winner in the 1912 Successful Farming Contest—with record of three 100 per cent perfect hatches.

You Can be a Winner. Let Me Tell You How.

"Tycos" Cup



THE ONLY ALL STEEL OIL TRACTOR

A MONEY MAKER ON CORN BELT FARMS

HERE is a general purpose farm tractor, built especially for Corn Belt farms. A tractor that really does make good on Corn Belt farms. It's the

Hart-Parr Oil Tractor

Not a cheap, over-rated, flimsily constructed machine that soon wears and tears itself to pieces, but a tractor designed right, built right and adjusted right in every particular. It's the only all steel oil tractor ever built. The frame, axles, drive wheels, gears, etc., all are of the highest grade steel. This construction gives you a tractor with 50% greater strength than any other. There is no dead, useless weight to drag around and waste power.

Wonderful Drive Wheels

The drive wheels are fitted with wave formed lugs, riveted to the tires. These lugs enable the tractor to work on soft soil that would force other tractors to stand idle. As soon as spring opens up, you can start plowing—then disc, harrow and seed in double quick time, while weather conditions are most favorable. Hart-Parr drive wheels work perfectly on newly plowed ground, and do not injuriously pack the soil.

The countless other farm jobs that this tractor will do quicker, better and cheaper than horses, makes it the biggest profit earner on Corn Belt farms of 160 to 500 acres. Not only is it an ideal outfit for every kind of traction work, but it also furnishes unfaltering power in the belt. It will drive separators, shellers, shredders, huskers, silo fillers—in fact, all belt driven farm machinery—with a steady hum that means more dollars in your pocket, with all hard drudgery entirely eliminated. In spare time, use the tractor for building good roads and add to your earnings.

No matter what kind of work you are doing, one man easily operates and cares for a Hart-Parr Tractor. It's a One-Man outfit. Uses cheapest kerosene for fuel at all loads. The engine is oil cooled.

We want to send every Corn Belt farmer our new 1913 catalog, fully describing our 30 and 40 BHP Corn Belt Tractors. Write for your copy today, and also ask for our literature on power farming costs.

HART-PARR COMPANY, 234 Lawler St., Charles City, Ia.

Success With Your Hatches

Some General Rules That Will Help You

BY W. A. LIPPINCOTT
Poultryman Kansas Agricultural College.
Written for Farmers Mail and Breeze.



LAYING down general rules for operating incubators which will apply to every kind of machine, is impossible. However, there are some general principles which if followed will aid in securing better hatches and stronger chicks. One person should be responsible for the handling of an incubator. When two persons divide the responsibility neither is ever certain what the other has done.

The incubator should be in a room where the temperature remains fairly constant. A living room is seldom a good place. A cellar will generally be much better if the machine is so placed that the sun can never shine on it, the wind blow on it, or the furnace heat or fumes reach it. If the cellar is damp so much the better.

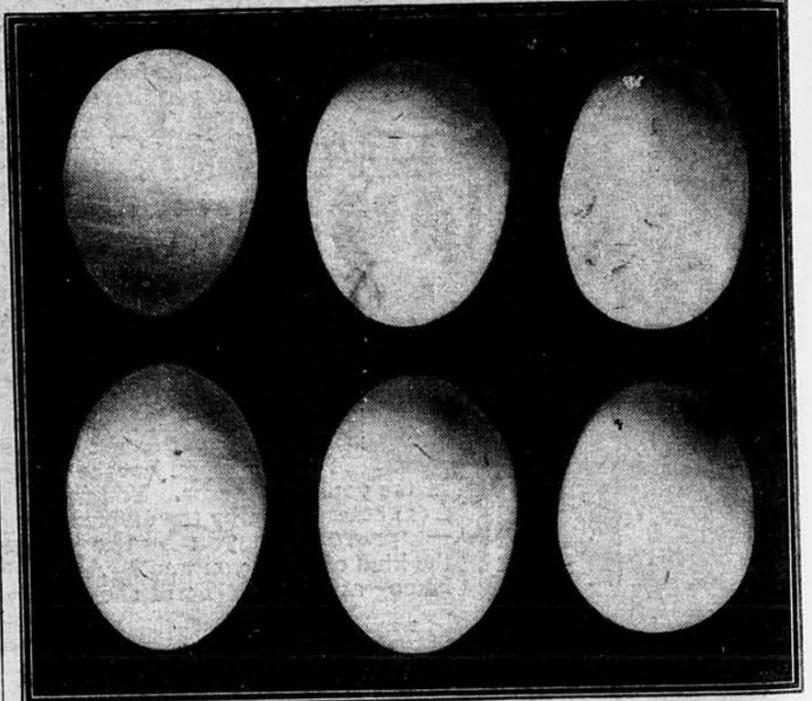
Before lighting the lamp the machine should be made level. Use a common spirit level and some small blocks placed under the legs of the machine. If one

operator. If the place is very dry sprinkle the floor liberally or place a pan of sand well soaked in the machine. If the room or cellar is damp the moisture question will care for itself.

How to Regulate the Heat.

Start out with a moderate flame. It will run up a little after it has burned a while. Then turn the thumb screw on the connecting rod of the regulator until it has 1/4-inch play. When starting a new machine visit it every two hours until the desired temperature, 102 degrees, is reached and maintained. It is wise to put an ordinary thermometer in while heating up. Most of the incubator thermometers do not register above 110 degrees and if the temperature should happen to run above that the thermometer will be spoiled. When a uniform temperature is secured the thermometer sent with the machine should always be used.

If you have a new machine, and find after two hours the temperature is way too low and the damper has been raised,



The kind of eggs to be avoided for hatching. Do not use eggs with soft, thin and porous shells, ridged shells, shells that are too hard, and ill shaped eggs. Choose eggs of medium size and length, not more than 10 days old and meanwhile kept at a temperature between 40 and 85 degrees. Never put a soiled egg in the machine.

side is high the heat will rise to that side and leave the other side cold. If the machine has been used before it should be thoroughly drenched inside with some good sheep dip. It will not hurt the eggs to put them in before the machine is dry provided the temperature is right. If there has been disease among the birds which laid the eggs, or if there has ever been any white diarrhea on the place, the further precaution of wiping off every egg with 92 per cent alcohol should be taken.

Care of the Lamp Is Vital.

Use the best grade of oil. Poor oil has spoiled many a hatch by smoking up the heater and choking the flues.

Before lighting the lamp pin two wicks together so that toward the end of the hatch the wick may not become too short and the lamp go out. Never start a machine without a fresh wick and fresh oil if the machine has been used before. Trim the corners of the wick a little so that the flame will be even and round and not have long points projecting at either end. Throughout the hatch the lamp should be kept scrupulously clean. If good oil is used and the lamp and heater are kept clean there is little if any danger of fire starting from an incubator.

The question of supplying moisture must be left to the judgment of the

loosen the thumb screw again and let the damper down as before. Leave about 1/4-inch play. On returning the second time the temperature is likely to be found up somewhere around 90 degrees. In that case it is best to be a little cautious. If the disk has not been raised increase the flame a trifle and leave the regulator alone. If the disk damper is up lower it and this time leave only 1/8-inch play. Repeat this process until the thermometer stands at 102 degrees when the thermometer bulb is even with the top of the eggs and the disk is 1/4-inch above the heater. Then leave the machine alone for at least 12 hours to see whether it can maintain the temperature.

Begin Turning the Third Day.

If it is all right put in the eggs and do not open the machine for two days. Take care of the lamp in the morning so that if the flame runs up it will do so in the day time when it will be discovered at least by noon. Wipe or scrape away carefully any charring on the wick and leave the lamp perfectly clean. Do not fill the lamp too full and if any oil is spilled see that the last traces of it are removed.

After a couple of days take the trays out and put on a table and shuffle the eggs gently with the hands. See that every egg is moved. It is not neces-

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Because we have an immense Natural Gas Well on our property which furnishes us absolutely free, power, heat, light, water, compressed air, forge and foundry fuel, and fuel for the test floor. Just think of it! Enough profit in itself for every engine we make. Do you still wonder why the famous WITTE ENGINE, for 43 years the standard of America, is sold to you at other manufacturers' cost prices.

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Share with us this immense saving and get a well tested engine—one with detached cylinder and valves, and all the improvements known to the trade today—an engine built by one firm for the past 43 years with a REAL 5-YEAR GUARANTEE. They run on any grade of fuel and are made in 64 styles and sizes. Write for Free Trial Offer and Catalog, stating size wanted.

WITTE IRON WORKS CO. 1546 Oakland Ave., KANSAS CITY, MO.

sary that they be turned clear over. A hen turns her eggs as many as five times a day. We should turn them at least three times, morning, noon and night. Before putting the trays back in the machine turn them end for end. If the machine turn them end for end. If one side of the machine is cold this will give all the eggs the same chance and bring an even hatch. If there are two trays, change them from side to side every other time you turn the eggs, turning them from end to end the other times. Always look at the machine before returning to see that everything is all right.

Cool the Eggs Once a Day.

On the third day cool the eggs. Place them on a table so that the edge of the tray does not extend beyond the table. Eggs beyond the edge of the table will cool too fast. To tell when the eggs are cool enough place them against the eye ball or lips. When they begin to feel cool put them back in the machine. Cool once a day until the 18th day. At first it will take a very few minutes to cool them. Toward the end of the hatch it will take 20 minutes to half an hour.

If the heat ever runs up, cool the eggs thoroughly at once. If done promptly this often serves to save a hatch that has been overheated. The eggs should always be handled and put back in the machine before the lamp is touched. Any kerosene from the hands getting on the eggs may seriously injure the hatch. If the temperature is off at any time the regulator should be adjusted before the door of the machine is opened. The door once open you can't tell anything about the temperature.

Careful Testing Important.

The eggs should be tested on the sixth day unless they are very dark shelled, when it will be necessary to wait until the seventh or eighth day before the germ can be seen. If a dark spider-like object is seen which floats about when the egg is revolved in the fingers, the egg is alive. If it is perfectly clear it is infertile. The infertile eggs may be hard boiled and fed to the chicks, when hatched. If there is a dark object that sticks to the shell or has a thin red ring around it you have a dead germ. This egg should be burned. If left in the incubator it will decay and make poisonous gases. If thrown in the yard it may communicate disease to the older chickens that eat it.

The temperature should be left at 102 degrees the first week, then it should go to 103 degrees, where it should remain until the eggs begin to pip. Then it should be kept at 103½ to 104 degrees. It should not go below 103 or above 105 while the chicks are hatching. Do not open the machine after the eggs begin to pip until the hatch is well over. Watch the temperature closely for the chicks give off considerable heat and the temperature may run up. Too great a change will be fatal to the hatch. Allow the chicks to remain in the machine without food or water for 48 hours. It takes this long for them to use up the yolk material.

If the eggs have run strong in fertility and start to hatch well and for some reason become checked the rest may sometimes be brought out by laying over them a woolen blanket wrung out in hot water. Any chick helped out of the shell in any way should be marked and never used as a breeder.

Trying Hard to Save the Birds

One great cause of the growing damage done to farm crops by insects is due to the increasing slaughter of birds, and for this the men who farm pay the bill. It is a bill that runs up into the millions annually and is growing larger every year. Birds, of course, live chiefly upon insects and they are needed to keep insect life in check. A measure is now before congress, the purpose of which is to place all migratory birds under the protection of the federal government. Such a law is greatly needed. If it is not passed the birds will continue to decrease. John Burroughs and Ernest Thompson Seton, two great American naturalists, have issued a joint appeal requesting American newspapers to urge each of their readers to write the congressman of his district and his two state senators to request immediate action on the pending bird protection bill. Kansas ought to be vitally interested in this legislation. Why not write such a letter?

Your Winter Harvest in Eggs

There's not the slightest reason why every poultry raiser shouldn't have a harvest in eggs right now when eggs are high. Hens, your own hens, have a tendency to grow fat and lazy and the egg organs to become sluggish. This may be due to lack of exercise, the absence of green food and to other causes. But whatever the cause, remember that

Dr. Hess Poultry Pan-a-ce-a

positively tones up the dormant egg organs and takes the hens out of the loafer class and makes them lay eggs for market right when prices are the highest. It keeps hens hungry for their grain, so they remain busy all the time scratching for a living—and it's the busy hen that does the cackling and the more cackling the more eggs.

Dr. Hess Poultry Pan-a-ce-a contains:
 Potassium Nitrate. An Eliminant.
 Nux Vomica. A Nerve Tonic
 Quassa. A Bitter Stomachic and Appetizer.
 Hyposulphite of Soda. An Internal Antiseptic.
 Iron Sulphate. A Blood Builder.
 Iron (Red Oxide). A Blood Builder.
 Carbonate of Lime. An Antacid and shell forming.
 Sodium Chloride. An Appetizer and Cleanser.

Under the supervision of Dr. Hess (M.D., D.V.S.) the above is carefully compounded and blended, with just enough cereal meal to make a perfect mixture.

Note the formula for Pan-a-ce-a in this advertisement; the definitions of ingredients are taken from U. S. Dispensatory and our best writers. With the formula on the label there can be no exaggeration of claims. You can look up the ingredients in any medical dictionary, and besides every Hess & Clark preparation is guaranteed.

Our Proposition:—Feed your hens Poultry Pan-a-ce-a right now when eggs are scarce; if you have the least shadow of doubt that it has not made your hens lay more eggs and kept them free from disease at a cost of only a penny a day for 30 hens—take to the dealer the empty package and he is compelled to refund your money. 1½ lbs. 25c; mail or express 40c; 5 lbs. 60c; 12 lbs. \$1.25; 25-lb. pail \$2.50; except in Canada and extreme West. If your dealer cannot supply you, we will. Send us for Dr. Hess 48-page Poultry Book, free.

DR. HESS & CLARK
Ashland, Ohio



DR. HESS STOCK TONIC improves digestion, increases the appetite, expels worms. Bulletin No. 22, U.S. Department of Agriculture, says: "Only 60 per cent. of the food taken by stock is digested." You know yourself that you can fatten hogs on the corn that passes through the steers undigested. "The Dr. Hess Idea" is to save a part of this wasted feed by increasing digestion. The formula is on every package and the U. S. Dispensatory, or even a medical dictionary, will tell you whether the ingredients will produce the results claimed. And, besides, it's sold only on a written guarantee. 100 lbs. \$5.00; 25-lb. pail \$1.60. Except in Canada and extreme West and South. Send 2 cents for Dr. Hess Stock Book.

FREE. Dr. Hess (M.D., D.V.S.) will at any time prescribe for your ailing animals free of charge if you will send him full details. Mention this paper and send 2-cent stamp. 66-page Veterinary Book also free.

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Learn Horse-Training — Make Big Money!

\$1,200 to \$3,000 a Year—at Home or Traveling

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Prof. Jesse Beery, known from one end of the country to the other as the World's Master Horseman, having retired from the arena with an independent fortune, is giving the world the priceless secrets of his marvelous success. A copy of his wonderful "HORSE-TRAINERS' PROSPECTUS" will be mailed, free of charge, to all who are ambitious to master this highly profitable and intensely interesting profession.

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The thrilling exhibitions given by this King of Horse-Tamers and Horse-Trainers have never been equaled. His mastery of fierce, man-killing stallions, without whip, curb bit or other cruel devices, has astounded the world. The most unruly horses—kickers, tricksters, balkers—subdued while multitudes watched, wondered and applauded. Medals, trophies and honors of all kinds, showered upon Prof. Beery by admiring thousands, bear eloquent testimony to his matchless skill.

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The Beery Correspondence System of Horsemanship is the only instruction of the kind in the world. The lessons are simple, practical and complete. Learn in spare time, right at home, to take the most vicious horse and subdue him in a few minutes. Prof. Beery can teach you how to break any horse of bad habits—teach a horse to drive without reins. How to tell the disposition of any horse on sight—judging a horse right the first time! How to cure shying, kicking, biting, balking, fear-of-automobiles-and-trains and all other bad traits forever.

Break a Colt in 8 Hours!

The lessons in Colt-Breaking alone are worth the price of the entire course. You can train a colt, in 8 hours, to be absolutely trustworthy. There is big money in breaking colts and curing horses of bad habits.

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For example, take the case of Emmett White, Kalona, Iowa, now a prosperous professional Horse-Trainer. Mr. White says: "I wouldn't take \$500 for what you have taught me. You may judge of my success when I tell you that I have been able to buy a horse and an automobile solely through earnings from training horses as taught by your excellent methods."

A. L. Dickinson, Friendship, N. Y., writes: "I am working a pair of horses that cleaned out several men. I got them for \$110, gave them a few lessons and have been offered \$400 for the pair."

Coupon Brings Prof. Beery's Great "Horse-Trainers' Prospectus" FREE

If you want to get into a big money-making profession—if you own unruly horses with bad habits—if you enjoy travel—if you are a natural-born trader and can buy cast-off horses cheap to sell at big profit when trained, send now, today, for this grand Free Horse-Trainers' Prospectus. Tell me all about your horse.

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WONDERFUL! Greatest Sewing Machine Offer!!



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10 Years!

WE want to tell you about our offer which makes it possible for every woman reader of our paper to secure one of these magnificent \$40 "Gold Medal" Sewing Machines without cost—and without any canvassing or soliciting of public work of any kind. It is the most liberal, most attractive, most astonishing offer ever made. This beautiful Sewing Machine may be yours at once. We have one of the most unique and original plans by which it is possible for you to secure most for nothing. Of course we expect something in return for the machine—but we do not ask you to go out and "peddle" anything, nor do any sort of disagreeable work in order to get best offer ever made!

Will You Send 10 Names of Friends to Get This "Gold Medal" Sewing Machine FREE

Don't send the names until you get the free instructions about our Club Plan. We have placed more than a thousand Gold Medal machines in the homes of our readers on our easy-payment, no-money-down Club Plan. In order to increase the membership of our club to 2,000 immediately we are making a special proposition to first members in certain localities which makes it possible to secure a Gold Medal Sewing Machine absolutely free. The Gold Medal is constructed throughout of best grade materials and is fully warranted for 10 years. The Gold Medal is worth \$40, but we sell it for just about half this price on payments amounting to only a few cents each week—and on our new Club Plan first members have a chance to secure the Gold Medal Sewing Machine absolutely free. Send your name and address today for large illustration and complete description of the machine and our liberal first member Club plan. Address

MAIL AND BREEZE SEWING MACHINE CLUB, 801 Jackson St. Topeka, Kan.

Happy Days, Fellows!

A pretty girl, a sleigh, a smooth road, and a pipeful of Velvet! Can you think of a better combination than that?

But whether you have the girl and sleigh or not—there's lots and lots of pleasure in a big, red tin of Velvet. It's so mild and rich and fragrant that you can't help but enjoy it. And snow, rain or shine—winter or summer—you can always have this delightfully smooth tobacco.

Don't go without it. Ask your storekeeper for Velvet today. You want the best.

Liggett & Myers Tobacco Co.

Full-size 2-ounce Tins 10c

Also in one-pound glass humidior jars.



Homemade Poultry Devices

BY OUR READERS.

FVERY convenience is of help. Here is a good way to make a nest or brood coop: Take your old leaky wash tubs and cut a hole in the side of each large enough to admit a hen. A door may be provided by punching two holes at one side of the opening and hanging the door on with rings. Invert the tub and set it in the shade of a tree. Put in several rows of nail holes for ventilation. Such a coop is easy to keep clean and free from mites and lice. Old wash boilers may be used in the same way. O. M. Culbreath. St. John, Kan.

Rack for Water or Feed Dish.

[Prize Letter.] Mr. Editor—I send you a picture showing a good device for watering or feeding a flock of chickens, turkeys or any other poultry. A dozen or so slats set up about the feed or water vessels and fastened at the top is all that is necessary to rig it



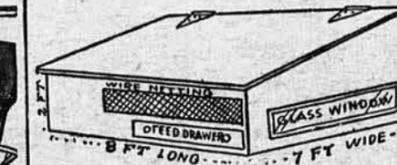
NO SOILED WATER OR FEED. up. With such a contrivance in use the birds cannot get into and soil the water or feed, nor waste either. It will also accommodate more birds at a time than will an ordinary open receptacle. Oakland, Kan. John Collyer.

Good Hopper for Dry Mash.

[Prize Suggestion.] This hopper is 20 inches high, 15 inches wide, 10 inches wide at the top and 4 inches at the bottom. The full bottom should be 15 by 12 inches. The opening at the bottom may be from 2 to 3 inches wide and the board in front of this opening is 5 by 15 inches. On top of this a narrow strip 2 inches wide is nailed. This is a good hopper for a dry mash and will insure clean feed and no waste. G. S. W. Allen county, Kansas.

Feeding Coop For Fries.

[Prize Suggestion.] Mr. Editor—This drawing shows the plan of my coop for raising Leghorn, R. I. Red, and guinea squabs. I find this a paying way to get rid of many male chicks when about 3 months old. The lunch parlors on the automobile routes are my best customers. The coop was made of redwood flooring ex-

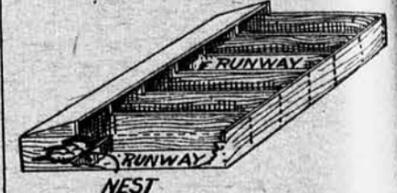


A LABOR AND TIME SAVER. cept the feed drawer which is made of a store box. It is 4 feet long, 2 feet wide and 3 inches deep. The drawer is covered with coarse wire netting. I put feed in the drawer once or twice a week and

give a mash of corn or oatmeal and milk curd every other day. The chicks have plenty of water. The floor is covered with road dust from which the chicks get grit. The top of the coop is solid but there are two screens underneath fitted in underneath, so that the cover may be raised on pleasant days. Mrs. B. R. Buffham. Roswell, N. M.

Runways for Setting Hens.

[Prize Suggestion.] Mr. Editor—For setting hens I make a number of narrow runs with 12 inch boards about 14 feet long. The boards are set on edge about 14 inches apart. The nests are put in the ends of runs and a wide board placed over them to keep



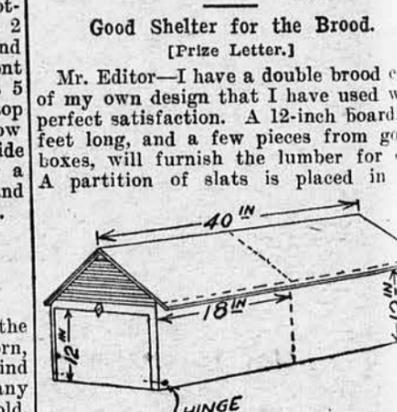
out rain, etc. Cover the runs with chicken wire and put feed, water and a dust bath in each run. Then put in your eggs and the hens and they will do the rest without further bother. Atchison, Kan. A. B. Howe.

Never Failing Water Supply.

[Prize Suggestion.] Mr. Editor—The sketch shows my automatic waterer for poultry. A jug, large bottle, or any vessel that may be made airtight will serve the purpose. If a tree is not handy drive a post where you want your fountain. Two straps will hold the jug or bottle in place and should be put on in a way that will make it easy to take out the vessel and refill. Fill the vessel and invert it over the pan, having the mouth a little below the level of the pan's upper edge. The water will fill up the pan until it shuts off the air from the mouth of the jug and then stop. So long as there is water in the jug the water will keep at this level but will not overflow. The fowls cannot get into the pan with their feet and old and young birds will have a clean supply of drinking water at all times. The same plan may be used in watering hogs except that a barrel is used instead. This is set on a small scaffold and a hose takes the water from the bottom of the barrel to the trough in the pen. The end of the hose in the trough must be protected. Caithers, Okla. Bert Ray.



Good Shelter for the Brood. [Prize Letter.] Mr. Editor—I have a double brood coop of my own design that I have used with perfect satisfaction. A 12-inch board, 16 feet long, and a few pieces from goods boxes, will furnish the lumber for one. A partition of slats is placed in the



ROOM FOR TWO HENS AND BROODS. middle of the coop and it thus does double duty. The gable ends are slatted which furnishes plenty of ventilation. A door is placed in each end with simple nail hinges at the bottom and a warble holding them closed at the top. I have no floors in these coops although it would be safer to have them made of proof. Arno, Mo. G. H. Hagee.

One Dollar

Is All It Now Costs to Have Your Seed-Grain Cleaned and Graded



The CHATHAM Grain Grader and Cleaner

Now that farmers everywhere are cleaning and grading their Seed Grain, the question is, how to get it done best, easiest and cheapest. Here's my \$1.00 offer: Send me one dollar and I will ship you, FREIGHT PAID BY MYSELF, this improved 1913 model Chatham Grain Grader and Cleaner with all equipment. Clean your Seed Wheat, Oats, Flax, Barley, Peas, Beans, Corn, Grass Seed, etc. Then PLANT those fine seeds. AFTER you have harvested a bumper crop, I'll pay you the balance of my low price. Not one penny need you pay, except the \$1.00 until next November. And by November

grain that you cannot get rid of, don't get discouraged. Write me. Handles all Small Grain and Grass Seed. My 1913 Chatham handles over 70 seed mixtures—wheat, oats, peas, beans, corn, barley, flax, clover, timothy, etc. Takes cockle, wild oats, tame oats and smut from seed wheat; any mixture from flax; buckhorn from clover; sorts corn for drop planter. Removes fowl weed seed and all sunken, cracked or sickly grains. Takes out all dust, dirt and chaff. It is also a bulky chaffer. Handles 60 bushels grain per hour. Gas power or hand power. Easiest running mill on earth.

Special Corn-Sorting Attachment Last year I added a Corn-Sorting Attachment, which grades corn so that a round or edge drop planter drops the right number of grains in 48 out of every 100 hills (in repeated tests at State Agricultural Colleges). Same planters, loaded with ungraded corn, make only 65 out of 100 perfect hills. In two months I shipped to Iowa farmers alone 4,000 machines with Corn-Sorting Attachments. Try my Special Corn-Sorting Attachment. It will increase your corn crop amazingly!

Postal Brings My New Book on Seed Selection. Every chapter is highly practical and exceedingly interesting. It shows an easy, simple way to get rid of any weed on your farm; how to separate any mixture of grain—in short, how to get perfect grain for sowing, feeding or marketing. Send postal today and receive by next mail my new Book free. Address Dept. 47, Manson Campbell Co., Detroit, Mich., Kansas City, Mo., Minneapolis, Minn.

Extra Screens and Riddles Free In case you want more or different screens, just write me and I will send them free. Not a penny would I ask for extra screens and riddles. I also have a Free Service Department which will separate, clean and grade FREE any mixture you send in. If you've got some impurity in your

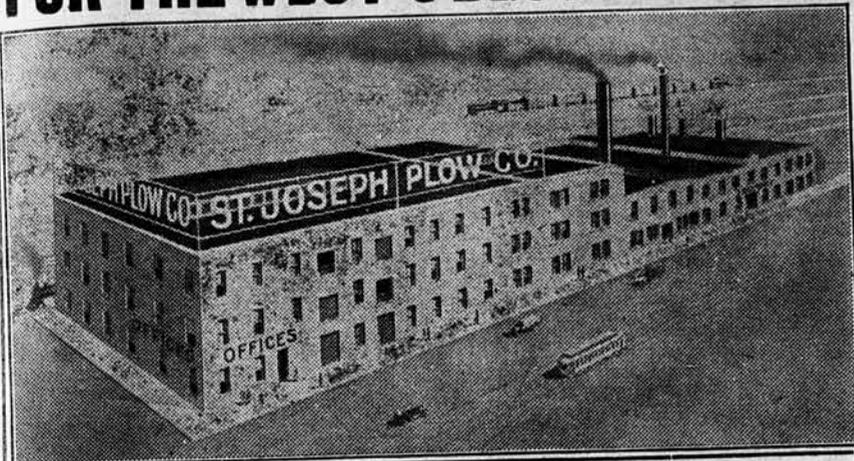
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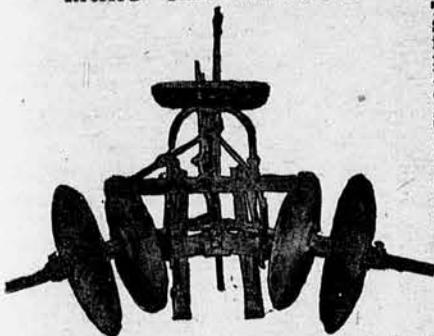


Our ambition is to supply every progressive, successful farmer in the Great Southwest with farming tools that **cannot be duplicated for efficiency and reasonable price anywhere else in the United States.**

We want to convince **you**—you who have your eye on this page this moment—that no other factory in the **world** turns out a higher class of implements. We want to convince **you** that our tools are so **vastly superior in actual use** that you and your brother Southwestern farmers should help us build here at St. Joseph—the gateway of the Southwest—the largest individual implement factory in the United States.

We can do it—if you do **your** part. First step: **Send for our literature and prices.** Second step: Be loyal to western enterprise and **try our tools.** They are our own inventions—our own manufacture and they are **guaranteed.** This page describes only a few of our products. Send for the whole story and **make money by it.**

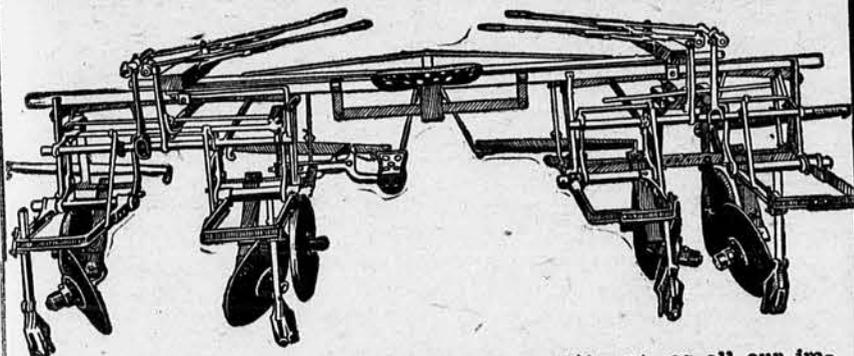
Make One Machine Do the Work of Two



That's just what the wonderful **Swanson Terror** will do—and do it right. Adjusted in a twinkling for either the first cultivation of listed corn or the tearing down of listed ridges in preparing the ground for wheat. The **Swanson Terror** is equipped with two levers, with which the discs may be set to any angle **without the aid of a wrench.** With the second lever the discs may be raised or forced into the ground at will. Can be set to throw soil to or from the corn, and we equip the **Swanson Terror** with a shovel attachment which may be used to loosen up the bottom of the furrow during first cultivation. You need not take our word for it that the **Swanson Terror** is a dandy. Ask any user. Ask any **boy**—for boys handle it as easily as the men. It has new features that can be found only in the **Terror.**

it that the **Swanson Terror** is a dandy. Ask any user. Ask any **boy**—for boys handle it as easily as the men. It has new features that can be found only in the **Terror.**

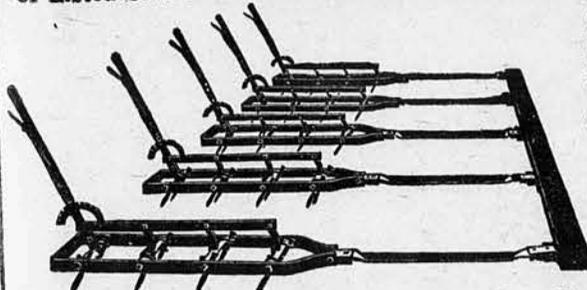
Cultivates Taller Corn Than Any Other Cultivator



Swanson Three-Time, Two-Row Cultivator is different—as all our implements are different from the ordinary farm tool. **Swanson Three-Time, Two-Row Cultivator** is a **Success**—because it has a greater leveling device than the ordinary two-row cultivator. Others have a leveling device of about 23 inches, while the **"Swanson"** reaches 38 inches. The arch in the **"Swanson"** measures close to 30 inches high, others only 23 to 25 inches—so you can get over the taller corn. The adjustments in the **"Swanson"** are better. That tells most of the story—but not all. The foot guide on this machine is worth \$10 to every user. With his feet the operator guides each gang independently of the other, keeping his hands free for driving. And the hitch—that's another point—it's shorter and works wonders in many ways that the man who values horse flesh and scientific cultivation will heartily appreciate. We'll tell you more if you're interested.

Increase Your Corn Yield 5 to 10 Bushels Per Acre

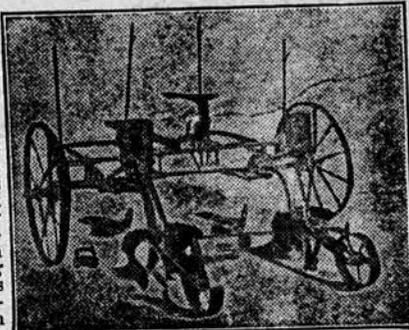
NEW WAY LISTING HARROW WILL DO IT: Cultivates 40 acres of Listed Corn in One Day with One Team. Only tool which enables the user to cultivate a crop before it is up, and kill all crab grass at the bottom of the furrow—no matter whether the crop is corn, Kafir corn, sugar cane, broom corn or cotton.



You know that the secret in raising a good crop of any kind is to begin cultivation before the tender plant appears (and carefully continuing afterwards) and we know that this can be successfully accomplished **only** by the **New-Way Listing Harrow.** It perfectly prepares the field for a wheel disc or other cultivator by killing the weeds at the bottom of the ditches. If soil is loose and dry, **"New-Way"** settles it; if bottom of furrow becomes hard and solid, **"New-Way"** mellows it and starts the seed to growing; if hard crust forms, **"New-Way"** cuts it all to pieces; if soil becomes cloddy, **"New-Way"** is quickly flattened into a perfect smoother. **New-Way Listing Harrow** not only is the most perfect all-around listing harrow known, but—Farmers who are using it claim that it **Advances their corn from Eight to Ten Days and Increases their yield from Five to Ten Bushels Per Acre.**

Save the Expense of One Man

FAMOUS DOUBLE ROW RIDING LISTER (For Six Horses Abreast). You actually save the expense of one hired man by using our famous **Double Row Riding Lister.** This was the **first ever made** and this today is the most practical, best scouring, most simply and durably constructed (with toggle joint accurate gear drop connecting main wheels) on the market. Leveling lever at each side raises and lowers each lister independently with marvelous ease. Comes equipped with regular six-horse evenner and two roller coulters with either disc or shovel coverers as desired; also provided with press wheels at small additional cost, when desired. Absolutely guaranteed—and in 30 years not a single one has been returned to us. No progressive farmer can do himself justice without these listers. They were made to save expense on the farm and at the same time afford superior service—and they do it.



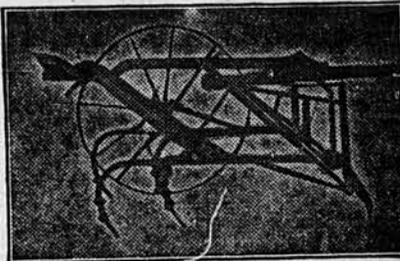
Double-Row Steel King Disc Cultivator

As the pioneer builders of a single and double-row cultivator, we are specially proud of the wonderful record of one **Steel King Double-Row Disc Cultivator.** All over Nebraska, South Dakota, Iowa, Kansas, Missouri and Oklahoma actual users have pronounced it **King** of all. New patented seat board on rollers, automatically adjusting itself to wide or narrow rows, with 23-inch leveling device that always keeps gangs level with the ground without annoyance of play; handy combination spring levers for easily handling discs and shovels independently, assuring absolute control; equipment of hard oilers, wood sleeves bolted in lubricating oil, dust-proof bearings—all these **special, original** features make the **Double-Row Steel King Disc Cultivator** the implement for you.



New Progressive Riding Cultivator

No Levers—No Springs—Always in Balance. If we could only tell you all about the simple construction, the perfect balance, the perfect cultivation, the easy handling qualities, the perfect hitch and light draft, and the wonderful money saving and labor saving qualities of this **New Progressive Riding Cultivator,** you wouldn't rest until you had one. The **New Progressive** is positively closer to the shovels than any other cultivator, either walking or riding—as close as a double-shovel plow. Its short hitch—the result of years of experimenting by the inventor—means light draft, less turning space and means that the **Progressive** is the most sensitive, easily handled cultivator in the world today. Two-thirds of the draft is below beam level, a direct pull from the horses' shoulders to points of shovels at all times, with no pole weight to overcome—and the **Progressive** is **100 pounds lighter** than cultivators equipped with springs and levers, a light draft machine that will last longer than any other cultivator on earth.



Yes, we have it patented, you bet! Because all the complicated devices commonly used on riding cultivators have been supplanted by our own conception of a perfect cultivator—a machine with which the operator has nothing to do except to sit in the seat and drive.

Now Listen: We want you to send for our literature which will tell you how all this is so marvelously, yet simply, done. We want you to know all about the simplest and most successful cultivator in existence. We want you to know how easy it is, under either ordinary or unusual soil conditions, to regulate depth of cultivation without the unnecessary levers, springs and other contraptions that are always breaking or wearing out and causing you to "lose all the religion you ever had." We want you to know how easy it is to cultivate crooked rows, avoid roots, stones, stumps or other obstructions; how easy it is to swing shovels between the hills and make your field as clean as the gardens of a king.

Yes, we have the New Progressive closely covered with patents. It's a thousand times worth patenting—and we want you to write us today for information about this wonderful cultivator which will open the eyes of any practical, progressive farmer.

EVERY IMPLEMENT GUARANTEED
MONEY BACK IF YOU WANT IT.

SWANSON-ST. JOSEPH PLOW CO.
EIGHTH AND DONIPHAN, ST. JOSEPH, MO.

"There's a Good 'Ad' for WRIGLEY'S SPEARMINT

"Where?"

"On the fence."

"Her good teeth, appetite and digestion make her the best 'Ad' for it I know of. It's the only thing she likes that's good for her. The whole family likes it. I use it myself to sweeten my breath after smoking. Always

Buy It by the Box

—of any dealer. It costs less and stays fresh until used."



Sprouted Oats Best Green Feed

BY D. J. BLISS.

[Written for Farmers Mail and Breeze.]



ATS when sprouted make the best green feed. They are excellent feed for chicks and mature birds. But, until two years ago, every way of sprouting

oats I could learn of required too much labor, or the risk of over-heating. Finally I found a way which has been satisfactory. This cellar is 14 by 16 feet, 4 feet below the surface and 4 feet above, with cement wall, 8 inches thick. It has a cement bottom, slanting 1 inch toward the center, the long way, and the center slants 2 inches to one end toward a sewer trap that drains into the sewer. The wall has two four-light windows on the south and one on the east hinged at the top.

A one-story house was built over the cellar, where the oats are stored above. A small hopper extends through the floor and has a long stout canvas bag attached reaching near the floor of the cellar. The lower end is hung higher on a nail when not in use. I also had water and gas piped into the cellar with a piece of hose attached to the water faucet to sprinkle the oats once a day.

I use 8-gallon lard pails in which to soak the oats 24 hours, then turn them down on the cellar bottom letting the water drain to the sewer, leaving the soaked oats about a foot deep in winter and 4 or 5 inches deep in summer. In five or six days they will sprout about an inch long, when they are in best condition to feed. If left much longer they should be raked apart with a garden rake and not allowed to grow into a sod. I feed from 350 to 400 hens all they will eat at morning and noon; corn at night in litter and Kafir in summer. My pullets, grown on sprouted oats and Kafir, will average about a pound each over standard weight and will lay earlier. Besides this they are strong and healthy at all times.

One man can do all the necessary work of sprouting oats in this cellar for 500 hens, by spending 15 minutes' time each day. On cold days the water should be warmed to sprinkle the oats. I find that sprouted oats are the best and much the cheapest feed I can obtain. The house and cellar and everything connected with it cost less than \$100.

Carthage, Mo.

A Homemade Sprouter for Oats.

[Prize Suggestion.]

The drawing shows a simple way of making an oat sprouter. I have used one like it for nearly two years and it answers the purpose in a very satisfactory way.

The lumber in the box is 2-inch flooring. The trays are 14 by 20 inches and 1 1/4 inches deep with frames made of 3/8-inch lumber such as you can get from store boxes. A sheet of tin nailed on for the bottom. These trays hold 2 quarts of oats each.

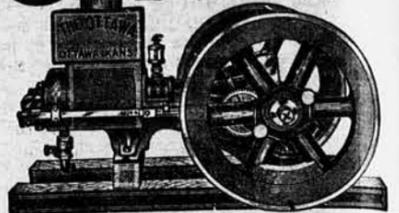
I first soak the oats 24 hours, then drain them off and place in the trays. I use five trays and fill one each morning. On the sixth morning the lower tray is ready to feed. After emptying it, I fill this tray with new oats and slide it in at the top, moving the others down. I always have the new oats farthest away from the lamp, which is at the bottom of the sprouter. One tray full of sprouted oats makes a good feed for 25 hens. Having the tops of trays smooth and even so they will fit close will prevent evaporation. On the lower two strips two narrow boards are placed and on these I have a common bread pan in which water is kept for moisture. The lamp is kept under this pan with a very small flame burning. Too much heat will cause mould and the oats will sour before they sprout.

I keep this sprouter in the cave on a cement floor which makes a good place for it, as there is no danger of fire. The sprouter itself needs no floor.

Reserve, Kan.

M. O. Moyer.

6 H-P



Here's the most reliable 6 H.P. engine in America. I absolutely know that it will wear longer and do more work than any other engine of the same size you ever used. That's why we can say to you TAKE IT — USE IT. Send us just one-half of the purchase price or

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and the balance to suit yourself, small monthly payments or a six month's note, just as you like. **No Limit Guarantee!**

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SEE for yourself how smoothly this roller-bearing Crop Maker Fanning Mill runs, day in and day out. Put it to work at any fanning mill or grading machine job — see how it automatically cleans, separates and grades any grains or grass seed and then, if you don't say it is a great service and money-making machine, ship it back at our expense. The



Crop Maker Roller Bearing Fanning Mill

runs "like oil." It's easy to turn, it turns evenly, and this means that it does perfect work all the time.

It doesn't pay to plant dirty, ungraded seed when you can have clean, perfect seed by using this light-running mill. If you are satisfied after the 30-day free trial, we will sell you this mill at

Direct Factory Price

You save retailer's and jobber's profit, merely paying actual cost of making plus a small factory profit. And the factory stands right behind you all the time. Try this great Crop Maker before you buy. Your use of it puts you under no obligation. We have a Free Book for you, giving complete description, price, etc. Please write for it now — today — and get our offer in detail.

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without a cent deposit, prepaid freight and allow 10 DAYS FREE TRIAL. IT ONLY COSTS one cent to learn our unheard of prices and marvelous offers on highest grade 1913 model bicycles. Do not buy a pair of tires from anyone at any price until you write for our large Art Catalog and learn our wonderful proposals on first sample bicycle going to your town. RIDER AGENTS everywhere are money exhibiting and selling our bicycles. We sell cheaper than any other bicycle. TIRES, Coaster-Brake Tires, who also lamps, repairs and sundries at half usual prices. Do Not Wait; write today for our special offer. MEAD CYCLE CO., Dept. C131 CHICAGO

LEARN THE BIG MONEY TRICKS

of the POULTRY TRADE! Big Illustrated Book of Success Secrets FREE!

The well-known poultry authority, Reesa V. Hicks, has written an intensely interesting and practical book that should be in the hands of everyone interested in raising poultry. This book, "Tricks of the Poultry Trade," tells three methods of selecting the laying hen; a sure and certain method of selecting eggs for hatching; How to raise 500 chickens on a lot 30 by 40 feet; How to build a natural hen incubator; How to build feed hoppers and fireless brooders; How to make winter egg ration, poultry feeds and tonics, egg preserver, louse killers, etc. All these and many more subjects are fully covered in this great book which we're giving away FREE on this plan: OUR OFFER: We will give you one year's subscription to our big weekly farm Magazine, Farmers Mail and Breeze, one year's subscription to Poultry Culture, the best Poultry Journal in the West, and one copy of this great book of poultry secrets — all for only \$1.25. State whether you are an old or new subscriber. Address at once, Mail and Breeze, Dept. PC-10, Topeka, Kansas

Test the Simmons Line By These Tools

You can't afford to dig post holes in the old way this spring when you can buy a Keen Kutter Post-hole Digger at such a low price. This digger has sharp, jaw-shaped steel knives that stick deep into the hardest ground and yank up a big load of dirt in a jiffy. You can make more post holes with this digger in a couple of hours than you could make in a whole day with a bar and shovel.

KEEN KUTTER Quality Tools

Pitching manure with a Keen Kutter fork is an easy job, because there is "give" or elasticity to the tines and there's heft to the handles. You can test the quality of the whole Keen Kutter line of tools and cutlery by these two money, time and labor saving tools. Be sure you see the trade mark before you buy.

"The Recollection of Quality Remains Long After the Price is Forgotten."

Trade Mark Registered. —E. C. SIMMONS,

If not at your dealer's, write us.

SIMMONS HARDWARE CO., Inc.,

St. Louis New York Philadelphia Toledo
Minneapolis Sioux City Wichita



Capon Industry Growing

(Continued from Page 6.)

firm could buy their capons. Walter A. Tuttle, Scott street, Buffalo, N. Y., writes me he is handling 20 to 30 barrels of dressed capons each week at an average price of about 25 cents per pound. However, Boston is the best capon market of the United States, and the Batchelder & Snyder company, Blackstone street, are the heaviest buyers at that place, handling more than 150,000 pounds of dressed capons each week. Under date of December 28, 1912, they write as follows:

At the present writing capons will bring anywhere from 18 to 25 cents per pound, according to size and quality, the larger the capon the higher the price. Of course you know capons from New Jersey that weigh from 8 to 12 pounds each, always sell in this market at a premium. Last season we sold them as high as 40 cents per pound for extreme sizes. Advise anybody shipping never to mix capons and "slips" together as the purchaser usually wants to buy the entire package at the price slips are worth. We have written to Richard Butler of Kansas City and probably it would be better for the shippers of your section to send their capons to him. We would not then be troubled with handling so many small lots.

Why Some Caponizers Fail.

Capons are the best means of brooding young chicks we have ever tried. They will take little chicks right from the incubator and raise them better than any hen. They will cluck to them and hover the little fellows exactly like a hen, except that a capon is quiet and does not rant and run around like a hen.

Considering the many good points and the high prices that capons command, it may seem a bit strange to many that capons have not become more popular and why more people are not making capons in this part of the country. The dealers that are buying capons say that more than half the capons they are getting are not capons at all but stags, or as they call them, "slips". These were docked and not paid for at capon prices. The effect has been to discourage many of the producers and

the capon business has suffered in consequence.

I have found most of these caponizers were using a hollow tube and wire, or hair; or else were doing it with a split spoon. With these crude instruments a clean job could not be done and a part of the organs or some of the cords always remained in the bird resulting in nature trying to grow a new organ, hence the stogy appearance of the fowl. Within the last two seasons there has appeared a new style of remover. Using one of these on 130 birds of my own, only two have shown up the least bit "slippy". All the rest being smooth capons. In this same outfit comes a humane spreader equipped with a compound spring and slide, the entire tool working automatically.

Anyone Can Make a Capon.

With these instruments anyone can make a capon. The way to begin is first to operate on a dead bird you have just killed to eat. After you have learned the operation, you will be surprised how quick and easy it really is to make a capon.

One evening last summer I worked on 40 birds for R. A. Williamson of this place. There was quite a crowd present and I was demonstrating and talking most of the time, yet the 40 birds were "worked" in less than two hours. In this instance I was wearing a white shirt with starched collar and cuffs and completed the bunch without getting a drop of blood on my clothing. A white towel was spread on top of the barrel that served as an operating table and there was but one spot of blood on it. This is pretty good evidence the birds do not bleed so much, as many suppose. Where the operation is correctly done the bird will shake his feathers and go to eating as soon as liberated. The operation is so simple and easy that half the boys and girls around here do the work, some of the women folks being especially expert. One of the best capons that I have seen this season was made by a woman. My 10-year-old

Electric Lights for Every Farm



The progressive farmer of to-day long ago left behind him the various inconveniences once considered inseparable from farm life. He is now following modern methods, adopting modern inventions and labor-saving devices. The greatest advantage recently placed at his disposal is Electric Light—made possible, no matter how far from a Central Lighting Station his farm is situated, by the Individual Electric Lighting Plant using the

"Chloride Accumulator"

The purpose of this storage battery is to store up and retain the electricity. It is exactly the same type of battery used in the lighting stations of large cities. By connecting it with a gas engine and dynamo occasionally, it accumulates and retains enough electricity to furnish light for your home and buildings through a day and night or longer—and light moreover, that is instantly at the command of your hand at the switch, without continually running the engine.

Be modern. Investigate the Individual Electric Lighting Plant. It is not expensive, and—but send to the nearest office for the book, "How to Have Electric Lights on the Farm." It describes the whole subject in detail.

THE ELECTRIC STORAGE BATTERY CO.
1888 PHILADELPHIA 1913

New York, Boston, St. Louis, Cleveland, Atlanta, Denver, Detroit, San Francisco, Toronto, Portland, Ore., Seattle, Los Angeles, Chicago.

daughter has a fine bunch of capons her own making and raising.

Producing capons is a most profitable branch of the poultry industry and many poultry raisers are losing money by not taking advantage of the fact.

Loans Higher to Grain Farmers

A canvass of the farmers in Minnesota, North and South Dakota, Iowa, Wisconsin, and Montana, showed that of the loans desired 25 per cent were

for buying livestock, 20 per cent for improving buildings, 20 per cent for general farm improvement, 5 per cent for fences, 7½ per cent for renewing loans, 15 per cent for buying more land. It was also found that the interest rate varied with the kind of farming. Where grain farming prevailed the rate was high, and much lower in mixed farming sections. The committee that made the canvass recommended that an investigation be made of the credit needs of the American farmer.

YOU OUGHT TO OWN A BUGGY

Like This Triple Panel Automobile Seat Buggy

We have sold 49,000 of these buggies and every last one of them has given absolute satisfaction. The strongest argument that can be presented in support of any vehicle is that it has proven absolutely satisfactory to the users under the most trying conditions and severest tests. This is the exact standard that all our vehicles live up to. Our Triple Panel Automobile Seat Buggy is a stylish, comfortable, easy running and substantial vehicle that anyone would be proud to own and ride in. In addition to combining all the latest features in design and construction we are offering this vehicle to you at a price that is at least \$35.00 less than you would have to pay for a similar buggy from your home dealer.

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These buggies are carried in 13 cities throughout the country and are shipped from the city nearest you. This insures prompt service and low freight charges. We owe the enormous growth of our vehicle business entirely to the fact that we build vehicles to last and give absolute satisfaction.

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\$30.95 Top Buggy

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Is now ready for you, brimful of quality vehicles of all styles at bargain prices. This handsome book is profusely illustrated in colors and describes every vehicle in detail. There is nothing left to the imagination, everything is plainly shown and clearly explained. You are as safe in ordering from it as if the vehicle actually stood before you.

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Fill in the coupon at the corner of this ad and mail it today, or just send a postal and we will send this Big Money Saving Book to you absolutely free by return mail. Do not put it off. The few moments you use now will result in your saving dollars later on.

Our Vehicle Guarantee is a most unusual one and guarantees you absolute satisfaction for the life of the vehicle. We ship on **30 Days' Free Trial** with the privilege of returning the vehicle if dissatisfied for any reason.



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If your farm was no larger than 100 acres the Leader Tractor would pay for itself inside of 18 months. It is the only practical tractor for farms of 100 to 200 and 500 acres or more. The larger your farm, the quicker it will pay back its cost. It costs no more than 4 or 5 horses, yet it replaces 10 to 12. Will pull 3 or 4, 14-inch plow bottoms up a 15 per cent grade, or climb a 30 per cent grade—a thing which other tractors can't do. Make deep plowing possible so you can bring up fertile soil never turned before—will double crop yield. Thirty cents per acre is about the cost for gasoline fuel. The lowest cost ever known. Our kerosene oil burning engine will bring the cost still lower. That's because the Leader is built scientifically, like the famous Leader Farm Engines.

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has engine with double opposed cylinders that eliminates vibration, saves all the power for driving the tractor, and makes power eating big fly wheels needless. Has just the right proportion to give maximum power with lowest cost. Wonderfully light for the big power it develops. It will travel over soft or rough soil where other tractors, and sometimes even horses cannot follow. It has worked in rice and swamp lands. And plowing is not its only specialty; you can also harrow, disc or seed your land with it. Besides having big drawbar efficiency of 2,500 to 3,000 pounds, it can do belt work for haystacks, silage cutters, huskers, shredders, grinders or almost any other farm machinery.

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Send postal or letter today, NOW! Ask for "The Book of Farm Power." If interested in farm engine, ask for our price on Leader Gasoline Engines.

Turkeys Can't Be Coddled Much

DON'T OVERFEED.

MANY do not raise turkeys because of their inclination to stray, but if turkeys are managed properly they will have little tendency to wander. I always feed my turkeys regularly about the barn, and they are not apt to go far except at nesting time and when insect life is most abundant. Also turkeys frequently stray from home to seek proper roosting places away from the home buildings. Turkeys do not do well when confined. I always give them an open shed, but they enjoy the branches of trees. A grove protected from the storms is an ideal place. Turkeys seem to require indulgence in their wild habits, and as soon as they are housed up and are permitted to feed and drink with other fowls some fatal disease claims a number of them. They should live as near to nature as possible and require the greatest care during the first weeks following incubation. Many feed them too heavily. The poults should be fed little at a time and often.



Mrs. B. F. Wilcoxon.

best to take their eggs out and substitute others so they will not lay elsewhere. If the nest is not otherwise protected it is well to place a coop over it, leaving one end open. A few days before finishing her hatch a lath pen may be set over the nest to keep the hen from getting away with the poults. I find hens 2 years old or older make the best mothers, as the four weeks' sitting is quite a strain on a young bird and she will often leave the nest altogether. Plenty of pure water and good, sound grain should be within easy reach of the hen while sitting.

Hunter, Okla. Elmer J. Million.

Keep Them Dry and Free of Lice.

Mr. Editor—We feed young turkeys cheese cooked hard, snipped onion tops, cooked, wheat, corn bread and little seeds. They should have no raw corn meal, raw wheat, sour feed or sloppy stuff of any kind. Keep the coop clean and give them a little sand to pick at. It is better to keep turkeys penned up until they have their wing and tail feathers. We have lost more when they were half grown than at any other time. The loss can be lessened by feeding a little new wheat in the morning and greasing top of head, top edge of wings and around the vent for lice. Three good rules to follow in turkey raising are: Keep them clean, keep them dry, keep them free from mites. Parasites are the greatest danger of young turkeys.

Fairview, Kan. B. C. R.

Beet Pulps Make Hens Lay.

[Prize Suggestion.]

Mr. Editor—I have found beet pulp a very good winter feed for laying hens. It not only serves as a green feed but in soaking it I find the pulp will absorb a large quantity of water which is needed in abundance for egg making. To produce the maximum number of eggs a hen must drink a lot of water but this is just what she will not do in cold weather and that is one of the reasons why many people get few eggs in winter. By soaking the pulp the hens get this needed water with their feed. When a hot mash is fed one-fourth of it may be beet pulp. It may be bought at small cost at almost any feed store and a bag of it will go a long way.

B. R. Sherman.

Centerville, Kan.

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

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

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

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

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

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

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

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



A coming poultryman and his big bronze tom. Who says turkeys are wild birds?

Guard against chill and dampness. Feed bread crumbs and hard boiled eggs for the first week or two, then gradually work in cottage cheese, peppering it a little. Feed green stuff, and after they get older some grain. Be sure to keep them free from lice. Look for lice on the head and under the wings.

Mrs. B. F. Wilcoxon.

North Platte, Neb.

Turkey Mothers Preferable.

[Prize Letter.]

Mr. Editor—I find the best way is to let the turkey hens have the poults. I gather the eggs as soon as laid, keep them in a box in the house and turn them every day. When enough eggs are laid to make two settings for each turkey, I set them, giving the turkeys all the eggs they can conveniently cover. The rest of the eggs are placed under chicken hens, but when hatched I give all the turks to the turkey hens.

I keep the broods penned for two weeks and feed them five times a day. They do not get anything until 36 hours old and are then fed only sparingly on stale bread soaked in sweet milk, and cottage cheese. They also get some grit. After two weeks I turn them out, and let the turkey hens look after them, feeding the flocks only night and morning. By these methods I reared 45 turkeys last season out of 52 hatched.

Mrs. C. R. Cramer.

R. 1, Parsons, Kan.

Old Turkeys the Best Mothers.

[Prize Letter.]

Mr. Editor—My turkeys usually begin laying after March 1. To keep the eggs from chilling when this time comes the hens must be closely watched, as it is their nature to hide their nests. It is

This INDIANA SILO is worth more than the farm on which it stands



The West Virginia Farmer to whom we sold this Indiana Silo is now feeding 47 head of cattle where he formerly fed only 17 head. No more land under cultivation, no more crops planted, no more feed bought,—but the corn goes three times as far because cobs, leaves and stalks all go into his animals instead of into waste. Twenty-five thousand other farmers have found that the

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is the biggest money maker on the farm because it enables them to get 100% food value out of their corn crops and to have fresh, succulent feed all year round at less cost than dry feed.

The Indiana Silo is a quality article from the ground up. Only the best of silo materials enter into its manufacture. Our timber experts at the mills take the first selection. The highest grade steel is used exclusively for making our hoops, every one of which is capable of withstanding four times the strain that ever comes upon it. These are some of the reasons why Indiana Silos last so long without deterioration and cost so little for upkeep.

WRITE today for our catalogue and a free copy of the book "Silo Profits", which is the story of the Indiana Silo as written by scores of owners of Indiana Silos. And ask us for the name of our representative in your locality.

Remember you don't need cash to buy an Indiana Silo—It buys itself.

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Whose Word will you take?

A Car to Keep

You are going to buy a car to keep, if you're going to buy economically. And a car, on your roads, needs a sturdy foundation to carry its power and load for years, needs more than mere specifications and "looks."

Trained engineers can't tell by appearance what a car will do. They can't pre-judge materials any better than you, for the cheaper steels look the same as the costlier. They must analyze every piece of metal in a laboratory to know what that metal is, and will do.

A car seldom tells its story inside of a year. Then it fails or it lasts, according to what the maker puts into it.

You must buy your car on the material basis—on the unseen values—if you are to get a car to keep.

And you must take somebody's word for this quality until you have proved it out on the road.

The thousands of customers we deal with regularly know you can take our word.

For Seventy Years

For seventy years the J. I. Case Company—a \$40,000,000 concern—has manufactured the finest machinery in its line. For 70 years men have been trying it and finding out its worth. Some of our customers have dealt with us steadily for more than 50 years. For seventy years the business has been operated on a close-margin policy. You know Case Products. You know how they last. You know, by results (you do or your friends do) the grade of materials we use.

Case Cars are made by the same company that has made this machinery for so long. They are made on the same close margin of profit. Don't you think, selling to the same people who use our machinery, we would use the best materials for the purpose throughout in these cars?

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A car to be good today must be good for a lifetime if the buyer wants to keep it. City cars that run but a few thousand miles won't do on American roads,

We could make large savings on the cost of our motors by using cheaper materials. We could save on our clutches, transmissions, drive shafts, wheels and other vital parts.

We could make large savings on axles if we used other than complete Timkens.

We use the same radiator that \$5,000 cars employ.

We could cut our assembling cost in two and this cost is one of the greatest.

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No expense is too great, no method too irksome, to perfect every part in fit and in quality. For Case Automobiles, like all Case Machinery, must operate perfectly, and must last like a tractor with one-tenth of a tractor's weight.

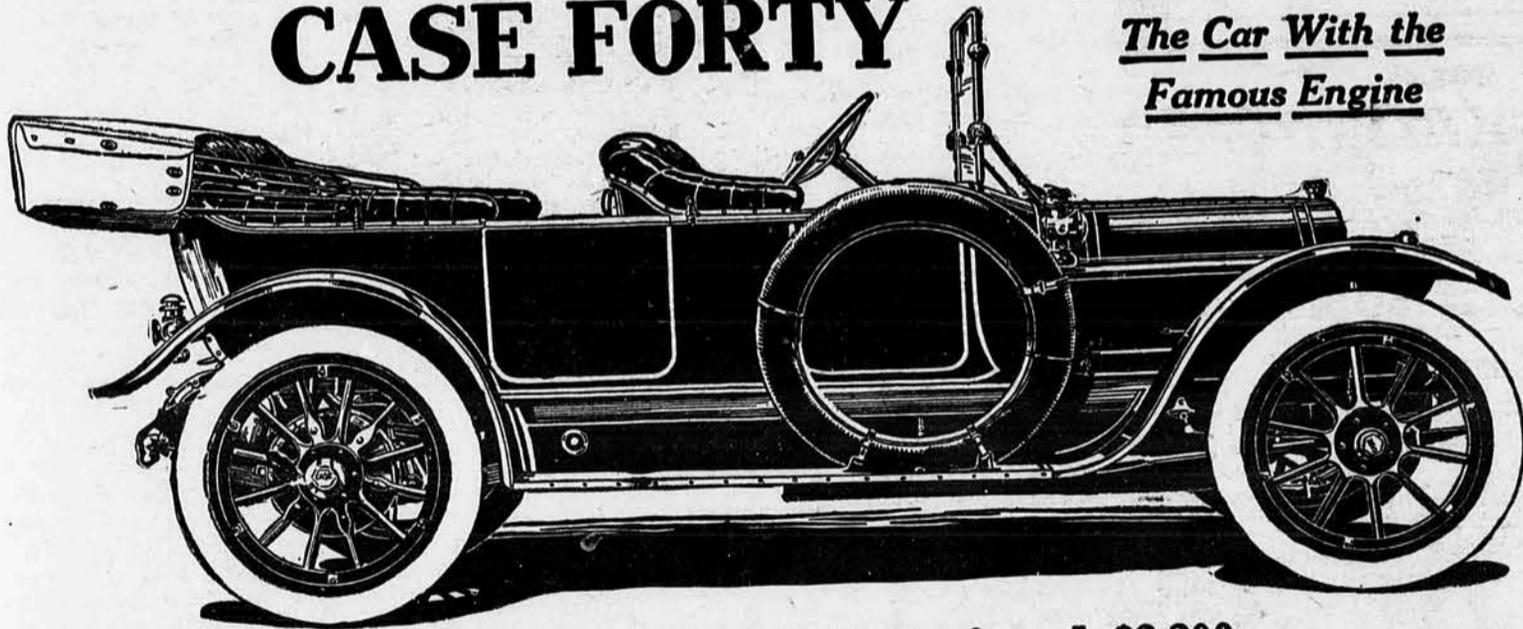
One must use the finest steels in existence to get both strength and lightness.

So we use this care and these better materials throughout the entire car.

No other car that we know, selling at anywhere near our price, uses such care and materials. No other can.

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Westinghouse Electric Starter and Electric Lighting Outfit for all Lamps; Side and Tail Lamps, Combination Oil and Electric; Warner Autometer; Electric Horn; Rain Vision Ventilating Wind Shield; Mohair Top, Side Curtains and Cover; 37x4 1/2-inch Tires; Firestone Demountable Rims; 124-inch Wheel Base; Three-Quarter Elliptic Springs; 4 1/2 x 5 1/4-inch Cylinders; Brown-Lipe Transmission; Timken Full Floating Axle; Rayfield Carburetor with Dash Adjustment; Bosch Magneto, Dual System Single Point Ignition. The usual Tools, Tire Repair Kit, Jack, etc. And in addition Extra Tire and Tube on Rim, Extra Tube separate, Tire Chains, Tire Cover and Handy Work Light on long wire.

The Reason

No maker of automobiles alone could effect our manufacturing savings, for we didn't have to create a new business.

We added practically nothing to our selling expense. We had all our agents before a car was turned out. We added no salaries for officers, sales manager, advertising department, office rent or other overhead charges.

We need only reasonable profits. Our system, built up through seventy years, permits us to pare them down to the minimum, to effect great factory economies.

It allows us to put all this into the car, to put better things in a Forty than ever went into a Forty before.

You get the benefit of these savings. They pay us no money, save that which "goodwill" brings to a firm that obtains it. They pay you, through better materials, in upkeep, repair bills, and in the cost of new cars every year.

Don't you think them worth while? Go to a Case Branch or one of our 10,000 dealers and see this new Forty. Ask to ride in it. See how it runs. Note its style and equipment. See also the Case Thirty at \$1,500.

Send the coupon for letters from owners that tell their experiences, and the

Case Catalog describing the Case Forty and the Case Thirty in detail.

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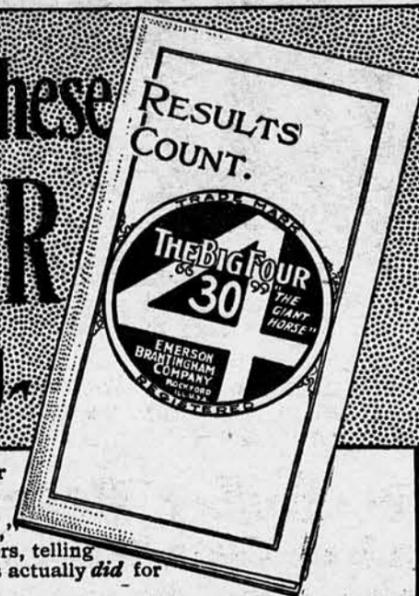
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In selecting your farm tractor you need not base your judgment on the claims of the makers. This book, "Results Count," contains extracts from users' letters, telling just what their BIG FOUR tractors actually did for them in everyday use.

When you buy a BIG FOUR "30" you are not buying an experiment. It was the first successful tractor—and it still leads. It is the first to utilize the efficient, continuous power stream of the four-cylinder principle.

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Only Tractor SOLD ON APPROVAL. Steers self, saves one man. Mammoth 96-inch Drive Wheels. Most Power at Lowest Cost. The BIG FOUR "30" uses kerosene, gasoline, benzine, naphtha, distillate or alcohol, with unequaled economy and efficiency. It is the most efficient, most reliable, most economical farm power in use today.



Self-steering device, found on no other tractor, saves one man. No farmer who has ever used the BIG FOUR or seen it work will have any other.

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

Making Money With Ducks

Pekins and Indian Runners Are Favorites

It is evident from inquiries reaching Farmers Mail and Breeze that duck raising is a rapidly growing branch of the poultry industry where shipping facilities are good. We have other good letters to print later from those engaged in the work.—Editor's Note.

May Be Hatched by Machine.
[Prize Letter.]

Mr. Editor—At this time of year the best way to start in the duck business is to buy eggs, as these may be shipped with less risk than birds. I prefer the White Pekins for several reasons. When the ducklings have hatched leave them alone in the nest or incubator for one day and let them get dry and hungry. Have a wooden foster mother for them that is warm and dry and do not put more than 30 ducks together. Make liberal provision for fresh air, for lack of ventilation causes sore eyes. I have seen cases of total blindness as a result of such neglect. Arrange a water dish for drinking only and not bathing.

For the first three days feed at least five times daily, a mixture of equal measure of bread crumbs and rolled oats with a little sand mixed in. Moisten this with a little water, but do not get it sloppy. Then for one week feed bread crumbs, oats, bran and meal dampened. After that leave out the bread and oats and let them have meal, bran, low grade flour, fine cut green food and meat scraps. Never let the food sour and give only what the ducklings will eat up clean each time. Drinking water should always be fresh and clean.

Do not let them out on cold, stormy days, for a duckling dies if it becomes wet and exhausted. Also provide shelter against the hot sun. If you want to raise ducks for profit, fatten and market them when 3 months old. Feed all they will eat up in 15 minutes three times a day. One can make a success of duck raising by going at it in a sane, methodical way, but to the novice I would say, "go slow."
Mrs. F. D. Jester.
Felton, Del.

Feeds That Are Best to Use.
[Prize Letter.]

Mr. Editor—I have had good luck raising Indian Runner ducks and do not think they are as much trouble as chickens, while they are more profitable. It takes four weeks for the eggs to hatch. When hatched do not let the ducklings have anything to eat for 48 hours, but give them some water with sand in it. Have the water deep enough so they can get their bills into it above the nostrils. One must be careful not to let them get into the water, for they will get water soaked, which kills them.

I get a sod of grass and let them pick it for their first feed. Then give them some kind of soft feed mixed with sand but never whole grain. Meal, oatmeal and clabber cheese are good for soft feed. In a few weeks they will get most of

their feed from green picking, bugs and worms. I think it best to raise them by hand rather than let a hen have them, as they will not stay with a hen long. The Indian Runners are very hardy and aside from their feathers lay an enormous number of eggs.

Mrs. Ethel Hammons,
Bronson, Kan.

To Market Size in Nine Weeks.
[Prize Letter.]

Mr. Editor—I have tried several breeds of ducks, but find the Indian Runners the best. They are non-sitters, light eaters, hardy, healthy, easy keepers, quiet and friendly and will lay 200 eggs a year, rivaling the best egg breed of chickens. The eggs have a delicate flavor and are as suitable as hens' eggs for the table. They are larger than hens' eggs and command from 10 to 20 cents per dozen more than the latter in city markets.

These ducks grow to a market size in nine weeks and fill all the requirements of a market duck. The ducklings grow to maturity in less time than any breed of chicks. They are a dry land fowl and do not need running water to thrive and do well. All that is necessary is a sufficient amount of clean drinking water. The Runner ducks are good breeders until about 3 years old. I have hatched the eggs in an incubator with good success, but one must keep the heat well up or a little higher than for hens' eggs, as the eggs are larger and require more heat.
B. E. Arnold.
Waterville, Kan.

Operating a Brooder

[Prize Letter.]

Mr. Editor—A good brooder should be constructed so the heat in it may be controlled. The lamp should be lit in plenty of time to thoroughly warm the brooder and when the thermometer shows the desired heat, tighten the regulator until the damper rises barely clear of the heater, the same as with your incubator. If your regulator is reliable and works freely, you can trust your chicks to the brooder's care with no fear they will become overheated or chilled.

When chicks go into the brooder for warmth as at night, the heat from their bodies will raise the temperature considerably but if your regulator is a good one and properly adjusted there need be no fear of the chicks overheating as the damper will rise and let the surplus heat escape. As the chicks get older and require less heat, tighten down the regulator and reduce your lamp flame accordingly. Evenness of temperature in the brooder is of vital importance in raising chicks.
Walter C. Swabby.
R. 2, Windom, Kan.

FREE TO POULTRY RAISERS.

Great Book of Money-Making Poultry Secrets—Given to Mail and Breeze Readers.

The well-known poultry authority, Mr. Reese V. Hicks, has written an intensely interesting and practical book that should be in the hands of every person interested in raising poultry for profit.

This book is "Tricks of the Poultry Trade"—the one different, desirable poultry book of the year. Among the many valuable secrets found only in this book are the following: Three methods of selecting the laying hen; A sure and certain method of selecting eggs for hatching; How to raise 500 chickens on a lot 30 by 40 feet; How to build a natural hen incubator; How to build feed hoppers and fireless brooders; How to make feed at 10 cents a bushel; How to make winter egg ration, poultry feeds and tonics, egg preserver, loose killers; How to grow pullets that lay young and make a large egg yield; How to handle incubators to best advantage; The trick of securing more pullets than cockerels; How to tell age of eggs and fowls; How to prevent lopped combs.

All these and many more subjects—too numerous to mention here—are fully covered in this great book. It is big value for two dollars of anybody's money—but we're giving them away FREE on this plan: We will give you one year's subscription to Farmers Mail and Breeze, one year's subscription to Poultry Culture, the best poultry journal in the West, and one copy of this great book of poultry secrets—all for only \$1.25. State whether you are an old or new subscriber. Address at once, Arthur Capper, Publisher, Topeka, Kan.



"Can't-Sag" Gates Save You

Cost only one-third as much as ordinary iron, wire or gas pipe gates, but last twice as long. Neat in appearance—best and strongest gate made—light, easy to handle, opens both ways. Boards are double bolted between eight angle steel uprights and double truss braces, guaranteed never to sag.

Cost Less Than All Wood Gates—Last 5 Times as Long
Can't-Sag Gates are furnished complete, ready to hang, or just the Gate Steels which include everything except the boards. Patent self-locking hinge feature—reinforced two piece malleable hinges. Six Triangular Truss Braces make gates extra strong.

Improved Elevating Attachment permits the gate to be raised full length from 6 to 50 inches, so small stock can pass under, and to swing over now.

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Alvin V. Rowe, Pres.
ROWE MANUFACTURING CO.
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BIG MONEY
"Can't-Sag" Gates & Steels

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THE 163 different styles, sizes and weights of "Pittsburgh Perfect" Fence afford a variety from which to choose fencing scientifically designed to perfectly and economically inclose any field, farm, ranch and lawn, and the "Pittsburgh Perfect" chicken, poultry or rabbit yard and garden fences are famous the world over.

When buying fence, select that style specially made for your particular purpose, for in this way only can you experience greatest fence-efficiency and satisfaction at lowest cost. "Pittsburgh Perfect" Fences, made of heavily galvanized Open Hearth Wire, with every joint WELDED BY ELECTRICITY, excels in strength and durability, and invests your property with a distinctive appearance of neatness and prosperity.

EVERY ROD GUARANTEED PERFECT

Dealers everywhere sell "Pittsburgh Perfect" Fences. We will gladly send free our complete catalogue showing all styles and sizes, and giving valuable information on fence-building, etc. Write for it today.

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Makers of "Pittsburgh Perfect" Brands of Barbed Wire; Bright, Annealed and Galvanized Wire; Twisted Cable Wire; Hard Spring Coil Wire; Fence Staples; Poultry Netting Staples; Regular Wire Nails; Galvanized Wire Nails; Large Head Roofing Nails; Single Loop Bale Ties; "Pittsburgh Perfect" Fencing.



Guineas Are Good Eating

BY MRS. SARAH PETERS.

(Written for Farmers Mail and Breeze.)

Guineas cost very little for feed and that only in the winter season when snow is on the ground or in cold and stormy weather. During the summer they will more than pay for their winter feed in the amount of troublesome insects they clean up. They will also find a great deal of grain that would otherwise go to waste.

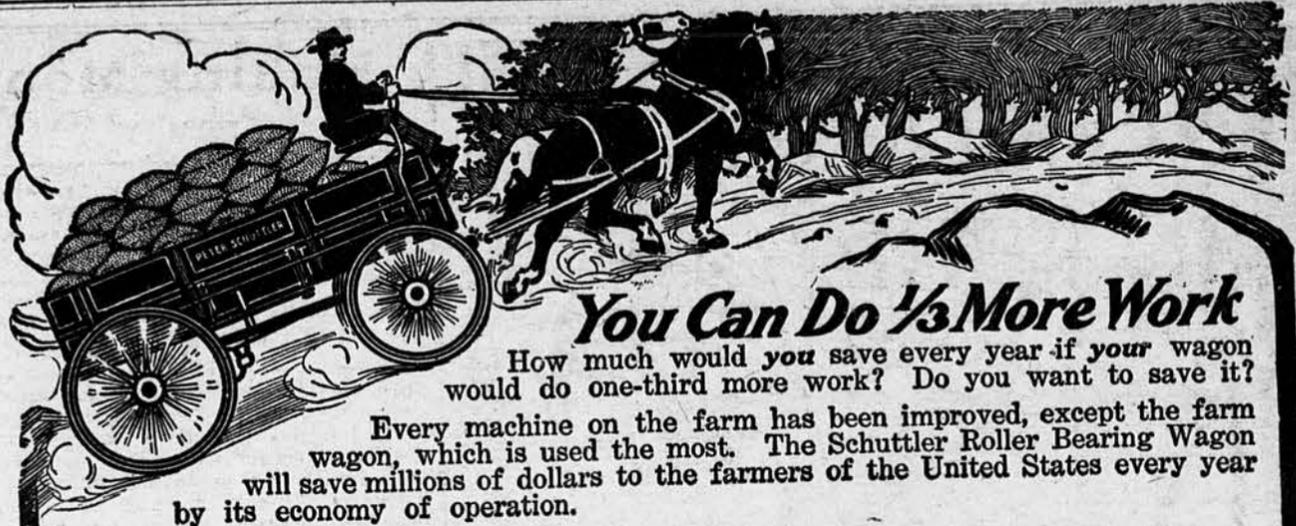
After getting them to the age of 2 weeks it is seldom that a guinea is lost. I have never known of one to be caught by a hawk. They also furnish protection to other poultry, as they give the alarm on the approach of any strange object, whether a person, dog or hawk. They are also weather forecasters. When grown they roost in the trees but in winter on the approach of a storm they will come to the poultry house to roost. Guineas do not stand confinement.

There should be one male to every two or three females, but the males should not be kept more than three seasons. The females begin laying about the time the leaves appear in the spring and will keep it up almost continually until the leaves fall. They are very shy about their nests. If the eggs are gathered every day they will change nests frequently. It is a good plan to rake the eggs from the nests with sticks late in the afternoon.

Meat Has a Gamey Flavor.

We think there is no better table fowl than guinea fies at about 2 pounds. They have a sweet juicy flesh like wild game and it is not tough or stringy. I have never raised them for market as they will only bring about 20 cents each here, and 25 to 35 cents as breeders. I have no eggs to sell.

I prefer to have the eggs hatched under hens. The guinea mother has a habit of strolling too far away from home and wears out the chicks. I confine the brood and hen in a pen of boards 14 inches high, 10 feet long, and 4 feet wide, with a roosting coop in one end. The chicks must be kept perfectly dry, as they cannot stand chilling. They need the sunshine, but must also have shade for warmer weather. I feed them



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Every machine on the farm has been improved, except the farm wagon, which is used the most. The Schuttler Roller Bearing Wagon will save millions of dollars to the farmers of the United States every year by its economy of operation.

Peter Schuttler Roller Bearing Wagons Have Revolutionized Farm Wagon Construction

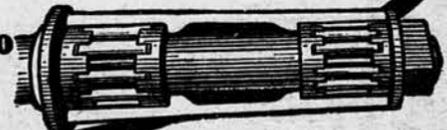
They run one-third to one-half easier and require less power to pull the load. They go more miles, and two horses can easily do the work of three. They save time—horses—harness—feed—repair bills—greasing—trouble, and wear on the wagon. It means a big saving to you in time and money, and is much easier on the horses. Official tests by Road Experts of the U. S. Department of Agriculture show remarkable results. You owe it to yourself to investigate.

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nothing until they are 36 hours old and then their first feed is sand.

They are kept in this enclosure for two weeks when I begin letting them out a while before sundown so they will not stray far from home. I believe the chicks are more subject to diarrhea than those of other poultry. I give them fresh water frequently and mix a little germozone in it.

Must Be Free From Lice.

They must have plenty of grit. I have had the best success by feeding

cracked Kafir and cracked wheat the first two or three weeks with an occasional supply of milk curd squeezed and drained dry which is a good substitute for bugs or meat. One essential thing is to keep them free from lice.

When 3 weeks old I teach the brood and hen to roost in a larger house, which is floored. The chicks are great fellows to fly up and roost and should have some special roosting poles about 2 feet from the floor. They will follow the old hen everywhere, even when

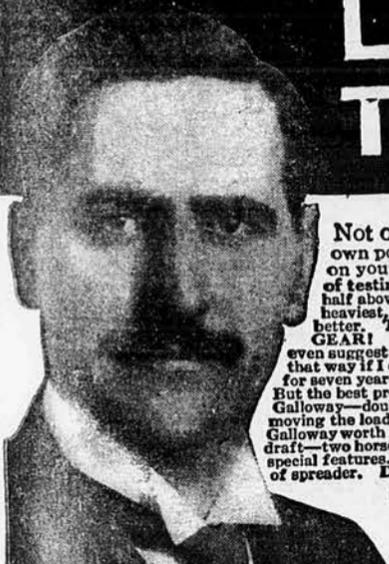
grown, and will often do so the next season if she clucks to them.
Nashville, Kan.

Crack Kafir For Baby Chicks.

Mr. Editor—We find Kafir one of the best and cheapest feeds for all chickens, old or young. For the chicks we crack it by running it through an old coffee mill but when a week or 10 days old they will eat it whole just as well.
Homer Cotton.

R. 2, Cherryvale, Kan.

Let Me Ship YOU FREE This 1913 Spreader



Not one cent down. No bank deposit. Keep your money in your own pocket. I just want you to try my new Spreader, that's all. Try it right on your own farm for a whole month free. Test it out as you wouldn't think of testing any other spreader in the world. Pile on the manure a foot and a half above the box. Put on all she'll hold. Take the fine, powdered stuff or the toughest, heaviest, tramped-down, slough-hay kind from the calf yard. If it's frozen, so much the better. Take it into your field, whip your team to a gallop and SLAM IT IN GEAR! Say, I know that's an awful test. So do you! A test no other manufacturer dares even suggest to you. But do you think for a minute I'd ship you a spreader and let you abuse it that way if I didn't know it would make good? I know what I'm doing. I've made the same offer for seven years, and the Galloway today is better than ever. 40,000 farmers have proved it. But the best proof of all is the machine itself—eleven patented features—all exclusive with the Galloway—double drive chains furnishing power from both wheels alike direct to the beater and moving the load. The only endless apron force feed, roller bearing feed spreader built. Makes the draft—two horses will handle it easily. Pull between wheels entire way on the reach—and many other special features. I can't tell them all—just get my catalog before you buy any other make or style of spreader. Do it today.

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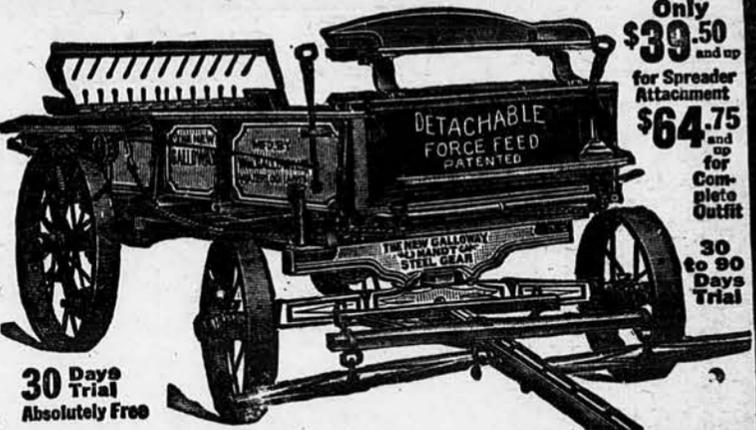
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The only book of its kind in the world. It tells you just the practical facts every man ought to know about fertilizing. Tells how to handle manure, how to treat it, keep it and use it to the best possible advantage. Worth a hundred dollars to any business farmer. Regular price one dollar. Free to you when you write me.



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WILLIAM GALLOWAY, President, THE WILLIAM GALLOWAY CO., 209 Galloway Station, Waterloo, Iowa

I want to know more about that 1913 offer of yours. Tell me all about it and send me your latest manure spreader book and your valuable book of information, "A Streak of Gold," free.

Name.....
Town.....
County.....
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You know Galloway. You know his fair, square, straight-from-the-shoulder way of doing business direct with the farmer from his factories and saving you the 30% to 50% middleman's profit. No man in the country ever gave the farmers as square a deal as Bill Galloway.

Now, I'm out to break my own records. I know I've done it, but I'm going to leave it to you. If you can figure out a fairer proposition than I'm making for 1913, I wish you'd write and tell me—I can't.

Write Me—Get My Special 1913 Proposition

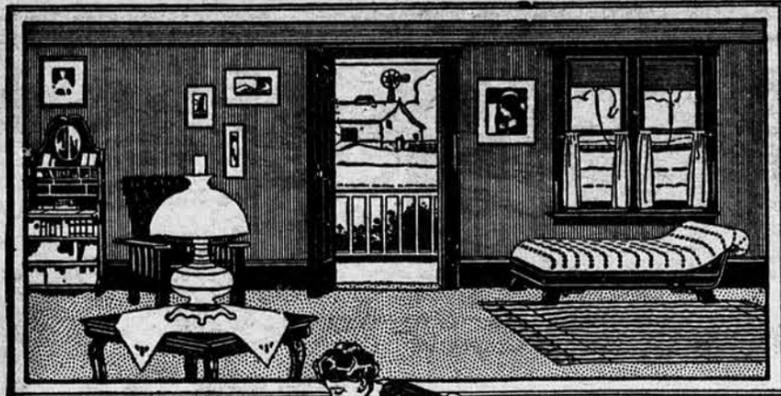
Here comes the best news of all. I am going to help you get your spreader partly or even entirely free. No canvassing—no soliciting. When I say free, I mean FREE. I've been four years working out this plan, and say, it's the biggest, fairest and most liberal co-operative offer ever made. Now, I want you to get my offer right away. I don't want you to wait a minute. I have a special reason for wanting you to hurry and I'll tell you when you write me.

Here's the Proof:

Gentlemen: My Galloway Spreader was ordered about the first of February, 1908, and is a 50-hp. machine. I have run over a thousand loads of manure through it. Perfectly satisfied.—W. G. SUTFIN, Dundee, Ill.
Sir: My Galloway Spreader works as fine as silk, and I have the \$30 left that it would have cost me if I had bought a trust spreader.—S. E. TRENKS, Geddes, S. D.
Dear Sir: The spreader I bought of you is a dandy. I have hauled 150 loads with it without the least trouble and with two small horses not weighing over 1,100 pounds each. I use the 60-hp. size and I would advise anyone in need of a spreader to try the Galloway and see for themselves. It is the lightest running and the strongest in the market today. It is O. K.—GER. MCCARTHY, Monona, Iowa.

William Galloway, Pres., WILLIAM GALLOWAY COMPANY, 209 Galloway Station, Waterloo, Iowa
Remember, we carry spreaders in stock at Chicago, Kansas City, Council Bluffs, Minneapolis and Winnipeg.

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will give you some valuable suggestions about the decoration of your home, both inside and out. It will be found just as interesting by the housewife who wants to brighten up a chair as by the farmer himself with the problem of house painting before him. You will be surprised at some of the effects made possible by the many Sherwin-Williams Finishes—and all at a low cost. We will be glad to send the portfolio free upon request.

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Advantage of Early Hatches

BY T. E. QUISENBERRY.

Director Missouri Poultry Experiment Station.

[Written for Farmers Mail and Breeze.]

IF YOU want a few pullets to lay in the fall when the old hens are molting; if you want a few birds to win prizes for you at the early fall fairs and shows; if you want a few pullets to enter the next egg-laying contest and have them ready to lay from the very beginning, hatch at least a few early chicks. One mistake which most western breeders make is that they do most of their hatching in May and some even much later than this. The eggs are usually a little larger earlier in the season, the hens have not been laying long and they fill the egg full of meat and vitality, the chicks hatched from them are stronger and grow more rapidly. In this section of the country we always have less trouble raising the earlier chicks.



T. E. Quisenberry.

One of our largest and most successful farms never hatches anything after April 15. The result is they have a lot of mature pullets which lay in the fall and winter when eggs are high. The poultry farmer should endeavor to have his pullets blossom just at the right time, when eggs are high, just as the florist has his flowers blossom and ready to supply the demand at Easter time.

In the early part of her laying period, a hen is fresh and vigorous and stores all the vitality in the egg and germ that her constitution permits, but later on she is weakened, she hasn't the vitality she had earlier in the season. Much of the trouble which we have with sick, weakly, runty chicks is due to this very thing. The destiny of the chick is largely determined by the vitality of its parents. Hatch at least a few early chicks.

Mountain Grove, Mo.

Raising Broilers For Market

BY W. J. NEFF.

[Written for Farmers Mail and Breeze.]

BLACK LANGSHANS are better for the broiler business than many other breeds of chickens I have tried. They are quick-maturing birds and average 10 to 15 cents more profit per bird, for me, than any of the others.

One must have good eggs from good stock for broiler raising. You often hear it said that it does not pay to go to the expense of getting high-priced eggs from blooded stock for broilers but my belief is that the better the stock you buy the greater your profits. I generally pay \$1.50 per setting of 15 eggs at first and later in the season \$4 to \$6.50 per hundred. I think this is money well spent.

For Early Broilers.

When I want early broilers I set the incubators about January 15 and have no trouble in getting 80 to 90 per cent hatches at this time. The machines are placed in a warm place and eggs are not chilled in turning them. I turn the eggs twice a day, fill lamps and trim wicks every morning. I keep the tanks filled at all times and never have any trouble with the machines while hatches are coming off.

On top of each incubator I have a box lined with old woolen goods into which I put the chicks as they come from the machine. I cover them with the same lining material. They are left in this box until 48 hours old when I put them in the brooder.

Buy Mash For Chickens.

In the bottom of the brooder I keep chaff or straw in which they get their dry mash made up in the following proportions:

- Fine cracked corn..... 1 bushel
- Cracked wheat..... 1 bushel
- Cracked Kafir..... 1/2 bushel
- Millet..... 1/4 quart
- Fine oyster shells..... 4 pounds
- Fine charcoal..... 1 pound

The meal is sifted out of the cracked corn and I also sift the oyster shells in a No. 40 sieve, feeding the fine portion. The broods also have access to bran and fresh water at all times. I put a bit of permanganate of potash in the drinking water. These are the feeding methods of the first 21 days.

Forcing Early Maturity.

Brooders are cleaned out every morning. When ready to leave the brooder I put the chicks in small houses, holding about 25 each, and feed larger grain, plenty of grit, ground bone twice a week, plenty of greens, and chopped up potatoes, turnips, cabbages, etc. They surely do grow on this diet.

When about 50 days old I put my broilers in little pens 20 inches wide, 20 inches high, and 6 feet long. Top and bottom are lathed except at one end which is enclosed for a roosting place. Each of these coops will hold 25 to 30 broilers and here I feed them until 65 to 70 days old on shorts mixed with clabber so as to have it about like bread dough and crumbly. They have all the water they want with this.

Sell at 40 to 60 Cents Each.

At the end of this time they will weigh from 1 1/3 to 2 pounds and will bring from 40 to 60 cents each.

Last year I sold 900 broilers at Ft. Riley, averaging 1 pound and 2 ounces, at 40 cents each. I have 18 chicken houses with pens 25 feet wide and 125 long. My houses are 8 feet high in front, 5 feet in the back, 6 feet deep, and 10 feet wide. I have wide glass in front which is replaced by wire in summer.

Junction City, Kan.

Cold Weather Care and Feed.

Mr. Editor—I doubt if many of the readers of the Mail and Breeze get any better results from their flocks than we do. When winter comes we are sure to have our poultry house well cleaned, and the floor sprinkled over with lime and ashes. We have a scratching shed, well covered and walled on all but the south side, which is curtained with heavy burlap. The north wall is covered with heavy roofing paper.

In the straw in the scratching shed they get their grain—Kafir, milo, corn, wheat, oats, etc., twice a day. They also get a mash of bran and milk in which a little cayenne pepper and a pinch of salt are mixed. Occasionally also, a spoonful of soda is added. Sometimes potatoes are boiled for them and every time there are any potato or apple parings the flock gets them, chopped fine in a wooden bowl kept expressly for that purpose. They prefer dish-water to fresh water, but always have both to choose from. Sand and oyster shell are before them all the time. At no time are any of the birds allowed to roost out of doors during the winter season. Mrs. Abel E. Johnson. Frankfort, Kan.

"ARKANSAS."

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

2 Big-Value Clubbing Offers Good During FEBRUARY ONLY

In order to obtain 10,000 new subscribers or renewals to our paper during the month of February, we are making two exceptionally liberal clubbing offers which include our own paper and your choice of a number of other papers—each the best in its class—at just about half the regular subscription rate. Either of the two combination offers given below will provide a year's choice reading for all the family at a very special clubbing rate, which is good only during the month of February. Select one of these offers, and send in the coupon at once.

The combination must be just as given below—no changes can be made on these terms.

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

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

KANSAS WEEKLY CAPITAL is the largest and best weekly newspaper published in the state. Its pages are full newspaper size and are filled with the latest Kansas and state capital news items. Washington

correspondence, good stories, market reports, etc.

HOUSEHOLD MAGAZINE, a large family magazine containing the choicest stories and departments of particular interest to lady readers. An entertaining, instructive publication for all the family, 24 to 48 pages each month.

THE VALLEY FARMER, an independent, reliable farm journal, unique and original in its methods, and immensely popular with thousands of farmers in every state in the West; well edited departments for Livestock, Poultry, Veterinary, Horticulture, Dairy, Field Crops, etc.

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The Representative of the MAIL AND BREEZE says:

“Mr. Rahe, you have a wonderful institution. It is easy to see why your graduates get the best paying positions.”

That's what the representative of this great farm journal said after he had carefully inspected every department of the Automobile Training School.

Every visitor, every student, every graduate says the same. The Automobile Training School is an institution that invites inspection. It is a practical school. We have ten different class rooms equipped with thousands of dollars' worth of Automobiles, engines, magnetos, chassis, gears, lathes—in fact every kind of automobile equipment and machinery. But we regard our Garage and Repair Department as the most important factor in our instruction.

Scores of Automobiles are brought here for repair and adjustment. Our students lay aside their good clothes, don overalls, and under the careful guidance of our officers and members of the faculty, learn by practical experience how to repair quickly any make of automobile. This is a kind of instruction that other schools can not offer. In this great Garage and Repair Department our students are taught the details of garage management, how to buy and sell automobiles, as well as to do Expert Repair Work. It is here they gain that practical experience and expert knowledge that secures for the graduates of this school the highest salaried positions as Automobile Salesmen, Demonstrators, Garage Managers, Repair Men and Drivers.

Automobile Training School graduates are in demand. The letters reproduced below are from the Studebaker Automobile Company, the Winton Motor Car Co., and others regarding the efficiency of our graduates. We will gladly send you letters from our graduates, many of whom formerly earned only day wages, but who now have responsible and good paying positions. Many are in business for themselves and making big money. It is a fact easily proven that the Automobile Training School of Kansas City has many times more graduates holding responsible positions than all other Automobile Schools in the West combined.

Earn \$75 to \$200 a Month!

The woods are full of ordinary men. Jobs for them are scarce. Good opportunities are open only for trained competent men. Be one of them. You can earn big money in the auto business provided you prepare yourself for the right kind of work. A large auto dealer said recently: "There are not half enough competent reliable automobile men to supply the demand in the west, let alone the big cities in the east." Auto experts earn \$75 to \$200 a month, some of them a great deal more. Scores of our graduates now hold these responsible places because they can do expert work. In every city the demand for trained automobile experts is enormous. For years to come this condition will exist because the auto truck business is still in its infancy and it will require thousands of trained men to fill the need in this branch alone.

NOTICE TO EMPLOYERS:
Concerns desiring the services of expert, trained men as Repair Men, Salesmen, Garage Managers, Demonstrators or Drivers at salaries of \$15 to \$50 a week are requested to communicate with us. The service is gratis.

Garage Owners Make Big Money!
Almost any town is a good location for a garage and repair shop if there are ten or more cars in the locality. In our office we have many letters from business men who have asked us to place a graduate of our school in their city, and have him open a repair shop. We are glad to help the graduates of our "C" course to find profitable locations. The earnings of a properly conducted garage in a good community should be from \$1,000 to \$5,000 a year.

Read These Letters from Automobile Manufacturers

THE STUDEBAKER CORPORATION.
Automobile Department,
Kansas City, Mo.
Automobile Training School,
Kansas City, Mo.

Gentlemen: No doubt you will be pleased to learn that one of your graduates has been promoted to the position of Road Expert. The balance of the boys in our employ who came from your school are doing exceptionally good work. You have the unqualified endorsement of the local Studebaker Agency.

Yours very truly,
THE STUDEBAKER CORPORATION,
By J. L. Purcell,
Manager Retail Dept.

WINTON MOTOR CAR COMPANY
Manufacturers of
WINTON MOTOR CARS
"Winton Six"
Kansas City, Mo.
Automobile Training School,
Kansas City, Mo.

Dear Mr. Rahe: Our master mechanic at the Kansas City Branch, Mr. Hucks, is an auto expert in every sense of the word. He tells me he owes everything to your practical training school. It is a pleasure to see the splendid work you are doing. The business needs more trained automobile men. Yours truly,
THE WINTON MOTOR CAR CO.,
By Geo. Arbuckle, Mgr.

W. R. DEMSTER
High Grade Auto Repairing,
Kansas City, Mo.

Mr. H. J. Rahe, Pres.,
Automobile Training School,
Kansas City, Mo.

Dear Mr. Rahe: There isn't any question in my mind that your automobile school is the best in the country.

I for one automobile repair man, would not think of having a student who came from any other school.

Yours very truly,
W. R. DEMSTER.

THE ADMIRAL GARAGE AND REPAIR WORKS.
Kansas City, Mo.

Mr. H. J. Rahe, President,
Automobile Training School,
Kansas City, Mo.

My Dear Mr. Rahe: For the past three years nearly all of our mechanics have been graduates of your school. It is a pleasure to state that they handle delicate repair work on magnetos and coil boxes like factory experts. It has often puzzled the writer that such expert knowledge could be drummed in a man's head in such a short time.

Wishing you continued success, we remain,
Yours very truly,
ADMIRAL GARAGE, W. A. Slusher, Mgr.

SCHERRER AUTO REPAIR CO.
Automobile Specialists
Automobile Training School,
Kansas City, Mo.

Gentlemen: The other night at a meeting of the Automobile Repairmen's Association, the members in general discussed the plan whereby they could hire competent Auto Repairmen.

It was then that I learned that nearly every garage repair shop and agency in Kansas City are hiring your students exclusively.

Hereafter when we are in need of competent help we will communicate with you. Yours very truly,
THE SCHERRER AUTO REPAIR COMPANY. By Chas. J. Scherrer, Mgr.

**NO BOOKS USED—
NO TOOLS TO BUY**

The Automobile Training School has no pretty picture books, and offers no charts or correspondence courses. These things don't teach you the automobile business so that you can go out and get a big salary. All our students receive individual practical instruction under practical conditions on real up-to-date automobiles. The progress of each student is carefully watched by our instructors.

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To Our Readers:—We recommend the Automobile Training School. They are reliable.—Editor, Mail and Breeze.

Keep it in the Barn

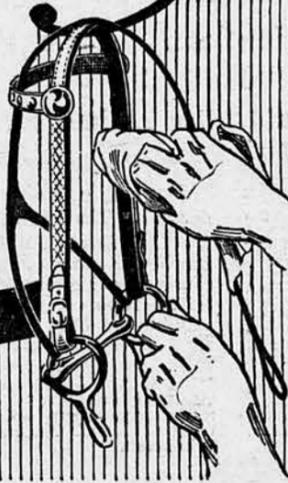
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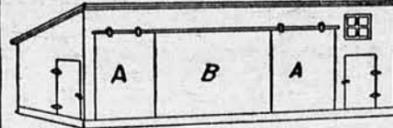


Some New Ideas in Housing

BY OUR READERS.

[Prize Suggestion.]

Mr. Editor—This is a likeness of the poultry house in use on the Emerald Grain and Stock Farm. It is 40 feet long, 12 feet wide, 10 feet high in front, and slopes to 6 feet in the rear. It is divided into three rooms, one 12 by 15 feet for roosting, another of the same size for scratching, and a 10 by 12-foot



DOORS IN PLACE OF CANVAS.

laying room. The house has a concrete floor and foundation with the frame bolted to the foundation. B is an open space facing the scratching room, and covered with 1/4-inch wire netting which keeps out all prowlers. A A are two slide doors large enough to cover the open space B when necessary. Hiattville, Kan. M. V. McNally.

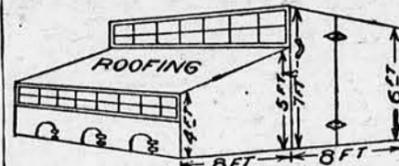
A Dickinson County House.

[Prize Suggestion.]

Mr. Editor—A good poultry house may be built after plans shown in the drawing. Such a house may be made any length desired and partitioned into 6-foot breeding pens, 16 feet deep, which would give 7 1/2 square feet per bird for one male and 12 females. The house should have a cement or board floor and can be so built as to make it rat, wind and rain proof. I prefer a floor of cement.

The house should front south and yards may be laid off for the use of individual pens if desired. This kind of house is also suitable for raising early hatched chicks.

The upper windows are hinged so they may be swung open at any desired angle or to be hooked up as the weather de-



GOOD FOR SEVERAL USES.

mands. The lower front is covered with 1-inch mesh wire and a drop canvas or windows may be used. The windows should be hung so as to swing in at any desired angle. Roosts are placed along the length of the building and set out 2 feet from the north wall, may be made to serve the purpose.

A roost shiled for cold weather can be made of a frame the length of the roosts and 2 feet wide, to be covered with sound burlap on top and sides. Place this frame 6 inches above the birds' heads and let the burlap hang a foot below the roosts. This frame should be drawn up out of the way each morning.

If nests are placed low enough not many hens will lay on the floor and it is often considered better still to place them right on the floor. A screen made of burlap so it will almost hide the nests make them more attractive to the hens and helps to prevent egg-eating. Abilene, Kan. William Scott.

Suggestions on Management

BY H. W. CHESTNUT.

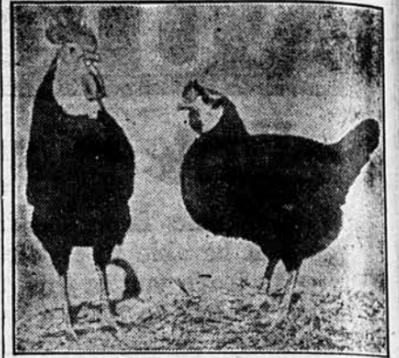
[Written for Farmers Mail and Breeze.]

I am a crank on watering poultry properly. In summer the first thing I do is to get a pail of fresh water and fill the cement watering troughs after cleaning them. On very warm days I repeat this at noon. On cold days in winter the chill is taken off the water before the flock gets it.

To keep my prize birds from getting their wattles wet and frosted I use candy buckets for drinking vessels, in which I have six or eight holes. The cover is cut down to fit inside the bucket so the only way the birds can drink is by putting their beaks in the holes. Drinking vessels and grit boxes are placed on a stand 18 inches off the floor so the litter cannot be scratched into them.

The variety of feed that poultry re-

quires can nowhere be furnished so cheaply as on the farm. All the grains can be raised and green feed may be supplied for winter by growing mangels, turnips, cabbage, etc. I consider Kafir the one best feed for poultry. You can get more exercise out of the flock by feeding it than with any other grain.



A pair of Judge Chestnut's White Faced Black Spanish Birds.

Fed thrashed in a litter or on the head it makes the birds work.

An open front poultry house with canvas curtains for stormy days and nights, dropping boards with nests underneath, and the rest of the floor space covered with scratching litter, is about all there is to say for good housing. The meat problem may be solved by keeping several rabbit traps set. Skin the rabbits, let the hens do the rest and you will be surprised at the effect this will have on the egg basket.

Put Hog Cholera Under Ban

The Kay County Swine Growers' association held an enthusiastic meeting in Blackwell, Okla., recently and a permanent organization was perfected with T. N. Athey, president, and J. A. Schmitt, secretary. The association will work for legal and other measures to suppress swine diseases, particularly cholera. A state meeting will be held in Blackwell on Tuesday afternoon, February 4. The co-operation and presence of every interested swine grower is requested.

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Can't Beat the Open Front

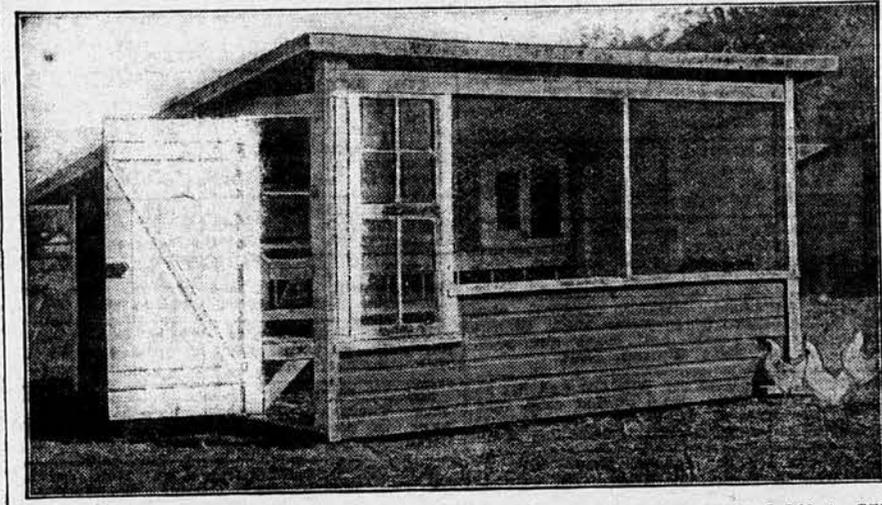
No Better Type of House For Your Flock

THE style of poultry house that has received more general approval from the poultry fraternity than any other is the type known as the "open front" house. The essentials in a poultry house are location, economy of construction, convenience, comfort, good ventilation, and good sanitary surroundings. This type of house can be made to combine all these qualities.

A common mistake is locating the poultry house too close to other farm buildings and the dwelling house. Very often it is built between the two. This results in the outbuildings being overrun by the chickens and the back porch of the house being used by them as a loafing place, especially if table scraps are thrown out from time to time. A well drained spot to one side of the other buildings, yet convenient and with a windbreak of trees if possible, is the ideal location. The orchard well serves the purpose, provid-

the nests. The hens enter the nests from the rear, the front being covered by hinged drop doors, one door to each three or four nests to facilitate egg gathering. Grit boxes, mash hoppers, and water fountains are placed at one end of the building, on a low shelf or hung to the wall. An enclosure of wire netting at one end of the roost section is used to cure chronic setters. In one of the front corners of the house a box-like enclosure on the floor contains dusting material.

Many a farm poultryman has shied at the open front house, believing it to be unsafe in winter on account of the exposure. Once given a trial, however, he will soon learn that his fears are groundless. On the average sunshiny day in winter it will be far more comfortable in the open front house than would be the case if the house were solidly enclosed and sunlight shut out. On a cold night drop the curtain in front of the roosts and your birds



Open front house for small flock that may be built at a cost of \$40 to \$50. These houses may be made to accommodate as many birds as desired by simply lengthening them and putting in partitions.

ed the trees do not shade the yards too much and prevent their drying off readily after a rain or snow.

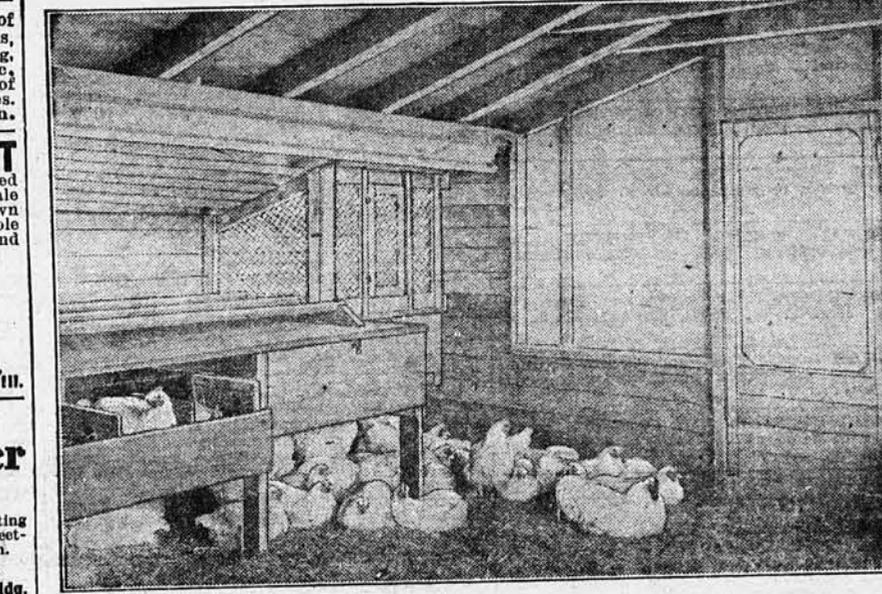
The type of open front house shown in the cuts is simple of construction and may be built to accommodate as many birds as desired by simply lengthening it and putting in partitions. The enclosed sides are of drop siding with 3-ply roofing paper to cover the roof. The north wall inside is sealed and this sealing also extends up the roof to a point over the edge of the dropping board where a canvas or muslin curtain is suspended which may be dropped down in front of the roosts on cold nights. A second curtain hung just inside the wire netting covering the front, may also be let down on stormy days or nights.

The house faces the south and all fixtures possible are placed in the north end so as to have as large an open space as possible in the front where the birds may get the sun and work in the litter. Low, movable and level roosts are placed above the dropping board which is made of matched flooring. Directly underneath the front of the dropping board are

will be snug behind it with the warmth from the birds' bodies keeping the temperature above the point where combs and wattles might be frosted. On very stormy days the front curtain may be dropped for further protection. The big argument in favor of the open front is that it provides fresh air and ventilation without drafts, and too much emphasis cannot be placed on these two requisites in the poultry house.

Cherokee's Soil Map Making

The field work of the soil survey of Cherokee county, Kansas, made by experts of the bureau of soils, U. S. department of agriculture, has been completed and the report will be issued during the latter part of the coming summer. A soil and topographical map will accompany the report, showing the location and extent of the various types of soil, as well as the location of all farm houses, churches, schools, public roads, streams and railroads.



Interior of open front type of house. Notice the low roosts above the dropping board and nests underneath, the broody coop in the corner, and curtain rolled up overhead ready to lower in front of roosts.

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GOLDEN BARRED ROCKS—The new beauty and utility breed. Plumage, buff barring on white. Circular free. L. E. Altwein, St. Joseph, Mo.
PURE BRED Barred Plymouth Rocks exclusively. Pen and range eggs. Baby chicks. Write for mating list and prices. Mrs. C. N. Bailey, Lyndon, Kan.
BARRED PLYMOUTH ROCK cockerels. Shelley Bros.' pullet-line strain. Prices reasonable. Eggs in season. Oscar Daub, Elmdale, Kan., R. F. D. No. 2.
WHITE PLYMOUTH ROCKS, Bourbon Red turkeys and Buff Orpington ducks. Stock and eggs for sale in season. Mrs. Chas. Snyder, Effingham, Kan.
BARRED ROCKS. Bred for beauty and profit. 64 premiums, Topeka, Manhattan, Clay Center. Cockerels \$3.00 and up. Mrs. D. M. Gillespie, Clay Center, Kan.
IVORY STRAIN WHITE ROCKS won every first, Kansas State Show, 1913. Choice pure white cockerels and hens for sale. Write Chas. C. Fair, Sharon, Kan.
BARRED PLYMOUTH ROCKS and W. F. B. Span, fowls. Have some choice cks. and pullets for sale at \$1.50 up. Satisfaction guaranteed. Gus H. Brune, Lawrence, Kan.
SHELLEY BROS.' Barred Rocks won 82 premiums—35 firsts, specials and sweepstakes—at Kansas' largest shows. Stock and eggs. Circular free. Shelley Bros., Elmdale, Kan.
EGGS! EGGS! Pure White Plymouth Rocks, Good layers, \$5.00 per 100. "Fishel strain" \$1.50 per 15. Also some high scoring cockerels \$1.50 to \$3.00. Mrs. Wm. Lemkull, Fairfield, Neb.
BARRED AND WHITE Plymouth Rocks. Cockerels and pullets of either kind that are good enough, at \$1.50 to \$3.00. Large kind Pekin ducks at \$1.50. One female Scotch Collie. F. C. Swiercinsky, Belleville, Kan.
BARRED PLYMOUTH ROCKS. 150 cockerels and pullets for sale at reasonable prices. Eggs \$2.50 per 15. Ckl and pullet matings. Won more premiums when shown than any other exhibitor. F. W. Hall, Lone Wolf, Okla.
THOMPSON AND O'GARA, Barred Rocks. Fall and winter 1912-13 winnings—American Royal, ckl, pul, pen, first; Mo. State, ckl, 1, pul, 4; Kan. State, ckl, 2-3, pul, pen, first; Topeka, ckl, 1-2-3, pul, 1-2, hen, cock, pen, 1; Hutchinson, ckl, pul, pen, 1, sweepstake ckl, American class. Stock and eggs. Ask for circular. Topeka, Kan.

Reliable Poultry Breeders

ORPINGTONS.
HIGH SCORING Buff Orpington cockerels. A. R. Carpenter, Council Grove, Kan.
PURE BRED White Orpington cockerels and pullets. John Fisher, Wilson, Kan.
S. C. BUFF ORPINGTON eggs \$1.00 setting. Mrs. John Stoner, Macksville, Kan.
BUFF ORPINGTON cockerels cheap. Phone 352, Grantville, Kan. H. G. Nash.
BUFF ORPINGTON cockerels. Send for prices. Mrs. T. N. Beckey, Linwood, Kan.
BUFF ORPINGTON eggs \$1.25 for 15. Pens mated Jan. 1. C. D. Haffa, Russell, Kan.
CRYSTAL WHITE ORPINGTONS. Write for prices on stock. Fred Baile, Fredonia, Kan.
BUFF ORPINGTONS. Winners. Owens strain. Prices reasonable. D. R. Ott, Olathe, Kan.
CRYSTAL WHITE ORPINGTON eggs \$1.50 per setting. Geo. C. Fisher, Custer, Okla.
BUFF ORPINGTON cockerels. Send for prices. Mrs. T. W. Flick, Larned, Kan., R. No. 1.
SINGLE COMB Buff and Black Orpingtons. Eggs and stock. Hadherway, Lancaster, Kan.
THOROUGHbred Buff Orpington cockerels \$1 to \$2.50 each. Emily Mezger, Raymond, Kan.
KELLERSTRASS strain White Orpington cockerels, farm raised. W. F. Teague, Colyer, Kan.
KELLERSTRASS Crystal White Orpingtons. Cockerels \$1.50 to \$5.00. W. F. Childs, Burns, Kan.
SINGLE COMB Crystal White Orpingtons. Kellerstrass strain, \$1.50 each. Pens headed by cockerel direct from Kellerstrass \$30.00 matings. Eggs \$2 and \$3 for 15. Mrs. R. Heimbaugh, Sedan, Kan.

Reliable Poultry Breeders

ORPINGTONS
CRYSTAL WHITE ORPINGTONS. Extra good laying pullets \$2.00 each. Joe Greever, Fairland, Okla.
GERTRUDE GEER'S Gold Nugget strain Buff Orpingtons. Cockerels and pullets. Winfield, Kan.
BUFF ORPINGTONS—Eggs of best blood lines in America \$2.00 per 15. J. C. Frank, Dodge City, Kan.
SINGLE COMB White and Black Orpington cockerels and pullets. J. L. Carmean, Neosho Falls, Kan.
WHITE, BUFF AND BLACK Orpingtons. Good stock and eggs for sale. H. S. Binford & Sons, Eldorado, Kan.
FOR SALE—Crystal White Orpington cockerels, \$2.00 and \$5.00 each. Mrs. Roscoe Culbertson, Sterling, Kan.
CRYSTAL WHITE ORPINGTONS, single Comb. Stock and eggs Feb. 1. Oscar Zschelle, Burlington, Kan.
ROSE AND SINGLE COMB White Orpingtons, winter laying kind. Eggs for sale. H. A. Bogle, Pawnee City, Neb.
S. C. BUFF ORPINGTONS. Cockerels and pullets \$1 and \$2. Eggs \$1 per setting. Mrs. J. M. Hall, Clay Center, Kan.
WHITE ORPINGTON cocks \$4, hens \$2.50. Eggs \$2 a setting. 1 cock and 3 hens \$10. Royal D. Rosier, Elk City, Kan.
FOR SALE—Crystal White Orpingtons, Kellerstrass strain, some fine birds. Reasonable. C. S. Embree, Wilmore, Kan.
BUFF ORPINGTON cks. from \$2 to \$5. Descendants from 1st pen Topeka, 1910. Arthur D. Lovendge, Harrisonville, Mo.
KELLERSTRASS White Orpingtons. Young stock for sale from winners. \$2 each. Eggs in season. J. Strathmann, Palmyra, Mo.
SINGLE COMB BUFF ORPINGTONS. Cook strain. Eggs \$1.50 per 15 \$3.00 per 100. Mrs. Otis Russell, Canton, Kan.
FOR SALE—Crystal White Orpingtons, Kellerstrass strain. Cockerels \$2.00 to \$3.00 each. A. A. Robinett, Jewell City, Kan.
KELLERSTRASS Crystal White Orpingtons. Cockerels \$3 each, pullets \$2 each. Eggs in season. Mrs. W. M. Patterson, Yates Center, Kan.
WHITE ORPINGTON eggs from high scoring stock. Very cheap. Satisfaction guaranteed. Write at once. F. G. Irwin, North Topeka, Kan.
FINE IMPORTED Buff and Kellerstrass Crystal White Orpingtons. Cockerels and eggs from prize winners. Mating list free. F. W. Olney, Maryville, Mo.
SINGLE COMB White Orpingtons. Owen, Kellerstrass strains. Cockerels from Madison Square winners. \$2.50 up. Eggs \$2.50 up. Ed Granerholz, Esbon, Kan.
EGGS FOR HATCHING from heavy laying strain, prize winning. Crystal White Orpingtons, reasonable. Catalog free. P. H. Anderson, Box M-53, Lindsborg, Kan.
SINGLE COMB BUFF ORPINGTONS, Owen Farm stock direct. Singles, pens or trios. All stock scored. Cockerels 3 dollars up. Mrs. Earl Vaughn, Esbon, Kan.
CRYSTAL WHITE ORPINGTONS. Opportunity to get started cheap. Am reducing flock on account of room. Pullets and hens \$1.00. Cockerels \$1.25. A. B. Atherton, Dover, Okla.
SINGLE COMB BUFF ORPINGTONS. Prize winning, egg laying strain; special matings. 15 eggs \$4. Range flock, 15 eggs \$1.50. Circular free. John Tuttle, Princeton, Mo.
IRWINDALE FARM thoroughbred White Orpington eggs ten dollars per hundred, from first premium winners. Write for free mating list. S. J. Irwin, Prop., Topeka, Kan.
FERTILE EGGS—Imported White Orpingtons; large strain Single Comb Rhode Island Reds. Different priced pens. Satisfaction. Quality and price. Address E. L. Andrews, Maryville, Mo.
COOK'S STRAIN Single Comb Buff Orpingtons. Extra good laying stock. Good utility breeders \$2. Extra good from special pen \$4 to \$5. Satisfaction guaranteed. Frank Fisher, Wilson, Kan.
KELLERSTRASS Crystal White Orpington eggs from high scoring stock very reasonable. Place your orders early. Some choice utility hens for sale. Rev. O. S. Morrow, Topeka, Kan.
SINGLE COMB BUFF ORPINGTONS. Bide-a-Wee Farm. Winners at Agra and Smith Center shows. At Nebraska State Show won 1st pullet, 5th cockerel. Write me. Roy Lucas, Agra, Kan.
SINGLE COMB BUFF ORPINGTONS. 11 years for eggs and quality. Eggs from fancy matings \$3.00 per 15. High class utility \$7.00 100. Ask for free mating list. Also, strawberry plants cheap. J. F. Cox, Topeka, Kan., Rt. No. 8.
DON'T overlook Overlook Farm. Home of Better Orpingtons, Buff, Black, White. Winners at Kansas and Missouri State Fairs, American Royal and Omaha. Nine grand pens, each containing prize winners, mated for season's trade. Get my mating list before placing your order elsewhere. Few good cockerels still for sale. Overlook Farm, Chas. S. Luengene, Prop., Box B149, Topeka, Kan.

Reliable Poultry Breeders

WYANDOTTES.
COLUMBIAN WYANDOTTES at a bargain. G. D. Williams, Inman, Kan.
WHITE WYANDOTTE cockerels \$1.00. Mrs. J. R. Antram, Galesburg, Kan.
WE HAVE fine Silver Wyandottes for sale. H. L. Brunner, Newton Kan., Rt. No. 6.
C. O. BROWN'S Buff Wyandottes are pure. His prices right. Duquoin, Kan.
SILVER WYANDOTTE cockerels, fine birds, \$1.25. Mitchel Mehl, Bushton, Kan.
WHITE WYANDOTTE cockerels \$1.00 each. Mrs. L. D. Arnold, Manhattan, Kan.
PURE PARTRIDGE WYANDOTTES. Stock and eggs \$1 up. Rosa Carder, Lyndon, Kan.
CHOICE WHITE WYANDOTTE cockerels \$2.00 each. Mrs. C. E. Robensteln, Colony, Kan.
PURE BRED White Wyandotte cockerels, \$18.00 doz. J. E. Gustafson, McPherson, Kan.
CHOICE BUFF WYANDOTTE cockerels, eggs and chicks. John P. Ruppenthal, Russell, Kan.
GOLDEN WYANDOTTE cockerels from prize winning stock. M. M. Donges, Belleville, Kan.
EXCELLENT Silver, Golden, Buff Wyandottes. Stock, eggs. Write Joe Dey, Wellington, Kan.
WHITE WYANDOTTE cockerels \$1.50 up to \$5.00 each. Mrs. Geo. Downie, Route 1, Lyndon, Kan.
SILVER WYANDOTTES, cockerels. Fine birds \$1.00 to \$1.50. Mrs. W. R. Stump, Blue Rapids, Kan.
SILVER WYANDOTTE cockerels \$1.00 up. First prize cockerel \$5.00. Mrs. C. C. Henderson, Solomon, Kan.
GOLDEN WYANDOTTES. Prize winner cockerels. Eggs in season. R. P. Graves, Marion, Kan., R. F. D. No. 3.
WILL SELL choice Silver Wyandotte cockerels cheap. Will trade for good stock. Ralph Sanders, Osage City, Kan.
BUFF WYANDOTTE cockerels, high scoring, first prize winners Smith county. Eggs in season. Geo. Jirs, Agra, Kan.
WHITE WYANDOTTE cockerels. White Holland tom and Indian Runner drakes. Write Andrew Kosar, Glasco, Kan.
WHITE WYANDOTTE cockerels. Fine white birds \$2.00 each, 3 \$5.50, 6 \$10.00. C. E. Crane, Conway Springs, Kan.
WHITE WYANDOTTES. Stock and eggs for sale; mating list free. Also fox terrier dogs. GINETTE & GINETTE, Florence, Kan.
SILVER WYANDOTTE cockerels. Sired by 2nd Mo., 1911, ckl, also 4th at Topeka, 1911. Arthur Lovendge, Harrisonville, Mo.
WHITE WYANDOTTES. Eggs fifty cents for fifteen, three dollars per hundred. Cockerels \$1.00 each. Alice Sellars, Mahaska, Kan.
SILVER LACED WYANDOTTE cockerels from \$2.00 to \$5.00 each. Large, high scoring. Eggs. Elizabeth Littleton, Guymon, Okla.
GOLDEN WYANDOTTES—Winners wherever shown. Eggs \$1.50 and \$2.50 per 15. Cockerels \$1.50. P. O. Rindom, Liberal, Kan.
WHITE WYANDOTTES, bred to lay. Eggs \$1.00 15; \$5.00 100. Choice cockerels cheap. Keller-Martin strains. J. H. Brown, M. D., Centralia, Kan.
WHITE WYANDOTTES, Reds both combs, Buff Orpingtons, R. C. Brown Leghorns, Bronze and Bourbon turkeys. Stock. Eggs. Emma Ahlstedt, Roxbury, Kan.
GOLDEN WYANDOTTES for 20 years. Indian Runner ducks. The two best and most beautiful breeds. Stock and eggs. Write to J. R. Douglas, Mound City, Kan.
WHITE WYANDOTTE stock; also S. C. R. I. Red cockerels. Won at Tri-State Show, 1912, 1st, 2d cock, 2d, 4th cockerel, 2d hen, 1st, 3d pullet. Write wants. Mrs. F. J. Myers, Route 4, Erie, Kan.
BUFF WYANDOTTES—Booking orders now for eggs and baby chicks. Eggs \$2.50 per 15; baby chicks 25 cents each. Eggs from utility pen \$1.50 per 15. We won first cockerel, second hen and third pen at State Poultry Show. Send for mating list. Wheeler & Wylie, Manhattan, Kan.

Reliable Poultry Breeders

LIGHT BRAHMAS.
MAMMOTH Light Brahmans. Eggs and baby chicks. Adda Prickett, Wamego, Kan.
LIGHT BRAHMA cockerels, eggs, and baby chicks. Carrie A. Beckwith, Wamego, Kan.
LIGHT BRAHMAS, cocks, cockerels, eggs. Write your wants. Orville King, Bucklin, Kan.
LT. BRAHMAS exclusively; winners at late Kansas City show. Fine large stock for sale. Mating list ready Feb. 1st. Mrs. J. F. O'Daniel, Westmoreland, Kan.
OUR LIGHT BRAHMAS won all firsts and other prizes at great Kansas City show last month in strong competition. A few birds for sale. Eggs \$4.00 per 15. E. W. Rankin & Son, Topeka, Kan.

Reliable Poultry Breeders

RHODE ISLAND REDS.

ROSE COMB RED Cockerels \$1.00. Fred Corley, Westphal, Kan.

SINGLE COMB R. I. REDS. Cockerels. J. L. Carmean, Neosho Falls, Kan.

R. C. RED Cockerels, pullets, hens, \$1.00. Mrs. E. Adkisson, Kanorado, Kan.

ROSE COMB RED Cockerels. Write for price. Mrs. Dick Fox, Larned, Kan.

PURE BRED R. C. R. I. Red Cockerels, fine, \$1.50. C. Shumway, Manhattan, Kan.

15 ROSE COMB Rhode Island Red eggs \$1.50 delivered. James Clifton, Russellville, Ark.

ROSE COMB REDS. Cockerels and eggs from prize winners. L. Shamleffer, Douglass, Kan.

BIG BONED, deep red R. C. Reds. Scored. \$3 to \$5 each, guaranteed. Highland, Hedrick, Iowa.

OFFICIALLY scored Rose Comb Red Cockerels at farmers' prices. C. Thompson, Orlando, Okla.

SINGLE COMB RED Cockerels and pullets. Satisfaction guaranteed. Lemon Bros., Lookaba, Okla.

EGGS from winners. Single Comb Rhode Island Red. None better. E. S. Stockwill, Muskogee, Okla.

PURE BRED R. C. R. I. RED Cockerels \$2.00 each. Eggs in season. W. H. Cochran, Oakley, Kan.

ROSE COMB REDS. Exhibition and utility strains. Prices reasonable. Mrs. Abbie Rleniets, Pratt, Kan.

ROSE COMB REDS, winners eleven years, Eggs at let live prices; satisfaction always. Mrs. M. Rees, Emporia, Kan.

LARGE, brilliant, Rose Comb Red Cockerels from scored stock \$1.50 to \$2.00. Mrs. C. C. Talbot, R. 4, Onaga, Kan.

CHOICE R. C. REDS. Cockerels \$2.00 each. Eggs and baby chick. Prize winners. Mrs. Alta Murphy, Luray, Kan.

ROSE COMB REDS, Guyer strain; good red surface and under color. Mrs. M. T. Farris, Winchester, Kan., R. 2.

RHODE ISLAND RED Cockerels from my 1912 winners; Rose and Single Comb; must sell at once. Lulu H. Searl, Waldron, Kan.

FOR SALE—Thoroughbred Rose Comb Rhode Island Red hens one dollar each. Prize winners. Mae McCloud, Musselfork, Mo.

ROSE COMB REDS. Tuttle strain, good red surface and undercolor. A few scored Cockerels. Mrs. Dan Clinkenbeard, Wetmore, Kan.

RHODE ISLAND RED Cockerels and roosters. Both combs. \$1 to \$3. Emma Wilson, Topeka, Kan., Route No. 8. Phone 8104, F. 4.

NEOSHO POULTRY YARDS. Rose Comb R. I. Reds. They do not all score 100 points but we have some good ones. J. W. Swartz, Americus, Kan.

SIX YEARS' BREEDING. Single Comb Reds exclusively. 20 hens and pullets for sale. Eggs in season. Mrs. George Dillon, McLouth, Kan.

ROSE COMB Rhode Island Reds. Bred to win; bred to lay. Stock and eggs for sale. Write for our free mating list. Toal & Toal, Cedar Vale, Kan.

S. C. REDS. Scored Cockerels \$1.00 up. Eggs. Baby chick. Best laying strain. Prize winning quality. Write for full description. Joe Yeager, Oswego, Kan.

ROSE COMB REDS. Eggs for hatching from high scoring birds and prize winners. 1st pen \$2.00 per 15. Free circular. Mrs. D. A. Pryor, Route 3, Fredonia, Kan.

RHODE ISLAND REDS, both combs. Hatching eggs low price, fertility guaranteed; mating list free. S. C. Cockerels for sale. H. A. Sibley, Lawrence, Kan.

SINGLE COMB RHODE ISLAND REDS. Winners at Missouri State Poultry Show, 1913. Greatest layers known. Stock and eggs for sale. E. D. Rohrer, Paola, Kan.

SINGLE COMB RED Cockerels \$2.00, \$3.00, \$5.00. Pullets, \$1.50, \$2.00. Limited number. Booking egg orders now. Mating list free. Clyde C. Whiteley, Wichita, Kan.

ROSE COMB REDS. Winners at Kansas City Mo. State. Parsons trio state, of good color, correct shape, large bone; eggs \$2.00, \$3.00, \$5.00 per 15. H. S. Fisher, Oswego, Kan.

ROSE COMB REDS. Good ones. Fine color. Bred to lay. We guarantee satisfaction or refund your money. Eggs \$1.50 per 15. Cockerels \$1.50. Oakley Poultry Yards, Oakley, Kan.

ROSE COMB REDS, all yearling hens, Miller and New Combs strain. Free range. 45 eggs \$2.25. 100 \$4.00. Guaranteed 80 per cent fertile. James A. Harris, Latham, Kan., Box 65.

ROSE COMB RHODE ISLAND REDS. Extra fine Cockerels at \$1.50 to \$3.00. Pullets \$1.00 to \$2.00. Eggs for setting \$2.00 for 15 from first pen, \$1.00 for 15 from second pen. N. Hay, Ottawa, Kan.

SINGLE AND ROSE COMB Rhode Island Red Cockerels, hens and pullets from best laying and richest colored strains in this country, \$1, \$2 and \$3. Col. Warren Russell, Osessa Farm, Winfield, Kan.

RHODE ISLAND REDS, males and females, both combs. Won at Kansas State Show five 1st prizes, grand special, 35 cups for best displays. 40 hens and pullets of prize winning quality \$2 and \$3 each, others at \$1.50. Cockerels \$1.50 and up. Order from this ad. A. M. Butler, Wichita, Kan.

SINGLE COMB RED Cockerels. Best blood lines. Good show record. Splendid individuals. Eggs from superb matings. Prices low. Also white Indian Runner drakes and Boone County White seed corn. J. B. Hunt, Oswego, Kan.

Reliable Poultry Breeders

RHODE ISLAND REDS

SINGLE COMB RHODE ISLAND RED Cockerels \$1. Clyde Nighswonger, Alva, Okla.

ROSE COMB RED roosters from pens headed by roosters costing from \$10.00 to \$25.00, \$1.00, \$2.50 and \$5.00 each. Grandview Stock Farm. W. R. Huston, Prop., Americus, Kan.

REHKOPF'S ROSE COMB REDS won 3 times as many points as any other exhibitor at Kansas State Show. Eggs from nine great pens \$1.50 up. Cockerels \$2.00 up. Free catalogue. F. A. Rehkopf, Route 7, Topeka.

R. C. R. I. REDS of choicest quality. Winners of 28 ribbons at Oswego, Fredonia, Tulsa and Kansas State. Eggs cheapest in West, quality considered; \$1.00 to \$5.00 per 15. Free catalogue. Stover & Myers, Fredonia, Kan.

LEGHORNS.

PURE S. C. W. LEGHORN Cockerels \$1.00 and \$2.00. R. Harrison, Jewell, Kan.

FINE S. C. W. LEGHORN Cockerels and pullets \$1. Geo. Patterson, Melvern, Kan.

BROWN LEGHORN hens, 6 \$5.00; \$9.00 dozen. Mrs. Ike Saunders, Elk City, Kan.

PURE SINGLE O. W. LEGHORN Cockerels and hens. J. R. Haywood, Hope, Kan.

S. C. BROWN LEGHORN Cockerels \$1.00 to \$2.00 each. H. N. Holdeman, Meade, Kan.

THOROUGHbred Buff Leghorn Cockerels \$1 to \$3. Mrs. Frank Wempe, Frankfort, Kan.

ROSE AND SINGLE COMB Brown Leghorns. Winners. Mrs. Ida Standferd, Reading, Kan.

PURE Single Comb White Leghorn Cockerels \$1.50 and \$2.00. Hugh Harrison, Jewell, Kan.

TOP NOTCH S. C. White Leghorns. Superior layers. Eggs, chicks. Armstrong Bros., Arthur, Mo.

ROSE COMB B. LEGHORN eggs. Quality first class. Specialty 11 years. Olive Hoskins, Fowler, Kan.

SINGLE COMB BROWN LEGHORN Cockerels \$1 each. Order soon. Sophia Hunt, Route 1, Blue Rapids, Kan.

FORTY Single Comb White Leghorn Cockerels \$1.00 up, according to quality. R. E. Davis, Holton, Kan., Rt. No. 5.

HART'S Single Comb Buff Leghorns are layers, winners and payers. Prices reasonable. W. D. Hart, Ashland, Mo.

THOROUGHbred R. C. W. Leghorns of both sexes. Also a few S. Hamburg Cockerels. Ray Ditch, Mulhall, Okla.

ROSE COMB WHITE LEGHORN Cockerels. Choice \$1.00 each. 6 for \$5.00. Mrs. J. B. Barmettler, Ralston, Okla.

S. C. WHITE LEGHORNS. Cockerels and eggs for sale. Prize winners. Write Mrs. G. W. Van Horn, Nickerson, Kan.

UTILITY S. C. White Leghorns. Eggs \$1.50 per 15, \$5.00 per hundred. Eugene Bailey, Okla. City, Okla., R. No. 8.

ROSE COMB WHITE LEGHORNS. Thoroughbreds. \$10.00 per doz. Eggs in season. Mrs. G. E. Chittenden, Liberal, Kan.

SINGLE COMB WHITE LEGHORNS, blue ribbon stock. Cockerels \$1.00. Eggs, chicks. Mrs. Flora Smith, Amorita, Okla., Route No. 2.

HENS ALL SOLD. For sale, high scoring S. C. White Leghorn Cockerels. Official score card with each bird. E. L. M. Benfer, Leona, Kan.

S. C. WHITE LEGHORN eggs. 15 from prize winners, \$3.00. Carefully mated pen, \$1.00. Write for matings. Del J. Howard, Chester, Neb.

1ST PRIZE WINNERS—White Leghorn. Eggs. Notice—Will all old customers, also new, send orders early? Setting \$2.00. W. D. Nichols, Newton, Kan.

CHOICE Single Comb Buff Leghorns. Cockerels \$1.00 and \$2.00. Prize winning stock. Eggs \$5 per 100. Chas. M. Childs, Pittsburg, Kan., Route 3.

SINGLE COMB WHITE LEGHORNS exclusively. High scoring. Fine stock. Egg orders booked now. Prices reasonable. Honesty. Mrs. Albert Ray, Delavan, Kan.

S. C. BROWN LEGHORN Cockerels. Forty breeders from choice show males. Choice while they last at \$1.50 to \$5.00 each. H. C. Short, Leavenworth, Kan.

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

COCKERELS. S. C. White and Brown Leghorns and R. C. Reds \$1.50 up. White and Brown Leghorn pullets \$1.00. Satisfaction guaranteed. Write Prosperity Poultry Farm, Barnes, Kan.

H. P. SWERDFEGER'S Brown Leghorns won at Kansas State Show, Jan. 6 to 11, 1st ck., 1st ckl., 1st pen. Cockerels scoring 90 to 93%. Hens, pullets for sale. Eggs \$2.00 per 15. 1144 Forest Ave., Wichita, Kan.

SINGLE COMB BROWN LEGHORNS. Thanks for the many letters my old customers have sent me. Can furnish you eggs this season. No relation to the ones you got before, and of the same high quality. J. F. Crandall, Barnes, Kan.

SINGLE COMB WHITE LEGHORNS, ten years trap-nest bred for egg production; silver cup winners at Kansas City shows; utility hens, Cockerels, pullets, \$1.50. Winners for any show; catalogue free. Ackerman Leghorn Farm, R. No. 5, Rosedale Station, Kansas City, Kan.

Reliable Poultry Breeders

TURKEYS.

THOROUGHbred Bronze toms. Dora Ortman, Otego, Kan.

WHITE HOLLAND turkeys. Fishel strain. James Jensen, Kinsley, Kan.

BOURBON RED turkeys for sale. Mrs. Wm. Flory, Sawyer, Kan.

WHITE HOLLAND toms for sale. Mrs. R. I. King, Burlington, Kan.

THOROUGHbred Bourbon Red gobblers. Mrs. J. J. Darst, Rose, Kan.

WHITE HOLLAND turkey toms \$5; hens \$2.50. Mrs. H. Basil, Lebo, Kan.

PURE White Holland turkey hens, \$2.50 each. Frank Darst, Fredonia, Kan.

MAMMOTH BRONZE turkey toms \$5. Mrs. A. Anderson, Greenleaf, Kan.

WHITE HOLLAND toms, fine ones. Write at once. Sylvia Hall, Fredonia, Kan.

MAMMOTH BRONZE turkeys, toms \$5.00, hens \$3.50. H. A. Sandborn, Detroit, Kan.

WHITE HOLLAND turkeys. Toms \$4.00; hens \$3.00. Mrs. R. A. Lewis, Timken, Kan.

WHITE HOLLAND turkeys. Toms \$4. Hens \$3. W. E. Monasmith, Formoso, Kan.

MAMMOTH BRONZE fine toms. Weight 28 lbs., \$6.00. Stella Snider, Piedmont, Kan.

BOURBON RED turkeys for sale. Prices reasonable. Mrs. Geo. Parks, Hewins, Kan.

BOURBON RED turkeys from prize winning stock. Mrs. Walter Dixon, Severy, Kan.

BOURBON RED gobblers \$5.00. Eggs in season. Mrs. F. B. Tuttle, R. 2, Chanute, Kan.

MAMMOTH WHITE HOLLAND turkeys for sale. Mrs. Ada Poindexter, Medicine Lodge, Kan.

THOROUGHbred Mammoth Bronze Turkeys, Toms \$5.00, hens \$3.50. C. E. Foland, Almena, Kans.

BOURBON RED pairs not related \$8.00. Young toms \$4.00. Eggs. Mrs. M. H. Arnold, Toronto, Kan.

BOURBON RED turkeys. Trios no relation \$10. Young toms \$4. Florence E. Hopkins, Sedan, Kan.

NARRAGANSETT turkeys; large as Bronze; gentle as chickens. Jake Hertzog, Independence, Mo.

YOUNG Mammoth Bronze toms, 27 to 34 pounds from pen scoring to 96. Mrs. Lloyd Clark, Hazelton, Kan.

RANGE RAISED Mammoth White Holland turkeys. Hens \$3.00, toms \$4.00. Mrs. C. May, Garfield, Kan.

PURE BOURBON RED turkeys and S. C. Buff Orpington cocks for sale. Miss Mathilda Peterson, Simpson, Kan.

CHOICE, well marked, big boned young Bourbon Red toms from fifty pound stock \$4. Mrs. Oliver Butcher, Sedan, Kan.

M. B. TURKEYS, scoring up to 96 1/2, weighing up to 30 lbs. \$3.00 to \$7.00. Trios not related \$10.00. Cecil McArthur, Walton, Kan.

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WHITE CRESTED BLACK POLISH Cockerels for sale cheap. None better. Jos. T. Stewart, Colby, Kan.

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INDIAN RUNNER ducks, American Standard. Also S. C. W. Leghorn Cockerels. For particulars address Geo. B. Martin, Sharon, Kan.

WHITE FACE BLACK SPANISH Cockerels and pullets for sale. Eggs in season, 15 \$1.00, 50 \$3.00, 100 \$5.00. A. W. Swan, Centralia, Kan.

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SINGLE COMB REDS, Partridge Rocks, Golden Wyandotes. State show winners. Stock and eggs. Prices reasonable. C. E. Florence, Eldorado, Kan.

BLUE RIBBON WINNERS—Single Comb White Leghorns and Orpingtons, Fawn and White Indian Runner ducks. Thol. R. Wolfe, Conway Springs, Kan.

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Grade and clean your seed oats with a HAWKEYE—increase your returns per acre more than \$7—make about \$700 added profit on 100 acres after paying for the machine.

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Every Word of This Advertisement is a Part of Our Guarantee

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You can pay for this machine with the increased returns from three acres of oats, or a little over three acres of winter wheat, or seven acres of spring wheat. You cannot make anywhere near as much money on any other investment, and we say a HAWKEYE Grain Grader and Cleaner is the most profitable machine you can buy. No farmer can afford to be without it when it will do all this for him.

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You are completely protected—you don't have to keep the machine, or pay a cent for its use—if it doesn't do all we claim. Its construction and service are guaranteed by this company, and your dealer will tell you the MAYTAG guarantee is good.

The HAWKEYE Grain Grader and Cleaner grades and cleans corn, all kinds of small grains and grass seeds; separates grains into proper grades for planting; takes out all dirt, trash, etc.; selects good seed from bad—grades perfectly and cleans thoroughly, a grader and fanning mill in one.

Will you let us prove to you that this HAWKEYE Grain Grader and Cleaner will enable you to make \$7 more net profit per acre on oats—over \$3 more net profit per acre on spring wheat—over \$6 more net profit per acre on winter wheat? Can you beat that for an easy money-making proposition?

Don't Delay—Write at Once Free printed matter tells how this machine is made—how it operates—what it will do for you—what it has done for others. It will actually be your biggest money-maker. Don't go into another season without learning about it. Ask your dealer, or write us at once for complete information.

THE MAYTAG COMPANY
Dept. 360, Newton, Iowa

English Pen Leads Egg Contest

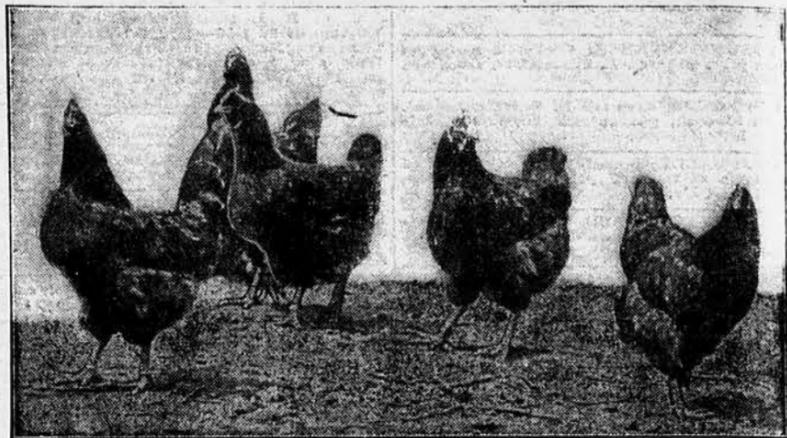
A pen of White Leghorns from England is leading in the second national laying contest at Mountain Grove, Mo. At the rate this pen is shelling out the eggs it will far outstrip all American pens in the egg race. The English birds took a lead of 46 eggs over their nearest competitors during the first six weeks of the contest. This pen laid 263 eggs from November 15, 1912, the time the contest began, to January 1, 1913. A

outside. Our hens have wintered well in this house and have been laying all winter. The house was built in August at a cost of \$40, not including labor. The work was done by the men on the farm. Miltonvale, Kan.

An Alfalfa Mash for Layers

[Prize Letter.]

Mr. Editor—My husband has a hay cutter and with this he cuts up a supply of alfalfa hay for the chickens. Each morning I boil some of this cut



These Rhode Island Red hens, five in number, laid 1,042 eggs during the year, leading all other pens in the National Egg-Laying contest. They were entered by a Missouri poultryman.

pen of Silver Wyandottes is second with 217 eggs. The English Leghorn pen is said to be more active than any other pen and are eating a good deal more dry mash than any of their competitors in the Mediterranean class. The 10 leading pens for the month rank as follows:

Variety	Eggs.
S. C. White Leghorns	222
S. C. Reds	162
Silver Wyandottes	157
White Wyandottes	151
White Orpingtons	136
Barred Plymouth Rocks	135
White Wyandottes	133
Black Orpingtons	133
Black Langshans	131
White Wyandottes	129

alfalfa in the dish water, then mix thick with oats and after boiling a few minutes longer the mixture is set away to cool a little. It is fed slightly warm. About once a week I leave out the alfalfa and mix bran with the oats instead. When not baking I keep ear corn in the oven and on cold winter evenings the flock gets parched corn. Their milk and water is warmed on cold days. I get 10 cents worth of copperas at the drug store, dissolve it, then mix this and 1 ounce of sulphuric acid in 2 quarts of water. Twice a week I put 1 tablespoonful of this mixture in each gallon of drinking water. If the fowls are not doing well I use it every day for a while. I have been very successful by using these methods of feed and care in winter.

Mrs. Arthur Child.

Building a Hen House of Cement

BY MRS. C. L. S. WADE.

[Written for Farmers Mail and Breeze.]

Our poultry house is built of concrete, except the front. It is 12 by 20 feet in size, 7 feet high in front and 5 feet high in the rear. The floor, walls and partitions of cement are 4 inches thick. Two partitions divide the house into three rooms about 8 by 12 feet in the clear. The middle room is used for a scratching room. It is open in front, is covered with poultry wire and is equipped with a curtain for use in stormy weather. Each of the other rooms has a window 24 by 45 inches and above this is an opening of the same size covered with netting and provided with curtains.

The walls were reinforced with any

Car Shippers Pay No Better Prices.

Mr. Editor—In the Mail and Breeze of January 11, page 7 and bottom of the second column is a paragraph encouraging farmers to hold their poultry for "car" shippers. Now I have been a local buyer for years and find that farmers will lose just as often by contracting their chickens to car shippers as they gain. Last year a car man came in here and contracted for stuff at 9½ cents delivered at the car. You held your team and the car man did the weighing. At the time he shipped I was paying 11 cents for hens and

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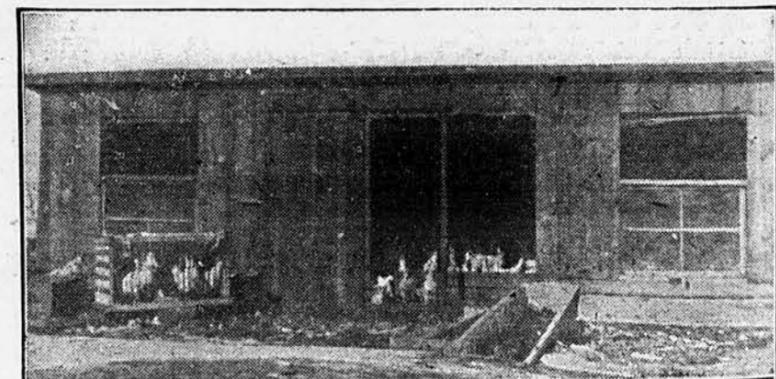
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FRONT OF MRS. WADE'S CEMENT HEN HOUSE BUILT AT A COST OF \$40.

old iron we could find. The roof rafters are 2 by 6s 2 feet apart. These were covered with stock boards, but in this we made a mistake. The cement was put on 2 inches thick and reinforced with hog wire. No part of the house was cracked except the roof, and this was due to the swelling of the boards. The cracks have been filled by going over them with a brush and some thin cement.

Doors open from the scratching room into the other two rooms, which are provided with perches hung on strap hinges to make them easily movable. Nests are built under the windows and open to the

bought on the same margin that I always do and shipped on the same profit. He paid 11 cents too, of course, but he did the weighing while you held your team. I know positively that one farmer came out short 5 pounds on less than 100 pounds of poultry.

This paragraph in question states that hens are being contracted for at 10 cents. Merchants and dealers everywhere are paying 10 cents this week. I am paying it and there are no signs of a car man in this locality yet. They may come later but I believe people have had about enough of them here. **Severy, Kan. C. W. Kellogg.**



I WILL TEACH YOU HOW—SECURE YOU A POSITION—YOU PAY WHILE YOU EARN

My business is to assist you to make money—more money than you are now making. To assist you to a position of trust and confidence in the business world. To fortify you with a business training so complete, and so thorough, that it puts you in the position of the "sought," instead of the seeker. To take you by the hand and lift you out of the rut.

I have assisted hundreds of ambitious young men and women of the farm to high salaried positions of trust and influence. I have hundreds of letters from graduates who are today earning more money—and earning it with more ease—than the average country doctor, lawyer, banker or merchant. These young men and women, like yourself, were once plodding along in the same old rut—wishing and hoping for a chance to realize their ambition to become successful workers in the business world. They heeded the Ransomian knock of opportunity—and today, as Ransomian graduates, have either reached, or are well on the way to the goal of their ambition.

Away down in your heart you know you have an ambition to progress—to get down to brass tacks with yourself and get somewhere—and you can, if you will.

You may want to become a stenographer; bookkeeper; expert penman; enter civil service. Or you may have decided to stay on the farm—but no matter what your ambition may be, a thorough business training is absolutely necessary. Realize that ambition—start now—take your first step—clip the coupon at the bottom of this page. It will bring you a special proposition—a brand new feature I have arranged for the young men and young women readers of Farmers Mail and Breeze—a proposition so good no other school has ever felt able or competent to offer you. I want you to get this special proposition. I want you to learn first hand just what this is, and just what it means to you.

BE SQUARE WITH YOURSELF—LOOK TO YOUR FUTURE NOW

The business world is crying out for competent, well trained young men and women to fill good paying positions of trust and confidence. The United States Government, Railroads, Corporations, Law Firms, Manufacturers, Wholesalers, Retailers—all are clamoring day and night for sturdy bodied, clean-minded assistants in their mad rush for the Almighty Dollar. But the demand is that you must be prepared. This does not mean that you must have had previous experience—but it does mean that you must have a thorough business training in a specialized business training school; that you must have the stamp of approval and unqualified recommendation from a recognized business trainer—from a school with the reputation of producing competent, successful workers—a school such as the Ransomian School is.

In this constant demand for trained assistants, preference is given the young men and women from the farm.—Why?

I'll tell you! It is not that they are any better than their city bred friends, but simply because of the fact—and experience has proven it—that the young folks of the farm early learned the value of exactness, promptness and time,—three patent essentials absolutely necessary in a well organized business office. Look around you! You can count among your friends a boy here, and a girl there, who are making good in the business world; friends who are no brighter than you—who were possessed of no better education than you—but who, by their heeding the persistent knocking of opportunity—and having embraced it—applied themselves, are now well on their way toward the top of the ladder. This is dyed in the wool truth, friend, and you know it!

You are as ambitious as they; you are just as bright; just as capable; just as persistent. There is a position ready for you—and just as good, or perhaps even better than theirs—when you are ready for it.

Then why delay longer? Why allow your ambition to be smothered for lack of will power? Why not give way to that everlasting, burning ambition to do something worth while, to get somewhere in the business world? Then write me fully and frankly and tell me your hopes, and ambitions, and let me send you my special proposition and literature containing a simple matter-of-fact statement of my school and my methods.

PERSONAL

I spent 18 years of my life on a farm—and a Kansas farm at that and I can look at this matter just as you do. I know the confidential talks you have with yourself of what you want to do in the business world. I know the thoughts that flit through your brain day after day as you drudge along following the plow, round after round. I know what it is, friend, for I have been there myself. I remember full well, one cold, dark December morning, while out harnessing my team by the light of an old smoky lantern, that my emancipation came. I remember it as though it were but yesterday. I said to myself something like this: "Ransom, there's work for you to do out in that great big business world somewhere, when you are ready for it; work you can do; work you will enjoy; work for which you will be well paid. Prepare yourself for it; start now." And I did. Before I took that team out to the field I returned to the house and answered the advertisement of a business expert. That decision, made while harnessing the old bays, decided my future—and today I can claim the credit, and enjoy the distinction, of having assisted hundreds of young men and young women of the farm to well paying positions of trust and confidence, in nearly every state in the Union, and many foreign countries.

Here Is Your Chance—And Now! And These Branches the Stepping Stones

I WILL TEACH YOU HOW—SECURE YOU A POSITION—YOU PAY AS YOU EARN!! Stop right here and now—let this soak in. I mean just exactly what the sentence implies. I mean that I can fit you to realize the ambition you have so long harbored to become a successful worker in the business world. I mean I will not only fit you for that position—but assist you to secure it when you are competent to accept it. I mean you can pay me for one-half of your business training after I have fitted you for a position—and you are drawing a regular salary. I will make the balance of the payments to suit your convenience; and I will also assist you to a place to work outside of school hours, that will pay your room and board while in school. You could not ask for a fairer proposition than that, could you? Of course you couldn't. But get the full details. Write for my special proposition. It goes into every detail fully and accurately. Use the coupon, a postal, or letter. Simply indicate what branch you are especially interested in. Do not hesitate or delay. The sooner you act, the sooner you will be a Ransomian Graduate—and a Ransomian Graduate is a successful, trained business worker. This is your opportunity to realize your ambition. Embrace it.

- Penmanship. Auditing. Bookkeeping. Civil Service Training.
- Stenography. Accounting. Banking. Rapid Calculation.
- Commercial Arithmetic. Business Practice. Commercial Law.

Any single one of these branches is a stepping stone to better positions. You may have a preference—you may want your business training to embrace one or all of them. But no matter your preference or disposition—one, or all—means expertness with me. Look to where these branches lead. Penmanship to professorship; Stenography to Private Secretaryship; Auditing to Management; Accounting to the independent business of Public Accountant; Civil Service training to Government positions, etc. Here they are—all of them—ready and waiting for you to choose. One is equally good as another—it's simply a matter of preference.

WRITE ME NOW—PERSONALLY!

You cannot be impressed too strongly with the fact that Expert Business Training is absolutely necessary to your future success, no matter what line of endeavor you desire to follow. Therefore, start right—prepare yourself in a school that has proven its merits—from which a diploma means something.

Opportunity will not always be yours. Embrace it now while you have the chance. Take advantage of this special proposition I have arranged for you. The sooner I tell you about it, the sooner you will realize your ambition. You KNOW you want to be a successful business expert—I can make you that.

C. W. RANSOM, President

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Co-operation Among Farmers

BY HENRY JACKSON WATERS
President of Kansas Agricultural College

II.

Editor's Note—President Waters delivered a remarkable address on the farmer's co-operative movement at the recent Agricultural and Industrial congress at Hutchinson. Farmers Mail and Breeze has never before printed an address entire, nor in a series of installments, but that is what it is doing with this one because the address is a word in season to the farmers of Kansas from one who has observed and studied co-operation as a means of bettering conditions at the present time.

THE first large attempt at co-operation in this country was made in the latter part of the 70's, when the Grange established stores and undertook co-operative buying and selling. The result is familiar to all. It had both its rise and its downfall in a single decade. The next attempt was in the early 90's, when the returns from the farm had again become unsatisfactory. This attempt originated with the farmers' organization known as the "Wheel", later known as "Alliance", still later as the "Farmers' and Laborers' Union" and gave birth to the Populist party. This movement, like the preceding one, was short lived.

Land was still plentiful and cheap and as soon as consumption had caught up with production the price began to rise. Therefore, the force that held the farmers together was withdrawn and they soon fell apart. Again they voted and did business as individuals without regard to their fellow farmers. The third attempt of importance has not extended its influence much beyond the Southern states, but in the South it has become a powerful factor. It is known as the "Farmers' Co-operative and Educational Union". Those who best understand the present situation, feel that we are at the beginning of another general movement in this direction.

All previous attempts grew out of the fact that the selling price of what the farmer produced had fallen below the cost of production, or that the margin of profit was so narrow as to be wholly unsatisfactory. In these periods it was utterly impossible to get the farmers interested in any plan looking to the increasing of his output for the reason that he felt he was already producing more than he could sell to advantage and, therefore, the greater his production, the greater his loss.

They tell the story of a Colorado farmer who shipped a car of lambs to Kansas City to be sold and in return received a bill for the amount the lambs lacked in paying the freight, yardage and commission charges. The farmer replied, expressing his regrets that he had no money with which to pay the bill, but that he had several more cars of lambs if they would be of any service in liquidating the debt. In this period horses were not considered by the railway companies as sufficient security for freight and all such shipments had to be prepaid.

The farmer at that time was not in the least interested in any suggestion looking to the conserving or improving of his soil, for, as it seemed to him, the soil was incapable of bringing a profit even when exploited. Then the cost of living was low, lower than it had ever been before. A sufficient increase in the price paid the farmer to make him satisfied, did not impose serious hardships upon the consumer. This is what

happened and all went well from 1897 to 1907, the period of the greatest expansion that the world has known. It was also the period growth of cities throughout the civilized world. Land values doubled in a decade.

The conditions under which we are now living, however, are wholly different from those under which any similar uprising of farmers has occurred. Now we find on the one hand the consumer complaining bitterly of the high cost of living and the farmer on the other hand showing a poor balance due to the new value set upon his land and the increased cost of things he has to buy. The farmer cannot be satisfied in his demand for a better return for his investment by raising the price to the consumer as has been done on all previous occasions, and as already stated, the burdens of the consumer cannot be lightened by requiring the farmer to take less for what he sells. In a word, there has arisen a demand for co-operation for an entirely different reason; that of increasing the returns from the farm and of lowering the price of food to the consumer both at the same time.

This demand looks toward the establishment of direct business relations between the producer and the consumer and the elimination of all waste in getting the products of the farm to the kitchen of the consumer. Obviously both the producer and the consumer should participate in the benefit of this readjustment, and neither should be expected to monopolize them. A beginning can be made at once but its final consummation will and should require many years and will call for the exercise of the greatest patience, forbearance and charity. The immediate and entire elimination of the middleman would be disastrous. All unnecessary middlemen finally must be turned into the productive industries, but at such rate as the industries can employ them to advantage.

Any form of co-operation to be successful, must employ the methods that have been found most successful in other business. A co-operative society must be willing to employ as capable men as managers as are employed by those with whom it must compete. Moreover, in competing with corporations, it will be necessary to employ the methods of conducting business employed by corporations. For example, if the farmers start a co-operative grain elevator at some good grain center, they find themselves unable to compete with a corporation owning a string of elevators, because the corporations can outbid the farmers at the one point and make up at the other 10 or 12 points what they may have lost in destroying the competition at the one point. Of course it is all very fine to say that the farmers should patronize their own elevator even if they can get a cent a bushel more for the grain at the competing elevator, but the average man naturally is so constituted that he will sell whenever he can get the best price, and buy when he can get the lowest price, regardless of who the buyer or seller is.

To meet this kind of competition, the farmer's elevator should do exactly what the privately owned elevators have done—unite. There are some 1,600 farmers' co-operative elevators and these are nearly all in the great grain-producing states of Minnesota, Iowa, Wisconsin, Kansas, and Illinois. This aggregation of capital is probably 20 million and their annual business will net freely 250 million. Unfederated, a corporation operating three or four elevators could drive any one of them out of business. Federated, they would be safe against any competitor. Better still, if they were united, no attempt would be needed to run any of them out of business. They would be immune against attack. The same principle will apply everywhere. It must be run according to business principles.

(To be continued.)

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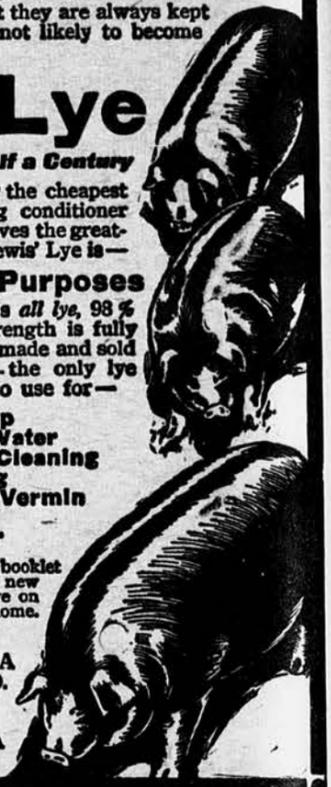
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Mgr. WEEKLY CAPITAL CONTEST, Dept. 200, Topeka, Kansas

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This Coupon Good for 1000 Points.

Must Be Used Within Next 20 Days.

Cause of the Horse Disease

A READER'S EXPERIENCE.

I am a resident of western Kansas. My ranch is 17 miles east of the 100th parallel and 6 miles south of the 39th meridian. I was in the track of the Kansas horse disease, as it started about 20 miles south of me, near Brownell. Seventeen of my own horses had the disease, 12 died, 10 were mares.

I had the government's book, "Diseases of the Horse" and diagnosed the disease as spinal meningitis. Dr. Adair Kidd of Ellis, also pronounced it that.

Mr. George Cross of Ellis, took the brain and portions of the body of a 2-year-old colt, that had died near Ellis, packed it carefully in ice and carried it to his son, Dr. Roy Cross, a chemist at Kansas City. Portions of the brain placed under a microscope magnifying 3 million times showed a very tremulous motion but the "bug" was not brought out until a glass which magnified 4 million times was used. The germ had the appearance of a flea.

Dr. Cross vaccinated a rabbit with the disease. Mr. Rabbit showed all the symptoms of the horse disease and would not eat any alfalfa hay that night but the next day Mr. Rabbit took his alfalfa and ultimately recovered.

From the colt, Dr. Cross made a vaccine of the dead "bugs." Each dose was treated to enough carbolic acid to kill the bugs, but that no bugs might escape, after the dose was sealed, it was subjected to a heat of 150 degrees to make sure all were dead.

I vaccinated my horses twice and they showed every indication of the disease, but in a mild form. One of my work horses, after being vaccinated about a week, had the disease. He was unable to drink unless the bucket was held up for him and had the bad odor to his breath they all had, but was not so sick that he could not work nor as sick as he was from the vaccination.

Dr. Adair Kidd was the first one to find the bug and vaccinated a standard-bred filly of his father's, which was down with the disease. He used meningitis serum from humans. The filly got up the next day and recovered. This meningitis serum was used successfully around Wagonney and several horses that were down were put onto their feet again by this treatment.

When the disease first appeared the cases were few and wide apart. The veterinary surgeons of the state did not understand it. The governor called upon the U. S. secretary of agriculture to send his experts to tell what was the matter with the horses but it seems there was no fund available to send men then so a prescription was forwarded consisting of raw linseed oil, 1 quart, aloes 4 ounces and turpentine, 2 ounces. This was to be used as a preventive. Many mares in foal were given this preventive and it got their colts all right.

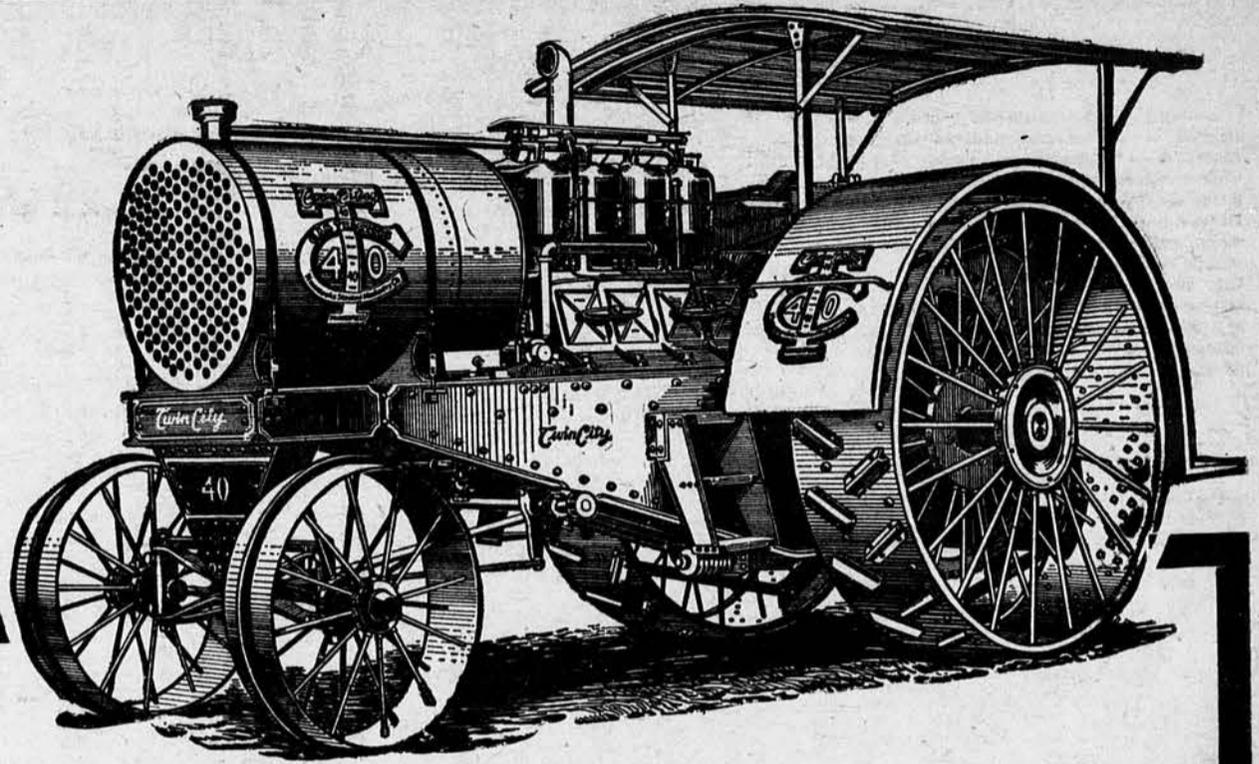
Washington moved after a while but with sloth and the disease had passed, only a few isolated cases were left to show these experts what it was like. Ellis county was the worst hit of any county in the state, losing 4,000 head of horses.

The first cause of the disease, nobody knows, but last season was very dry. Spots were made in pastures by grass dying and sunflowers were abundant. When the seed had formed, the horses ate the heads of the sunflowers. Many of these heads had worms in them like a corn worm. Perhaps this worm started the disease. And then the flies helped to do the rest. I never saw the flies as thick. It was during the time that Texas was so afflicted with flies.

Russia has been vaccinating for years, for this disease, so say farm hands from Russia. I consider vaccination as sure a preventive against the disease as vaccination of young cattle against black-leg. If any wish further advice I would refer them to Dr. Roy Cross, chemist of Kansas City who found the bug and made the first vaccine, or to Dr. Adair Kidd who also found the bug and used the first serum.

W. F. King.
Glendale Stock Farms, Ellis, Kan.

If you want to know what's the matter with the South read the farm papers printed in that part of the country. Two-thirds of the space is used in discussing fertilizers. But the plethora North goes right on robbing the soil.—Industrialist.



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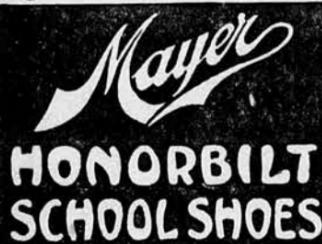
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WARNING—Be sure and look for the Mayer name and trade mark on the sole.

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MAIL AND BREEZE
Topeka, Kansas

JAYHAWKER FARM DOIN'S

BY H. C. HATCH, GRIDLEY, KANSAS.

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

Not since we have lived in Kansas has there been such a demand for farms by renters. It now seems likely that a number of renters will have to go without places unless there is a change.

The number of renters is undoubtedly increasing each year but that is not the only factor making farms to rent in greater demand in this part of the state. Many places formerly rented have been sold within the last year accordingly we believe the number of farms for rent in this county is fewer than for many years.

The packers are still working hard to bring the price of hogs down. They think they should be able to buy on a corn basis. If they believe hogs should be bought on a basis of feed why do they not put up the prices in times of scarce and high-priced corn, when the cutting loose of hogs by farmers breaks the market badly? It is a poor rule that wont work both ways. If we have to take the lean at times we should also have the fat when there is any.

Considerable farm land has changed hands here this winter, some of it on trades and the rest in the regular way. It is getting common for a man with a stock of goods which is not making him any money to trade it for land if he can do so. The man with a small equity in a farm is often ready for a trade if he can see a way to get a little more than he paid for the land. But the good farms and the good businesses are not for trade as a usual thing.

The hogs we have on feed are gaining well, partly because they got a good start and partly because the weather has been so good. At times it has been cold but at no time has it been muddy. Dry feed lots are what suit a hog and he does not mind a little cold weather providing it is not windy; a hog certainly does hate the wind. We have heard it said that a hog can see the wind but as to that we cannot say.

These hogs were farrowed last May after the weather had turned off nice and dry. As a consequence a good average in number per sow of pigs was saved, the six sows raising 42 pigs to hoghood. Had the pigs been born 30 days earlier we would have been lucky to have saved 20 head. We used to think that March was a good time to have pigs come but of late years early pigs have had a hard row to hoe.

We were short of corn all summer and both hogs and pigs lived on short grain rations but had plenty of pasture. On October 1 these pigs weighed about 40 pounds each. At that time we began to feed new corn and new Kafir with shorts slop. They began to gain rapidly and will now, January 17, weigh something like 225 pounds each. Not a great gain to be sure, but pretty good for what they have cost us and for their weight and condition on October 1.

There is not, in this part of the state, one-third as many cockleburrs as there were five years ago. Dry seasons which were favorable for weed killing were partly responsible for this but the disposition shown by most land owners to get entirely rid of them was what cleaned most of them out. If there is anything that will spoil the sale of land quicker than to see it covered with burs we don't know what it is. They are a very bad weed, for in addition to sapping the ground of moisture and fertility, as other weeds do, they actually seem to poison the soil. However, they are not so hard to get rid of as many used to think; between smartweeds and cockleburrs, we think the burs the most easily disposed of.

Three of the very bad weed pests of the West and North have not as yet reached this section. These are the Canada thistles, velvet weed and quack

grass. We have heard that velvet weed is already in this county but we have not seen any. Quack grass is a very bad pest in the North and East but we do not think it will prove hard to get rid of here on account of the dry spells we have during the summer. We do not know what Canada thistles would do here but think it likely they would have hard sledding getting hold on prairie sod. In the East we know of many farms that have been almost entirely taken by quack grass or, as they call it there, witch grass.

There is one field of Johnson grass in this township and it has maintained a hold on the field in which it grows for the last 17 years that we know of and in spite of temperatures which have several times gone 20 degrees below zero. We have seen it stated that Johnson grass cannot stand a great degree of cold but it has in this one case, at least. It seems to maintain about the same kind of a stand but we cannot see that it is spreading to neighboring fields. Only one real effort has ever been made to get rid of this grass; one dry fall it was plowed late and as it was a dry winter following, the ground blew somewhat. In the spring the grass started very slowly and it looked as though it was killed but when warm weather came on it grew as well as ever. If we had it we should try close pasturing for two years with hogs and sheep if necessary. We think continued mowing might also kill it but it has never been mowed, having been in some cultivated crop all the time.

We see that Governor Hodges has recommended a recording tax on real estate mortgages and as all parties had a plank in their platforms in favor of it we are likely to have trial of it during the next two years. It seems to us to be right for at this time home capital is badly handicapped by the present law which taxes at full value mortgages held by residents of Kansas and lets non-residents off without tax. Mortgages are at a disadvantage when compared with other property, for mortgages are assessed at face value while other property gets off for a good deal less. In fact, in some townships the assessed value of land as compared with the price paid at actual sales runs from 65 to 75 per cent. In some of the towns the tax rate is very high and the mortgage owner living there has to pay one-third of his income derived from the mortgage in taxes. This is an outrageous tax and it has the effect of keeping home money out of the real estate loan field.

Within the last two years there has been a general rise in price of grass land in this locality, especially that which will produce good pasture. Hay land also is higher, especially that which lies near a shipping point. Cattle prices have risen so there is now good money in selling off grass, as the weight added by grass has in the past been added very cheaply. Land owners are now wanting their full share of this increased price and are asking from \$6.50 to \$8 per head for pasturing mature cattle. This is an increase of 100 per cent in the last eight years. But pasture land which formerly sold for \$15 per acre is now hard to buy for \$30 so the net income of the man who buys the land is no greater than it used to be. There is a move on the part of some pasture owners to charge for gain in weight instead of by the head. They wish to weigh the cattle when they go on pasture and then when they are taken off to weigh them again and charge \$4 per hundred for the gain made. This, in the case of thin cattle of any age, would be charging pretty high pasture rates. We have an idea that the old way of charging by the head will hold for some time. But the increase in price of cattle is certainly adding value to grass land down here in Kansas.



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Feeds & Feeding
QUESTIONS ANSWERED
by Prof. G. C. Wheeler
(Address queries to Farmers Mail and Breeze)

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

What Material for Silo?
I am going to put up a silo this summer and not having much experience with them would like your opinion as to wood, brick and cement. I should like to erect a brick one as I think they look better. How thick would the walls have to be and how would the bricks be laid, providing it is satisfactory? You must take into consideration that our winters are not so severe here as yours.—J. W. H., Muskogee, Okla.

The Kansas Experiment station regards the cement silo with the greatest favor. Seven of this type are now in use on the various farms of the Experiment station. Their chief advantage is that when once properly constructed they become permanent fixtures, costing absolutely nothing for maintenance or upkeep.

We have had no experience with the brick silo. They can be used but great care must be taken that the proper amount of reinforcing is placed in the wall during the process of construction. It will also be necessary to carefully coat the inside with a thoroughly impervious layer of cement plaster, to prevent the absorption of moisture from the silage by the porous brick of the walls. Well constructed wood silos are very satisfactory, but have the one disadvantage that they require considerable care and attention during the period of the year during which they are empty.

G. C. Wheeler.

How Feed Kafir to Milk Cows.
Would ground Kafir and bran be a proper feed for a Jersey cow and richness of milk? If so, how much? Would threshed hay do any harm?—J. R. S., Montgomery county, Kansas.

If alfalfa hay is used as the main roughage, ground Kafir and bran will make a very satisfactory grain ration. The Kafir meal and bran should be mixed in the proportion of 2 parts Kafir to 1 part of bran by weight. The amount to feed of this grain mixture will depend upon the amount of milk the cow is giving. If late in the lactation period, it is not necessary or profitable to feed as much grain as early in the lactation period, when the cow will give a much larger flow of milk. Variations in the character of the ration will not have any appreciable effect upon the richness of the milk. The per cent of butter fat contained in the milk of the cow is an individual characteristic of the cow.

Millet hay which had been allowed to mature sufficiently to ripen seed would be of inferior value for feeding milk cows.

G. C. Wheeler.

Feeding Kafir to Hogs and Horses.
Being a reader of the Mail and Breeze I should like to ask if it is safe to feed Kafir stalk and all to horses? How much Kafir meal is a feed for one horse? Is the meal safe to feed alone to hogs or should I mix it with corn? It cost me 20 cents per hundred to get it threshed and ground. Is that too high?—G. A. F., Paden, Okla.

Kafir corn, if it has been cured in such a manner as to be free of mold, would be perfectly safe to feed to horses. Bright, well cured Kafir makes a very good roughage for horses. Kafir meal has practically the same feeding value as corn meal. The amount of grain to feed a horse depends largely upon the amount of work the horse may be doing. Horses at hard work require about 1 1/2 pounds of grain daily to each 100 pounds of weight. Kafir meal would be greatly improved, as a grain ration, by the addition of a little bran.

For hog feeding, Kafir is perfectly safe and makes a close second to corn as a producer of pork. It will not give the most profitable results, if fed alone, since it is like corn, very deficient in protein. Most profitable results will come by the use of tankage as a means of supplying this deficiency. About one-tenth of the total grain ration should consist of the tankage or meat meal. If the Kafir is ground it may be mixed with the tankage in this proportion before being fed.

G. C. Wheeler.

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Dairy Farming

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

A reader recommends powdered char-
 coal given in the milk, as a remedy for
 scours.

The dairyman who has alfalfa hay to
 feed needs less grain than the man feed-
 ing other hays.

Plenty of sunlight in the calf stable
 makes for health and quick growth in
 the youngsters.

Other things being equal, the separa-
 tor on a solid and level foundation will
 give the longest service.

Farm crops sold to cows and shoats
 bring top prices and the fertility of the
 soil is kept on the place too.

Better not get reckless with the feed
 yet. It is easily possible that there
 still are eight to 10 weeks of bad weather
 on the way.

A little careful feeding about 10 days
 before freshening time is all that is nec-
 essary to prevent milk fever and other
 udder troubles.

I consider a daily record if properly
 kept is worth just as much each year
 as a good cow. I would be lost if I
 had to give it up.—J. C. B., Quinter,
 Kan.

Dairy Awakening in Illinois.

Dairying has been something of a busi-
 ness in Illinois for more than 50 years,
 but during this time, according to its
 experiment station, not much of any-
 thing has been done in the improvement
 of its dairy stock. Until very recently
 fresh cows have been brought from other
 sections into the neighborhood of the
 creameries and were milked through the
 winter or as long as they produced pro-
 fitably without breeding, after which
 they were sold for beef at a price often
 equal to the price paid when fresh. The
 ease with which "red cows" could be
 purchased in the neighboring sections
 and the relatively high price paid for
 milk kept drawing the best cows from
 the surrounding country and sending
 them to the slaughter house without
 leaving any progeny. If any were bred,
 the calves were killed or were sold for
 veal as soon as possible after birth.
 This system discouraged, rather than
 encouraged the breeding of good cattle
 within the dairy districts; consequently
 Illinois has a very small number of
 good, purebred dairy cattle, compared
 with some of the surrounding states.
 Recently the prevailing high prices have
 set Illinoisans to raising their own
 cows, purebreds preferred.

Calf Feeding for Growth. (Prize Letter.)

Mr. Editor—I have had the best of
 success raising calves by letting them
 have new milk until 2 weeks old, then
 gradually changing to separator milk.
 The foam is skimmed off the separator
 milk and given warm, about a gallon
 per calf night and morning. For grain
 I mix 4 parts mill run, 2 parts shorts,
 2 parts corn meal, and give them a
 small handful each at a feed, gradually
 increasing this until they each get a
 quart twice a day. I feed them almost
 any kind of roughness I may have—
 alfalfa, corn fodder, Kafir, or prairie
 hay. It is good to give them a change
 in feed once in a while and be sure to
 add a little salt to the ground feed
 twice a week.

Sometimes calves will get too many
 alfalfa leaves in eating hay and scours
 may be the result. For this trouble I
 have a never failing remedy in equal
 parts of laudanum, spirits of camphor,
 and extract of rhubarb. For a small
 calf give 1 teaspoonful, for an older calf 2
 teaspoonsful, and for a cow 1 table-

Talk About Simplicity!

Here are all the parts that go to make up the bowl of the

SHARPLES TUBULAR CREAM SEPARATORS

and with these three we guarantee Tubulars to skim 50% closer and to continue to skim 50% closer than any other separator made.

THIS BEING THE CASE—

Why should you have to wash up seven times this many pieces—twice a day?

That is a question that is easier to ask than to answer.

There has never a claim been made for Sharples Tubulars that could not be proven;—there has never a machine left our Factory that was not guaranteed *Forever*.

Mark that—not merely a year, or two years—or even five—but *Forever*. Look into these features before exchanging your old separator, or at the time you decide that there's money in selling the cream and keeping the skimmed milk on the Farm.

Write for our interesting Catalog 156 and arrange for a Free test right under your own roof. The people who ask questions are the ones who buy Tubulars.

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IT gets the low prices. But there is no reason why the farmer should not also enjoy cash with order prices in buying a high grade separator from his dealer. This is exactly our proposition. We enable the dealer to sell our

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550 lb. Capacity, \$47.50
 750 lb. Capacity, \$56.50
 900 lb. Capacity, \$63.50

How can we do it? Simply by practicing mail order economies in selling our goods—cash with order and no salesman's expense. We save the mail order profit by manufacturing ourselves; we save sales expense by employing no salesmen; we save losses and long credits by getting our money with order. The dealer in turn gets spot cash and can afford to sell for less profit. The result is a price for the Standard which is less than mail order figures for anything like as high grade a machine of similar capacity.

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We use mail order economies, but we do not do a mail order business. Our product is strictly high grade—handled exclusively through reputable dealers. In buying a Standard you get dealer service and dealer backing—a chance to see the machine before you buy it and to return it within a reasonable time if it does not please you entirely. Your money will be promptly refunded. Every dairyman who desires the advantages of buying a standard make of separator from his dealer at mail order prices should look into this proposition. Write for our catalogue on the "STANDARD", and get full particulars. You won't have to buy unless you want to.

NOTE: For herds of more than ten cows we recommend using the self-powered "AUTOMATIC." It requires no cranking; is driven by a self-contained gasoline engine of remarkable efficiency. Bowl spins at high, even speed, without a trace of vibration. A great labor saver. Used by thousands of up-to-date dairymen in this country. Write for our "AUTOMATIC" catalogue and testimonial letters. They will surprise you. If you are milking but half a dozen cows, buy the hand-driven "STANDARD" at mail order price now, then trade it in later for an "AUTOMATIC" when your herd becomes larger. We will make you a liberal allowance through your dealer.

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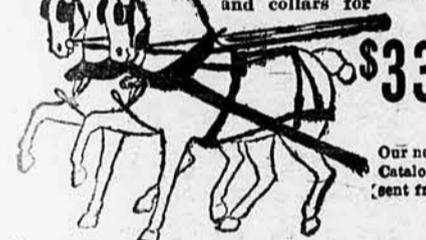
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spoonful. I put the proper dose in a pint of warm water in a long necked bottle and give as a drench. I can drench any cow or calf I have by putting my right arm around their necks and with my left hand put the bottle into the mouth back of the front teeth.

Last winter a fine yearling Jersey heifer had a bad attack of scours which turned into bloody flux. I used the remedy mentioned and the calf began to look better after the second dose. I gave it to her four times a day for three or four days and she got well. Now she is as nice a heifer as any of them and will be fresh in about two weeks.

Last fall at a sale I bought an or-nery, little, good for nothing, pot-bellied male calf that was dropped about the middle of July. I don't believe anyone else would have led him out of the ring. He cost me \$1.50 and I fed him two months as described in the foregoing. He was butchered December 23 and dressed 140 pounds.

Mrs. A. E. Watts.
R. 1, Independence, Kan.
Purebreds Made a Big Difference.
[Prize Letter.]

Mr. Editor—I have farmed and milked cows more than 30 years. My experience has shown me there is no such thing as a "dual purpose" cow. Beef and milk will not go together. Four years ago I had some good cows of mixed Red Poll and Hereford breeding. They had the best of care and feed but figuring my feed at market prices there was not enough profit left over to pay for keeping them. I sold all those cows but a few of the very best and bought a good registered Holstein bull, a fine registered cow and some good Holstein grade heifers. As soon as these new cows came fresh I saw a marked change in my profits but my registered cow was the real money maker. I am now adding purebred females to my herd as fast as possible. I have been grading up my herd and now have some fine bred animals and while it is slow work I have found it a paying investment. My advice to the beginner is to get a good registered sire and use him on good grade cows if not able to buy all purebred stuff.

I would not be without a separator. You have your milk separated while warm and most valuable for calves and hogs. For the last two years we find it more profitable to sell butter than cream. Last summer we could not supply the demand for butter at 25 cents and now we get 30. A pound of butter fat will make more than a pound of cream and in selling the cream you are always running the risk of getting the worst of it in weight and test.

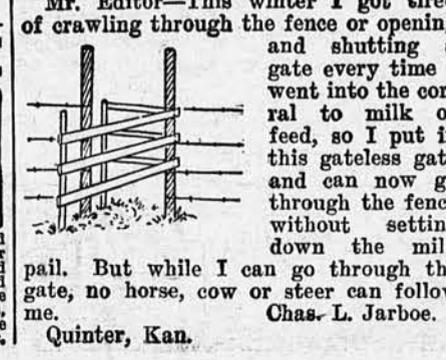
In winter I feed corn and Kafir fodder, and sowed cane for roughage. For the grain feed I mix 2 parts corn chop and 1 part bran, adding to this some cotton seed or oilmeal. For every 3 pounds of milk given the cows get 1 pound of the corn and bran mixture and about a pint of cottonseed meal or oilmeal. The cows are stabled in winter, kept well bedded and never forced to drink ice water. Water direct from the well is all right. On stormy days they are kept in the stable all through the day.

The calves are allowed to suck until the milk is good, then they are fed whole milk for about four weeks, after which I gradually reduce the fresh milk to skimmilk. By this time the calves are eating a little. As soon as they will eat I let them have some corn chop and a little oilmeal. I have had no trouble in selling my calves at a good premium over common calf prices.
E. R. Violet.

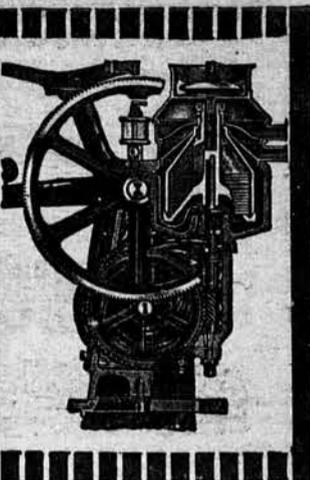
Fall River, Kan.

Mr. Jarboe's "Gateless" Gate.

Mr. Editor—This winter I got tired of crawling through the fence or opening and shutting a gate every time I went into the corral to milk or feed, so I put in this gateless gate and can now go through the fence without setting down the milk pail. But while I can go through the gate, no horse, cow or steer can follow me.
Chas. L. Jarboe.
Quinter, Kan.



A Perfect Separator Oiling System



In a machine which is operated at the speed required for a cream separator, perfect oiling is very necessary. The new system of De Laval automatic oiling provides for a constant and liberal supply of CLEAN oil to every wearing surface of the machine at all times. There are no oil holes to fill up with dirt or perhaps to be neglected altogether, and every part is supplied with clean oil from the oil reservoir automatically and constantly.

In other, so-called, automatic oiling systems some of the parts have to be oiled by hand and no provision is made for getting rid of dirt that may get into the oil from the outside or of small particles of metal which come from wear, so that after a short time the oil supply becomes foul and injurious to the finely adjusted wearing parts.

DE LAVAL Cream Separators

have the only automatic oiling system which provides for a constant supply of fresh oil and, at the same time, the constant discharge of the used oil together with all worn metal particles or dirt which may have gotten into the used oil.

The perfect system of De Laval lubrication means an easier running and a much longer wearing machine. Visit the local De Laval Agent and ask him to explain the advantages of De Laval automatic oiling.

The new 72-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 De Laval catalog also mailed upon request. Write to nearest office.
THE DE LAVAL SEPARATOR CO.
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

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Twice a day—730 times a year—for a lifetime—you'll be mighty glad you chose a Great Western Separator instead of any other.

Whenever neighbors are around while you skim—or when you happen to be at your neighbor's when he is skimming with some other make—you'll feel proud of your judgment in selecting a Great Western. You'll realize then, what Great Western

The Great Western is ball-bearing throughout. The balls we use are absolutely uniform in size and test 50% to 100% harder than balls others use.

The ball races in the Great Western are tempered so hard that you cannot cut them with a file. That is why the Great Western beats them all for easy running and long service—why it is positively the greatest and undisputed

Quality

means to you. You'll realize what it means in close skimming, easy turning, easy cleaning and in bigger profits from quality cream and butter. Let us tell you the facts.

The Great Western bowl follows nature's laws by delivering the cream from the top and the skim milk from the bottom. There is no chance of their mixing—so you get the utmost in quantity and quality of cream—even when skimming COLD milk.

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VETERINARY ADVICE

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

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

Blood Warts.

I have a mule that has a blood wart on the outside of his right knee. How can I take it off?—P. W., Cherryvale, Kan.

The best way to treat warts usually is by cutting them off. Sometimes a large area is affected and it may not be advisable to cut it off. In these cases a little nitric acid may be applied with a glass rod or oil of thuga may be applied to the wart and 30 to 40 drops of the oil of thuga given internally once daily for a few weeks.

Throat Inflammation.

I borrowed a boar for service that was apparently O. K., but about the second day afterward he began to get stupid and paid no attention to the sows. In four or five days his under lip began to swell, his nose seemed stopped up and he slobbered. His mouth seemed inflamed and he would not eat corn although he drank some water. I took him home but he died the same day.—T. S. C., Lawrence, Kan.

It is rather difficult to tell the exact trouble that caused the death of the hog. Possibly it had inflammation of the throat and was unable to swallow and possibly the throat became so swollen as to cause suffocation. Just what caused the throat to become inflamed I am unable to state.

Symptoms of Glanders.

I have a mule coming 4 years old that has a discharge at the nose. Today it is bloody and very offensive. It only comes from the right nostril. It is something like distemper.—W. A. J., Hugoton, Kan.

I would suspect from your description of your mule that it had glanders, or necrosis of the bones of the nostrils. I would suggest that you get some competent veterinarian to make a thorough examination of the case so as to determine the exact condition before you attempt to treat it.

Joint Lameness.

I would like your advice about a lame horse, 9 years old and weighing 1,500 pounds. He first went lame in the left hind leg, his hip is shrunk somewhat and the skin seems to be drawn tight from the hip joint to the stifle joint. I can find no soreness anywhere. He does not limp much when walking but will go on three legs in trying to make him trot. He is in good flesh and eats well.—F. G. T., Gotebo, Okla.

The shrinkage of the muscles of your horse's hip is very probably due to some trouble at another part of the leg. Just where that trouble is I am unable to say. Possibly it is a spavin and the swelling at the hock has not made its appearance. It may also be due to lameness of the stifle joint.

Caked Udder.

I have a cow that came fresh last October. Four days after calving the left front quarter of her udder became swollen and feverish and the cow acted sick. I bathed her udder with kerosene and she improved but six weeks later she had another attack. She gave lumpy milk for two or three mornings but I got her well with the kerosene again. What is this trouble?—J. M. H., Madison, Kan.

From your description I think your cow must be suffering from a chronic form of garget or caked bag. When it makes its appearance I would suggest that you bathe the quarter affected well, with warm water and rub it gently but thoroughly. Give a tablespoonful of the fluid extract of poke root twice daily in a little water as a drench.

Ruptured Cow.

I have a 3-year-old cow that has a lump on her side between the second and third rib from behind. I can mash it down so it all disappears but it will return when I take off the pressure. It is about the size of my fist and in the center there appears to be a hole through between the ribs. Is this a rupture?—J. P., Western, Nebraska.

It is very possible that the lump is a rupture due to some injury breaking through the muscles and not breaking the skin. It may be possible to reduce this by placing pressure over the part and allowing the hole to heal over. A



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piece of the skin over the opening might also be put in clamps and allowed to slough off, but if it is small and does not cause any inconvenience I would suggest that you do not bother with it. If it should need attention it would require considerable skill to treat it properly and you should consult your veterinarian.

Worm Remedy.

My hogs have the long, white worms and would like to know how to get rid of them without drenching.—A. J. S., Concordia, Kan.

If your hogs are troubled with worms give a tablespoonful to every three hogs twice daily of the mixture given below and after giving the medicine 10 days or two weeks give then 2 or 3 tablespoonful or more of epsom salts so as to cause them to become quite loose. The medicine can be given in the slop. It is gentian 1 pound, copperas 1/2 pound, charcoal 1/4 pound, baking soda 1 pound, wormwood 1/4 pound. Mix these ingredients thoroughly.

Udder Troubles.

I have a cow that was fresh December 19 and the passage in her left front udder is partially closed. The milk comes into the teat very slowly but by continual stripping I can get all the milk. She has no fever but there seems to be a slight tenderness in this part. What can I do for it?—G. V. A., Westmoreland, Kan.

The enclosure in the duct of the teat may be due to fibrous tissue formed around the duct or it may be due to a little growth in the duct. This trouble is sometimes overcome by cutting and enlarging the opening with an instrument made especially for this purpose, or a teat dilator may be inserted which would cause the stretching of the tissues. This dilator should be kept in the teat between milkings for a few days at a time till the trouble is overcome.

Failure to Breed.

I have a 4-year-old Jersey cow that had a calf a year ago but have failed to get her with calf since, although breeding her a number of times. About 24 hours before coming in heat there is a mucous discharge.—M. N., Stafford, Kan.

It is very possible that the cow has chronic infection of the uterus. I would suggest that you see your local veterinarian regarding the treatment. The treatment is quite tedious and sometimes has to be varied, but you might try irrigating the uterus with two percent of carbolic acid in water, twice a week until the discharge ceases. If it does not cease within two or three months you should have the animal examined to determine if possible the exact cause of the discharge.

Abortion in Cows.

I have a valuable herd of 500 Galloway cows that began to sink their calves some time ago. I am at a loss to know what is causing this and would like to have your advice.—A. L. A., Cedarvale, Kan.

Abortion may be contagious or it may be the result of injuries or improper food or feeding. I would suggest that you see a competent veterinarian and have him vaccinate your herd to protect your cows against this trouble. Some claim to have good results from feeding carbolic acid in salt and also from giving hypodermic injections of 2 drams of a 4 per cent solution of carbolic acid and water. Inject this every two or three days for two months before calving. The benefit to be expected from this line of treatment is rather doubtful. Kansas Agricultural college has a little circular on this subject which will be sent for the asking.

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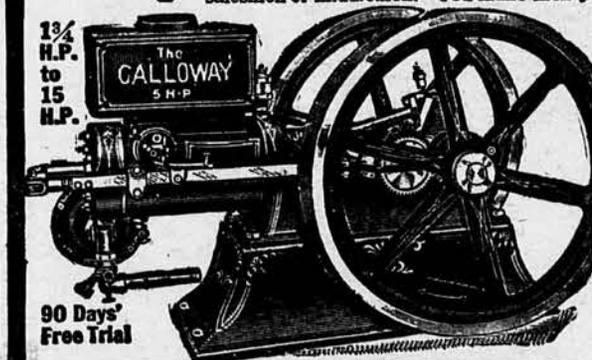
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ORCHARD & GARDEN

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In your order for nursery stock, don't fail to include a few Concord grape vines. Quality and hardiness considered, you can't beat the Concord out here.

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Readers of Farmers Mail and Breeze are invited to write to the R. M. Kellogg company of Three Rivers, Mich., and ask for a copy of their strawberry book. The book is a complete treatise on strawberry culture and a copy will be sent free to any reader of the Mail and Breeze requesting it. Mention this paper.

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[Prize Letter.]

Mr. Editor—A good garden and full table is a subject that should and does interest every family, whether on the farm or in town. It takes a very small plot if rightly tended, to furnish an abundance of nourishing, health-giving vegetables. I have grown 175 bushels of tomatoes on a 1/4-acre and 150 bushels of onions on a plot of similar size. This is a good time to select the garden tract, which should be of reasonable fertility and located close to the windmill. It is a good plan to turn on the water even in winter and thoroughly wet the ground, provided it is in condition to absorb the water. This wetting will go a long way toward insuring a good crop of vegetables next summer.

I find it best to have the garden in rectangular form with long rows rather than short ones. The last few years I have plowed my ground in the fall and it has been my experience that this way of doing is much superior to spring work. Manure may be applied before plowing and by so doing it will have all winter to become incorporated with the soil. Fall and winter plowing also destroy a great many injurious insects by turning them up to the weather. But greatest of all early plowing advantages is the fact that the soil will have a chance to become settled and compact before planting time.

I have never irrigated in my garden operations but have depended entirely on intensive cultivation. During the growing season I find it necessary to work the ground as soon as possible after every rain. A garden cultivator will reduce the work to a minimum and make the gardening more agreeable.

Arthur Richards.

McDonald, Kan.

Irrigating from a Stock Tank.

[Prize Letter.]

Mr. Editor—In a recent issue of the Mail and Breeze I saw an inquiry signed "J. D. W." asking for experiences on windmill irrigation. I have a garden that I water from the mill by turning in the overflow from the tank. I have my stock tank at the highest point and the overflow is taken through a fence into a ditch from which laterals run be-

tween the rows to all parts of the garden.

If the ground has too much fall the laterals must be run on grade with about 1/2-inch fall to the rod, as the water should travel slowly. Flooding the ground won't do here as the sun is too hot and the surface will bake. I would not advise trying more than 1/2-acre with one mill unless it is to be used for irrigating purposes only. It takes a good deal of water to irrigate even a small plot in a dry season.

I do not figure this irrigating to be any extra expense to me as I would have used the mill anyway to keep the water fresh in the tank. I have been watering my garden this way for the last two years and last year had the only garden close around here. As for a paying proposition, there is nothing like it. I can raise more on 1/4-acre of ground under the ditch than on an acre without water. Our tomatoes grew 6 feet tall and the other truck accordingly.

There was little or no extra work to do. The first cost, of windmill, tank and all would not be great and in one dry season could be made to pay for itself from the garden alone. My windmill cost \$35, 14-barrel tank \$14, and piping \$4.

Navina, Okla. Arthur L. Butts.

Increase the Demand for Fruit.

L. C. Stark, the Missouri nurseryman, in a talk to fruit growers at Kansas City, said recently that all fruit interests, scientists, nurserymen, orchardists, and fruit merchants should co-operate in an active campaign to popularize the use of fruit by the general public and place fruit in every household as a capable food.

Good, ripe fruit is not only of great food value, but the medicinal qualities of fruit, particularly apples, are well known. A leading physician in one of the largest hospitals in the world recently wrote as follows:

"A great many sporadic cases of scurvy come to our notice in the large cities. Under adequate acid fruit diet, these cases are immediately relieved and eventually cured."

For many years the mid-day meal of ex-Senator Cockrell, for 30 years United States senator from Missouri consisted of a big luscious apple, and thousands of the busiest men in the great cities are following his example.

The greater consumption of fruit, said Mr. Stark, will also go a long way toward reducing the present high cost of living. People of our country can be educated to use more fruit products as staple foods, just as they have been forced to do in Europe and other countries of the old world. In those countries we find the population eating proportionately a much larger per cent of fruit and vegetable products and a much smaller per cent of meat than is consumed here in this country. They are greatly benefited financially and their health is immeasurably better. We must overcome the American idea of considering fruit as something of a luxury.

To accomplish this object, we must do three things: We must solve the problem of supplying every family with good ripe fruit at moderate cost; we must lower the cost of production, and we must improve methods of distribution. The real problem confronting us is to lessen the final cost to the consumer. This can be done—it will be done, and that too without lessening the final net profit to the orchardist or nurseryman.

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

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Grow Potatoes on Fallow Land

BY W. M. JARDINE, Director Kansas Experiment Station.

Mr. Editor—The dry-land farmer isn't concerned about fertility. What he wants is a living and he wants it now. We must help him to get it. Show him how to do something now, tell him how to feed his family, first, and then he will be in position to take up and study the other problems. The thing to do is to show him how to store up every drop of moisture to grow crops that produce money.

Why should not potatoes be a good crop to grow on fallow land—land which, otherwise, would be idle for the year? Why not, anyway, have crops two years in three? Wouldn't many a dry-land farmer like to have \$100 an acre from his fallow? Wouldn't he be delighted to get \$50? Mind, now, I don't recommend you to drop wheat in favor of potatoes, but here is a scheme that may tide over many families while they are waiting the result of a scientific test of systems we advise.

Only three crops in the dry lands are making money, wheat, milo and flax. Why not add another and increase the income? The farmer who thinks he will grow rich on one crop is much mistaken. Potatoes could be planted in the low, waste places where grain cannot be sown. They would prove to be the farmer's friend.

Plant these varieties: Early Petosky, Irish Cobbler and Early Ohio. These varieties are not the largest yielders, I admit, but they are the earliest and, therefore, the most advisable. Use selected tubers hand picked. If not too large plant single tubers having only one or two eyes. If large, cut them. Two eyes are better than six in seed potatoes. Plant in rows 3 feet apart, and 20 to 24 inches apart in the rows, 4 inches deep. Subsoiling is fairly satisfactory. Manhattan, Kan.

Prune First, Then Spray

BY GEORGE P. WELDON, Colorado Experiment Station.

Mr. Editor—The necessity for thoroughness in spraying is recognized by every one who has had any experience in fighting our worst insect pests. Yet this is certainly true in the case of many of our orchards where more time spent in heavy and intelligent pruning and less in spraying would result in much more effective work than is sometimes done.

Orchards have been observed time and again where the growth of the branches was such as to exclude the sun almost entirely from the center of the trees; where the fruit was small and poorly colored; where codling-moth found conditions entirely favorable for its survival. Yet when the owner was asked why his fruit was wormy he would reply that the spray was not good.

Heavy pruning of old trees does not usually become necessary when each season after planting, moderate, careful, pruning is done, but there are orchard trees that offer a resistance to thorough spraying so great that our high pressure power sprayers are insufficient to overcome it altogether. Before spraying should be attempted in such cases the trees should be cut back to a reasonable height and all the interfering and surplus branches should be taken out. This would make the tree low enough so that the topmost branches may be easily sprayed, and the head open enough so that each branch may get its share of the liquid.

Trees that would properly require from 20 to 25 gallons of spray for the most thorough work could probably be well sprayed with 10 gallons when pruned as they should be. Ft. Collins, Colo.

Cleaning Out the Prunings. (Prize Suggestion.)

Mr. Editor—I want to tell the brethren how I clean the brush and prunings out of my orchard. I use a "bull rake," one of the kind with the horses hitched behind it, and push the brush out of the orchard rows the same as you would push hay up to a stack. I also use this rake to pile brush in clearing ground. It beats loading on a wagon. H. J. Earl.

Yukon, Okla.

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Two Pounds FREE To Each Subscriber I am reproducing here a photograph of the world's best bushel of Seed Corn—the bushel which was awarded first prize at the National Corn Exposition, Omaha, Nebraska, and which I purchased for \$280.00 cash. I gave some of this seed corn to Mr. H. V. Cochran, one of the most expert seed corn growers in America, and the seed which I offer here was grown from the prize bushel and you will find it the equal of the original bushel, which brought perhaps the highest price ever paid for a bushel of seed corn. The corn is a large pure white, deep grain, matures in less than 100 days and is an extra heavy yielder. I believe this to be the greatest opportunity ever presented for the readers of my paper to make a record increase in the quality and yield of future corn crops. The way to improve the corn crop is by the use of high-bred seed—and here is seed which I believe cannot be equaled by any other, no matter what the price. A few pounds of this seed should bring enough fine quality seed to plant your entire acreage next year.

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CROPS and FARM WORK

Moisture in Some Form Badly Needed by Growing Wheat With Slight Damage Already Reported—Ashy Condition of Soil Favorable to Blowing—Chinch Bug Situation Grave—Stock Wintering in Splendid Condition

(Crop Reporting Service of Farmers Mail and Breeze.)

Either a soaking, 24-hour rain or a 2-foot blanket of snow would come in very handy at this writing, in fact moisture is the greatest need of the hour in Mail and Breeze farming territory. So far, this winter has been almost exact duplicate of the winter of 1910-11, but let us hope and pray the season to follow it will in nowise be a duplicate of that of 1911. Wheat is greatly in need of moisture in many sections. C. B. Blaylock of Ellsworth county, Kansas, speaks of some wheat turning yellow and of the soil being as dry as ash. In many fields the crop does not cover the surface enough to prevent soil drifting and some damage from this source is being reported.

Burning out chinch bugs in winter quarters is still proceeding in an everyman-for-himself sort of way. Reporter Jacobs of Kay county, Oklahoma, deplores the fact that burning could not be done more extensively while grass and trash is dry and inflammable. Various reports speak of large numbers of bugs wintering over and of good prospects for a fine crop of bugs next summer.

So far the winter has proven unusually favorable for stock with very little loss from disease. Corn stalk disease is conspicuous by its absence this winter, only scattered reports of small losses having been reported so far. Roughness is plen-

tiful in all quarters and it would take a long drawn out winter to make use of the supply still on hand.

Reporter Haskett of Hughes county, Oklahoma, speaks of 88-degree temperature in January and also reports a fine rain last week.

KANSAS.

Gove County—The winter has been an open on so far. Stock doing fine with plenty of feed and pastures good. Lots of cane seed on hand but prices are poor.—H. W. Schable, Jan. 23.

Ellsworth County—Dry weather continues. Wheat ground dry and in an ashy condition. Some wheat turning yellow. Fields not pastured are in better condition than those that were grazed.—C. B. Blaylock, Jan. 25.

Graham County—Fine weather. Wheat looks O. K. Several farmers have lost cattle on stalk fields and many are keeping stock off stalks entirely. Wheat 75 cents, corn 38, butter 25, eggs 20, hogs \$6.50.—C. L. Kobler, Jan. 25.

Finney County—Fine winter weather. Wheat doesn't look very good here. A few sales being held over the county and stock sells fair. Several horse and mule buyers working through this section.—F. S. Coen, Jan. 24.

Crawford County—Weather cold but have had a little moisture recently. Large acreage of winter plowing done. Stock wintering well. Ideal weather for chinch bugs and prospects are good for a large crop of bugs next summer. Little burning done.—H. F. Painter, Jan. 18.

Osborne County—The first of January was cold enough to make good ice but the weather is fine now. Wheat O. K. yet but needs moisture of some kind. Stock doing well with plenty of rough feed for it. All stock sells high at sales. Hogs \$6.70, corn 40 cents, wheat 76.—W. F. Arnold, Jan. 25.

Rooks County—The cold snap allowed the filling of a good many ice houses but it did not last long enough for all to get in a supply. Some fear has been expressed about the wheat. Moisture is needed. Plenty of feed on hand. Wheat 76 cents, eggs 20, hens 10.—C. O. Thomas, Jan. 24.

Sheridan County—Ideal winter weather. Snow all gone. No reports of winter killing in wheat. All stock doing well. Cattle too high to ship in. Horse market inactive. No hogs being marketed. No wheat going to market and most of barley will be kept for seed.—R. L. Patterson, Jan. 23.

Washington County—No general movement to burn out chinch bugs so far although a number of farmers burned dead grass before the cold spell. No corn stalk disease and not much cholera in this section. Quite a number of sales have been held and stock of all kinds sells well.—Mrs. Birdsley, Jan. 24.

Barton County—Weather fine with no frost in the ground but it is too dry for wheat. Ground very loose and stock has been taken off wheat fields. Feed is plentiful and stock doing well. Cows and hogs scarce and bringing good prices. Considerable wheat being marketed at 20 cents above test. Corn 45 cents.—J. A. Johnson, Jan. 25.

Comanche County—Weather still very dry and windy but don't think wheat has been damaged much except where soil is drifting. Stock wintering well and is free from disease. Very few fat cattle and hogs on hand. Some plowing being done where soil is moist enough. Wheat being sold liberally. No complaint about hard times.—S. A. Delair, Jan. 25.

Riley County—Warm sunny days and snow is all gone. Some fields blowing and we need more moisture. Plenty of sales and stock sells well. Stock is in good condition with an abundance of feed. Some farmers feeding silage which is giving good results. A few steers being fed for market. Some few cases of hog cholera reported. Fat hogs \$7, corn 47 cents, eggs 20, butter 25.—P. O. Hawkinson, Jan. 25.

Cheyenne County—Have had about 6 inches of snow to date this winter. Wheat is in good condition. Corn gathering about finished. Farmers busy delivering grain. A few cattle dying on stalks. Quite a number of sales recently and cattle and hogs selling high. Good milk cows bring as much as \$75, stock hogs as much as 10 cents per pound. Wheat 75 cents, corn 36, butter fat 28, eggs 17.—F. G. Casford, Jan. 19.

OKLAHOMA.

Noble County—Weather cold at present. No moisture so far this winter and ground is dry below 2 feet of soil. Wheat looks good and no reports of Hessian fly in yet. A good acreage has been plowed for corn and oats. Plenty of rough feed and all stock looks good. Corn 43 cents, potatoes 80, eggs 18, butter 25.—A. E. Henderson, Jan. 23.

Hughes County—Weather almost like summer and a week ago Friday the thermometers registered 88 above on the streets of Holdenville. Some cotton still going to market. More than 10,000 bales of cotton of 1912 crop shipped from Holdenville. Farmers are hauling out seed oats and farm implements. Fine rain Jan. 22. Hay \$10, potatoes \$1, corn 50 cents.—Albin Haskett, Jan. 25.

Kay County—Have had some cold weather, with 10 below the coldest this winter. Not much burning done to kill out chinch bugs although conditions would be fine for it on account of everything being so dry. If not disturbed and season is favorable a great deal of damage will be done

next summer as many of them are wintering. Farmers anxious to get to work on corn and oat ground. Cattle and horses bring good prices. Hogs \$6.30, eggs 22 cents, hens 10.—Sherman Jacobs, Jan. 23.

Want Marketing Taught

At the annual session of the Farmers National Congress in New Orleans the resolutions reflected the progressive spirit that is dominating this organization. The creation of a bureau of markets was favored, the bureau to be established in the department of agriculture at Washington. Legislation, from whatever source, intended to abridge the freedom of the press was strongly opposed. An investigation of the agricultural credit and banking systems of Europe was urged. All land grant or agricultural colleges were asked to give courses in farm economics and the science of marketing farm products. Legislative bodies were petitioned to legalize and protect all cooperative enterprises in the interest of producers and consumers and to provide for having them publicly audited as are banks and insurance companies.

The next congress will be held in Plano, Ill., September 23-26, 1913. J. H. Kimble, of Port Deposit, Md., is secretary.

A splendid mixture for laying hens is equal parts of cracked corn, wheat and oats, which should be scattered in the litter so that the birds will be compelled to take exercise by scratching for it.

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I want to give you FREE a generous sample of my Farm, Field and Garden Seeds to prove their growing power, purity and cleanliness.
Send 2c stamp, for sample seeds and Book about Gittings's Great Growing Seeds.
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SAWS DOWN TREES
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TELLS how to plant, spray and care for trees. How to make \$400 per acre from Cherries; \$300 from Berries; \$350 from Grapes; \$200 from Apples. Easy, pleasant and profitable. Do not place your order for these items until you have sent for my prices. I can save you money as I do not employ agents. Think of it—Apples as low as 8c; Cherry 12c; Grapes \$2 per 100. And every item absolutely guaranteed to be of the very highest quality. Your money back if you are not satisfied. I believe that quality counts stronger in the Nursery business than in any other line of merchandise. I believe that the same honest methods should be used in selling Nursery stock as in selling any other line of merchandise. The agent's commission is 40 to 50%, and this is what you save when you buy direct. Besides, I am a great deal more particular about what I send out than any agent is. I have found that satisfied customers are my best advertisement and I am sure that I have many customers in your own neighborhood. Write and ask me for their names.

30 years in the tree business and all that time selling direct to the customer should convince you that you owe it to yourself to get acquainted with our prices, system and guarantees. Remember, I pay the freight.
A postal will bring my manual and catalog and does not place you under any obligations. Some time you may have use for it.
D. Hanson, "THE NURSERYMAN," Box 12, FAIRBURY, NEB.
Established 1880 (Formerly Galbraith Nursery Co.)

LEADING FARM PAPERS FOR THIS TRADE MARK
WHEN IN NEED OF ANY OF THESE ITEMS LOOK IN

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Our New Wonderful Book Entitled "Clover and How to Grow It"

Get a big "Catch" of Clover
Thousands of farmers have not been able to get a clover "catch" in the last few years. They have wondered why. Our book tells you. It is full of Cash Money information. Tells you how to put in the necessary bacteria that your soil lacks on account of continual cropping and how the soil is inoculated. This process provides the necessary bacteria that draw the nitrogen from the air, that you lack. Send for it. Send 10c in stamps to cover postage and handling. Why not start a soil enriching campaign on your farm?

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GALLOWAY-BROS.-BOWMAN COMPANY, Box 204H, Waterloo, Iowa.

TRENT'S SEED CORN

First Prize Five Successive Years at State Show at Manhattan

This proves beyond a doubt that I have the best strains of seed corn in the West. Reid's Yellow Dent and Boone County White, fire dried, tested and guaranteed. Pure Red Texas Seed Oats, Clover, Timothy and Alfalfa Seed. Write for free catalog. Every farmer should have it.
BROWN CO. SEED HOUSE, S. G. TRENT, Proprietor, HIAWATHA, KANSAS.



FOSTER'S FORECASTS

(Copyright 1912 by W. T. Foster.)

To Farmers Mail and Breeze:

Washington, D. C., Feb. 1.—Last bulletin gave forecasts of disturbances to cross continent Jan. 30 to Feb. 3 and Feb. 4 to 8, warm waves Jan. 29 to Feb. 2 and Feb. 3 to 7, cool waves Feb. 1 to 5 and 6 to 10. This last mentioned will be preceded by a cold wave and accompanied by very high temperatures and all the weather features accompanying the latter storm will be of greater than the average storm forces. Some precipitation with northern snows as the



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

storm approaches, turning to rain as the warm wave comes in.

Next disturbance will reach Pacific coast about Feb. 8, cross Pacific slope by close of 9, great central valleys 10 to 12, eastern sections 13. Warm wave will cross Pacific slope about Feb. 8, great central valleys 10, eastern sections 12. Cool wave will cross Pacific slope about Feb. 11, great central valleys 13, eastern sections 15.

In a general way Feb. temperatures will be much lower last part of month than first part. From near Feb. 6 to 25 a great fall in temperatures will occur. One of the most severe storm periods of the winter will be from Feb. 18 to 28.

To Study Far Western Kansas

Far western Kansas is going to be studied this year. The agricultural college will have from four to six demonstration farms in each county in the two districts in which lie Norton county on the north and Ford county on the south. Crops best suited to western Kansas will be grown on these demonstration farms and they will be looked after by two demonstration agents, who are to visit them every two weeks from March to October. Occasional meetings of farmers will be held at these places.

The Rock Island railroad has appropriated enough money to pay four-fifths of the expenses of one of these demonstrators who will work along its northwest line from Agra to Kanorado. The Santa Fe has made a similar appropriation for the other man who will devote his attention to Ford, Hodgeman, Gray, Kearney, Hamilton, Haskell and Stevens counties. The U. S. department of agriculture will furnish the other fifth of the funds necessary to defray expenses.

The men selected are G. E. Thompson for the Santa Fe territory and Clyde McKee for the Rock Island district. Both are Kansans, and graduates of the Agricultural college. They are now in the bureau of plant industry at Washington. While they will be on the payroll of the railroads, their work will be under the direction of the college. Mr. McKee's headquarters will be at Norton and Mr. Thompson's at Dodge City. They will take up their duties February 1.

The Missouri Pacific and Union Pacific have both been invited by the Agricultural college to follow the lead of the other two railways and establish men in the western counties tributary to their lines. The Burlington refused the proposition previously.

Half Holidays For Farm Folk

A Dakota country life committee reported the country life problem is largely a young peoples' problem—that



Roll Your Own



Millions of smokers have learned that they can roll for themselves better cigarettes from

GENUINE "BULL" DURHAM SMOKING TOBACCO

than any ready-made cigarettes money can buy.

(FORTY "ROLLINGS" IN EACH 5-CENT MUSLIN SACK.)

Here are figures every smoker should know:

10 ordinary ready-made cigarettes cost	5 cents
10 better ready-made cigarettes cost	10 cents
10 more expensive ready-made cigarettes cost	25 cents
40 of the very best possible cigarettes, rolled from one muslin sack of "Bull" Durham, cost	5 cents

WHY PAY MORE!

"Bull" Durham is smoked by more millions of men, in pipe and cigarette, than all other high-grade tobaccos combined!



A book of "papers" free with each 5c muslin sack

Charles W. Durham Tobacco Co.

the young people need more opportunity for recreation than they are given in many localities. It was recommended that Saturday afternoon be made a half holiday, that the minister and

teacher take a lead in the games and recreation, that the church and schoolhouse be used as social centers. It was also suggested that this Saturday afternoon would be a good time for farm-

ers to hold club meetings and to consider co-operative work. With time for recreation on Saturday there will be time for church and Sunday school on Sunday.



The above illustration is of the great new building now under construction by Rumely Company in North Kansas City, Missouri.

Bee Keepers to Meet at Topeka

Mr. Editor—The annual meeting of the Kansas State Bee Keepers' association will be held in the rooms of the Commercial club at Topeka, February 4-5. Sessions will be held at 8 p. m. February 4, and at 9 a. m. and 8 p. m. February 5. The meeting will close with a banquet. A good program has been prepared, and all persons interested in bees are invited to take part in the discussions. O. A. Keene, Secretary. Topeka, Kan.

The WOMEN FOLKS Conducted by Mabel E. Graves



We want this department to be of practical use to the women who read Farmers Mail and Breeze. If you have any favorite recipe, any helpful hint, whether it concerns the family, the kitchen, the children, the house; or if you have anything to say which would be of interest to another woman, send it to the Home Department editor.

Cold days when the light bread is slow to rise try putting a warm brick or flatiron under it.—Mrs. E. G. Wood, McPherson, Kan.

Chilblains will not trouble you if you refrain from rubbing them in the beginning, and soak them at night in salt water with a small teaspoonful of ammonia added.—L. A. Penny, Emporia, Kan.

I have it straight from a good house-keeper that if "strong" turnips are sliced the night before and dropped into salty cold water, in the morning they will be fresh and sweet. That's a thing worth knowing.

The other morning, when the weather man was recording 15 degrees above zero, I met two high school girls. One of them wore no hat or coat. She wore a thin white wash waist with a low neck, and as they passed I heard her say, "I've put on my long underwear." "Oh, have you?" replied her companion, who regarded appearances enough to put on coat and hat, "I haven't". What can mothers be thinking of?

Popcorn Balls.

Pop a gallon of corn and select all the nice grains. Take a teaspoonful of sorghum molasses and 1/2 cup of sugar and cook until it spins a thread. Pour over the popcorn and with greased hands mold into balls, working quickly before the taffy cools.

Mrs. D. D. Guthrie.

Woodward, Okla.

New Way to Serve Toast.

Here is a way to serve toast. This recipe is enough for two. Scald 3 cups milk, break 2 eggs into it, and let cook until done. Take 1 tablespoon flour and 1 tablespoonful of soft butter, stir together until it is smooth and add to the milk and eggs. Add salt and pepper just before removing from the fire. Serve with toast, or it is nice with fresh bread.

Mrs. E. G. Wood.

R. 4, McPherson, Kan.

How to Cook Parsnips.

If the parsnips are young and tender scrape and throw in cold water. If old, pare and cut in quarters. Put in boiling water, and salt and pepper to suit taste. When done drain them, lay them on a heated dish and cover with a cream sauce or with drawn butter.

To fry the parsnips boil them as above, dip in melted butter, then in flour, and fry brown in hot lard. These are extra good.

Mrs. F. L. C.

Blue Springs, Neb.

The Useful Soap Stone.

[Prize Letter.]

My soap stone is 8 by 13 inches and 1 inch thick, with a wire handle to carry it by. And I keep it almost constantly in use this cold weather. After warming it on the dining room stove I take it out with me to stand on while getting breakfast, also to stand on in the wash house while washing. I take it along while riding. There are other uses, such as placing the yeast and bread on it while it is rising, setting the dishpan on it while washing dishes, and putting it in the bed half an hour before going to bed.

Lyons, Kan.

Mrs. G. W.

Flour Will Remove Grease.

[Prize Letter.]

A McPherson reader asks how to remove coal oil from her rug. I once had an accident of the same kind. I covered the spot about an inch deep with wheat flour, then laid a newspaper over it and covered it all with a small

rug so the flour would not be tracked around. I left the flour on a couple of days, the next I swept it up well and sprinkled again. The second time I swept it up there was not a trace of the coal-oil. If the rug could be put out in the air the oil would soon evaporate.

Mrs. William Coffman.

R. 6, Burlingame, Kan.

Kitchen Tool That Is Handy.

[Prize Letter.]

My handiest little kitchen friend is a fruit and vegetable press for pressing potatoes, pumpkin, squash, and any kind of fruit to be used as a filling for shortcakes. When making apple, peach



FOR SQUASHES OR SHORTCAKE.

or plum butter I cook the fruit till tender, put it through the press, add sugar and cook till done; and the butter is nicer than when cooked and not pressed. For straining soups there is nothing better than my little fruit press. I enclose a drawing of the press when open.

Enid, Okla. M. G.

Hints from a Farm Kitchen.

[Prize Letter.]

If you have nothing better use a can opener to cut stove pipe. Safety pins are good to pin the ironing sheet and padding on the board, as

The wife's copartnership in property has long been acknowledged by just men and should be given full recognition by the law.

—ARTHUR CAPPER.

they will not come unfastened or catch in the clothes.

Use a cloth saturated with linseed oil to rub over varnished furniture, and it will look almost like new.

Soda and lard are good to put on a burn.

Those who have to take long rides in the cold or sleep in cold rooms will find this a real comfort: Heat 3 gallons of shelled corn in the oven until very hot and put in a sack. It will stay hot all night if put in the bed.

Newspapers laid between the mattress and springs will make the bed much warmer and will also save wear and tear on the mattress.

Mrs. Myrtle C. Cooley.

R. 4, Abilene, Kan.

Bread Mixer a Work Saver.

Some time ago I sent you several recipes and in my letter I spoke of my bread mixer. Those few words of praise brought me such a number of inquiries it led me to believe the bread mixer was comparatively an unknown tool in Mail and Breeze kitchens, so I take this opportunity of speaking a few words of praise.

The bread mixer is useful, first, because it is such a labor saver, second because it is such a time saver, and third because one can make so much better bread with it. I have been using mine for five years, and I would not think of keeping house without one. After I had used my mixer a while my mother and my husband's brother and two sisters got bread mixers and think they are grand. One of my husband's sisters, a big stout woman who could do two women's work, laughed at me

for using such a thing and declared it would not make as good bread as she could make by hand; but after a time she bought one and now she would not think of doing without it.

I can make as much as six large loaves at one time, and do not need to put my hands in yeast or dough until I make it out into loaves. I can take my mixer and make up enough dough for a large baking with about as little labor and time as I would in making a panful of biscuit for breakfast. Taking everything into consideration I consider that my bread mixer is the most useful tool in my kitchen.

Mrs. Frank Carothers.

R. 3, Clarence, Mo.

Candy Kisses.

[Prize Recipe.]

Two cupsful of brown sugar, 1 tablespoon vinegar, 1 teaspoon vanilla, 1/2 cup water, white of 1 egg, 1 cup of chopped English walnuts. Put sugar, vinegar and water together and boil until the mixture threads when dropped from a spoon. Beat up the white of the egg and pour the hot mixture into it, beating all the time. When rather stiff add the vanilla and the nuts. Drop from a spoon on platters.

Linn, Kan.

Velma Beeson.

Making the Scissors Useful.

I keep a pair of scissors in every room in the house and most particularly in the kitchen. I use them to trim lettuce leaves into shape (if they are torn), to cut raisins, cut bacon and bacon rinds, to prepare a chicken, to cut papers for tins, to cut fruit, celery and vegetables, to cut meat for salads, and to cut patches and twine. I even use them to cut glass, by putting both shears and glass in a pan of warm water while cutting.

Mrs. George P. Ernenwein. Verona Station, N. Y.

Way to Use Old Stockings.

[Prize Letter.]

The illustration shows a way to use up old stocking tops when the feet are past mending. Cut off feet, split the stockings down from the top on each side, then cut a diamond-shaped piece and sew in the center, connecting the two. The outer side of each stocking



BEFORE (SEWING) AFTER SEWING HOW THE WORK IS DONE.

is cut down far enough for a placket, and the inner side far enough to sew in the diamond-shaped piece. Finish with a band. I make these for the children to wear in winter over their underwear. It saves washing, and looks as well as black sateen bloomers.

Mrs. E. E. Lettan.

Braman, Okla.

Rabbit Sausage.

[Prize Letter.]

It sometimes happens that we get several rabbits on hand at once. One soon tires of rabbit meat when it is a continuous diet, but it can be used to good advantage in sausage. Take the meaty parts such as the back and hind legs and cut the meat from the bone. Take 1 part of fat pork to 2 parts of rabbit meat, grind, and season with salt, pepper, and sage to taste. This makes a very economical meat, as it is very rich and it requires less to satisfy. A little flour mixed with it before frying is an improvement. The front legs I keep to fry as they are, while the ribs, the neck, and the bones I have cut most of the meat from may be cooked and made into mince-meat or a rabbit pie, making it the same as chicken pie.

Chiles, Kan. Mrs. F. D. E.

[Another good use for the ribs, neck and other remnants would be to give them to the chickens, in this way helping to furnish the balanced ration the poultrymen are always talking about.—Editor.]

\$6.00 THIS DRESS FORM FREE To New Students Who Enroll Now



Last year we gave away, absolutely free, 2000 Bust Forms to new students. The success of the idea has led us to make this year's offer much more attractive in every way. Now we propose to give a complete Full Length Dress Form to students who enroll this year. The full length Form enables the student to not only fit her waists to herself perfectly, but the form practically becomes herself. On it she can drape the entire dress, coat or other garment and see for herself exactly how it sets, fits and hangs, on all sides, as she could not see in a glass, and as she could not fit and drape it upon herself without the Form. After fitting one garment on the "Complete" Dress Form you wouldn't take ten dollars for it and do without—yet you can get one absolutely FREE.

The "Complete" Dress Form

as its name indicates, is complete, including Bust, flexible, detachable, collapsible Skirt Form and Stand, copper oxidized base in Fibre Box.

The "Complete" Dress Form is the most simple and unique Form ever invented. Has many exclusive features suggested by years of experience in the manufacture of Dress Forms.



The Skirt folds up, thus reducing the Form to one-half the size it is when opened up ready for use. Folded it fits into a neat fibre box 28 inches high by 14 inches square—furnished free with the form—which with Form enclosed may be set in the closet out of the dust and out of the way when the Form is not in use.

The Figure is the newest model, graceful in appearance, and the whole Form is solid and substantial in construction. The Bust part is made of a superior quality of paper mache and covered with Jersey Cloth. The Skirt is made of best grade of flexible spring steel—flat bands—highly finished and nickel-plated. With ordinary care the Form will last a lifetime and give you a world of satisfaction.

We will furnish instructions, free, that will enable you to fit the Form to yourself perfectly. Good tools mean good work—Our object in giving away these forms in this way is to make it easy and pleasant for more women to do their own sewing and thus save money on their dressmaking.

You Want One—Fill out the Coupon and send to us today and we will tell you how to get a "Complete" Dress Form FREE. The Coupon brings you a Dollar Cash Credit Check which may be applied on a scholarship in the American College of Dressmaking.



Send no Money, the Form is FREE to New Students. This Coupon or a postal will bring your Book Free. AMERICAN COLLEGE OF DRESSMAKING 1674 Commerce Bank Building Kansas City, Mo. Earn \$15 to \$25 a Week some much more, operating dressmaking parlors of their own. Every graduate is competent to do as well or better should circumstances make it necessary. Save More Than Half on Your Dressmaking and still wear tailor-made clothes will send you next mail after coupon reaches us. Send coupon today. It's worth a dollar to you.

HOME DRESSMAKING

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



- 4796—Double-Breasted Coat, sizes 6, 8, 10, 12 yrs.
- 5887—Ladies' Dress, with five-gore skirt, 6 sizes, 32 to 42 inches bust measure.
- 5535—Six-Gore Skirt, 5 sizes, 22 to 30 inches waist measure. Size 24 measures 2 1/2 yards around lower edge.
- 4789—Ladies' Shirtwaist, 6 sizes, 32 to 42 bust.
- 4500—Children's Rompers, 4 sizes, 2 to 3 yrs.
- 5921—Ladies' Shirtwaist, 6 sizes, 32 to 42 bust.
- 6077—Misses' Dress, sizes 14, 16, 18 yrs.
- 2952—Sack Apron, 6 sizes, 2 to 12 yrs.
- 5704—Ladies' Shirtwaist, 6 sizes, 32 to 42 bust.
- 4842—Children's Rompers, sizes 2, 4, 6 yrs.

USE THIS COUPON FOR PATTERN ORDERS.

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

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

Pattern No. Size

Pattern No. Size

Pattern No. Size

Name

Postoffice

State

R. F. D. or St. No.

BE SURE TO GIVE NUMBER AND SIZE.

Be a Courteous Guest.

When you go visiting, have your mind made up that everything will be lovely and that you'll have the finest kind of time. Don't be afraid to be enthusiastic. If you think the home is pretty, say so. When your hostess does some little thing for your pleasure, tell her how much you appreciate it. Have pleasant words for everyone. Laugh at your host's stories, no matter how often you've heard them before. And don't forget to praise the cooking.

A successful guest always fits into the household arrangement where she visits. She is never late to meals, and never keeps the others waiting when they have planned to go out.

She tries to make as little extra work as possible. She never leaves her belongings strewn about the house for someone to pick up after her. Unless there are several servants, she always keeps her own room in order, and she helps about the housework in a dozen and one little ways without seeming officious. But never, in her offers of help, does she let it seem that she disapproves of the methods used in the household, and she never forces her assistance upon her hostess when she sees it is not desired.

When you are visiting, never accept invitations without consulting your hostess. And never make plans of your own without first making sure they will be agreeable to her. Enter into her every plan for you as if it were the thing, above all others, you most wished to do.

Don't expect to be entertained all the time. Your hostess wishes to have some time to herself. Plan to write letters, read, or otherwise amuse yourself in your own room part of every day.

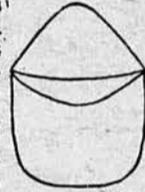
When you come to your friend's home, bring her some inexpensive little gift—flowers, a box of candy, or a late book; and when you leave, be prompt about writing your "bread and butter letter."

Not much to it after all, is there? Just little things, but if you do them you'll not lack for places to visit and all your hostesses will "rise up and call you blessed."

A Use for Wornout Shirts.

[Prize Letter.]

I cut off the men's old shirts a little below the arm holes and use the lower part for bags. I cut a strip of strong goods 1 1/2 or 2 inches wide, hem both sides and sew it onto the bag at the side seams to hang up by. These bags are useful for many things. I have one behind the door in the kitchen for the children to put their mittens in as soon as they come into the house. One I use for clothespins; one for all kinds of patterns, one for rags, so if any one of the family wants a rag he knows where to get it instead of having to hunt me up to get it. In one of them I keep my linen and flannels, so if anyone gets sick and needs a pack I have them handy. In one of them I keep my darning things and the stockings that need mending. One of them I sew up through the middle, making two stocking pockets. In one pocket I keep a rag for polishing the nickle on my stove, and in the other a rag to brush off the stove. These bags are not pretty, but they are useful.

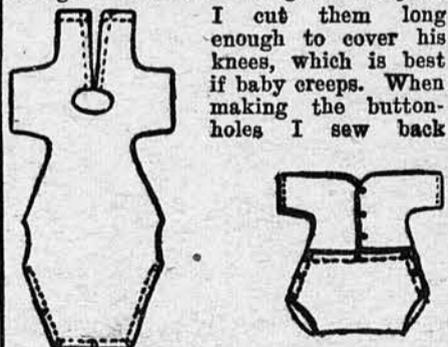


Bird City, Kan. Mrs. A. H. L.

Rompers for the Toddlers.

[Prize Letter.]

I am enclosing an outline of a pattern which I think will find favor with the mothers of little ones. I use this romper pattern for my creeping baby. It is very easily made and laundered, besides being comfortable; and best of all it is convenient, as it is quickly buttoned or unbuttoned and baby is changed without removing the rompers.



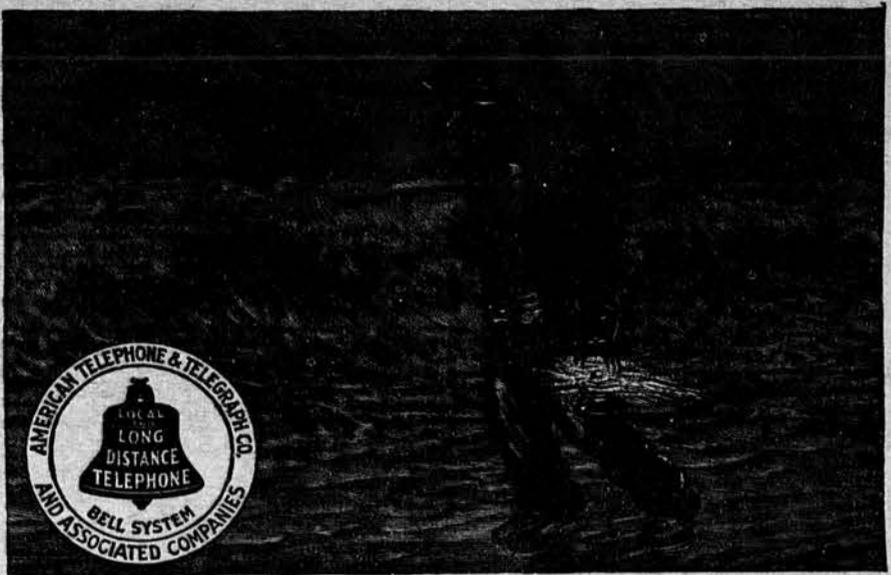
I cut them long enough to cover his knees, which is best if baby creeps. When making the buttonholes I sew back

WARM AND COMFORTABLE.

and forth three or four times on the machine, leaving a space just large enough to cut the desired size. I make buttonholes in my children's underwear on the machine and they wear as well as if made by hand.

Mrs. C. E. Robel.

Vona, Colo.



Always on Guard

No matter where a ship may be along the American coast; no matter how dark, or cold, or stormy the night, the coast guard is on watch, patrolling the nearest beach or rocky cliffs.

This man, always on guard, could, by his own unsupported efforts, do little to save life, or to guide ships away from perilous points.

As a unit in an efficient system and able, at a moment's notice, to command the service of his nearby station, he becomes a power to whom all ship owners and passengers are indebted.

In the same way, the Bell Telephone in your home and office is always on guard.

By itself, it is only an ingenious instrument; but as a vital unit in the Bell System, which links together seven million other telephones in all parts of this country, that single telephone instrument becomes a power to help you at any moment of any hour, day or night.

It costs unwearying effort and millions of dollars to keep the Bell System always on guard, but this is the only kind of service that can adequately take care of the social and commercial needs of all the people of a Nation.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY AND ASSOCIATED COMPANIES

Every Bell Telephone is the Center of the System

Quality Pianos

At the Lowest Prices in the United States

It is never necessary to make an apology to your friends about the quality of the piano you buy at Jenkins, nor have a feeling that you paid more for your Piano than your neighbor, who purchased the same make. Our ONE PRICE, NO COMMISSION PLAN does not mean "get all we can"—it does mean "Give all we can." It means the greatest economy and greatest satisfaction in piano buying. It means that nowhere in the world could you buy more piano quality for less money; it means freedom from all puzzle schemes and trick piano selling, devised to induce you to pay a higher price for a piano than it is worth. Our fall stock of pianos is now coming in. Note the values listed below.



"The Pilot is under no obligations to the Jenkins Music House, of Kansas City, to write this, but recent dealings with them constrains us to say for the benefit of our friends that we never knew a method of selling more open and honest than theirs, and, did we know about what price and style piano we wished to buy we would about as lieve send our twelve-year-old daughter to purchase it as to employ an expert. Their prices are plainly marked on every one of their hundreds of instruments and are the same to cash buyer or the one who wishes to make monthly payments."

- \$155 For a Brand New \$275 BARCLAY. \$5 monthly.
- \$125 For a Brand New \$175 BARMORE.
- \$175 For a Brand New \$300 BARCLAY. \$5 monthly.
- \$200 For a Brand New \$300 WOODWARD.

Write Today **J. W. Jenkins Sons Music Co., Kansas City, Mo.**

FREE Literature will be sent to anyone interested in the wonderful Sacramento Valley—the richest valley in the world. Unlimited opportunities. Thousands of acres available at right prices. The place for the man wanting a home in the finest climate on earth. Write to a public organization that gives reliable information. Sacramento Valley Development Association, Sacramento, California.

22-Cal. HUNTING RIFLE GIVEN

1918 Take-down Pattern, with all latest improvements, walnut stock and grip. Shoots accurately 22 long or short, handsome, durable. **SEND NO MONEY!** Just send your name and address for my easy plan by which you can secure this fine rifle absolutely free Express Prepaid. Write today. H. A. SLOAN, 52 Epitome Building, SPENCER, INDIANA

FARMERS CLASSIFIED PAGE.

Advertisements will be inserted in this department at the low price of 5 cents per word each insertion for one, two, or three insertions. Four or more insertions only 4 cents per word each insertion. Cash must invariably accompany the order. Remit by postoffice money order. No order taken for less than \$1. This does not mean that a single insertion of your ad must cost \$1, but that your total order must reach \$1. All advertisements set in uniform style. No display type or illustration admitted under this heading. Each number and initial letter counts as one word. Guaranteed circulation over 104,000 copies weekly. Everybody reads these little ads. Try a "Farmers Classified" ad for results.

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BERKSHIRE boar pigs. Sired by prize winners. F. U. Dutton, Penalosa, Kan.

SHEPHERD ponies, write for prices. Charles Clemmons, Coffeyville, Kan.

BERKSHIRES, Jersey cattle, White Orpingtons. Robert Likins, Fortville, Ind.

ABERDEEN ANGUS bulls and heifers. Chas. A. Streeter & Son, Wakefield, Kan.

FOR SALE—Two good black jacks, 24 good 2-yr.-old mules. J. H. Howard, Larned, Kan.

TROTTER BRED horses for sale. For particulars write A. J. Butcher, Troy, Kan., R. F. D. No. 2.

DUROC HOGS, Bronze turkeys, Barred P. Rock and Brown Leghorn chickens for sale. J. M. Young, Fall River, Kan.

FOR SALE—Two large Mammoth jacks and one imported Percheron horse. Call on or address Doolin Bros., Harris, Kan.

FOR SALE—Eight Jersey bull calves; some from high producing dams; some ready for use. Chester Thomas, Waterville, Kans.

TWO fine yellow Jersey bull calves three months old. From rich heavy milkers. Geo. W. Shearer, Elmhurst Farm, Lawrence, Kan.

FOR SALE OR TRADE—French Draft stallion, black, age six, sure, show colts, weight 1,800, fine animal pedigree. Box 101, Hamilton, Kan.

PERCHERON stallion, nine months old, dark gray, large, stylish, built and bred right, and will please you. G. E. Clark, 205 W. 21st St., Topeka, Kan.

FOR SALE—Black Percheron horse, registered. Three heavy mares, two light mares, four coming 2-yr.-old fillies; or trade for cattle. Henry Swan, Hugo, Colo.

GOOD Kentucky bred, registered jack 6 yrs. old. Black, large bone, mealy points, quick to act. Positively guaranteed in every way. W. H. Mott, Herington, Kan.

FOR SALE—One black Percheron stallion, registered, weight 1,800 lbs., or will trade for good mules or cattle. Address G. W. Hagerman, St. John, Kan., R. R. No. 2, Box 47.

FOR SALE OR TRADE for cattle or mules. Team 5-yr.-old registered gray Percheron brood mares. Had fine colts last year. Due to foal soon. Forest Ebricht, Lyons, Kan.

ENTIRE DAIRY HERD—50 head of the best cows—Jerseys, Holsteins and Short-horns. Fresh and springing. Just bought from a retiring dairyman. Jack Hammel, 215 Adams, Topeka, Kan.

3 JACKS and 4 jennets, one to six years. Registered stock, 15 to 16 hands. Will sell herd cheap, or single ones. Mules to show from 3 and six-year-old jacks (acclimated). Lewis Kramer, Scott City, Kan.

DOGS.

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

HOUNDS that catch the game. Send 2 ct. stamp for prices. Rash Bros., Centerville, Kan.

FOR SALE—Thoroughbred snow white Pomeranian puppies. J. A. Crozier, Knoxville, Iowa.

POULTRY.

POULTRYMEN'S printing our specialty. Samples, prices, 2c stamp. Parcel Post Printing Co., Girard, Kan.

POULTRY SILO—Valuable information. More winter eggs. My experience. Send .03. Alph Leatherman, Moundridge, Kan.

INCUBATOR CHICKS die by hundreds with white diarrhoea. We save them. Send address of ten people using incubators, and get free, details, how we hatched, fed and raised fourteen hundred. Alva Remedy Co., Alva, Okla.

FOR SALE.

50,000 HEDGE posts for sale in car lots. W. H. Blitts, Melvern, Kan.

SINGING CANARIES \$2.50. Birds shipped everywhere. Write Tappen, 1008 Royal, Dallas, Texas.

THREE GREAT PIANOS—Steinway, Steck, Vose. Write for prices. Jenkins Music Co., Kansas City, Mo.

FOR SALE—Store building, stock and dwelling. Part terms. Small farm in north central Kansas considered. Box 113, Dresden, Kan.

NEAR State Agricultural college. For sale, a business netting \$4,500.00 a year. Quick cash price. Write now. Address 1114 Fremont St., Manhattan, Kan.

DO YOU WANT to trade your automobile and get a 200 acre farm of your own in Sherman Co., Kan.? \$15.00 per a. Write M. A. Alexander, Goodland, Kan., owner.

CALIFORNIA HONEY—Finest quality and flavor; freight prepaid anywhere on trial before paying. Three grades, 10½c, 11½c, 12½c pound. Sample 10c, leaflet free. Agents wanted, good profits, steady orders. Spencer Apiaries Co., Box 182, Nordhoff, Cal.

FOR SALE.

FOR SALE—A first class electric shoe shop equipped with the latest modern machinery, splendid location, doing over \$6,000 business a year. Address Box No. 234, Tulsa, Okla.

SMITH'S COLLAPSIBLE METAL FORMS for making concrete culverts and arches. Latest improvements. Big money for agents. Write today for choice of territory. P. R. Smith, Sheetz Bldg., Wichita, Kan.

WANT TO SELL—Thoroughly modern 3 roomed residence, Topeka, 2 blocks State Capitol, 37½ frontage, good barn, fruit, splendid home, priced for quick sale by Owner, 2101 East 31st, Kansas City, Mo.

FOR SALE—No. 2 Keystone steam traction well drilling rig, complete; in first class running order; price \$800; or will trade for No. 16 Armstrong gasoline drill. Also thoroughbred English blood hound bitch \$50. Grant Ewing, Blue Rapids, Kan.

SPLENDID, modern 12 room residence, excellent location, in front of campus and Southwestern (Methodist) college at Winfield, Kan. \$5,000. Clear. Will trade for land, pay as much as \$2,500 difference. Or live stock. S. T. McIntosh, Eldorado, Kan.

FOR SALE—Hardware, implement and vehicle stock. A growing business in a growing town. Increase has been two to six thousand each year. The last six years an absolutely clean stock, no dead numbers. Low rate of insurance and rent. Only hardware store in town. Don't write unless you mean business. No trades considered. Snap if taken soon. Address Growing, care of Mail and Breeze.

LANDS.

TWENTY years' experience selling land. List yours with us. Chaney & Co., Topeka, Kan.

FOR SALE—Improved ¼ section. Raises alfalfa, wheat, etc. \$8,000. Box 72, Route No. 3, Harper, Kan.

IRRIGATED, rich, improved, Grand Ronde valley, Oregon, land. Low price, easy terms. Y, care Mail and Breeze.

160 ACRES, improved. \$5,000. Only \$1,000 down. A snap. And other farms. Fred A. Reed, Salina, Kan.

Why Not Use the Parcels Post?

The new Parcels Post is being used, even more extensively than had been predicted by its friends. Are you using it? Parcels Post will carry your products, seeds, eggs, plants, etc., etc., at a low cost. The classified ads on this page reach the buying kind of people. They reach over 104,000 families every week. Rates given above. Better send your ad today.

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HOMESEKERS' GUIDE to government land and improved corn and alfalfa farms. Postpaid 25c. James Sheeran, Kansas City, Mo.

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

520 ACRES Sevier county, Arkansas. 40 acres McDonald county, Mo. Send me your properties for exchange. Wm. Fettrich, Carthage, Mo.

FOR SALE—240 acres near Topeka. Would trade for smaller farm on account of not being able to work. H. B., care Farmers Mail and Breeze.

TEXAS! 4,686 acres, \$7.50 per acre, near Longview. 240 acres joining Marlin, \$125 per acre. Write for land list. Joe Lyons, Desk 5, Marlin, Texas.

SUMNER CO. corn, wheat, alfalfa land. 160 improved, 70 wheat, pure soft water, 2½ miles town; bargain; \$8,400, ½ cash. Roth & Martin, Milton, Kan.

80 A. smooth, all tillable. 44 a. broke. \$4,800. New 25 H. P. Minneapolis gas engine, 10x24-in. disc plows, 40x62 Case separator, \$2,500. E. Starr, Towanda, Kan.

80 ACRES one mile from Russia, N. M., all fenced, 12 acres cleared, balance timber, house, barn, well, cellar, on public road and railroad. Price \$500.00. Jno. Simmons, Simmons, Mo.

FOR SALE—184½ a. of well improved land by owner. Located in Arkansas valley of Rice Co. 3 mi. of Raymond, 4½ of Alden, 5½ of Chase. C. C. Caywood, Raymond, Kan.

160 ACRES, choice, unimproved wheat land, 4 miles from Beaver, Okla. 10 miles from station on W. F. & N. W. Ry. Price \$2,000. Will carry one-half for two years at 5 per cent. Box 92, Englewood, Kan.

FOR SALE—45 acres fine valley land, well improved, fenced hog tight in several fields. 8 acres fine timber, 6 miles of Salina, 1¼ miles of good town, 3 railroads. Price \$6,000. Terms. Drenning Bros., Salina, Kan.

A GUARANTEED bargain. 320 acres of extra good land two miles from town, belongs to an estate, must sell, guarantee this to be fifteen dollars per acre cheaper than anything within a mile of it, fair improvements. Price \$50 per acre. 200 other good farms for sale. Ed Croft, Richards, Mo.

LANDS.

OIL LAND for sale or lease. 185 a. 3¼ miles Rantoul, has had 4 good wells that made 7,754 barrels of oil and made 92 barrels the last month they were pumped; 350 ft. to oil sand. 120 a. in cultivation, 60 timber, 5 prairie, 19 acres fine alfalfa, 30 clover, 60 for corn; two 4 room houses, good barn and other outbuildings; wells, springs, pond and cistern; telephone, gas, R. F. D. Price \$60 an acre. Will lease the same. I want ¼ of the oil and gas wells to be drilled 150 ft. apart, 20 wells to be drilled each year until field is developed. \$2,000 bonus for lease, rig to be moved on and drilling begun in 60 days. Fred S. Graves, Rantoul, Kan.

FARMS FOR SALE.

25 ACRE fruit ranch; trade; want agriculture land; give description. Owner, Thos. Calian, Fruita, Colo.

FOR SALE—140 acre farm five miles of McAlester, Co. seat Pittsburg Co. Terms. E. S. Fendall, N. McAlester, Okla.

COLORADO FARM BARGAIN, 160 acres near Denver. \$35 acre. Write Owner, 429 Chamber of Commerce, Denver, Colo.

FOR SALE—150 acre farm 7 miles from Leavenworth, Kan., good improvements, \$45,000. Address S. J. Renz, 1205 Rialto Bldg., Kansas City, Mo.

FINE river bottom farm of 400 acres, 100 acres in cult., rents for \$10 acre. 300 acres timber could be cleared and farmed. Price \$15 an acre. L. E. Moore, Searcy, Ark.

FOR SALE—Good level farm well improved. 3 mi. from Temple, 4 mi. from county seat. At a sacrifice. Small payment down. Write owner, J. O. Butler, Walter, Okla.

FARM AT AUCTION, 160 acres, improved, two miles west of Andale, Sedgewick Co., Kan., will be sold to the highest bidder February 20th, 1913. Inquire M. Lill, Mt. Hope, Kan.

CANADA LAND. Write for our 32 page booklet containing 63 photographic views, and statistical and detailed information about our lands in east central Saskatchewan. It's free. The Walsh Land Co., Winnipeg, Canada.

SEEDS AND NURSERIES.

WANTED—Rice popcorn. Chas. G. Strong, Lowell, Ariz.

CHOICE cowpeas and alfalfa seed. D. J. Yoder, Haven, Kan.

HULLED Sweet clover seed \$9 per bu. Harry Davis, Norwich, Kan.

HAY—Write Youngstrom Bros. for prices delivered your city. Fredonia, Kan.

FOR SALE—German millet, broom corn seed. D. S. Troyer, Protection, Kan.

150 BUSHELS of recleaned alfalfa seed \$8.00 per bu., sacks free. John Ryman, Dunlap, Kan.

THIRTY bushels strictly pure alfalfa seed. Last year's crop, \$7.00, sacked. Melvin Shultz, Enterprise, Kan.

HOME GROWN alfalfa seed, finest quality, in any quantities. Write for sample and prices. D. Badger, Eureka, Kan.

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

FOR SALE—First class Senator Dunlap strawberry plants. \$2.50 per 1,000; quality guaranteed. Write Jerome Buteyn, St. Joe, Mo., Route No. 2.

FREE. "A Salesman That Costs You Nothing," with special prices on high grade nursery stock. Send us your want list. Brown Nurseries, Hutchinson, Kan.

FOR \$1.00 I will send you 8 apple, peach, cherry, plum or pear trees; or 75 Raspberry, Blackberry or Dewberry, or 20 grape, rhubarb, currant or gooseberry, or 100 asparagus or 200 strawberry plants; all first class. Catalogue free. Manhattan Nursery, Manhattan, Kan.

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PATENTS obtained. Best work at lowest rates. Harry Patton, 360 McGill Bldg., Washington, D. C.

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

PATENTS THAT PAY, \$561,530 made by clients. Patent book—"What and How to Invent"—Proof of Profits in Patents" free. 112-page guide. E. E. Vrooman, Pat. Atty., 885 F St., Wash., D. C.

IDEAS WANTED—Manufacturers are writing for patents procured through me. 3 books with 1st 200 inventions wanted sent free. Advice free. I get patent or no fee. R. B. Owen, 34 Owen Bldg., Washington, D. C.

HELP WANTED.

WANTED—Man and wife without children to work on farm. T. E. Cavanaugh, Spearville, Kan.

GOVERNMENT FARMERS WANTED—\$60 to \$75 monthly. Free living quarters. Write Ozment, 38 F, St. Louis.

WANTED—Man and wife (without children) to take charge of farm. A good thing to the right party. L. C. Walbridge, Russell, Kan.

WANTED—Railway mail clerks. \$75.00 month. Examinations everywhere. Coaching free. Franklin Institute, Dep't K 53, Rochester, N. Y.

UNCLE SAM NEEDS STENOGRAPHERS. I will teach you by mail. Twelve years as Government stenographer enables me to properly train my pupils for Civil Service examination. Instruction based on actual experience. Address Harold Gibson, 1010 Paseo, Kansas City, Mo.

PREPARE for a good paying government position; \$75.00 to \$100.00 per month. Work very pleasant. Promotion sure. We prepare for civil service positions. Our \$10.00 and \$15.00 special introductory tuition offer will prove a big investment to you. Address The Southwestern Correspondence School, Box 654, Wichita, Kan.

MEN AND WOMEN wanted for government positions. \$90.00 month. Thousands of parcels post positions open. Annual vacations. No "layoffs." Common education sufficient. Influence unnecessary. Farmers eligible. Send postal immediately for free list of positions open. Franklin Institute, Dep't K 53, Rochester, N. Y.

LOCAL REPRESENTATIVE WANTED. Splendid income assured right man to act as our representative after learning our business thoroughly by mail. Former experience unnecessary. All we require is honesty, ability, ambition and willingness to learn a lucrative business. No soliciting or traveling. This is an exceptional opportunity for a man in your section to get into a big paying business without capital and to come independent for life. Write at once for full particulars. National Co-Operative Realty Company, H-157 Marden Building, Washington, D. C.

SITUATIONS WANTED.

I WANT position on farm. Am experienced farmer. Have family. References exchanged. T. Hendricks, 1226 Jackson St., Topeka, Kan.

WANTED to rent farm with tools and horses furnished. Young man with life experience. Best of references. Address H. care Mail and Breeze.

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AGENTS WANTED.

AGENTS WANTED in your section to sell... safe, reliable, economical. Write 228 Terry street, Cape May, N. J.

WANTED—Men in every town in Mo., Ill., Neb., Okla., Ark., to take orders for nursery stock. Outfit free. Cash weekly. National Nurseries, Lawrence, Kansas.

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

\$20 PER DAY selling Uvillshine the silver that plates, and itvillshine the cloth that brightens, to housewives and auto owners. Send \$1.00 for enough for an auto or two by parcels post. Edwin Boyer, Thornstown, Indiana.

\$10 A DAY for agents. Selling the new four in one pure silk neckties and giving free with each purchase a beautiful Roman gold finish cuff link and stick pin set. Samples free. President Neckwear Co., U. S. Annex, Dayton, Ohio.

AGENTS—\$173 in two weeks, made by Mr. Williams, Illinois, selling the Automatic Jack, Combination 12 tools in one. Used by auto owners, teamsters, liveries, factories, mills, miners, farmers, etc. Easy sales, big profit. Exclusive county rights if you write quick. Automatic Jack Company, Box O, Bloomfield, Indiana.

WANTED SALESMEN AND SALESWOMEN—Hundreds of good positions now open paying from \$1,000.00 to \$5,000.00 a year. No former experience required to get one of them. We will teach you to be a high grade traveling salesman or saleswoman by mail in eight weeks and assist you to secure a good position where you can earn good wages while you are learning Practical Salesmanship. Write today for full particulars and testimonials from hundreds of men and women we have recently placed in good positions, also list of good positions open. Address: (nearest office) Dept. 236 A, National Salesmen's Training Association—Chicago, New York, Kansas City, San Francisco, New Orleans, Toronto.

MALE HELP WANTED.

WANTED—Railway mail clerks and clerks for parcels post. Examinations soon. Trial examination free. Write today. Ozment, 38, St. Louis.

GOVERNMENT JOBS open to men and women. \$90.00 month. Write for list of positions open. Franklin Institute, Dept. K 53, Rochester, N. Y.

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

FIVE YOUNG MEN to fill railroad positions. We qualify you and secure you position. Write or call at once. Armstrong's Telegraph & Railroad School, 911 Grand Ave., Kansas City, Mo.

500 MEN 20 to 40 years old wanted at once for electric railway motormen and conductors; \$60 to \$100 a month; no experience necessary; fine opportunity; no strike; write immediately for application blank. Address F. care of Mail and Breeze.

YOUNG MAN, would you accept and wear a fine tailor made suit just for showing it to your friends? Or a Slip-on Raincoat Free? Could you use \$5 a day for a little spare time? Perhaps we can offer you a steady job? Write at once and get beautiful samples, styles and this wonderful offer. Banner Tailoring Company, Dept. 57, Chicago.

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

MOTORS FOR SALE.

A PROMINENT automobile manufacturing concern offers for sale, at a bargain, a few slightly used motors. These motors develop horse power ranging from 34 to 60, and are all of the four cylinder type. They have been slightly used for testing purposes but have since been overhauled and are at present in first class running order. They are offered at very attractive figures and should give excellent satisfaction as a means for furnishing power for almost any purpose about the farm. If you are interested in obtaining an excellent power plant cheap for use about your place, we invite your correspondence. Address Motor, care Farmers Mail and Breeze.

TYPEWRITERS.

OLIVER VISIBLE TYPEWRITER for sale cheap. Perfect condition and does splendid writing. Could send on trial. Write to Charley Rickart, Route 5, Rosedale, Kan.

MISCELLANEOUS.

WANTED—Portable saw mill. State price. Ross Bros., Alexandria, Neb.

SEND combs and 75 cents and get a switch. Sarah Peters, Nashville, Kan.

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

EARN \$25.00 per week; be an automobile man. Dept. 100. Auto School of St. Louis, 1917 Pine St.

KEEP your furs until you get our latest price list. Give us a trial. McCaslin & Son, McCrue, Kan.

HARNESSES—Our harness is correctly made. Write for catalog. Klein, Lawrence, Kan.

IF YOU have money, or estate due you in Texas write L. Fulton, attorney, Denton, Texas. He will help you get it.

MARKET PROBABILITIES

Heavy Receipts Brought Fat Cattle Down a Notch But the Market is Recovering—Hogs Barely Holding Their Own Although Receipts for January are Over 1-4 Million Short of January 1913 at Western Markets

[Written Specially for the Farmers Mail and Breeze.]

Owing to moderate receipts cattle prices took a turn for the better the first of the week and while the greatest advance was quoted at only 10 cents, buyers got up more steam. This showed in sharp contrast with the indifferent demand last week.

Weakness predominated the fat steer market last week, and in a general way 25 cents was taken off prices, bringing values to the lowest point of the season, and in sharp contrast with November prices when the movement of grain fat steers became of any considerable volume. Since grass fat steers have been receding steadily on grain fat steers, and if precedent is of any value the market has reached the bottom of the downward movement. Last year, January was the low month in cattle prices also the first month in 1911 uncovered a sagging market. In 1912 the real upturn in prices did not start until in April and continued until in October but February prices were some better than in January. The main trouble with the fat steer market since last November has been that feeders have prepared their cattle by the shortest route possible, and notwithstanding an actual shortage in cattle, the market as far as numbers have been concerned show as many cattle received as a year ago. However, it must be taken into account that numbers have been maintained by drawing in a big supply of Old Mexico cattle, an early movement from the oil mill section of Texas and Oklahoma, and larger supplies in St. Louis and Kansas City, from South Missouri, Arkansas and Louisiana, than ever before in January. At the same time Iowa, Illinois and Eastern Missouri have crowded the Chicago market. The general conclusion is that marketing has been overdone, and that a period of lighter receipts is at hand. Packers say that Eastern demand for beef is poor, and through the central west. One-half to 1 cent reductions were made in wholesale beef prices. This was caused more from lower prices for cattle, live weight in preceding weeks, than for any pressure brought to bear on the market last week. The bulk of the fat steers now are selling at \$7.25 to \$8.25, and the extreme top quotation in Chicago last week was \$9.15. About \$8.75 would be the price limit at river markets at the present status of the market.

Butcher Cattle Prices Lower.

The recent decline in steer prices reacted on the cow trade, and buyers drew in considerably on their orders for butcher cattle last week. Consequently prices were reduced 15 to 25 cents, the commonest kinds suffering the least. Receipts have not been large at any market nor is there prospect for a heavy run at any time this spring. Veal calves were quoted higher, top in Chicago \$11 and at river markets up to \$10.50. Veal calves were quoted stronger.

Narrow Range in Hog Prices.

Hog prices were quoted steady to 5 cents lower on Monday. The top price in Chicago was \$7.80, in St. Louis \$7.60, in Kansas City \$7.40, in St. Joseph \$7.35, in Omaha \$7.35.

The big hog market last week uncovered no important movement in prices, but the spread in prices on the weight basis narrowed materially and the bulk of the hogs last week sold at the narrowest range this season. With more than 400,000 hogs on sale at the five western markets last week, at least 80 per cent of them sold at \$7.25 to \$7.50, or \$1.15 to \$1.20 higher than in the corresponding period last year. Packers are buying freely at the present quotations, and with total receipts at the five western markets thus far this year more than 285,000 short of the same period in 1912, it looks as though a general upward movement in prices is expected in February. At the high point last week prices for hogs at country shipping points were about \$7, but later in the week fell short of that level. At the present prices of feed, and hogs farmers are making good money. The hogs are better in quality now than for some months past and average weight is heavier than at any time in the past eight months.

Prices for the thin cattle weakened some last week, owing to fairly liberal supplies, and lack of country demand early in the week. Later however, demand became active, and only a slight net loss showed at the closing level. More than 15,000 thin cattle went back to country points from Kansas City last week, and other markets reported a fairly active trade. Many buyers have been kept off the market by the belief that prices are too high, but demand after February is expected to be more urgent than at the present.

Feeder Prices Dented Moderately.

Prices for the thin cattle weakened some last week, owing to fairly liberal supplies, and lack of country demand early in the week. Later however, demand became active, and only a slight net loss showed at the closing level. More than 15,000 thin cattle went back to country points from Kansas City last week, and other markets reported a fairly active trade. Many buyers have been kept off the market by the belief that prices are too high, but demand after February is expected to be more urgent than at the present.

Sheep Prices Unsettled.

The greater part of last week sheep prices fluctuated 25 to 50 cents, and closing quotations for the week showed no important change compared with the close of the preceding week. Packers are trying hard to hold values at the present level but strong demand from outside sources for Eastern shipments together with the readiness of country buyers to take all the thin grades offered, are sustaining influences. Receipts have not been heavy and the movement thus far this year, is short of the same period last year. Packers still have three months before them in which they will have to depend on feed lot supplies, and consequently they cannot make curtailments with receipts showing a shortage. Heavy mutton grades are still being discriminated against but light weight yearlings which can be handled as "breakers" or lamb on the block, are in active demand. Colorado supplies are moving freely.

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:

Table with columns: Location (Kansas City, Chicago, Omaha, St. Louis, St. Joseph), Cattle, Hogs, Sheep. Includes totals and year-over-year comparisons.

The following table shows receipts of cattle, hogs and sheep at the five western markets, Monday, January 27, together with totals a week ago, and a year ago:

Table with columns: Location (Kansas City, Chicago, Omaha, St. Louis, St. Joseph), Cattle, Hogs, Sheep. Includes totals and year-over-year comparisons.

The following table shows a comparison in prices on best offerings of livestock at Kansas City and Chicago for this date and one year ago:

Table with columns: Location (Chicago, Kan. City), Cattle, Hogs, Sheep. Shows price differences for 1913 and 1912.

Big Trade Made in Horses.

The movement of horses and mules through the Kansas City and St. Louis markets continues large, and principally to Southern, Southeastern and Southwestern points. Chicago reported an increased demand from the East, though that trade is still of small volume. Demand from the farming sections of the central west has not started. Prices are generally steady, and there is ready demand for all the offerings.

Grain Prices Steady; Hay Weak.

The upward movement in cash grain prices which began early this year was checked last week, and slight net losses occurred. Prices seemed to have reached a point where buyers were scarce but on a moderate decline the market steadied under a better inquiry. Corn and oats seem to have reached the limit of the upward movement. Prairie hay was quoted down 50 cents a ton and other hay unchanged.

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

Table with columns: Wheat (Hard No. 2, Soft No. 2), Corn (White No. 2, Mixed corn), Oats (No. 2 white, No. 2 mixed). Shows prices for Kansas City and St. Louis.

The following comparison shows prices on best grades of wheat, corn and oats at Kansas City and Chicago for this date and one year ago:

Table with columns: Location (Chicago, Kan. City), Wheat, Corn, Oats. Shows price differences for 1913 and 1912.

Kansas City Hay Quotations.

Table with columns: Hay type (Prairie, Timothy, Clover, Alfalfa, Straw), Price range. Lists various hay types and their current market prices.

Seeds.

Kafir corn, No. 2 white, 83c a cwt.; No. 3 white, 83c a cwt.; alfalfa, \$9@12 a cwt.; flaxseed, \$1.05 a bushel; timothy \$1.50@1.75 a bushel; cane seed, 90c@1.05; millet seed, 95c@1.15.

Broomcorn Movement Larger.

More sales of broomcorn were reported last week than for some time past but at most the volume of business is still small. Growers are selling only the amount of corn they have to and holding the rest for stronger prices. The buying side shows no inclination to increase bids, and prices are quoted steady. Choice (Continued on Page 56.)

There is Lots of Louisiana Land That Will Produce Three Times Its Cost Every Year

Louisiana is in a class by itself. For rich land, big crops, low prices. It makes no difference if you are rich or poor, an owner or tenant, where you live, or what you are interested in, Louisiana offers you more opportunities, more show to get ahead, bigger returns for your work and investment, than any other section on the North American continent, barring none.

We have soil here that is so rich it could be used to fertilize your northern farm. We can raise the biggest kind of crops of corn and alfalfa; fatten hogs and cattle for half the money it costs in North or Middle West, and this land can be bought from \$10.00 to \$25.00 per acre.

We have issued a nice illustrated booklet with a number of fine photo engravings showing the splendid growing crops of this country. It tells FACTS in big letters about this section in a simple and a plain way. It is free to you just for the asking. Every farmer should read this book for the information undoubtedly will prove to be of great value to you; it probably will give you the opportunity of making an investment, the best you ever made in all your life. Farm for yourself; farm in Louisiana and particularly farm in Alexandria district. Sit right down now and write us a letter for full information about this most wonderful section of the country.

COOK-ALEXANDER LAND CO., Alexandria, Louisiana.



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Our fully guaranteed, stem wind and set, richly engraved watch, proper size, and brilliant 8-stone ring, are given FREE to anyone for selling 25 jewelry articles at 10c each. Order jewelry now when sold send \$2.00 and we will send you watch, ring and handsome chain FREE. HOMER WATCH CO., Dept. 21, CHICAGO

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We Pay Highest Cash Prices We are the oldest established Fur House in Kansas City—have been paying highest cash prices and always giving our customers a square deal on every shipment since 1870. Ship us your

FURS

We need all you can send, right now. We pay the prices we quote; give liberal assortment, do not undergrade, and remit cash in full same day shipment is received. We charge no commission. Send today for our free price bulletin quoting highest cash prices which we actually pay, free tags and full particulars. M. Lyon & Co., 226 Delaware St., KANSAS CITY, MO.

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.

FIELDMEN.

- A. B. Hunter, S. W. Kansas and Oklahoma, 1124 So. Market St., Wichita, Kan.
- J. W. Johnson, 820 Lincoln St., Topeka, Kan., N. W. Kansas and S. Nebraska.
- C. H. Walker, N. E. Kansas, N. Missouri, 3632 Flora Ave., Kansas City, Mo.
- Geo. W. Berry, N. Nebraska and W. Iowa, Capper Bldg., Topeka, Kans.
- H. W. Graham, E. Iowa and Illinois, Chillicothe, Mo.
- E. R. Dorsey, S. E. Kansas and S. Missouri, Girard, Kans.

PUREBRED STOCK SALES.

Claim dates for public sales will be published free when such sales are to be advertised in the Farmers Mail and Breeze. Otherwise they will be charged for at regular rates.

Combination Horse Sale.

Mar. 6—Mitchell County Breeders' Association, Beloit, Kan.

Percheron Horses.

- Feb. 19—J. P. Hershberger, Harper, Kans.
- Feb. 20—The Knuckles Co., (Neb.) Horse Breeders' Assn., Percy Baird, Sec., Ruskin, Neb.
- Feb. 21—J. A. Fee & Son, Stafford, Kan., at Zenith, Kan.
- Feb. 24—C. B. Warkentin, Halstead, Kan.
- Mar. 5—J. C. Robison, Towanda, Kan., and Willard R. Brown, Minneapolis, Kan., at K. C. Mo. Stock Yards.
- March 12th—L. H. Luckhardt, Manager, Tarkio, Missouri.

Percherons and Jacks.

March 6—S. J. Miller, Kirksville, Mo.

Standard Bred Horses.

- Feb. 5—G. H. Grinnell, M. D., Severy, Kan.
- Feb. 24—C. B. Warkentin, Halstead, Kan.

Jacks and Jennets.

- Feb. 4—Platte Co. Jack Sale Co., J. B. Dillingham Mgr., Platte City, Mo.
- Feb. 25—Hutchins & Hineman, Sterling, Kan.
- Feb. 6—Limerick & Bradford, Columbia, Mo.
- Mch. 10—G. C. Roan, La Plata, Mo.

Poland China Hogs.

- Feb. 5—J. L. Griffiths, Riley, Kan.
- Feb. 5—Williams Bros., Villisca, Iowa.
- Feb. 6—H. Pescumyer, Clarinda, Ia.
- Feb. 7—J. O. James, Braddyville, Ia.
- Feb. 12—T. J. Meisner, Sabetha, Kan.
- Feb. 14—H. B. Walter, Effingham, Kan.
- Feb. 14—C. M. Prater, Oxford, Kan.
- Feb. 15—Thos. F. Walker & Son, Alexandria, Neb.
- Feb. 18—J. H. Harter, Westmoreland, Kan.
- Feb. 18—Bert Harriman, Pilot Grove, Mo.
- Feb. 19—W. B. Wallace, Hunceton, Mo.
- Feb. 21—R. W. Halford, Manning, Mo.
- Feb. 22—C. C. Ingram, Bloomington, Neb.
- Feb. 24—J. J. Hartman, Elmo, Kan.
- Feb. 25—Deming Ranch, Oswego, Kan.
- Feb. 26—J. W. Pfander & Sons, Clarinda, Ia.
- Feb. 26—L. R. McClarnon, Braddyville, Ia.
- Feb. 27—Olivier & Sons, Danville, Kans.
- Mar. 8—I. E. Knox, South Haven, Kan.

Duroc-Jersey Hogs.

- Feb. 3—R. J. Harding, Macedonia, Ia.
- Feb. 4—J. O. Hunt, Marysville, Kan.
- Feb. 5—Mosier & Fitzwater, Goff, Kan.
- Feb. 5—Samuelson Bros., Cleburne, Kan.
- Feb. 6—Samuelson Bros., Blaine, Kan.
- Feb. 7—Agricultural College, Manhattan, Kan.
- Feb. 7—A. T. Cross, Guide Rock, Neb.
- Feb. 8—Geo. E. Garrett, Bloomington, Neb.
- Feb. 11—H. E. Shaw, Hiron, Neb.
- Feb. 19—J. P. Hershberger, Harper, Kans.
- Feb. 19—E. M. Myers, Burr Oak, Kan.
- Feb. 19—Geo. W. Schwab, Clay Center, Neb.
- Feb. 20—Rinehart & Son, Smith Center, Kan.
- Feb. 20—Chas. Stith, Eureka, Kan.
- Feb. 21—W. C. Whitney, Agra, Kan.
- Feb. 22—J. R. Blackshire, Elmdale, Kans.
- Mar. 5—Sam'l Drybread, Elk City, Kan.
- Mar. 6—Marshall Bros., Burden, Kan.
- Mar. 7—W. W. Otey & Sons, Winfield, Kan.

Berkshire Hogs.

Feb. 7—Agricultural College, Manhattan, Kan.

O. I. C. Swine.

- Feb. 6—H. L. Bode, Friend, Neb.
- Feb. 7—Chas. H. Murray, Friend, Neb.

Hampshire Hogs.

Feb. 8—W. T. Davis, St. Joseph, Mo.

Holsteins.

- Feb. 4—Rock Brook Farm, Omaha, Neb.
- Feb. 6—A. J. Podendorf, Logan, Ia.

Herefords.

- Feb. 18 and 19—Hopper and Bowman, Ness City, Kan.
- Feb. 26—Warren T. McCray, Kentland, Ind.
- March 4-5—Funkhouser, Gabbert & Others at Kansas City. R. T. Thornton, Mgr., 1317 East 15th St., Kansas City, Mo.

Shorthorns.

- Feb. 19—J. P. Hershberger, Harper, Kans.
- Mar. 14—C. G. Cochran & Sons, Plainville, Kan., at Lamer's sale barn, Salina, Kan.

Kansas and Oklahoma.

BY A. B. HUNTER.

W. H. Cottingham & Sons, McPherson, Kan., will sell Feb. 18, 35 head of draft horses, brood mares and drivers, including two large registered Percheron mares and a 7-year-old registered Percheron stallion that weighs a ton. This is Cottingham & Sons 17th annual sale.

Shorthorn Bulls For Sale.

Jno. Regier, Whitewater, Kan., is offering at private treaty, a number of young bulls 8 to 20 months old, also a few well

bred heifers. Among them are a few of his prize winners at the Hutchinson and Topeka State Fairs last year. Mr. Regier has one of the good herds of the state and is using at the head of his herd Good News, a splendid breeding grandson of Choice Goods. Those who took note of Mr. Regier's young herd last season could not help but be impressed with his breeding qualities. They succeeded in winning 2nd prize on senior bull calf in open class and in the state specials, first on get of sire, first on young herd, second on produce of cow and 2nd on senior bull calf. Don't wait if you want one of these good young bulls or heifers. Write today or call mentioning Farmers Mail and Breeze.

Clasen Bros. Duroc Sale.

Clasen Bros., Union City, Okla., will sell at auction, Thursday, Febr. 27th, one of the best offerings yet, consisting of 35 head. 25 will be bred to such sires as Gold Mine, by the champion Grand Master Col. II, M. H.'s Col., by G. C.'s Col. and the great sire Valley B, grand champion, at Hutchinson, 1912. Included will be 10 tried sows, 5 with litters at side sale day, 10 head of spring boars, several that are good enough to head good herds and include show prospects. Gold Mine and also M. H.'s Col. will also sell. Here is a chance for some breeder who wants a first class herd header. Write for catalogue today mentioning Farmers Mail and Breeze.

Fee & Son Sell Percherons.

Jas. A. Fee & Son, Stafford, Kan., will sell Friday, February 21, at the farm near Zenith, Kan., all their purebred Percherons. To those who are expecting to purchase Percheron brood mares this sale will no doubt afford the best opportunity they are likely to have this winter. There will be sold in this sale six imported mares, in foal to the good imported sire Inontiff, that also sells in this sale and that was first prize yearling at the Hutchinson State Fair, 1910. Because there are only 14 head of horses in this sale is no reason they are not the good kind and the very kind you want, but for the reason it is only a small sale many buyers will likely not come and for that very reason you should be present for bargains. Write for particulars today, mentioning Farmers Mail and Breeze.

Hopper and Bowman's Hereford Sale.

J. C. Hopper and W. I. Bowman, Ness City, Kan., will sell at auction, February 18 and 19, at Ness City, 75 purebred registered Hereford cows, a large number of Hereford bulls, together with 100 head of yearling steers; and purebred cattle of different breeds will be offered at private treaty. This will be the greatest purebred sale ever held in western Kansas. The writer personally inspected this herd and found many head included in the offering that would do credit to the best herds of the corn belt. These 75 cows are strong in the blood of Anxiety 4th, Lord Wilton, Beau Brummel, Beau Real, Lamplighter, Don Carlos, and others of like note. Included among them are a number of splendid Polled Hereford cows from the celebrated Guthrie herd. These cows will most

all be showing safe in calf sale day. They are large boned and not only have size but plenty of quality. Don't wait but read display ad in this issue and write today for a catalog. Please mention Farmers Mail and Breeze.

C. M. Prater Sells Poland Chinas.

C. M. Prater, Oxford, Kan., offers February 14, 40 head of purebred Poland Chinas, consisting of four tried sows, 11 spring gilts, nine spring boars and two great breeding boars, Masterstroke, by Master Meddler, and Edgewood, by Sentinel, together with 14 fancy fall pigs. Mr. Prater is making a closing out sale of all his stock. These Poland Chinas are as good as the best and breeders of Poland Chinas who need show material for next season's shows will find here perhaps just what they need. This is an unusual offering and few of the best breeders in the land can show as good herds. Everything goes without reserve and without regard to price. So if you want some of these fashionably bred swine read the display ad on another page and arrange to attend this sale. In writing for a catalog please mention Farmers Mail and Breeze.

Percheron and Standard Bred Horse Sale.

C. B. Warkentine, proprietor of Little River Stock Farm, Halstead, Kan., will hold Monday, February 24th, a combination sale of registered Percheron and Standard bred horses. The Percherons are all registered in the Percheron society of America and the Standard Bred stallions and mares include several excellent racing prospects. 20 head of grade draft and road horses will be included consisting of an excellent lot of work horses, brood mares, draft geldings and a classy lot of roadsters among which are an exceptional lot of high grade non-standard drivers. This combination sale is to be an annual event at the Little River Stock Farm. No effort will be spared to make this sale a success in every particular. Every animal sold will have the guarantee of its owner and must be exactly as represented. Write today for a catalog and arrange to attend this sale if you need any kind of a horse. Please mention Farmers Mail and Breeze.

Williams's Dispersion Horse Sale.

A. W. Williams & Son, Neal, Kan., will sell Saturday, February 15, 33 head of horses and jacks; 10 head of purebred Percherons, all registered in the Percheron Society of America. Several of these Percherons are imported, including the ton stallion Tattus and a span of 6 or 7-year-old mares that for size and quality are seldom equaled, the team weighing over two tons. In the offering will be several matched mare teams, three-quarter-blood Percherons from 3 to 5 years old and weighing from 1,500 to 1,700 pounds each, in foal to imported Tattus. Fourteen other grade mares, 5 to 10 years old, weighing from 1,500 to 1,700 pounds and bred to imported stallions will also be sold. They will also sell their breeding plant, house, lots, barn, farm machinery, cows, chickens, etc. Neal is on the Missouri Pacific, 12 miles east of Eureka, Kan. Read sale ad in this issue. For further particulars, address A. W. Williams & Son, Neal, Kan., mentioning this paper.

A Standard Bred Horse Sale.

G. Harry Grinnell, M. D., Severy, Kan., will dispense his Standard bred horses, including stallions that will make money in any community, mares that have been producers and a number of racing prospects that have developed speed, among which are Onward Silver Boy, by Onward Silver,

Farmers Mail and Breeze Pays Advertisers.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—Enclosed find check for \$56.00 for first and second quarter ad. Thanks for favor extended. I have sold 26 head of breeding stock in past 12 days in Kansas and Oklahoma. I am sold out of spring and yearling boars. Am receiving inquiries every mail for past six weeks. Yours very truly,
D. O. BANCROFT,
Breeder of Duroc-Jersey Swine,
Osborne, Kan., Jan. 10, 1912.

Mr. Arthur Capper, Topeka, Kan.

Dear Sir—Enclosed find check for \$11.20 to pay for my advertising in your papers as per statement. This pays for advertising up to date. This made a couple of good sales and I am satisfied. Yours very truly,
JOHN A. DECKER,
Real Estate,
Valley Falls, Kan., Jan. 2, 1912.

Every week for years Farmers Mail and Breeze has printed voluntary letters from its advertisers and different letters are printed every week.

2:05 1/2, who went to Italy at the long price of \$25,000 and was one of the greatest trotters America ever produced. Onward Silver Boy's dam was Black Agate, 2:26, a producer, by Patchen Wilkie. Gregorie Mc, 2:18 1/2, by Nitrogen, by Robert McGregory, dam Carrie K. Rilla (dam of Kansas Dude, 2:19 1/2), by King Sprague, 2:12; Dapper Dillon (3), 2:28 1/2, by Alva Dillon, 2:15 1/2, by Baron Dillon, 2:12, dam Iris L., 2:28 1/2, who is also the dam of Starleen (2), 2:28 1/2, second dam Amulet, the dam of four in list. Also two young stallions by Sampson Wilkie, one out of Bay Silk, by Nitrogen, the other out of Electores, by Electoria. Among the mares and fillies will be the great brood mare Carrie K. Rilla (black mare, registered in Vol. 19), dam of Kansas Dude 2:19 1/2, and Gregorie Mc, 2:18 1/2, by King Sprague, 2:12, dam Carrie E., dam of Captain Caffery, 2:16 1/2. This is by many regarded as one of the greatest brood mares in Kansas. Two of her daughters also sell, one a yearling, the other a weanling, by Sampson Wilkie, full sisters of Kansas Dude, 2:19 1/2, and out of the same dam as Gregorie Mc, 2:18 1/2. Another great mare to sell is The Evidence, by Falmont, 2:14 1/2, dam Bitter Sweet, by the great brood mare sire, Crittenden. This mare is due for a March foal by Sampson Wilkie. She is also the dam of Davy Clough, who will be in the sale and who is sure to make her a producer this season. By Onward Silver Boy, dam Young Sue Sprague, by Sampson Wilkie. She is bred right and shows extreme speed. Another Gall Trutt, a 2-year-old filly by Sampson Wilkie, dam Electores, will also sell. She is a classy filly with plenty of size. Berdella, by King Sprague, 2:12; Bay Silk, by Nitrogen, and Fay Rush, by Ashbrook, 2:13, all in foal to Sampson Wilkie, will be in the sale. This will be a great opportunity to buy stallions with speed, racing prospects and mares that are producers. Don't think they will sell too high—they will not. Send today for a catalog and be sure to attend the sale.

Kansas and Nebraska.

BY J. W. JOHNSON.

Frank Prochaska, of Glasco, Kansas, is offering Chester White hogs of good quality. He can supply our readers with either boars or sows. His prices are reasonable. Write him mentioning Farmers Mail and Breeze.

March 14 is the date when C. G. Cochran & Sons, Plainville, Kan., will sell Shorthorn cattle, in Lamer's sale pavilion at Salina, Kan. They will sell 70 head, a draft from what is likely the strongest herd in the west numbering over 500 head. The catalogs will be out early and you can ask for one any time. Watch for further information about this sale.

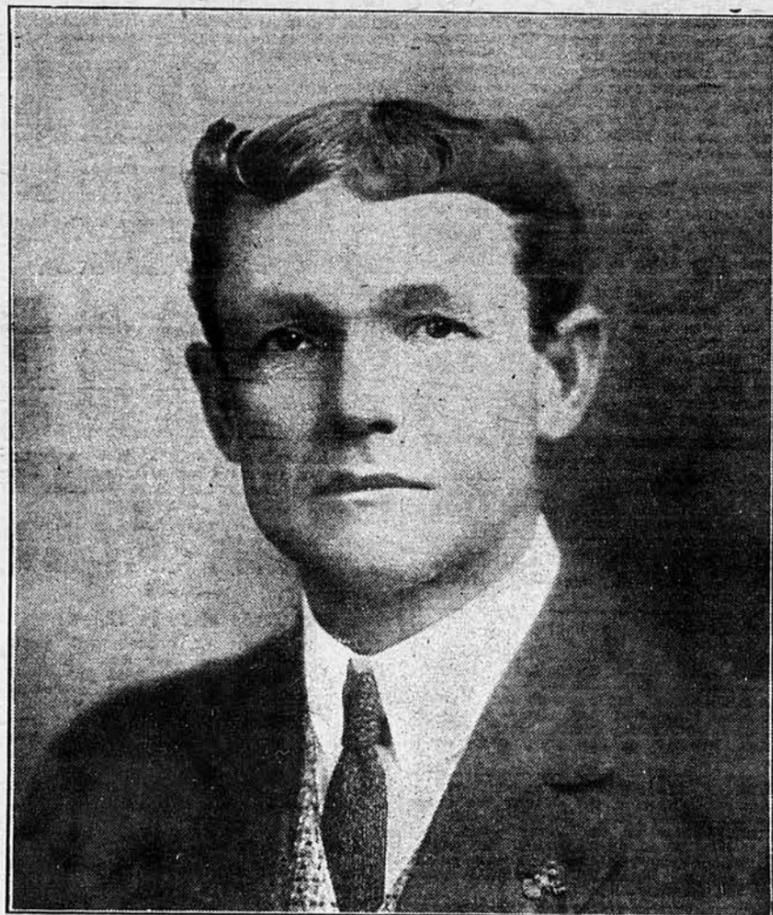
J. J. Hartman, Elmo, Kan., has claimed Feb. 24 as the date of his annual bred sow sale. In this sale Mr. Hartman will sell 40 bred sows, 20 will be tried sows and fall yearlings and 15 will be spring gilts. The tried sows are by King Elmo, by Upercrust and the fall yearlings are by Hartman's Hadley, by Knox All Hadley. A few of them are by Blue Valley Jr. The spring gilts are by the same boars. The offering is one of real merit and is of strictly big type breeding. John Hartman is a young man that has made good in the Poland China business. He is thoroughly honest and capable. He should draw one of the good attendances of the season. Watch for display ad and fieldnotes.

Nuckolls Co. Ass'n. Sale.

Nuckolls County, Nebraska, is one of the leading counties in the state from a standpoint of purebred stock. Especially is this true of the horse industry. The breeders of this county are arranging to hold a combination sale at Lincoln, February 29th. The advertising of this sale appears in this issue of Farmers Mail and Breeze. Please look up this advertisement and if interested write Percy Baird, Sales Manager at Ruskin, Nebraska, for catalog.

Write For Harter's Catalog.

In this issue will be found the advertisement of J. H. Harter, Westmoreland, Kansas, who is advertising his big Poland China bred sow sale which is to be held at his farm three miles east of Postoria, Kan., and four miles west of Westmoreland, Kan., on Tuesday, Feb. 18. In this sale Mr. Harter is selling 40 Poland China bred sows, 15 fall gilts, 15 spring gilts, 15 tried sows and five summer boars. Mr. Harter is well known as a breeder of strictly big type. His herd is the home of Megal's Monarch, Gephart and was formerly the home of Captain Hutch. These three boars are well and favorably known as Poland China herd boars of the big type that have made good and produced the kind that have done so much for the Po-



The above is a good likeness of C. W. Lamer, the big breeder and importer of Percheron horses. His barns are at Salina, Kansas. Mr. Lamer is a life-long student of the horse and the horse business. He knows the good ones when he sees them. This statement is bore out by the fact that the horses he bought, personally, in France, the past two years were top liners at the big shows, including the American Royal, the past two seasons. Mr. Lamer has a lot of good Percherons, both stallions and mares, that he will price reasonable at private treaty.

February 1, 1913.

China industry. The gilts, both fall and spring were sired by these boars, with exception of Captain Hutch and are to them to the best of advantage. It would be hard to find a better line up of herd sows than Mr. Harter owns. This is pretty well understood. The sale will be held at the farm and a good dinner will be served at noon. The sale will be conducted by Jas. T. McCulloch. You can see a catalog by addressing, J. H. Harter, Westmoreland, Kan. Mention Farmers Mail and Breeze when you write. See ad in this issue.

Taylor's Shorthorn Bulls.

C. W. Taylor, Abilene, Kan., has for sale Scotch and Scotch topped Shorthorn bulls ranging in ages from eight to 12 months and some older bulls from that age up to two years old. These bulls are roans and reds and a classy lot of young bulls as well would want to see. Mr. Taylor is one of the older and tried breeders of Shorthorn cattle and his herd is one of the oldest in central Kansas. His farm is about 17 miles out from Abilene near Pearl. Those who desire to visit the herd can come to Abilene where Mr. Taylor lives and with him to the farm in his almost daily. If you are in the market for good young bull you can't do better than Mr. Taylor's herd right now. Write for further information and prices. Address C. W. Taylor, Abilene, Kan.

Bred Sows at Private Sale.

T. P. Teagarden, Wayne, Kan., is offering at private sale some choice spring gilts up-to-date breeding. They are by Royal Avancer and Woodlawn Col. They are out dams sired by such boars as T. P.'s Col., Spley Topnotcher, Belle's Chief 2nd, Waldo, Goddawn Prince, T. P.'s Wonder, Topnotcher, Tattarrax and other noted sires. The offering at private sale consists of fall and spring gilts and spring gilts and sows, tried sows and spring gilts and sows, the tops of what he has raised and bred for early spring farrow. Mr. Teagarden is making no sale and is willing to price these good sows and gilts at a very moderate price. You better get in touch with him at once. Ask him for prices soon as you need bred sows and gilts and you will get right prices on them.

Tops From Two Herds.

Saturday, Feb. 8, is the date of P. C. Carret & Sons and T. J. Current's combination sale of Duroc-Jersey bred sows at Bloomington, Nebr. This is a draft sale of some of the well known herds and will prove one of the good offerings of that section of Nebraska this winter. In this issue appears in their advertisement. Their catalogues are out and ready to mail upon application. Write either party for a catalog. The offering consists of tried sows, fall yearlings and spring gilts bred for early spring farrow. The men back of the sale are breeders who desire to make this sale a success from every standpoint and will make every effort to make the sale a success from the standpoint of the buyers. J. W. Johnson of this paper will attend the sale and will handle any bids intrusted to his care in care of either member of this combination sale at Bloomington, Nebr. Free hotel accommodation for breeders at the Helfreich hotel in Bloomington. Ask for the catalog today.

Hunt's Immune Sow Sale.

Feb. 4 is the date of J. O. Hunt's greatest bred sow sale. In this sale he will sell 40 head of Duroc-Jersey bred sows, 20 are all yearlings and 20 are spring gilts. They are the tops of his fall and spring crops and are without doubt the best grown out and best in every particular of any offering he has ever made and you know without him telling it again that J. O. Hunt has stood at the head of the class in the bred sow sale business for a number of years. His sows and gilts are always well grown and he has the ability to feed and condition an offering of bred sows that invariably make good and raise big litters that sell for good money. Some of the best litters we saw last season came from the sows sold in the J. O. Hunt sale last February. The 40 head that go in Mr. Hunt's sale on Feb. 4 are the grandest lot of young sows we ever saw in one pen. They will convince you sale day. They have heads of quality of the real show yard kind and have the scale that makes them look like the kind to buy. Come or send bids by mail or wire to J. W. Johnson in care of J. O. Hunt. You will get a square deal either way. Ask for his catalog tonight. Everything immuned from cholera.

Two Big Duroc Sales.

The biggest offering of Duroc-Jersey sows to be made in Kansas this winter by one firm is that of Samuelson Bros., at Cleburne, Kan., and Blaine, Kan., February 4th and 6th. They believe that the most attractive sows for breeders are in the hands of Cleburne and would prefer that those who are looking for the best should attend this sale although the sale at Blaine will contain choice registered sows of up-to-date breeding. The sale at Cleburne will contain 16 tried sows, 22 yearling gilts and 23 spring gilts. The fall and spring gilts are extra well grown and are easily the best they have ever offered for sale. Samuelson Bros. have kept abreast the times by buying from leading herds over Kansas and Nebraska and their herd contains a variety of breeding and all popular blood lines. They are strengthening their herd every day and expect to buy some good sows this winter. Mr. Luther Samuelson was at the H. B. Miner sale at Guide Rock, Nebr., on the 16th and Mr. John Samuelson attended the J. T. Higgins sale at Abilene last week. They were good buyers at both sales. They will be glad to mail you their catalog upon request. You better ask them for it tonight. You can send your bids to the sale at Cleburne to J. W. Johnson in their care at that place. Free transportation from the sale at Cleburne to the sale at Blaine.

Griffiths's Good Offering.

This is the last call for J. L. Griffiths's annual bred sow sale at his farm near Riley, Kan., Wednesday, February 6. In this sale he is selling 18 tried sows and 14 spring gilts. Also four July boars that have promise for the future. The tried sows, which are a grand lot of proven brood sows, include daughters of Colossus, Grand Look, and other famous sires. The fall gilts and spring gilts are by Big Bone Pete,

the Iowa bred boar, with a few by John Osborne. Everything is bred for early spring farrow to the two boars last mentioned and Chief Price Best, by Chief Price Again. It is an offering of real merit through and through. It is one of the two or three good offerings of northern Kansas that will be made this winter. If you are going to buy Poland China bred sows you will be sure to be pleased with what it contains. As an indication of what to expect is indicated by Mr. Griffiths's recent purchase of the great sire, A Wonder Again, which he has just purchased of E. Grifer, Hull, Iowa. Those who know him say he is an 800-pound hog, wonderfully smooth and with the best of hams, feet and conformation. He was bought at a long price and is now in Mr. Griffiths's herd and will be on exhibition sale day. Ask Mr. Griffiths for his sale catalog and mention Farmers Mail and Breeze. Arrange to go and you will be glad of it.

Walker's Big Poland Sale.

For the past two or three years Thos. F. Walker & Son, Alexandria, Nebr., have made the top sales, both fall and winter that have been made in Nebraska. They have been holding their sales at Fairbury to better accommodate their patrons from Kansas and Nebraska. The Walkers are putting 55 head in this sale, February 15, which is advertised in a big half page advertisement in this issue and there is no question about its being the best offering they have ever made. This is not an idle statement made without a knowledge of their past offerings but is made with a full knowledge of the averages received in former sales and the quality of those offerings. 15 are daughters of Blue Valley 61568, sired by Old Blue Valley's Quality and one of the greatest individuals and sires in the country. He is the smoothest big hog you ever saw and as a sire out ranks his own sire. These 15 daughters of Blue Valley are bred to Blue Valley Orange, a young boar sired by old Big Orange, bred by J. O. James, of Braddyville, Iowa. He and his brother were the two highest priced boars sold last season. 20 head will be bred to Blue Valley and every sow and gilt that goes in the sale was bred and raised by the Walkers. In every sale

glad to mail you his catalog promptly on hearing from you with your name and postoffice address. The writer is familiar with this great herd of O. I. C. hogs and is sure that anyone at all interested in this breed should attend this sale. It is a herd of the highest quality and there will not be an offering made this winter that will equal it for real attractions to the lover of O. I. C. hogs. Kansas breeders will do well to write Mr. Murray at once for his catalog and attend if possible. If it is impossible for you to attend I would advise that you send your bids direct to Mr. Murray, who is thoroughly reliable and one of the best, up to date O. I. C. breeders in the West. Intrust your bids to him and you will get a square deal and a fine sow that will make you lots of money. Ask him for his catalog tonight and mention Farmers Mail and Breeze.

Schwab's Annual Sow Sale.

In this issue Geo. W. Schwab, Clay Center, Nebr., is advertising his big Duroc-Jersey bred sow sale that is to be held at his farm in his sale pavilion Wednesday, February 19. In this sale he is selling 40 Duroc-Jersey bred sows and gilts. Most of them are fall and spring gilts but there will be a few tried sows that will be real attractions. The sale will be held the day following the Geo. Briggs & Son sale at Clay Center, Neb., and both sales can be conveniently attended. Geo. Schwab is well and favorably known over Kansas as well as his own state as a breeder of Duroc-Jerseys. His advertisement has been running regularly in this paper and the writer knows of a good number of well pleased customers that bought boars of him this summer and fall on this territory. The breeding represented in this herd is up to date and standard. He knows the breeding business from one end to the other and looks after his herd personally. He prides himself in his public sales and reserves the best of his fall and spring gilts for his annual bred sow sales and the tried sows that go in the sale are always worth more than the customer believes they are until they have an opportunity to show what they can do. He never keeps a sow that does not produce well. In his own words the stock yards at South Omaha are just yearning for the kind that look good but don't

catalogued stuff. The day was ideal, the offering great and the young man back of it has suddenly leaped into prominence as a breeder of high class Duroc-Jerseys. The average of \$47.50 on 40 head was better than was expected, although it was only a fair price considering the high quality of the offering. The sale was topped by Rinehart & Son of the R. & S. Farm herd of Duroc-Jerseys at Smith Center, Kan. They secured three head including number 23 which they secured for \$100 and which was the top of the sale. Below is a list of the prominent buyers:

- 1—Geo. M. Hammond, Newton, Kan. \$ 53.00
- 2—Wm. Warnick, Harris, Kan. 47.00
- 3—Lewis Akers, Junction City, Kan. 39.00
- 4—J. D. Shepard, Abilene, Kan. 79.00
- 5—C. W. Taylor, Abilene, Kan. 64.00
- 6—E. B. Lanning, Abilene, Kan. 49.00
- 7—L. Keonig, Solomon, Kan. 56.00
- 8—L. Malmgren, Falum, Kan. 52.00
- 9—Jas. B. Haley, Hope, Kan. 46.00
- 10—E. G. Munsel, Herington, Kan. 42.00
- 11—Samuelson Bros., Cleburne, Kan. 43.00
- 12—W. F. Fulton, Mentor, Kan. 44.00
- 13—Searle & Son, Topeka, Kan. 50.00
- 14—Thompson Bros., Garrison, Kan. 40.00
- 15—M. E. Gideon, Emmett, Kan. 59.00
- 16—Samuel Drybread, Elk City, Kan. 57.00
- 17—Rinehart & Son, Smith Center, Kan. 100.00
- 18—W. Whitehair, Abilene, Kan. 41.00
- 19—John Whitehair, Abilene, Kan. 41.00
- 20—W. H. Funk, Quinter, Kan. 48.00
- 21—Sam Stone, Leonardville, Kan. 41.00

Kansas, Missouri and Iowa.

BY C. H. WALKER.

Breeders contemplating winter and spring sales and who have not as yet secured their auctioneer should write Col. Frank J. Zaun of Independence, Mo. Col. Zaun by his untiring efforts, his hard work and ability has endeared himself to the breeders in a wide range of territory and covering a big field. To insure getting desirable dates it will be well to write him at once as his services are in demand at all times. Considering his value as a salesman and his knowledge in conducting sales his charges are very reasonable. Write him today and kindly mention this paper.

Duroc-Jersey Bred Gilts.

An exceptional opportunity to buy at reasonable prices choice Duroc-Jersey bred gilts—bred to prize winning boars—is offered by Chas. L. Taylor of Olean, Mo. Mr. Taylor was a heavy winner at the Missouri State fair and the American Royal last fall and it is this same class of stock he offers for sale now. A choice gilt bred to his first prize boar, Col. Wonder will be a mighty strong addition to any herd and considering quality the prices asked are indeed reasonable. Write Mr. Taylor per his card advertisement in this issue and mention that you saw the notice in this paper.

Joe Schneider's Bred Sows.

One of the best herds of Poland Chinas in Kansas is owned by Joe Schneider of Nortonville, Kans. The bred sows are large and prolific. Mr. Schneider has always kept at the head of his herd boars that were noted for their ability to produce high class pigs. The big, mellow, easy feeding, quick maturing kind. The kind that pleases farmers, breeders, feeders and finally by pleasing the packers, tops the market. At the present time Mr. Schneider is offering some high class sows bred for spring farrow. Also a nice lot of fall pigs. He will make satisfactory prices on either the sows or the pigs. Mr. Schneider is absolutely reliable and guarantees every representation. Write him for prices and mention Farmers Mail and Breeze.

Last Call—Columbia Jack Sale.

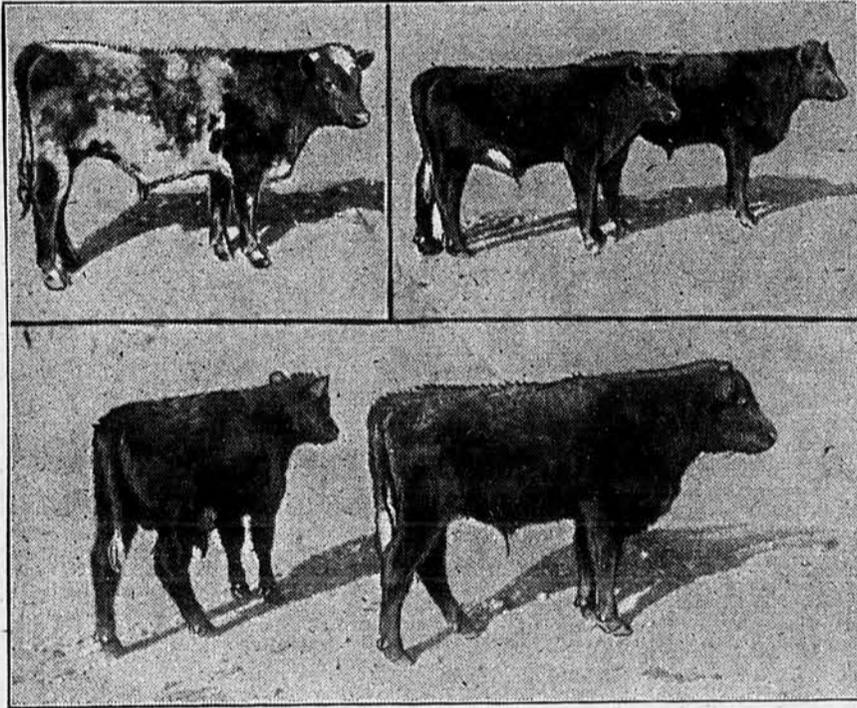
This is the last issue in which we will have an opportunity to call attention to the jack and jennet sale to be held at Columbia, Mo., on next Thursday, February 6, by A. E. Limerick & Sons and W. E. Bradford. The sale includes 40 head, 25 jacks and 15 jennets of high quality. It being a closing out sale everything will be sold without reserve. These have been carefully selected in three states especially for this sale and a number have cost the owners as high as \$500 at five months old. These jacks show extra quality and size and bone and are good throughout. The jennets are the right sort and are safe in foal to top jacks. If you have not already secured a catalogue do so at once and arrange to attend this sale. Remember the date is next Thursday, February 6, and the sale will be held at the E. G. Davis sale barn in town.

Delerling & Otto's Jacks.

The best lot of jacks and jennets they ever have had on hand are now in their barns at Queen City, Mo. This refers to Delerling & Otto of that place. Not a poor jack or jennet individually, not a poor breeder and all carrying the best of the Mammoth breeding is the class of jacks and jennets this well known firm has to offer the trade this year. They know the business inside and out and have been at it for over a quarter of a century. They have been heavy winners at the leading shows with their stock and it is this class of stock they have to offer at this time. Buyers in the market for something choice and at prices that are no higher than are asked for the ordinary kind should look over this excellent lot. Drop them a card stating your wants and arrange to make a visit to this great jack and jennet breeding establishment. Kindly mention this paper when making inquiry.

Roan's Annual Jack and Jennet Sale.

Elsewhere in this issue G. C. Roan, of La Plata, Mo., announces the date of his annual sale of jacks and jennets. The sale this year comes on Monday, March 10. The offering this year numbers 40 head, including an equal number of jacks and jennets. The following are a few of the things Mr. Roan stands for and behind and will give the reader an idea of the high class lot of breeding stock he is selling this year. "I absolutely guarantee this to be the best offering I have ever made and will refund railroad fare if this is not a fact. I have decreased the average price and increased the quality each succeeding year. I stand behind every jack sold at my sales, and make absolutely good the guarantee. Every jack and jennet in this sale was raised on Clover Leaf Farm or personally selected by me. I will show you men who have bought jacks at my sales and paid



The above bulls are for sale by C. W. Taylor of Abilene, Kansas, and are typical of the kind he produces from his splendid herd of big, broad-backed cows. These calves are either pure Scotch or Scotch topped, on useful foundations. Write Mr. Taylor for prices.

most half of the offering comes to Kansas breeders and a good per cent are always back for more sows. It will prove the same this season. Ask them for their catalogue and address them for same at Alexandria, Nebr. Bids by mail or wire to J. W. Johnson of this paper will be looked after carefully. Send in Walker's care, Fairbury, Nebr.

The College Sow Sale.

Friday, February 7, is the date of the Duroc-Jersey and Berkshire bred sow sale that is being made by the state agricultural college at the livestock judging pavilion at the college. In this sale they are selling 36 Berkshire sows and gilts and 32 Duroc-Jersey bred sows. It is an offering that the men who have handled the swine department at the college have every right to feel very proud of. The breeding is of the most popular and fashionable blood lines and every animal has been well grown and not stuffed. Every sow in the offering will be found in perfect breeding condition having been handled and fed by an expert. They are almost sure to prove good investments for their purchasers. Come as early as you can and stay as long as you can in the desire of the Animal Husbandry department. You will be gladly shown over the entire farm and can spend as much time in going into details concerning any department as you care to. It is a real pleasure to Prof. Cochel, the head of the animal husbandry department and Prof. Wright, who is at the head of the swine department, to show you the herds. The same is true of all other departments. Come early. Write for catalog tonight and mention Farmers Mail and Breeze when you write.

Murray's O. I. C. Sow Sale.

Chas. H. Murray, Friend, Nebr., will sell a draft of 40 bred sows from his herd of O. I. C. hogs at that place, Friday, February 7. These sows are a selected lot from his big herd, which is immune. They consist of fall yearlings and 2-year-old tried sows. They are as well bred, as well growing and as well conditioned as any offering of bred sows that will be made in Nebraska or Kansas this winter. Mr. Murray will be

produce the litters that pay out. Look up the advertisement of this sale and arrange to attend or send your bids to the representative of this paper.

Adds to His Offering.

In this issue H. H. Shaw, Hebron, Nebr., is advertising his sale, of Duroc-Jersey bred sows and gilts, which will be held at Hebron, Tuesday, February 11. He had planned to sell 40 head but I have received word from him after his advertisement had already appeared in our last issue that he had decided to add to the sale offering 11 choice gilts which will make the offering one of the best to be made in Nebraska this season. Three of these gilts will be bred to C. W. 4th and eight of them to Garnet's Wonder. This will make an offering of 60 head of as fashionably bred Duroc-Jersey sows and gilts as will be found in one sale this winter. It will be found in the best of breeding condition and bred for early spring farrow. As has been stated before in this paper, Mr. Shaw has been one of the best buyers of the good reliable kind, that has been proven valuable before coming to his herd. He has recently purchased a farm near Bruning, Nebr., and will move there in the spring. He will continue a breeder of Duroc-Jerseys and still be "mixing" with the southern Nebraska and northern Kansas breeders as well as those elsewhere. By looking up his advertisement in this issue you will be able to get a line on what he is offering in this sale. He is selling close because he is making a change in farms and desires to make a good sale as possible. The offering is right and you won't miss it if you attend. Bids may be sent to J. W. Johnson in care of H. H. Shaw, Hebron, Nebr. Ask for a catalogue tonight.

Shows a Healthy Demand.

As had been predicted in Farmers Mail and Breeze the J. T. Higgins sale at Abilene, Kan., last Friday, was well attended and the offering all that was expected. All of the catalogued hogs were sold first and a number of other sows not catalogued were sold for nearly the price received for the

for them out of their service fees the first year. Everything in the sale black with white points and registered. Every jack from 15 to 16 hands high and proportionately built in body and bone. I sell more jacks that pay for themselves in two years than any man in the world." All of which is to the point and of special interest to prospective buyers of jacks and jennets. Few men have attained the success in so short a time as has Mr. Roan and it stands to reason that he must have the goods to back it up. He has just completed a mammoth sale pavilion, said to be the largest exclusive jack and jennet sale pavilion in the world. It will be dedicated at this sale. The catalogs are ready. Mr. Roan has issued what is said to be the finest catalog of its kind ever gotten out, containing a photograph of each animal to be sold. Write for one today and kindly mention this paper when writing.—C. H. W.

Waddill Sells Horses.

Jno. W. Waddill & Son, of Brashear, Mo., reports that he has been having an excellent trade on his horses, Percherons, Belgians, Shires and German Coach. Probably no firm of like character enjoys such a strong local trade as do Messrs. Waddill. Within a radius of ten miles they have sold a dozen horses during the past two months and each to different parties. This is indeed a record and goes to show that at least in one instance there is a prophet without honor in his own country. The Pioneer Stock Farm is known far and wide as headquarters for the best in the breeds above mentioned and they have a large trade in a wide range of territory. Most of the horses are raised on the Pioneer Farm and have the personal care and intelligent handling that makes for better horses in performance, manners, action, individuality, and all the essential points of a good breed. Prospective buyers will consult their own interests by getting in touch with Messrs. Waddill. Write them your wants and kindly mention this paper when doing so.

Walter's Greatest Sow Offering.

Enthusiasm is an American characteristic. We are all prone to deal in superlatives in expressing our likes and appreciations, but in this connection it seems impossible to "make it too strong." We refer to the offering of 50 head of bred sows—big type Poland Chinas—which H. B. Walter of Effingham, Kan., will offer the public on Friday, February 14. We know of few breeders who have won the success or deserve it more than H. B. Walter. He has often been called the sage of the Poland China breeders and that title is not far amiss. What he doesn't know about breeding, handling, feeding and all the points pertaining to the business would make a mighty small volume. But we started out to tell of the sale offering. However, the fact that H. B. Walter is what he is and knows what he does has made it possible for him to offer such an A1 lot of Poland China breeding stock. There are numerous reasons why this sale should be one of the best. If not the best, in this section, this winter. But the two main reasons are that the offering merits it and because they will be offered the buyers free from cholera. They have not had the cholera but have been immunized by the double treatment and have withstood the most rigorous tests. Breeders can make selections in this sale at a minimum of risk and that makes them doubly valuable. It is in keeping with Mr. Walter's progressive policy and his desire to give every advantage in the way of improvement to his old and new customers—going to the trouble and expense to offer the best and in the best condition to his trade. He realized that the cholera proposition was a condition that had to be met. That there was no use in dodging the issue. That it was and is one of the biggest hindrances to the business and the breeders and farmers are to be congratulated that they have a place where they can buy their breeding stock and be assured of safety. Every animal in the sale was given the double treatment and had safely passed through it before being bred. Aside from this precaution that is of untold advantage to the buyers in this sale this offering is by far the best Mr. Walter has ever offered. All but five of the 50 head are yearlings and matured sows. Only five 1912 spring gilts will be sold. The offering includes 13 tried sows, 28 summer and fall yearlings, the five spring gilts and four summer boars



Davis's Hampshire Sow and Boar Sale.

W. F. Davis of South St. Joseph, Mo., will sell at public auction at the sale pavilion, stock yards, South St. Joseph, Mo., 150 bred Hampshire sows and 40 boars on Tuesday, February 13, sale starting at 10 a. m. sharp. Mr. Davis is one of the largest breeders of Hampshire hogs in the world, breeding from 600 to 1,000 each year. The sows and boars he is offering in this sale are his own selection after 17 years of breeding. He has at all times bought only the prize winning boars regardless of cost, and is offering in this sale the greatest string of brood sows ever offered in America. A great many of these sows are the daughters and granddaughters of Pat Maloy 1415, the world's championship boar, and are equally as good individuals as Silvia 1st 16316, that sold in his 1912 sale to C. A. Brook of Washington, Ia., at \$190. W. F. Davis's 1912 sale was one of the greatest ever held, he selling in this sale 100 bred sows and 12 boars in less than

four hours. His boar sale in October, 1912, duplicated this feat, selling 75 boars in two hours and 45 minutes and the purchasers at this sale a great many were customers of his February, 1912, sow sale, which only goes to show that the Davis Hampshires are the kind that pleases in every way. W. F. Davis sells on the St. Joseph market from five to 10 carloads of Hampshire hogs per year, and he has the first time yet failed to top the market, having sold them as much as 50c per cwt. above the top of the market and the packers that bought them claim they produce the most perfect cuts of meat they have ever seen, one carload dressing over 87 per cent, and for a bacon hog they cannot be surpassed. W. F. Davis has had all his hogs vaccinated which should immunize them from cholera. Watch next week's issue for further announcement and particulars of this sale. Write now for a catalog and kindly mention this paper.—C. H. W.

—herd header prospects. Fifteen of the yearlings, coming two's, are daughters of the great Expansive, acknowledged to be the best sow sire of the past decade. There will be daughters of A Wonder, Guy's Price 2d, Prince Hadley, Colossus, Mammoth Hadley and other well known big type sires. These are bred for March and April farrow to Long King's Best, one of the best breeding sons of Long King; Referendum, the great Nebraska sire and to Expansive Chief, considered the best breeding son of old Expansive. It is doubtful if a more uniformly good offering will be sold this winter. The catalogs are ready. Write for one today and kindly mention this paper when making inquiry.—C. H. W.

Kansas and Missouri

BY ED. R. DORSEY.

Last call for the A Wonder sale at Clarinda, Iowa, Feb. 6. A Wonder is all we need to say about a sale; the owner, Henry Fessenmeyer, has done his part to let people know what A Wonder has been doing and it's an even break as to reputation of the hog or owner as both are known as far as hog history is known and in this sale thirty-five of the best sows Mr. Fessenmeyer could breed or buy will be bred to the best advertised in the world of the Poland China breed. Every day is filled in this circuit; all near easy to get to. Following this great sale the next day is G. W. Seifrit, of Chariton, Iowa.

Erhart & Sons' Popular Polands.

If A. J. Erhart & Sons of Adrian, Mo., would claim for their herd that they had more prize winners in it than any other herd in Bates county it would not be disputed. If they claimed it to be double the size that would not be questioned. While this firm has all of this and the best improved hay farm we ever saw they are modest in their claims, fair in their dealings and are appreciated by the breeding public, honored by their competitors. They enjoy a large trade and on February 22 will sell 100 as good sows as were ever sold

4, under the management of J. B. Dillingham. The catalogs with full description of 50 jacks and 20 jennets are out and every one interested can get one by addressing the sales manager at Platte City, Mo., Col. Jas. W. Sparks, so well known as a leading salesman of jacks and horses, as well as up the sale and he will be assisted by competent auctioneers and they will be able to sell the entire stable of 70 jacks and jennets besides 10 stallions in the one day. The manager invites all prospective buyers to be present the day before and consult every owner of the jacks as they will get a much better idea of the habits and value of these great Missouri jacks than they can in any other way as each animal is well known by their owner since every Jack is sold guaranteed by his owner to be exactly as represented. Making this one of the safest propositions on earth as these men have raised their own jacks and thoroughly understand them. This will be a great opportunity to buy as good as will be sold this winter.—E. R. D.

The Platte Co. Jack Sale.

It takes just a little energy, a little confidence and some business ability to do things. For some time those holding Jack sales have been going to Kentucky and Tennessee, overlooking the great Missouri jacks where the best in the world is produced. The breeders of Platte county have not had a buyer in there for three years and it's the greatest Jack and mule country in the state, so they concluded to hold a combination sale of jacks and they got together and chose J. B. Dillingham as sales manager. Now they have 50 high class jacks of their own breeding, thoroughly acclimated, and will now go out and make good. Not a Jack has been established on high fed. Just cared for in the old Missouri style of raising good, healthy, thrifty jacks. Some of these contributors have been raising good jacks for half a century and if one wants to see jacks with the right kind of heads, long ears and big bone there is nowhere on earth one can beat a Missouri Jack, and Platte county is the hub of the Jack growers. Fifty jacks and 20 jennets are a big sale but the sale opens at 10 a. m. and jacks will all be sold in five hours or less. Sale Tuesday, February 4.

Harding's Duroc-Jersey Sale.

Last call for the R. J. Harding Duroc brood sow sale to be held at Carson, Iowa, February 3rd, and to lovers of Duroc-Jersey hogs this is one of the most important events of the kind to come off this season not only in Iowa, the home of the Duroc, but of any country east or west. Mr. Harding is not only one of the most successful breeders but has a reputation unsurpassed as an exhibitor of prize winners and prize producers. When the two are combined on one farm or by one firm we have just right to make this claim for R. J. Harding and we hope the readers of this paper will take the advantage of the opportunity and secure some of this excellent offering. No one can have too much of this select breeding that are not only descendants but are themselves winners of State Fair honors; Mr. Harding has been conditioning his hogs for the shows so long and getting his really better stock from the higher fitted and best brood sows that you take no risk in buying a prize winner even if in high flesh last fall as he knows the art of con-

by one person or firm. They own more Poland China herd boars than can be found most anywhere representing the leaders of big type and prize winners. The catalog is out now. Send for one and mention this paper when you write.—E. R. D.

Dorr's Durocs.

A. G. Dorr, of Osage City, Kansas, the old general Duroc breeder has for sale 15 fall boars and 20 fall gilts sired by a Crimson Wonder boar and out of old sows. These pigs are all immune against cholera and are all of the deep cherry red with a large bone, nice arch back and wide ham. Mr. Dorr is making a special low price on them this month and if you want some of these Crimson Wonder boars or gilts with that deep cherry red, write Mr. Dorr at once for prices mentioning Farmers Mail and Breeze.

Platte County Jack Sale.

Before the next issue of this paper the largest Jack sale ever held in America will be pulled off at Platte City, Mo., February

OIL-OIL-OIL

WHOLESALE PRICE TO CONSUMERS—Combining best quality with low price. NO WATER IN MY KEROSENE OR GASOLINE.

XXX 46 gravity water white kerosene.....	\$5.50	for 52 gal. bbl.
XX 42 gravity kerosene (the kind usually sold).....	\$4.75	for 52 gal. bbl.
XXX 64 gravity gasoline.....	\$8.75	for 52 gal. bbl.
1 case graphite axle grease (2 doz. 3 pound pails).....	\$3.50	
40 gravity prime white stove distillate.....	\$4.25	for 52 gal. bbl.
38 gravity stove distillate.....	\$4.00	for 52 gal. bbl.
60 gallon (26 gauge) galvanized steel tank with pump and hood cover complete—a great convenience in every home.....	\$3.60	
Extra heavy pure crude oil, steamed and settled, (black oil) good lubricant, just the thing for greasing tools.....	\$3.50	for 52 gal. bbl.

STANNARD'S PROCESSED CRUDE OIL, the best dip made for killing lice and curing mange. One application will do more to kill lice and cure mange than three applications of any other dip made (it destroys the nits).....\$5.00 for 52 gal. bbl.

I also carry a full line of lubricating oils.

I pay \$1.25 each for crude oil barrels, \$1.50 each for refined oil barrels, returned to me at refinery in good order, freight prepaid. Send the money with your order.

C. A. STANNARD, BOX M, EMPORIA, KAN.

MY HOGS ARE FREE FROM CHOLERA



Besides offering you the best lot of big type Poland Chinas I have ever sold I am selling them immune from cholera. They have not had the cholera, but have been immunized by the double treatment—all vaccinated before being bred.

MR. FARMER! MR. BREEDER! MR. BUSINESS MAN!

What is it worth to your business to add breeding stock to your herd that is right in every respect and to do so at a minimum of risk? This is the greatest lot of sows I ever have offered and in order to make them doubly valuable to you I have put them to the most rigorous tests. That is your gain. My sale will be held at the farm near

Effingham, Kansas, Friday, Feb. 14, 1913

50 Head

Will be sold—13 tried sows, 28 summer and fall yearlings, 5 spring gilts, 4 summer boars—herd headers. Fifteen of these are yearling daughters of the great sow sire, EXPANSIVE among the best ever sired by him and that means they are outstanding. The attractions include Guy's Best, the great Lonergan sow; Wonder Queen, a great daughter quality. These are bred for March and April farrow to LONG KING'S BEST, my great son of Long King; REFERENDUM, the great Nebraska sire and EXPANSIVE CHIEF, the old hog's greatest breeding son. This is certainly a fine lot of stuff and I will have to be "shown" if there is a better lot all the way through to sell this year. Not only have they the size, conformation, bone and quality, but they are breeders and producers and are bred to that kind of boars. I know they will please. Write now for the catalog, mentioning the paper, and arrange to attend this sale.

H. B. WALTER, 18 miles west of Atchison on M. P., EFFINGHAM, KANSAS
C. H. WALKER, Fieldman. FRANK J. ZAUN, Auctioneer.

ditioning both up and down for the show, for breeding purposes. Of course he is not selling prize winners only but he has others; all are sired, bred to and out of State Fair champions.

Iowa and Nebraska

GEO. W. BERRY.

T. W. Lavelock, of Princeton, Kansas, held his second annual sale of Hampshire hogs at Ottawa, January 23rd. This sale was the occasion for the largest gathering of farmers and breeders that has assembled in the Ottawa Sale Pavilion for the past 10 years. Practically everybody present was interested. All wanted hogs. The offering of 54 head was sold in less than 2 hours for an average of a little better than \$41. The bidding was snappy throughout the sale. The first 10 head sold at an average of \$31.55; the second 10 at an average of \$46.45; third 10 at an average of \$39.60. The and fourth 10 at an average of \$40.40. Demand was not nearly supplied for bred sows when the sale was over. Practically all of the hogs were bought by Kansas farmers and breeders. In Mr. Lavelock's sale last year the average was \$34. Several of the buyers in the first sale were much more enthusiastic buyers in the second sale. Among these should be mentioned Karl Mount, of Paola, Kansas. Mr. Mount bought one of two sows in the first sale and they made him so much money that he was one of the principal buyers in the second sale. The following is a list of the buyers: Wm. Gregory, Lyndon, Kansas; Frank DeCook, Chiles, Kansas; J. A. Hook, Osage City, Kansas; F. C. Whitford, Medora, Kansas; E. E. Vickers, Pomona, Kansas; A. E. Pearce, Lyndon, Kansas; L. M. Churchbaugh, Lawrence, Kansas; Fred Whitehead, Meriden, Kansas; J. S. Steed, Gardner, Kansas; C. E. Daugherty, Quenemo, Kansas; Jas. Haley, Hope, Kansas; Karl Mount, Paola, Kansas; A. G. Page, Gardner, Kansas; Clinton, Garrison, Osage, Iowa; Bert Pierce, Olivette, Kansas; G. H. Bauer, Pomona, Kansas; Dr. Watkins, Cherryvale, Kansas; B. F. Nelson, Pomona, Kansas; J. R. Cotton, Stark, Kansas; W. J. Armstrong, Burlington, Kansas; N. L. Graves, Garfield, Kansas; J. M. Barrett, Overbrook, Kansas; R. H. Alley, Melvern, Kansas; G. F. Olson, Vinland, Kansas. Col. Thos. E. Deem of Cameron, Mo., assisted by Col. Rule and Porter of Ottawa, did the selling.

Iowa and Illinois.

BY H. W. GRAHAM.

A. Latimer Wilson, importer, of Creston, Iowa, reports business lively at Creston and will have a new importation of Belgian and Percheron horses to land at Creston, February 7, 1913.

Frank L. Stream, Creston, Iowa, is quoting some very attractive prices on home bred and imported stallions and mares in this issue. Look them over and then go and look over the offering. You may find what you want there.—H. W. G.

W. T. Wright, the Hereford cattle breeder, and show yard winner at Mt. Pleasant, Iowa, is offering Herefords for sale at prices that will suit the buyer. He has several good young bulls and a few females that he is willing to part with.—H. W. G.

Scott J. Miller, Chillicothe, Mo., calls attention to some thirty fine Mammoth Missouri bred jacks, he has for sale that are in their every day clothes. He is giving special attention to buyers and visitors who call and he will be glad to hear from any who are not able to visit the farms. His prices are right.—H. W. G.

Editorial News Notes

Henry Field of Shenandoah, Iowa, wants to send you a copy of his 1913 catalog. It is a whole lot better, more interesting than the ordinary horticultural catalog. It's worth sending for and a postal card will bring it. Field's seeds are among the best to be found anywhere. There are none better, and "the seeds that yield are sold by Field" so Field himself says and he wants the opportunity to back up this claim. See his ad on page 44. For catalog address Henry Field, Box 60, Shenandoah, Iowa.

"Better Buildings" is the title of a very interesting booklet issued by the American Sheet and Tin Plate Company of Pittsburg, Pa., whose advertising appears in this paper on page 28. The booklet shows the uses, and they are many, to which the Roofing and Siding materials made by this company may be put. They are used for houses, churches, elevators, barns, garages, hog houses, cribs, etc., etc. The book gives much information of interest about building matters, and gives particularly valuable instructions regarding the use of the products of this company. If you want "Better Buildings" at a low price you cannot afford not to send for a free copy of this little book. Address as above and mention this paper.

The catalogue of the Iowa Seed Company, of Des Moines, Iowa, for the year 1913, gives evidence of careful construction. The illustrations in color, of which there are four plates, are really works of art but drawn true to nature without exaggeration or excess coloring. The illustrations and descriptions in the body of the book are carefully prepared that the customer may form a correct idea of the article offered, free from any misconception because of statements not founded on fact. Much thought has been expended in grouping special collections into real bargains. Anyone conversant with seed and plant growing will realize the great opportunities for bargains that occur with surplus stocks and the Iowa Seed Company give their customers hundreds of chances to secure seeds and plants of such stock at comparatively low cost. In fact it is the policy of this house to give their customers the full benefit of any such surplus rather than offer them to other dealers at wholesale prices. Anyone receiving this book will be convinced from the character of the catalogue that the whole scheme of this business rests upon giving satisfaction to the customer and any readers of this paper can get a copy of this 150-page book without cost, simply by writing a postal card request for same. We kindly ask that you mention this paper

in your request as a matter of introduction. Address Iowa Seed Company, Dept. 20, Des Moines, Iowa.

Can Recommend It to Others.

Your Gombault's Caustic Balsam is very effective in curing troubles peculiar to horses. It has proved valuable to me and I can recommend it to others.—N. I. NELSON, Dwight, Kans.

Studebaker's Farmer's Almanac.

A little book invaluable to the Farmer or the person interested in agriculture is the almanac issued by the Studebaker. It contains nearly a hundred articles on roads, feeding stock, mixing paints, first aid, poison antidotes, besides many tables of weights, measures and useful facts, weather forecasts and interest tables. No one can afford to do without this useful booklet. Studebaker has been issuing the almanac for fourteen years and this, the latest number is more than usually complete. It may be obtained from any Studebaker dealer.

Cheapest and Quickest Way to Put Up Fencing.

You actually save 50 cents on the dollar when you use a Keen Kutter post-hole digger for putting up fencing. The old-fashioned method of using bar and shovel took up too much time, labor and money. With a Keen Kutter post-hole digger you simply drive the sharp, heavy steel blades into the soil, spread the handles apart and yank up a big load of earth. Just the work of a minute—easy work, too.

Need any hay or manure forks? It will pay you to get Keen Cutters. They have strong, flexible tines and the handles are fashioned from straight-grained timber and securely fixed. Keen Kutter are unquestionably the leading farm tools of the nation. In material, workmanship and finish, they offer honest value and efficiency. Our readers can always buy Keen Kutter tools with absolute confidence, for the makers, the Simmons Hardware Co., of St. Louis, Mo., authorize all its dealers to refund your money if any article is not perfect.

A Kansas Made Incubator.

The Fostoria Incubator Company, Fostoria, Kan., has been reorganized and 17 farmers and poultry raisers who have used the machine and know its real value have taken the stock of the new company which is capitalized at \$10,000. The factory at Fostoria will be enlarged to enable them to take care of the increased business and even a better machine will be made than before. A new device that adds value to the machine is an alarm that sounds when the temperature gets below or above the right place. The officers of the new company are J. H. Harter, President, W. O. Jones, Secretary. The directors are J. H. Harter, A. E. Smith, T. N. Martin, C. E. Blood, A. P. Ostergard, C. E. Ellis and W. O. Jones. The catalog will be ready January first. This is a new idea in the incubator business where a company of poultry breeders organize to push their favorite incubator to the extent that they organize a company with \$10,000 capital to manufacture it. Their advertising appears on page 10 of this paper. Write for full information to Fostoria Incubator Co., Fostoria, Kan., saying you saw their ad in Farmers Mail and Breeze.

Safe Instead of Sorry.

The motto "It is better to be safe than sorry" can be applied with excellent judgment in selecting the Queen Incubator, built in Lincoln, Nebraska. The Queen is manufactured by a man whose cardinal principle is to build honestly. Other manufacturers may make and sell other incubators than P. M. Wickstrum does. But this can be depended upon: Every Queen that goes out of the Wickstrum factory is built according to the Wickstrum idea. Buyers of Queen incubators are not disappointed. Queen incubators are honestly built throughout. What is more, they have the "hatching spirit," or as Mr. Wickstrum puts it they have "hatchability." The Queen everywhere has a record that is not surpassed by any other machine for making high per cent hatches of strong, liveable chicks. In connection with the Queen several facts might be mentioned. These are significant: 1st. Queen sales are larger each succeeding year. It has made its way to all parts of the country. 2nd. The Queen is neither a "cheap" nor a high-priced machine. It's a common saying that "the Queen in price is a fair price." 3rd. The Queen in many successful poultry plants is at work side by side with the highest priced incubators made, and its distinctive hatching record has never been excelled. To the reader who is about to purchase an incubator, let us say again you can buy the excellent Queen at a fair price and make sure of being safe instead of sorry. Address Mr. Wickstrum, Box 8, Lincoln, Neb., and he will be glad to send you a catalog with 28 reasons for the Queen's superiority.

World's Championship Won for Fifth Time by Belle City Incubator.

The Belle City Incubator has just added a fifth victory to its list of winnings and this time with three 100 per cent hatches. This is a record worth considering pretty carefully by the man who today owns an incubator or who is planning to buy one. And one great feature of all these contests has been the fact that the Belle City has defeated machines which sell for two, three and four times as much. Just read these records: Mrs. Laura J. Clark of Illinois won the 1911 Missouri Valley Farmer and Nebraska Farm Journal contest with 140 chicks from 140 eggs. Mr. Geo. W. Black of Indiana with two 100 per cent hatches was a winner in 1911 Successful Farming contest. In the 1910 Successful Farming contest Mrs. M. J. Clifton of Oklahoma was a winner with 140 chicks from 140 eggs. The famous Tycoos thermometers, solid silver gold lined cup was won by Mrs. F. H. Osman of Ohio. And now finally the Successful Farming Contest for 1912 in which I. E. Bennett of Ohio proved the practical value of the Belle City Incubator and was also a winner with three 100 per cent hatches. Plenty of people say that this record in itself is enough to decide them—that they wouldn't ask for any better argument in favor of an incubator than the startling successes made in actual contests by the Belle City. However, the men and women who delve into the construction of incubators will be more than satisfied by what they may learn about the Belle City. Double walls and doors—dead air space all over—copper tank—hot water heating sys-

LIVESTOCK AUCTIONEERS.

Wm. H. Harper, LIVESTOCK Auctioneer, GLASCO, KANSAS. Phone for Dates.

Col. D.F. Perkins, Concordia, Kan. Up-to-date methods in the Auction business. Purebred stock sales and big sales generally. Write or dates.

J. H. JONES, LIVE STOCK 600 Kan. Ave., Topeka and farm sales solicited. 18 years experience.

L. R. BRADY LIVESTOCK AUCTIONEER Manhattan, Kan. Write or wire for dates.

COL. S. B. YOUNG, Osborne, Kan. Livestock Auctioneer. Write for dates.

T. E. GORDON, WATERVILLE, KANS. Livestock and Real Estate Auctioneer. WRITE FOR DATES.

JAS. W. SPARKS Live Stock Auctioneer MARSHALL, MO.

COL. HOMER BOLES, Randolph, Kan. Livestock and General Auctioneer.

G. C. DENNEY GUIDE ROCK, Nebr. Livestock Auctioneer. Pure bred stock sales and big farm sales. Write or phone.

R. H. DENGATE, Lucas, Kan. LIVESTOCK AUCTIONEER. DATES CLAIMED ARE PROTECTED.

N. S. HOYT, Mankato, Kan. Livestock Auctioneer. Big Horse and other Stock Sales a specialty. Terms reasonable. Special service to breeders.

Will Myers, Livestock Auctioneer Beloit, Kansas. Write or phone for dates. I am located right to give good service.

Col. J. R. LOYD, ATHOL, KANSAS. LIVESTOCK AUCTIONEER. Write for terms and dates, and reference.

Col. N. B. PRICE, Mankato, Kans. LIVESTOCK Auctioneer. Phone or write for dates. Bonney K. heads my Duroc-Jersey herd

COL. FRANK REGAN, ESBON, KANSAS. Livestock Auctioneer. Write for open dates.

G. A. DRYBREAD Elk City, Kans. Live stock and farm sales made anywhere. Give me a trial. Satisfaction guaranteed.

SALE BILLS Printed on heavy paper 11x17 inches in 2 colors. Sent post paid \$2 per 100; 200 for \$3. Send 2c stamp for sample and particulars. C. S. DEMAREE, Printer, Dept. C, 619 Walnut, Kansas City, Mo.

FRANK J. ZAUN FINE STOCK AUCTIONEER INDEPENDENCE, MO. Bell Phone, 675 Ind. "GET ZAUN, HE KNOWS HOW!"

R. L. HARRIMAN Live Stock Auctioneer BUNCETON, MISSOURI

MULE FOOT HOGS. Mule Foot Hogs More premiums won in 1912 than any herd in the U. S. Bred sows, some extra spring farrow boars and pigs in pairs not related. Pedigrees furnished. ZENE G. HADLEY, R. F. D. 5, WILMINGTON, OHIO.

DUROC-JERSEYS. A Fine Offering Bred Sows and Gilts Also open gilts and summer pigs. Best of breeding. R. C. WATSON, ALTOONA, KANSAS.

BIG TYPE DUROCS Herd rich in blood of Monarch families. 45 head tried sows and gilts in our bred sow sale, February 5. Stock for sale. Send for catalogue. MOSER & FITZWATER, GOFF, KANSAS.

DORR'S DUROCS 15 Fall boars and 20 gilts. Crimson Wonder breeding. All immune. Special low price. A. G. DORR, Osage City, Kans.

Pleasant View Durocs. Bred sows at private sale. Spring gilts, fall yearlings and tried sows. All immune. Write for prices. T. P. TEAGARDEN, Wayne, Ks.

BRED GILTS I have an exceptionally fine lot of Duroc gilts bred to my prize winning boars for sale. Also a few top summer boars. Write for prices and description. CHAS. L. TAYLOR, Olean, Mo.

MEADOW BROOK BERKSHIRES AT BURLINGTON, KANS. 200 bred sows, all bred to Premier Longfellow, King's 2d Masterpiece, True Type, King's 4th Masterpiece, King's X Masterpiece (the greatest yearling we ever raised), Forrest Count, etc. One hundred open sows and twenty extra nice males. Two extra good herd boars for sale (every one deep in breeding and rich in blood). E. D. KING, BURLINGTON, KANSAS.

MISSOURI AUCTION SCHOOL LARGEST IN WORLD Special 4 weeks actual practice term, start at any time in January and finish in February. We now have a large class in attendance. W. B. CARPENTER, President, 14th and Grand Avenue - KANSAS CITY, MISSOURI

DUROC-JERSEYS.

BEAVER VALLEY HERD DUROCS. Boars and gilts sired by Grand Master Col. II 94908 (Grand Champion and sire of winners at Oklahoma State Fair, 1911), Defender's Col. 112297, Autocrat 94765 and Muncie Col. 113779. Satisfaction guaranteed. W. A. WILLIAMS, MARLOW, OKLAHOMA.

ROYAL SCION FARM DUROCS Fashionably Bred Durocs, spring boars and bred gilts, by the great Graduate Col. Also sows and gilts bred to him. G. C. Norman Prop., Winfield, Kan.

Perfection Stock Farm Nov. boars and gilts, also 80 choice spring pigs, by State Fair grand and reserve champions. Pairs and trios not related. Ship on approval. Prices right. Write your wants. Geo. M. Glasen, Union City, Okla.

15 Duroc Sows and Gilts Kant Be Beat, Crimson Wonder, and Colonel breeding, and bred to a splendid boar sired by King the Col. Priced reasonable and guaranteed as represented. ARTHUR A. PATTERSON, Ellsworth, Kan.

Bonnie View Farm Duroc-Jerseys: Boars and gilts. Plymouth Rocks: 100 cockerels. Searle & Cottle, Berryton, Ks.

Deep Creek Herd Durocs Extra choice early fall pigs now ready to ship from dams sired by State Fair Champion boars. Satisfaction guaranteed. C. O. ANDERSON, MANHATTAN, KANSAS

BIG TYPE DUROC-JERSEYS Spring males at \$25; summer pigs \$10, trios \$25; fall boars, good ones at \$30 to \$40; yearling sows, open or bred. Every hog shipped on approval. Satisfied customers in 22 states. Red Polled cattle, cheap. GEO. W. SCHWAB, CLAY CENTER, NEB.

TATARRAX HERD DUROCS The finest lot of Fall pigs we ever offered, either sex. Most of them by the Grand Champion Tattarrax. Bred sows and gilts priced for quick sale. HAMMOND & BUSKIRK, Newton, Kansas

College Hill Durocs Bred sows and gilts for spring farrow for sale. Popular breeding. Farm adjoins agricultural college. Prices right. W. W. BALES & SONS, MANHATTAN, KAN.

FALL BOARS BY DREXEL'S PRIDE the sire of my show hogs. Spring pigs by him and Queen's Wonder 112317, a sensational Crimson Wonder Again yearling. All choice and priced right. W. T. HUTCHISON, CLEVELAND, MO.

Leon Carter, Asherville, Kan. Duroc-Jerseys. Oldest herd in Mitchell county. Plenty of new breeding in my bred sow sale Thursday, Jan. 30. 45 head. Write for catalog.

Good E Nuff Again King 35203 The great Duroc boar of the West heads our herd. 25 gilts and 20 boars sired by him. 8 tried sows and 12 fancy gilts bred to him for sale. Herd boars and show prospects a specialty. Prices right. W. W. OTEY & SONS, WINFIELD, KAN. "The Men with the Guarantee."

Bancroft's Durocs We hold no public sales. Nothing but the best offered as breeding stock. Tried sows and fall yearlings bred. Spring gilts bred or open. Fall pigs, either sex. Pairs or trios not akin. Prices right. Customers in 6 states satisfied. Describe what you want. We have it. D. O. BANCROFT, OSBORNE, KANSAS.

Stith's Durocs 200 head from which to select. Fashionable blood lines. Strong in blood of prize winners. Let me supply you with show yard type or the farmer's kind. Sows and gilts bred to my herd header, Model Duroc, and other good sires. Fall pigs, pairs or trios, priced for quick sale. Write today stating your wants. CHAS. STITH, EUREKA, KAN.

Duroc Bred Sows At private sale, bred to King the Col., a 1,000 lb. boar, Col. Willetta by Prince of Cols. and Col. Gold, a line bred Col. The big kind with lots of quality; bred for March and April litters. C. W. HUFF, MONDAMIN, IOWA.

MISSOURI AUCTION SCHOOL LARGEST IN WORLD Special 4 weeks actual practice term, start at any time in January and finish in February. We now have a large class in attendance. W. B. CARPENTER, President, 14th and Grand Avenue - KANSAS CITY, MISSOURI

tem—self-regulator—Tycos thermometer—egg tester—safety lamp—nursery—strong egg trays—all these are practical and necessary contrivances for the production of the very strongest, healthiest chicks. The Belle City Incubator Co. also make the only double-wall brooder known, with hot water heat, platform and metal lamp. The company recommends getting the brooder and incubator at the same time, as the purchase of both is advisable in order to secure the very best results. In fact most successful poultry raisers feel that a brooder is practically as necessary as an incubator. "Hatching Facts" the interesting, instructive book prepared by Mr. Rohan, President of the Belle City Incubator Co., is well worth a careful reading by every man, woman or child who is raising poultry. This book gives valuable facts regarding money making from poultry with a small investment. It will be sent free on receipt of request by either letter or postal. Address Box 57, Belle City Incubator Co., Racine, Wis.

Covering Large Field.

Established 30 years ago the St. Joseph Plow Co. won perhaps the earliest success in the Southwest in the manufacture of agricultural implements. Farmers say they never saw a St. Joseph Plow Co. tool that did not "scour." But never as a western manufacturing institution has this company attracted as much attention as during the past year. About a year ago Herman S. Swanson, who had been a manufacturer of implements at Shenandoah, Ia., for seven years, went to St. Joseph and purchased this historic business. Mr. Swanson was not only a manufacturer but an inventor and is credited with inventing some of this country's most successful tools. It was Mr. Swanson who invented and made the first successful two-row wheel disk cultivator, in the production of which he labored for more than a year. He also invented the first steel grain dump and elevator used in this country. Both inventions are extensively used in all the leading agricultural states. Located in the best agricultural country in the world, his friends believe that Mr. Swanson should build one of the largest implement factories of the United States at St. Joseph. While his present plant occupies 40,000 feet of floor space and employs a small army of men, the demand for his products is growing so rapidly that a much larger plant is already in contemplation for next fall. It is said that few factories in America employ so high a grade of skilled labor and that the products of the institution indicate as much.

The 1913 Old Trusty Catalog.

The 1913 catalog of the M. M. Johnson Company of Clay Center, Nebraska, is out. It is the catalogue that tells about the Old Trusty Incubators and Brooders made by this company. It is difficult to speak or write of the history of the late M. M. Johnson and of the M. M. Johnson Company in sober language. It is one of the astonishing records of success in the business world. The Johnsons now have over 400,000 customers, and the number this year promises to reach a full half million, for the present indications are that more of the Old Trusty incubators will be sold in 1913 than in any previous year. Of course all this could not have happened except on the basis of merit. As Mr. Johnson says: "The Johnsons might have sold 10,000 poor incubators, or 20,000 fairly good incubators, but they never could have sold nearly half a million if the quality wasn't the highest." Incubator concerns that made inferior incubators haven't lived long enough to make 500,000 incubators nor 50,000. The little town of Clay Center, Nebraska, has about 1,200 people. The M. M. Johnson Company is the biggest thing in town and has made Clay Center famous. The town is loyal to the company and proud of its wonderful record. The company now employs 350 people in its big factory, the largest exclusive incubator factory in the world. The factory is as up-to-date as factories in the largest cities. It not only has its own electric lighting system, but it furnishes electricity to the town of Clay Center. It has its own printing plant in which its catalog and other literature are published. We shall not say anything here about the incubator itself. The catalog tells the whole story and tells it most convincingly. It is a wonderful catalog and no mistake. It contains 300 fine illustrations. These are of the factory and of the Old Trusty Incubator and Brooder, showing all the working parts and the principles upon which the incubators are built, but most of the illustrations are of actual hatches of chicks by users of the Old Trusty in all parts of the country. They furnish the most convincing proof of the fact that the Old Trusty does the business. These illustrations are also accompanied by letters from enthusiastic users of the Old Trusty. Send for the Old Trusty catalog. That is the sum of all we are trying to say. It is the most unique catalog you ever read and if you get it you'll read it all. The Old Trusty advertisement appears on page 11 of this issue. When you write for your free copy say you saw the offer in this paper. A postal card will do.

The "How" and "Why" of Getting Eggs.

A question often asked of men who are making good money by keeping hens is: How do you do it? Now, this is a natural question, for thousands of persons have tried poultry culture and failed at it; and thousands who haven't tried it, would like to try it if only they knew just how to make it go. For, beyond question, no quiet, respectable business is more inviting to the average man or woman with a back yard or a small lot, than poultry culture. So this short article is meant to give a few substantial facts to beginners in poultry culture, and thus to try to put them on the right track at the start. One thing is worth remembering, right here, and that is this: Take all the information available on the subject of poultry culture and give it due consideration, but—temper your study with common sense and practice only those teachings which seem reasonable. If you do this, you will avoid a hundred pit-falls which have more than once proved the undoing of the over-enthusiastic. So go slow and go sure. Now as to what the would-be keeper of hens should do. We will pass lightly over cleanliness and warm houses, variety of foods and pure water, sufficient grit and green stuff (for these are the things that your common sense has told you must be properly attended to,) and we will come right down to the essential thing—the one principle on which all poultry success is founded. We can describe it to you in two words: good digestion. For a hen, like a cow or steer, must possess a

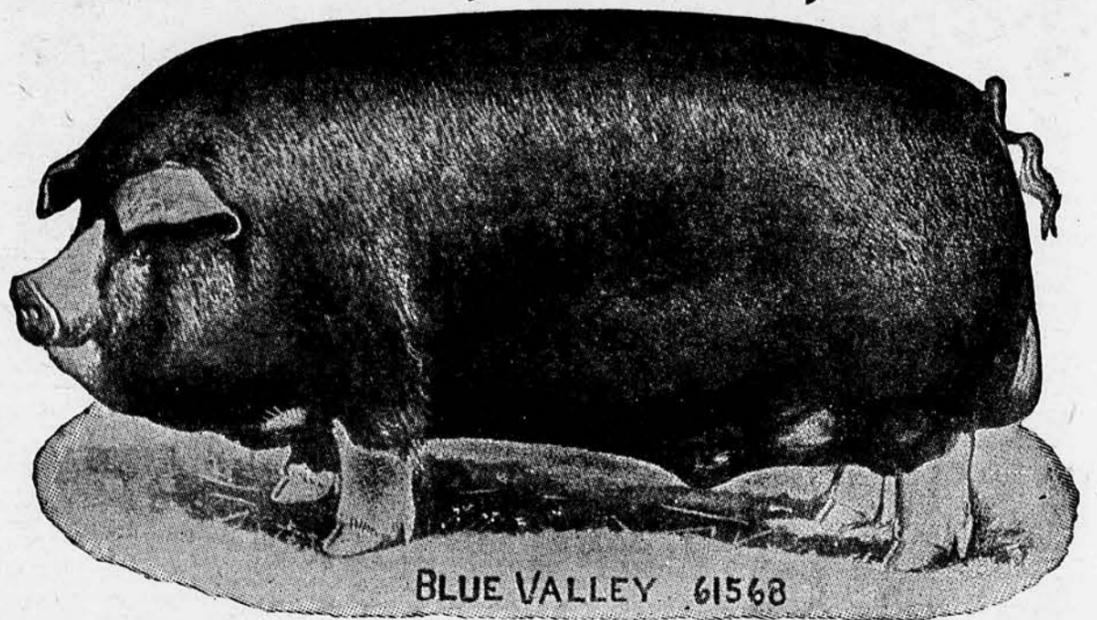
Thos. F. Walker & Son's Sale

Big Type, Big Litter

Poland China Sows

The biggest of the big that have the quality.
Annual sale of 55 head at Smith's Sale Pavilion,

Fairbury, Neb., Saturday, Feb. 15



The offering consists of 55 head of the choicest fall gilts, spring gilts and tried sows we ever offered. All bred and raised by us. All are bred to one or the other of our herd boars for February, March and April farrow. Also three Herd Header Material boars (September farrow) will be in the sale. They are by Blue Valley. Fifteen daughters of Blue Valley, bred to Blue Valley's Orange, by Big Orange. Twenty big, choice sows and gilts bred to Blue Valley, the King of herd boars. This is absolutely the best lot of bred sows we have ever made and the records show what we have done along that line. For Catalogs address

THOS. F. WALKER & SON, Alexandria, Neb.

Auctioneers—H. S. Duncan, Clearfield, Iowa; C. W. Smith, Fairbury.
Send Bids to J. W. Johnson, care Thomas F. Walker & Son, Fairbury, Neb.

BERKSHIRES.

Hazlewood's Berkshires!
Choice spring boars and gilts priced to sell. Write today. W. O. Hazlewood, R. 8, Wichita, Kansas

WAITE'S BERKSHIRES.
Choice young Boars and Gilts, also tried sows. Best famous Roblnhood Blood. We guarantee satisfaction. Call or write LEON A. WAITE, WINFIELD, KAN.

GOOD SOWS BRED

to champions and grand champions. I also have some splendid fall pigs that I will sell single or in pairs no kin.

C. G. NASH, Eskridge, Kan.

BERKSHIRES, SHORT-HORNS and JERSEYS

FOR SALE—25 boars by Roblnhood Premier 2nd or Rival's Lord Premier, and out of sows representing such sires as Imported Baron Compton, Berrington Duke and Premier Longfellow. Also a choice Shorthorn bull calf by Silk Goods and out of a show cow.

W. J. GRIST, ::: OZAWKIE, KANSAS

POLAND CHINAS.

ALBRIGHT'S BRED SOWS AND GILTS
20 gilts bred to one of the good sons of Big Tom and Sensation; 8 tried sows bred to Cavett's Mastiff by King Mastiff. One extra good sow bred Oct. 16th. A. L. ALBRIGHT, WATERVILLE, KAN.

POLAND CHINAS!

Bred sows at private sale. Also fall and spring boars. Sows bred to Tom Lipton, Welcomer, Iron Clad 2d and others. Priced right. Ask for prices and descriptions. **JOSEPH M. BAIER, ELMO, KANSAS.**

POLAND CHINAS.

QUALITY and SIZE Big, Smooth Polands, bred sows and summer pigs for sale. **LAMBERT BROS., SMITH CENTER, KANSAS.**

Big Type Poland China

BRED SOW SALE JAN. 25.
45 head. Every one a good one. 35 head bred to the 1,000-pound Columbus. Send today for catalog. **R. B. BAIRD, CENTRAL CITY, NEB.**

Fall and Summer Pigs For Sale

Sired by my Iowa boar. Extra good and out of my mature sows. Everything immune. Also Rhode Island Red cockerels for sale. **L. E. KLEIN, ZEANDALE, KANSAS.**

HARRY HOAK'S POLAND CHINAS

A few large, Big Type boars, also some good sows and gilts bred for early litters. Fashionable Big Type breeding and priced right to buy. Call or write today! **HARRY HOAK, Attica, Kansas**

Dean's Mastodon Polands

Poland China hogs, the big-boned type, will weigh when mature, 800 to 1,000 lbs. Will sell a few boars of serviceable age, also choice brood sows and gilts, bred to my herd boars, for spring farrow. All

Immunized by Double Treatment

Herd headed by Mastodon Price, Columbia Wonder and Gritter's Longfellow 3d. Everything guaranteed and sold worth the money. Address **CLARENCE DEAN, WESTON, MISSOURI**

Summer and Fall Pigs!

of both sexes. Priced to sell. Everything registered. Best of breeding. **F. C. GARRETT & SON, Bloomington, Neb.**

Big Boned Bred Sows

March and February gilts sired by Gold Mine, bred to Pan Look and Wide Awake; also, tried sows bred to Gold Mine. **Dietrich & Spaulding, Richmond, Kansas.**

POLAND CHINAS.

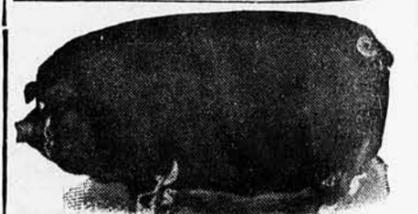
PUBLIC SALE of 40 high-class Poland China Sows to be held at Rich Hill, Mo., February 21st by **W. Z. BAKER.** Send for Catalog.

BROOD SOWS For Sale

Ten tried brood sows, ten fall gilts and ten early spring gilts all safe in pig to Forrest Wonder and Long King. Big Poland Chinas at reasonable price. Will not hold a winter brood sow sale. These are priced to sell. Our herd boars are Designer, Good Medal and Major Look. **C. S. NEVIUS, CHILES, KANSAS.**

Mammoth Poland Chinas

My herd boars weigh from 800 to 1,000 lbs. Am now ready to ship 200 of the big, easy feeding, quick maturing kind. Tried boars and sows, last fall boars and sows, and spring pigs of both sexes. My terms are: If you are not satisfied return the hog, and I return your money. **F. P. ROBINSON, MARYVILLE, MISSOURI**



A few fall males by Defender. Bred sows at reasonable prices. **PHIL DAWSON, SO. ST. JOE, MO.**

POLAND CHINAS.

LARGE WITH PLENTY OF QUALITY. Handsome young boars, gilts bred or open. Best of large type blood lines. Some boars, herd headers. Satisfaction guaranteed on all breeding stock.
OLIVIER & SONS, DANVILLE, KANSAS.

ROY JOHNSTON of South Mound, Ks., Sells Sixty Bred Sows, Jan. 20. Write for catalog.

NEBRASKA TYPE. A fine lot of summer and fall pigs by Hyden's Big Hadley 2nd, Pan Wonder and Neb. Chief. Bargains in the best. **C. C. Ingram, Bloomington, Neb.**

POLAND CHINAS Select young boars. Gilts, bred or open. Prices right. Call or address **H. L. BROOKS, LARNED, KANSAS**

HARTMAN'S BIG-TYPE POLANDS Spring boars and gilts. Gilts bred or open. No fall sale. Three fall boars. Everything guaranteed.
J. J. HARTMAN, ELMO, KANSAS.

Becker's Poland Chinas Good spring boars. Fall yearling gilts, bred for early spring litters. Some nice spring gilts bred or open. Special prices on summer and fall pigs, either sex. **J. H. BECKER, NEWTON, KANSAS**

BIG TYPE POLANDS Summer and fall pigs both sex, strong in the blood of Big Hadley and A Wonder. Sows and gilts, the big, smooth kind, bred for early litters. Description guaranteed. Call or write **A. R. ENOS, Ramona, Kas.**

Schneider's Poland Chinas Can furnish choice summer and fall pigs, pairs or trios, not akin, by Guy's Expansion and Goldust Hadley. Also 10 head of yearling sows bred to these boars. **JOE SCHNEIDER, Nortonville, Kansas.**

Polands—Barred Rocks Summer and fall pigs by Referendum and J. C. Metal and out of choice sows. Priced to sell. Also 50 Barred Rock Cookers.
A. N. Waechter & Son, Riverton, Neb.

HAMPSHIRE.

Pure Bred Hampshires Inspect our herd or write for prices. Our motto is to please. **ALVIN LONG, Lyons, Kansas.**



WRITE J. F. PRICE, Medora, Kans. For prices on Pedigreed Hampshire Hogs

Try The White Belts

Special prices on boars. Sale of bred sows and gilts
January 23, 1913
I. W. Lavelock, Princeton, Kas.



Registered Hampshire Hogs For pedigree Hampshire hogs, write **C. E. LOWRY, Oxford, Sumner Co., Kans**

O. I. C. SWINE.

40 Choice O. I. C. Pigs **H. W. Haynes, Meriden, Kan.**

CHESTER WHITE HOGS Good quality, either sex, the short nose kind. Write for prices. **FRANK PROCHASKA, Glasco, Kans.**

STAR HERD O. I. C's. Breeding stock of various ages, either sex. Best breeding stock, sented in this herd. Write your wants.
ANDREW KOSAR, GLASCO, KANSAS.

JULY GILTS AT \$20 or will hold and breed at \$25. Pigs 8 weeks old at \$10, express prepaid. Breeding certificate with every pig. **F. C. Gookin, Russell, Kan.**

O. I. C. 125 HEAD HOGS Pigs in pairs, Bred Sows and Service Boars
W. H. Lynch, Reading, Kansas.

Kent's Iowa Herd 200 good lengthy heavy boned bred sows for sale from my great State Fair prize winning herd bred for March and April farrow. It will pay you to write me today for prices and the way I will ship these hogs before paying for them. **Thos. F. Kent, Walnut, Ia.**

Neef's Cholera Proof O. I. C's.

Boars of all ages from 8 weeks to yearlings. Also prize sows bred and gilts bred or open. Can furnish pairs or trios, no kin. Herd headed by O. K. Perfection, by O. K. Winner, and Neef's Oak, by White Oak. All stock priced worth the money. **Riverside Farms, JOHN H. NEEF, Prop. Boonville, Mo.**

GALLOWAYS.

G. E. CLARK, W. W. DUNHAM, CAPITAL VIEW GALLOWAYS, 12 Miles West of Topeka. Can furnish car of good bulls ranging in ages from calves to 2-yr.-olds. Can suit your wants. Write **CAPITAL VIEW RANCH, Silver Lake, Kan.**

Fort Larned Herd 40 REGISTERED BULLS, 20 GALLOWAYS and 20 RED POLLS, 10 to 20 months old. Priced to sell. **E. E. FRIZELL, LARNED, KANSAS**

strong digestive apparatus, or she can't make proper use of food, is very likely to develop disease, and is certain to be unprolific. So the first, and we might say the constant aim of the hen man must be to strengthen digestion. And this is done most surely by giving, every day, small doses of Dr. Hess Poultry Pan-a-ce-a in the warm mash which you feed your hens. Many poultry keepers resort to condiments and stimulants in an effort after a greater egg yield, never thinking that in this way they are usually hastening a time when, because of overtaxed and under-nourished organs, there will be no eggs. By far the better way, and the only one that's proved worth while, is the way just spoken of, known among poultrymen the country over as the "tonic idea." For that's what Dr. Hess Poultry Pan-a-ce-a really is—a tonic—a positive aid to the process of digestion. Its use eliminates food waste and makes food economy a fact. It causes so great a proportion of the daily ration to digest that egg production is increased without a resort to hurtful stimulants. All of which proves Dr. Hess Poultry Pan-a-ce-a to be a pretty good thing to investigate.

Closing Series of Institutes

The present farmers' institute season in Kansas will close about March 12 and will complete a schedule of nearly 400 institutes held during the season of 1912-'13. The remaining dates, places of meeting, and names of speakers follow:

NORTHWESTERN CIRCUIT—Gaylord, Feb. 4; Kirwin, Feb. 5; Lenora, Feb. 6; Logan, Feb. 7; Agra, Feb. 8; Alma, Feb. 10; Long Island, Feb. 11-12; Selden, Feb. 13; Athol, Feb. 14; Scandia, Feb. 15. Mr. W. A. Boys and Mrs. Mary Simmons, speakers.

WESTERN CIRCUIT NO. 1—Little River, Feb. 4; Clifton, Feb. 6; McCracken, Feb. 7; Brownell, Feb. 8; Utica, Feb. 10; Healy, Feb. 11; Beeler, Feb. 12; Alexander, Feb. 13; Rush Center, Feb. 14; Sterling, Feb. 15. Mr. Geo. C. Wheeler and Miss Adah Lewis, speakers.

CENTRAL CIRCUIT, NO. 1—Oak Hill, Feb. 11; Miltonvale, Feb. 12; Concordia, Feb. 13; Jamestown, Feb. 14; Glasco, Feb. 15. Mr. Edw. C. Johnson and Mr. A. S. Neale, speakers.

SOUTH CENTRAL CIRCUIT NO. 1—Haviland, Feb. 11; Bucklin, Feb. 12; Ford, Feb. 13; Dodge City, Feb. 14-15; Spearville, Feb. 17; Offerle, Feb. 18; Lewis, Feb. 19; Macksville, Feb. 20; Stafford, Feb. 21; Hudson, Feb. 22; Turon, Feb. 24; Nickerson, Feb. 25; Raymond, Feb. 26. Mr. C. D. Steiner and Mr. H. E. Walker, speakers.

SOUTH CENTRAL CIRCUIT NO. 2—Haven, Feb. 3; Maize, Feb. 4; Valley Center, Feb. 6; Sedgwick, Feb. 6; Goddard, Feb. 7; Cheney, Feb. 8; Viola, Feb. 10; Anson, Feb. 11; Attila, Feb. 12; Harper, Feb. 13; Cunningham, Feb. 14; Arlington, Feb. 15. Mr. George O. Greene and Miss Florence Snell, speakers.

SOUTH CENTRAL CIRCUIT NO. 2—Pratt, Feb. 4 and 5; Mullinville, Feb. 6; Kingsdown, Feb. 7; Minneola, Feb. 8; Liberal, Feb. 10-11; Meade, Feb. 12-13; Greensburg, Feb. 14-15. Mr. P. E. Crabtree and Dr. T. A. Case.

EASTERN CIRCUIT—Valley Falls, Feb. 11; Gardner, Feb. 13-14; Homewood, Feb. 15. Mr. A. R. Losh and Mr. Geo. S. Hine, speakers.

WESTERN CIRCUIT NO. 2—Wilson, Feb. 24; Russell, Feb. 25-26; Hays, Feb. 27-28; Ellis, March 1; Grainfield, March 3; Grinnell, March 4; Sharon Springs, March 5-6; Russell, March 7; Monument, March 8; Colby, March 10-11; Morland, March 12. Mr. W. A. Boys and Mrs. Mary Lane Simmons, speakers.

SOUTHWEST CIRCUIT NO. 2—Cimarron, Feb. 24-25; Garden City, Feb. 26-27; Lakin, Feb. 28-March 1; Syracuse, March 3-4; Johnson, March 5; Richfield, March 6-7; Hugoton, March 8; New Ulysses, March 10; Santa Fe, March 11. Mr. P. E. Crabtree and Miss Florence Snell, speakers.

Parcels Post "Don'ts"

Don't try to ship a package weighing more than 11 pounds.

Don't ship a parcel greater in size than 72 inches in length and girth.

Don't place common stamps on your package to be sent by parcels post.

Don't forget that seeds, cuttings, bulbs, roots, scions, and plants are to be shipped as formerly.

Distinctive stamps are to be issued for this purpose and these stamps only must be used.

Parcels with ordinary stamps on them will be treated as matter "held for postage" and will not be forwarded.

Don't forget to put a return card on the parcel. The name of the sender must be on all packages otherwise they will not be accepted.

Don't send matter of a perishable character—that is perishable within a period reasonably required for transportation and delivery.

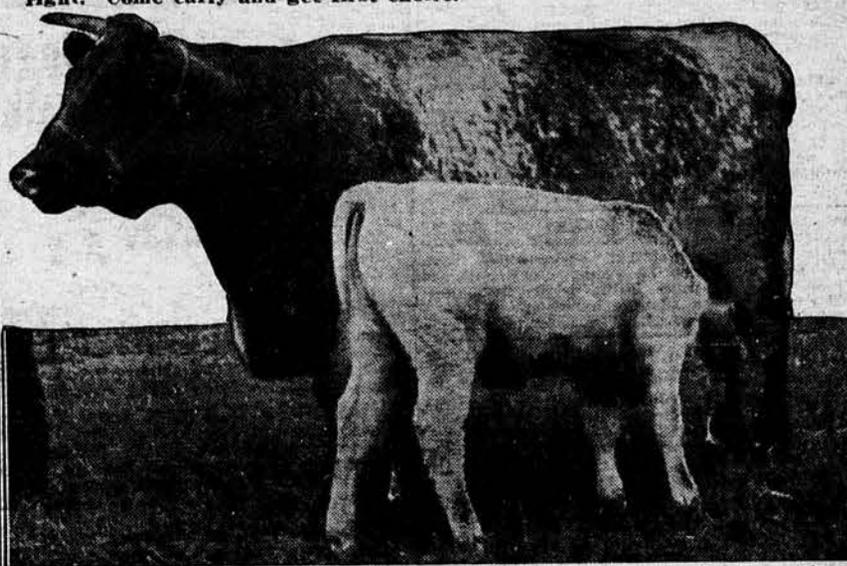
Don't put a package in the mail that in form or kind will injure the person of the postal employe or damage the mail equipment or injure other mail matter.

Lookabaugh's Shorthorns

Sold on Time at Private Treaty

Six or nine months if desired. What we want is your trial order. We don't need the money. We want you to come and buy. We want regular customers and shall try hard to please you.

Young Heifers and Bulls at \$50, \$75 and \$100 each. Two Heifers and a Bull, not related, \$200 for the three. Herd Header Material is Scarce. We have a few. They are priced right. Come early and get first choice.



Over 200 Head From Which to Select

A great variety of prize winners and prize winning blood. Breeding stock of both sexes and all ages. If you want breeding stock don't miss this opportunity. As many good Shorthorns cannot be seen on any other farm in the whole Southwest.

Cows with Calf at Foot and Re-bred. Richly Bred Young Things, Show Prospects. Handsome Young Bulls, Herd Header Material. Rugged Young Bulls, the Farmer and Stockman Kind.

In fact a splendid array of foundation Shorthorns, that carry the blood of the best families and the most noted sires of the breed. Don't wait, but come and get your first pick. Visitors always welcome at Pleasant Valley Stock Farm. Write your wants today. Address

H. C. Lookabaugh, Watonga, Okla.

Herd Established Over 25 Years Evergreen Crest Galloways

Twenty cows and heifers for sale, either registered or high grades. All two years old and over are bred to Flagstaff 29205 and Sally's Othello 33696. Anyone desiring a herd of breeding cows should inspect this offering. Also two yearling bulls for sale. **J. & W. R. CLELLAND, NEW HAMPTON, MISSOURI.**

Holstein Cows and Heifers at Bargain Prices!

On account of shortage of ensilage crop in N. Y. state I am shipping west 300 head of high-grade Holstein heifers and cows, 2 to 5 years of age. These are arriving in lots of 50 every week and I will make attractive price to men that can handle a carload. All tuberculin tested and bred to registered bulls. Also a few registered bulls ready for service. **ROCK BROOK FARM, STA. B, OMAHA, NEB.**

HEREFORDS.

BLUE GRASS Herefords STOCK FARM Cows, Heifers and young bulls for sale. 160 head in herd. Breeding matrons by Millant, Lamplighter, Shadland Dean 23d, Gentry Briton 6th, Hesiod 2d and Wilton Almo 6th. Visitors Welcome.
W. T. WRIGHT, Route 8, Mt. Pleasant, Iowa.

Klaus Bros.' Herefords! We offer 16 head of strong, rugged bulls, herd header material, ready for service, sired by Fulfiller 3rd, Fulfiller 25th and Beau Onward. Priced right and worth the money.
KLAUS BROS., BENDENA, KANSAS.

Mathews Herefords

We are offering 20 registered heifers about 11 months old. ANXIETY 4th blood predominates.
FRED MATHEWS & SONS, Kinsley, Kan.

Star Breeding Farm Herefords Headed by Tophon 4th. 90 Bulls, 14 to 30 mos. Single or carloads. Can spare a few females in lots to suit buyer.

DUROCS Of most fashionable breeding headed by Model Top 77405. Choice individuals of both sexes for sale at all times.

Sam'l Drybread, Elk City, Kansas

Modern Herefords

ROBT. H. HAZLETT

Hazford Place Eldorado, Kansas

ABERDEEN-ANGUS.

Angus Bulls For Sale sired by Rutger Heatherson 3d 118104, Presto 2d 133774 and Professor Kurtz 135693. Ready for service including two choice Blackbirds. Priced right. Satisfaction guaranteed.
W. G. DENTON, DENTON, KANSAS.

ANGUS CATTLE

Bulls and females for sale; singly or in carload lots. Address **SUTTON & PORTEOUS Lawrence, Kan.**

SHORTHORNS.

SHORTHORN CATTLE POLAND CHINA SWINE and CLEVELAND BAY HORSES. All stock pedigreed. Prices reasonable. **Thos. B. Murphy & Sons, Corbin, Kan.**

Shorthorns, Bulls and Heifers.

Young bulls 8 to 20 months old, also a few well bred heifers, some of my State Fair winners at Topeka and Hutchinson last year. They are the kind you will like. Write or call soon.
JOHN REGIER, WHITEWATER, KANSAS.

SHORTHORNS

8 bulls from 12 to 18 months. Roans and reds. Scotch Tops. Address, **L. M. NOFFSINGER, OSBORNE, KAN.**

SCOTCH AND SCOTCH TOPS

Young Bulls, Scotch and Scotch Topped. Also a few choice Cows and Heifers. Also 25 registered Poland China Fall Pigs of both sexes. Immune. Write for prices. **S. B. AMCOATS, CLAY CENTER, KANSAS**

Pearl Herd of Shorthorns

I have a select bunch of young bulls from six to 20 months old, well bred, well grown and the making of good useful animals. They are both reds and roans. Can ship via C. R. I. & P., A. T. & S. F., U. P., and Mo. Pac. Address

C. W. TAYLOR

ABILENE : : KANSAS

RED POLLED CATTLE.

Foster's Red Polls Write for prices on breeding stock.
C. E. FOSTER, R. R. 4, Eldorado, Kansas.

RED POLLED BULLS

and heifers by Actor 7781 and Launfal 13221. Cows large, plenty quality, represent best milking families. Also large type POLAND CHINAS. Pigs. Write or come.
CHAS. MORRISON & SON, Phillipsburg, Kan.

DAIRY CATTLE.

HOLSTEINS FOR SALE—30 head of registered heifers and males, also 73 head of fine bred heifers and young cows, \$58.50 and up. Come and see them. M. P. KNUDSEN, CONCORDIA, KANSAS.

BANKS' FARM JERSEYS

Quality with milk and butter records. One of the best sons of CHAMPION FLYING FOX, imported, at head of herd. Stock for sale. W. N. BANKS, Independence, Kan.

LINSCOTT JERSEYS

Only registered herd of merit in Kansas. A grand son of Golden Fern's Lad—bred for butter—and 20 cows and heifers for sale at moderate prices. E. J. LINSCOTT, HOLTON, KANSAS

OAK HILL HOLSTEINS

Bulls ready for spring service by Shadybrook Gerben Sir Korndyke out of A. R. O. dams. Heifers bred. Also a few fresh cows. All tuberculin tested. BEN SCHNEIDER, NORTONVILLE, KAN.

HOLSTEINS —CHOICE BULL CALVES

H. B. COWLES, TOPEKA, KANSAS.

HOLSTEINS FOR SALE

Bred yearling heifers; 2-year-olds, fresh this winter; 25 young cows, milkers and springers; also bulls, high-grade and registered, up to 18 months of age. IRA ROMIG, Sta. B., TOPEKA, KANSAS.

Holsteins!

I will sell the following high grade Holsteins, many of them practically full bloods, and in good condition; 50 yearling heifers and 50 1 1/2-year-old heifers just being bred to a son of a 24 lb. dam; 100 2 to 2 1/2-year-old heifers and 100 2 1/2 to 3-year-old heifers bred to a high class registered bull, to freshen from Dec. 1st, 1912, to March 1st, 1913. 100 matured cows, very heavy producers, springing up ready to freshen soon, most of them in calf from registered bulls. A number of high colored registered bulls, ranging in age from 6 months up, out of heavy producing dams, and selected especially to head choice herds. Can fill any order from one animal up. Have a small surplus of excellent registered cows and heifers. I will dispose of. Also have 100 head of high grade Guernsey cows and heifers from yearlings up. Write me regarding your wants. JAMES DORSEY, Giberts, Illinois

POLLED DURHAMS.

Polled Durham Bulls

Six well bred young bulls and a limited number of cows and heifers for sale. C. M. HOWARD, HAMMOND, KANSAS.

Prize Winning Polled Durhams

One yearling bull and several bull calves sired by Roan Choice (Jr. Champion of 1911), also a few young cows and heifers. All from the greatest show and prize winning herd in Kansas or the West. C. J. WOODS, CHILES, KANSAS.

JACKS AND JENNETS.

Kingfisher Valley Stock Farm 50 registered big boned black jacks and jennets from colts to 16 hands; no better anywhere. Prices right. J. H. SMITH, Route 3, Box 17, Kingfisher, Okla.

Big Bone, Kentucky, Mammoth Jacks, Saddle Stallions, Mares and Geldings. Visit the Cloverdale Farm and save two or three large profits. H. T. BROWN & CO., Lexington, Ky., Box B.

JACKS AND JENNETS

20 head good black jacks for sale, ages from 2 to 5 years; large, heavy-boned, broken to mares and prompt servers. Prices reasonable. Come and see me. Barns 2 miles of town. PHIL WALKER, Moline, Elk Co., Kan.

Oakland Stock Farm

has 30 Jacks. In their every-day clothes just as you would find them on any real breeding farm, ready for sale. Come and see them and I will sell them to you, good ones all the way from \$400.00 up; cash or time. OAKLAND STOCK FARM, Chillicothe, Mo.

POLK COUNTY JACK FARM

Has a nice lot of black Jacks, coming three and four years, 14 1/2 to 16 hands high, good bone and body. Will be sold cheap. Address R. M. JOHNSON, owner, BOLIVAR, MO.

JACKS AT PRIVATE SALE

If you want the good kind, come to one of the oldest breeding barns in the state, where you will find the large, big boned, black fellows that will do your country good, at prices you can afford. G. M. SCOTT, Rea, Mo.

Market Probabilities

(Continued from Page 49.)

green, selfworking corn is quoted at \$30 to \$100 a ton; fair to good, selfworking \$45 to \$85 a ton; common to fair \$20 to \$40 a ton.

Livestock in Kansas City.

The cattle market last week was dull in the killer's lines, and at mid-week there was considerable contraction in the feeder movement but this was eliminated later, on thin cattle, and fat grades, showed a 15 to 25 cent net loss. Good to choice fat steers are quoted at \$7.75 to \$8.50, fair to good \$7.25 to \$7.70, common to fair \$6.50 up. On the quarantine side the top price was \$7.25 and most of the steers sold at \$6.50 to \$7.20. Cows sold at \$3.75 to \$7, heifers \$4.25 to \$7.50, bulls \$3.35 to \$6.50 and calves \$5 to \$10.50. Most of the feeding steers brought \$6.75 to \$7.50 and stockers \$6.50 to \$7.25. Stock cows sold up to \$5.25 and stock heifers up to \$6.50.

Hog prices Saturday were about the same as at the close of the preceding week, quality considered, and 10 cents under Tuesday, the high day. The top price was \$7.37 1/2, and bulk \$7.25 to \$7.35. The following table shows the range in prices of hogs last week and in the preceding week:

Table with columns: Day, Last week, Preceding wk. Rows: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.

Fluctuations of 25 to 35 cents in sheep prices with no important net change was the market last week. Demand has been fairly active and receipts have been fairly large. Choice fat lambs are \$7 to \$7.75, ewes \$4.75 to \$5.65, and wethers \$5.50 to \$6.25.

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

Table with columns: 1913, 1912, Inc., Dec. Rows: Cattle, Calves, Hogs, Sheep, H. & M., Cars.

Livestock in St. Louis.

A big quarter came off steer prices last week and at the close the market was especially dull. St. Louis has been receiving liberal supplies of plain Southern cattle and thus far this year total receipts are ahead of the same period last year. Native beef steers are quoted at \$5.50 to \$9, cows and heifers \$4.50 to \$7.75; stockers and feeders \$5.25 to \$7. Texas and Indian steers, quarantine, \$5.50 to \$7.65; Texas and Indian cows \$3.75 to \$5.75; veal calves \$5 to \$10.75.

Saturday the top price for hogs was \$7.60; light weights sold at \$6.50 to \$7.00; butchers \$7.45 to \$7.60 and heavy hogs \$7.50 to \$7.60, or practically the same as at the close of the preceding week.

Mutton grades early last week reached the highest levels of the season, but there was a sharp depression after Tuesday. Lamb price fluctuations were less severe and general net loss for the week was 15 to 25 cents. Lambs are quoted at \$7 to \$9.25 and sheep \$5 to \$6.50.

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

Table with columns: 1913, 1912, Inc., Dec. Rows: Cattle, Hogs, Sheep, H. & M., Cars.

Livestock in St. Joseph.

The cattle market last week lacked energy and prices most of the week were shaded to a net loss of 15 to 25 cents closing at the low quotations of the season. Beeves are quoted at \$6.50 to \$8.75; cows and heifers \$3.75 to \$7.75; calves \$5.50 to \$9.25.

Close to 3,500 hogs were received Saturday and sold at \$7.25 to \$7.35, the high part of the bulk reaching up to the highest sales made. Compared with the close of the preceding week prices were steady.

Moderate receipts of sheep last week met with a fairly active demand, and prices fluctuated 10 to 15 cents. Closing prices were about the same as at the close of the preceding week. Lambs are quoted at \$7.50 to \$8.50 and sheep \$5 to \$6.25.

The following table shows receipts of livestock in St. Joseph thus far this year compared with the same period in 1912.

Table with columns: 1913, 1912, Inc., Dec. Rows: Cattle, Hogs, Sheep, H. & M., Cars.

Butter, Eggs and Poultry.

Elgin, Jan. 27.—Butter this week is firm at 35 cents. Kansas City, Jan. 27.—Prices this week on produce are:

Eggs—Firsts, new white wood cases included, 21 1/2 @ 22c a doz.; seconds, 13 @ 14c. Butter—Creamery, extras, 31 @ 32c a lb.; firsts, 28 1/2 @ 29 1/2c; seconds, 26 1/2 @ 27 1/2c; packing stock, 18 1/2 @ 19c.

Live Poultry—Broilers, 14 1/2 @ 15c a lb.; spring chickens, 12 @ 13c; hens, 11 1/2 @ 12c; young roosters, 9 1/2 @ 10c; old roosters, 8 @ 8 1/2c; young turkeys and turkey hens, 16 1/2 @ 17c; old toms, 13 @ 14c; cull turkeys, 7 @ 8c. Rabbits—No. 1, \$1.25 @ 1.50 a dozen if drawn; No. 2, 75c.

Produce Prices Now and One Year Ago.

Table with columns: Chicago, Kan. City, 1913, 1912, Hens, Eggs. Rows: Butter, Eggs.

JACKS AND JENNETS.

Jacks and Jennets

One of the largest selections of large Black Mammoth Jacks in the West, 15 to 16 hands standard. I have the large kind that all are looking for; the kind that bring the large high-class mule. Reference: the five banks of Lawrence. AL. E. SMITH, LAWRENCE, KANSAS.

Mammoth Jacks and Jennets For Sale

From 2 to 5 years—big boned, black Jacks with white points. No better bred ones in the country. Several of them are prize winners. Been breeding Jacks for 30 years. Mention this paper and write or come to DEERLING & OTTO, Schuyler County, QUEEN CITY, MO. On Des Moines Line Wabash Railroad.

PUREBRED HORSES.

Percheron and Belgian Stallions and Mares. Easy terms. HART BROS., OSCEOLA, IOWA

200 Percherons Stallions and Mares Singmaster & Son, Keota, Iowa

FOR SALE One Registered Percheron Stallion, coming 5 years old and one black Jack, coming 5 years old. W. M. DICE, TECUMSEH, KANSAS.

Clydesdale Stallions and Mares

I have a number of Clyde Stallions, many of them of my own raising, that I will sell at less than 1/2 of the regular importer's prices. R. O. MILLER, LUCAS, IOWA.

Grand Percheron Stallions

I will sell my two stallions, Sporty and Frank, both by Castillon 27318 (46308). Sporty weighs 2,000 pounds and Frank 1,800 pounds. Both good breeders and both passed as sound by State board, 5 years old. Will sell on account of my health. M. H. GERJETS, SOUTH HAVEN, KANSAS

Truman's Pioneer Stud Farm

America's Largest Importers Shire, Percheron and Belgian Horses Write for Illustrated Catalogue. TRUMAN'S, Box E, BUSHNELL, ILLINOIS

COTTINGHAM & SONS

will sell at their 17th Annual Sale, February 18th, 1913, at 1 o'clock sharp 35 head of draft horses, brood mares and drivers; 2 registered Percheron mares, large; 1 registered Percheron stallion 7 years old, weighs 2,000. 1 span of Morgan bred geldings, broke single and double; 4 yrs. old. Address. COTTINGHAM & SONS, McPHERSON, KANSAS.

Percheron, Belgian, Shire and Coach Stallions and Mares

15 years in the horse business. Never had a law suit, have never sued a man for collection. Each sale is accompanied with a genuine good guarantee from Nolan. Our horses are from one to five years old. J. M. NOLAN, PAOLA, KANSAS

CLOSING OUT SALE of JACKS and JENNETS

AT E. G. DAVIS & SON'S BARN Columbia, Mo., Thursday, Feb. 6, 1913 40 Head: 25 Jacks, old enough for service; 15 Jennets

Everything registered. 15 to 16 hands high. 2 to 6 years old. These Jacks are the tops of 3 states. They were bought at weaning time and several of them cost over \$500 a head at 5 months old. There are some herd-headers in this bunch, good enough to head any herd. As this is a closing-out sale everything will be sold without reserve or by-bid. You will find more Jacks in this sale with 9 to 9 1/2-inch bone than you ever saw in a sale of this size. For catalogue or other information address (mention this paper).

A. E. Limerick & Son or W. E. Bradford, Columbia, Mo. C. J. HIERONYMUS AND KEMP HIERONYMUS, AUCTIONEERS.

Advertisement for G. G. ROAN, Macon County, La Plata, Mo. My Fourth Annual Sale of JACKS and JENNETS of the Clover Leaf Valley Jack Farm will be held in my new sale pavilion at LA PLATA, MO., MONDAY, MARCH 10, 1913. I guarantee this to be the best offering I have ever made and to equal or surpass any offering made during the year 1913. Every one black with white points and registered and none under 15 hands high. All ready for service right now. Write for the finest catalogue of this class of stock ever gotten out. It gives the photograph of each animal and his breeding and more real truths than I could get into a five page advertisement costing thousands of dollars. I SELL MORE JACKS THAT PAY FOR THEMSELVES THE FIRST OR SECOND YEAR THAN ANY MAN IN THE WORLD. Write today. G. G. ROAN, Macon County, La Plata, Mo.

Oldenburg German Coach Horses

We are the oldest and largest breeders of the Oldenburg German Coach west of the Mississippi River. Our 1912 winnings at the leading western shows exceeded those of any other individual horse exhibitor. We have stallions and mares of serviceable ages for sale. Write us. **JOS. WEAR & SON, BARNARD, KAN.**

PIONEER STOCK FARM We have on hands at all times Percheron, Belgian, Shire and German Coach stallions and mares from weanlings to 6 years old. Imported and home bred stallions and mares weighing up to a ton or better. They are priced to sell; am selling all the time. Can show you. Come and see. **JOHN W. WADDILL & SON, (Adair County), BRASHEAR, MO.**

50 - PERCHERON STALLIONS - 50

Bishop Brothers have 50 big boned stallions that weigh 1,700 to 2,100 pounds that they can and will sell for less money than any firm in the business. We have them to sell. Write us. **BISHOP BROTHERS, Box A, TOWANDA KANSAS.**

Imported Percheron Stallions, Jacks and Jennets



FOR SALE: 5 imported Percheron stallions 4 to 6 yrs. old and all tried and regular breeders. Can show colts. Weight 1800 to 2200 lbs., one Morgan stallion 7 yrs. old. Ten head large black jacks two to seven yrs. old. All broke. Good performers. Can show colts and mares in foal. 10 head big black jennets all bred to our imported jack. Prices reasonable. Our horses and jacks were shown at the Hutchinson State Fair this year in six different classes and won in every class. Write or come to farm 4 miles from Raymond or Chase.



J. P. & M. H. MALONE, CHASE, KANSAS

Bergner & Sons' Coach Horses



65 Head German Coach Horses, with Size, Beauty and Action
A general purpose horse that fits the farmer's need. Write for further particulars. We are offering stallions at prices you will be able to pay for with proceeds of one season's stand. Also mares either single or in matched teams. Write or call soon. **J. O. BERGNER & SONS, "Waldock Ranche," Pratt, Kan.**

Imported Stallions: Percheron, Shire, Belgian

Each year we show our New Importation the same Month they land. Each year they win more than all other Exhibitors combined. At the American Royal this year, we won 2nd on 4-year-old Percheron, 1st, 3rd and 4th on 3-year-old, 1st and 3rd on 2-year-old, and 1st and Champion Group of Five Stallions. Our Horses are Handsome and the best to buy; Our Guarantee and Insurance the very best. **PERCHERON IMPORTING CO., Chas. R. Kirk, South St. Joseph, Mo.**

ROBISON'S Percherons

One hundred and fifty Registered Percherons - Stallions, Mares and Colts. Fifty imported. All for sale.

J. C. Robison, Towanda, Kan.



Mammoth Jacks, Percheron Stallions

33 Head of Jacks and Percherons



The Jacks are 3 to 6 years old and from 15 to 16 hands high.

Percherons are from 2 to 6 years old and weigh from 1800 to 2000 lbs.



We have the kind that will please you.

Write for prices before you buy. Farm and sale barn on 21st Street, 1 mile east of Wichita Union Stock Yards. Write today.

J. C. KERR, Wichita, Kansas

W. H. Bayless-Dero & Co.

Blue Mound, Kansas

Importers of Belgian and Percheron Stallions and Mares of all ages and Prize Winners in both Europe and America

We Have Fifty Head

The last importation arrived December 28, 1912



The fifty head is as good as can be found on either side of the water. We have a buying partner in Europe who has a large breeding farm and many of our best horses are bred on this farm. He also buys in the dull season, and buys everything young and sound. We can sell a better horse for less money than those not favored with this advantage, as we are the only ones who are connected with a breeding farm in Europe. Any one wanting either Stallion or Mare will find it to their advantage to visit our stables. We price them to sell, not to invoice. A good guarantee goes with every sale. Reference, any Bank in Linn County.

W. H. Bayless-Dero & Co., Blue Valley Stock Farm, Blue Mound, Linn Co., Kan.

(Two Railroads, eight trains per day.)

LAMER'S Percheron Stallions and Mares

75 Head of Imported and Home-Grown Percheron Stallions and Mares, at "let live" prices.

Two-year-olds that weigh a ton.



C. W. LAMER & CO. Salina, Kansas

The West's Largest Importing and Breeding Establishment. Importers and Breeders of

Percherons, Belgians and Shire Stallions and Mares

120 Head to Select from

Our Stallions and mares are strong and massive, with great quality, style and conformation, with splendid color and dispositions. They are selected with an eye single to the wants of the most critical American buyers, and we can sell them for less money than any one in the business, quality considered. The stallions will go into any community and command the best mares, command the men who are the best pay and who take the best care of their stock. Let us know your wants. We can suit you in both price and quality.

L. R. WILEY, Emporia, Kan.

DON'T PUT IT OFF ANY LONGER, BUT COME AT ONCE AND PICK A

Percheron or Royal Belgian Stallion or Mare

We have them to suit you if you are ever so discriminating. Our entries won 22 prizes at the late Nebraska State Fair; 3 champions, 8 firsts, 7 seconds, 2 thirds and 3 fourths. Prices are right. Photos from life on application.

WOLF BROS.

Importers and Breeders

ALBION, Boone County, NEBRASKA.



They Are So Different!

All Imported, both PERCHERONS and BELGIANS. Last importation arrived Sept. 1st. The selects of both countries. I buy my own horses. All sound, big, flat boned. Ages, two and three years. Prices reasonable. Perfect guarantee goes with each horse and for two years at that.

W. H. RICHARDS, V. S., (Stables in the City) Emporia, Kansas

Geo. W. Schwab's Duroc-Jersey Bred Sow Sale

Clay Center, Neb., Wednesday, Feb. 19

This is the date of his annual Duroc-Jersey bred sow sale. The sale will be held in his big private sale pavilion on the farm. The offering consists of 40 head of big type Duroc-Jersey bred sows and gilts. There will be several tried sows that are proven valuable and in their prime of usefulness, 12 fall yearlings that have nearly all raised litters the past fall and the balance picked spring gilts. The blood lines represented in this sale are Commodore Lad, Red Wonder, King's Defender, Freed's Col., Buddy K. 4th Wide Awake, W. L. A.'s Perfection, Gold Bond and a splendid son of Queen's Wonder, by Crimson Wonder Again, of spring farrow, called Cremo. These sows and gilts have been looked after personally along with my sows that I am keeping and are in splendid condition to prove money makers for their owners. They are bred to Buddy K. 4th Wide Awake, W. L. A.'s Perfection, Gold Bond and Cremo. An invitation is extended to all lovers of Durocs to attend this sale. It is the day following Geo. Briggs & Sons' sale and we are only seven miles apart. Catalogs ready. Address

GEO. W. SCHWAB, Clay Center, Neb.

Auctioneer, Col. Z. S. Branson, Lincoln, Nebr.
J. W. Johnson, Fieldman.

COMBINATION SALE! Percheron and Standard-Bred HORSES

LITTLE RIVER STOCK FARM
Halstead, Kan., Mon., Feb. 24

45 HEAD

18 Registered Percherons, Consisting of 7 Stallions, 5 of Serviceable Age, and 11 Head of Mares, Most of Them in Foal. Every One Registered in Percheron Society of America.

7 Head of Standard-Bred Stallions and Mares

All good prospects, such as Zelma, by Hallmont, by Falmont, 2:14½, and out of Cosinete, by Cosine, the sire of Sapphire, 2:13¼, and others; Merle Mack, by McHenry, 2:16, dam Gambrel, 2:10½. Also the 6-year-old stallion, Symbol Ash, and his full sister, Hazel Choche, will be sold; Cosinete, by Cosine, and a stallion by Gambrel, 2:01½, the leading speed sire of Kansas, also go in this sale.

Twenty Head of Grade Draft and Road Horses—An excellent bunch of work horses and a classy lot of roadsters. Send for Catalog today. Address

C. B. WARKENTIN, Newton, Kans.

Auctioneers—R. L. Harriman, J. P. Oliver.
Fieldman—A. B. Hunter.

Halstead is 10 miles west of Newton, Kan. Interurban service from both Wichita and Newton.

O. I. C. Bred Sow Sale

40 Head of Fall Yearlings and Tried Sows, Two Years Old.

Friend, Nebr., Friday, February 7

They were sired by U. S. 30079 and O. K.'s Defender, by O. K. Winner 15881, the great show boar, whose get is sought after all over the country. These sows and gilts are the tops of a much larger number and there is not a common individual in the offering. It is an offering of bred sows and gilts that won't be improved upon this season. The sows by O. K.'s Defender are bred to U. S. and the sows by U. S. are bred to Fairmont Chief, a big, lengthy, smooth boar weighing over 400 at 10 months in fair breeding condition. Every animal immuned. Catalogs ready. Address

CHAS. H. MURRAY, Friend, Nebr.

POLAND CHINA SALE

Oxford, Kans., Friday, Feb. 14th

Rich in Prize Winning Blood

40 Head Consisting of 4 Tried Sows, 11 Spring Gilts, 9 Spring Boars, 2 Outstanding Herd Headers, 14 Fall Pigs

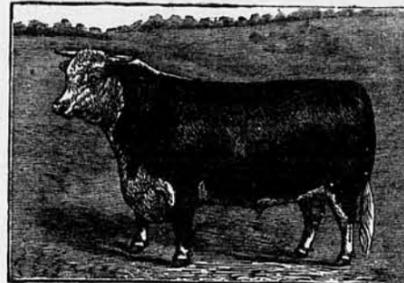
They are strong in the blood of Frank Winns greatest show stock and a number of these spring boars and gilts not only will produce winners but with proper fitting can win in the best shows. The spring boars and gilts are by Master Stroke, a litter mate of the great sire, Master Meddler 2nd, and the tried sows are bred to him. The spring gilts are bred to the splendid boar, Edgwood, by Sentinel. Both Edgwood and Master Stroke go in this sale. Here is a good place to buy the best at a low price. For catalog write today.

Lafe Burger, Auctioneer **C. M. PRATER, Oxford, Kan.**

HOPPER and BOWMAN'S FIRST ANNUAL SALE OF

PURE BRED HEREFORDS
Ness City, Kan., Feb. 18 and 19

75
Fine
Cows
25
Bulls



By J. C.
Hopper
and
W. I.
Bowman

Here is an opportunity to head your herd. Don't miss it!

Conditions have never been as favorable for stockmen to better their herds. The high cost of living, and high cost of land, call for the best cattle that can be produced.

No better class of beef cattle, no more prolific cattle, and no better range cattle have ever been found than the famous White Faces.

Hopper and Bowman will offer, at this sale, some of the best blood obtainable, from such famous bulls as Lord Wilton, Beau Brummel, Beau Real, Lamplighter, Anxiety, Don Carlos, Discovery, and other well known strains. Without doubt the Hopper and Bowman herd is the largest and best selected in the West. They are not pampered, but have been bred on the Short Grass for range purposes.

There will be offered a number of Polled Herefords from the celebrated Guthrie herd. These are the ideal cattle for small herds.

In addition to those offered under the hammer, there will be offered, at Private Sale, a number of Pure Bred Bulls, not registered; a hundred head of high class Hereford yearling steers; a neighbor will have on the ground a few Registered Durham Bulls and a carload of Pure Bred Galloways. There is a chance for everybody. Don't miss this sale. Write at once for Catalog. Address

W. I. BOWMAN, Ness City, Kan.

Auctioneers: Cols. E. A. Kramer, J. W. Clouston.

Trains met at Ransom, main line Mo. Pac. Sale under cover.

Dispersion Sale!

Pure Bred and High Grade
PERCHERONS

Neal, Kansas, Saturday, Feb. 15th

33 HEAD	5 Stallions 3 Jacks 25 Mares	33 HEAD
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10 Head of these are purebred and registered in the Percheron Society of America, among which are the imported black stallion Tatus, weighing right at a ton and two imported black mares, the team weighing over two tons, together with two colts by these ton mares, one a weanling weighing 1,000 lbs., also a one and two-year-old stallion weighing 1,500 and 1,600 lbs.

Also one Telephone road stallion and three jacks, one a 4-year-old weighing 1100 lbs. Three span of 3/4-blood Percheron mares weighing from 1,500 to 1,700 lbs. and in foal to Tatus and from 3 to 5 years old.

14 Other Grade Mares 5 to 10 years old weighing from 1,500 to 1,700 lbs. all bred to imported Percheron stallions.

My Breeding Plant, House, Lots, Barn, Farm Machinery, Household Furniture, Milch Cows, Chickens and everything goes. Come to Neal, Kan., on Missouri Pacific, 12 miles east of Eureka, Kan. Trains handy going east and west. Am selling out on account of health. Sale under cover. For particulars address

A.W. WILLIAMS & SON, Neal, Kan.

AUCTIONEERS—Col. Harriman, Smethers, Williams.
FIELDMAN—A. B. Hunter.

50 Extraordinary Big Type 50

Poland China Bred Sows

Manning, Iowa, Feb. 21, 1913

In Sale Pavilion

12 Big Tried Sows, 15 Mammoth Yearlings, 23 Sensational Gilts

Thirty sows bred to, and 15 sows sired by **MABEL'S WONDER**, the 900-lb. first prize aged boar, Iowa State Fair.

Fifty head of bred sows and gilts, combining extraordinary scale, superior quality, correct type. Surpassing in size, smoothness and trueness to type any like number of sows ever offered at auction. Gilts 300 to 400 pounds. Sows 500 to 700 pounds.

Fifteen sows by **MABEL'S WONDER** bred to Long Price, a son of Chief Price Again, conceded one of the greatest big type sires. Others bred to Long Jumbo, the largest and smoothest boar of his age. Chief Price Again 2nd, a herd boar by the noted Chief Price Again will be sold.

I extend a cordial invitation to the breeders to attend this sale. If you cannot be present entrust your bids to the auctioneer or fieldman with absolute confidence. Write for the catalog.

R.W. HALFORD, Manning, Iowa

Col. H. S. Duncan, Auctioneer.
Geo. W. Berry, Fieldman.

Dispersion Sale!

Standard Bred Horses

Severy, Kansas, Wednesday Feb. 5

20 HEAD 8 Stallions and 12 Mares and Fillies **20 HEAD**

Including the great sire, Sampson Wilkie 34244, the sire of Kansas Dude, 2:19 1/4; Correne B., 2:11; Howard W., 2:22 1/4; Askey Wilkes, 2:14 1/4, and the great 3-year-old, Blanche B., 2:23 1/4, and also sire of a large number of this offering, among which are

Several Excellent Race Prospects

Kansas Dude, 2:19 1/4. Gregory Mc., 2:18 1/4.
Dapper Dillon, 2:28 1/4. Onward Silver Boy.

Davy Clough 2:26 (trial).

These horses are in good condition and ready to start jogging for next season's campaign, and they all have developed speed.

This is a classy lot of Horses, among which are several excellent race prospects. Every animal registered and certificate delivered sale day. Sale under cover, rain or shine. Write today for Catalog. Address

G. H. GRIMMELL, M.D.
Severy, Kansas.

Auctioneers—Lafe Burger, Ed Green.
Fieldman—A. B. Hunter.

J. H. Harter's Polands

50 BRED SOWS AT 50 AUCTION

At the Farm, three miles from Fostoria; and four miles from Westmoreland, Pottawatomie County,

Tuesday, Feb. 18, 1913

The sale will be held under cover and dinner will be served at the residence at noon. The offering consists of

15 Fall Gilts, 15 Tried Sows, 15 Spring Gilts, and 5 Summer Boars that are Herd Header material.

The fall gilts are by Mogal's Monarch, Gephart and Prince Hadley. The spring gilts are of exactly the same breeding. The tried sows are young sows that have raised litters and are in their prime. They are of strictly big type breeding and every one is guaranteed a good useful sow. I am reducing my herd and selling close because of that fact. Most of the sows that go in this sale are the dams of the spring and fall gilts in this sale. Catalogs ready. Address

J. H. HARTER, Westmoreland, Kan.

Auctioneers: Jas. T. McCulloch. J. W. Johnson, Fieldman.

H. H. Shaw,

Selling a Draft of 40 Bred Sows

Hebron, Nebraska,

Tuesday, Feb. 11th

The sale will be held in town in comfortable quarters. It will start promptly at 12:30 to accommodate breeders who wish to leave on early evening trains.

Mr. H. H. Shaw has been one of the best buyers of choice Duroc Jerseys in southern Nebraska. He has bought bred sows during the past two years from leading herds and his offering on the above date is one of the best that will be made in that part of Nebraska this winter.

Attractions in the sale are **HEBRON QUEEN**, by **LINCOLN WONDER**, **HEBRON QUALITY**, by Lincoln Wonder, Republic Girl. (immune) by Expansion and another great sow by Valley Chief 2nd.

Forty head go in the sale and four are the great tried sows mentioned above, six fall yearling sows that have had litters and with an average of six pigs raised to the litter, 30 spring gilts that are choice. They are well grown out and represent the best blood known to the breed.

Five of the fall yearlings are by Crimson King with one by Good E. Nuff Model, the first prize boar at the Nebraska state fair this season. The 30 Spring gilts are by Cleatham's Pride, Rosebud's Wonder, King Kant and Critic's Wonder and Golden Rod Hero and Belle's Prince Wonder. Later: Have decided to include 11 gilts as attractions. Three bred to C. W. 4th and 8 to Garnet's Wonder. This makes a remarkable offering of gilts. Catalogs ready now. Address,

H. H. SHAW, Hebron, Neb.

Auctioneers: W. J. Thompson, J. A. How, J. H. Barr,
J. W. Johnson, Fieldman, Farmers Mail and Breeze.

K.S.A.C. Bred Sow Sale

Kansas State Agricultural College
Manhattan, Kansas

February 7, 1913

BERKSHIRES

10:30 A. M.

19 gilts by Wakarusa Duke 4th.
9 yearlings by Wakarusa Duke 4th.
1 yearling by Rival's Champion Best.
1 sow by Rookwood Rival.
2 sows by Rookwood Duke 4th.
1 sow by Lee Star.
2 sows by Stalwart Duke.
1 sow by King Forest.
Seven of these sows are bred to Wakarusa Duke 4th.
Twelve to Second Masterpiece.
Seventeen to Rob Hood 17th.

DUROC-JERSEYS

1:30 P. M.

11 gilts by Model Colonel H.
6 gilts by Carl's Critic.
9 gilts by Tat Orion.
2 yearlings by Tat Orion.
1 gilt by G. M.'s Colonel.
1 sow by Tatarax.
1 sow by G. M.'s Carl Colonel.
1 sow by Wonder Chief.
Thirteen of these sows are bred to Good As Gold.
Eleven to Beauty's Babe.
Eight to College Colonel 2nd.

All Bred For March and April Farrow.

L. R. Brady, Auctioneer.
J. W. Johnson, Fieldman.

Write for catalog.

Nuckolls County Horse Breeders' Association

32 Percheron Stallions and Mares 32

Sale at State Fair Grounds Lincoln, Neb., Feb. 20, 1913

11 Stallions—13 Mares—8 Weanlings

This offering consists of Stallions good enough to head any herd. They are the product of Nuckolls county farms and bred and developed under ideal conditions. Not one of them has been purchased to put in this sale, all either having been raised or owned by the consignors at least two years. They are the large, drafty kind—Stallions ranging from yearlings, weighing 1,600 pounds, to fully developed ones, weighing 2,200 pounds—Mares ranging from yearlings, weighing 1,500 pounds, to developed ones weighing 2,050 pounds. All mares of breeding age have been bred and are supposed to be safe in foal, some of them having two, three and four of their offspring in this sale showing just how they breed.

Such men as Prof. Howard Gramlich and Dr. Gains and others who have judged the horses at the Nuckolls County Show pronounce the Nuckolls county horse exhibit to be one of the most remarkable in number and quality of any county show they have ever judged. This offering includes the prize winners of this show.

CONSIGNORS—L. Wall, George Barber, Frank Davidson,
William Parr, J. C. Day & Sons.

Write for Catalogue to
PERCY BAIRD, Secretary, Ruskin, Neb.

Combination Duroc-Jersey BRED SOW SALE!

An offering of tried sows, fall yearlings, spring gilts and every sow bred to the best advantage to one or the other of our herd boars. A combination sale with carefully selected drafts from the tops of two herds.

P. C. GARRETT & SON, Bloomington, Neb.

T. J. CURRENT, Hildreth, Neb.

Bloomington, Neb.

Saturday, Feb. 8

The sale will be held under cover, in nice comfortable quarters. Free hotel accommodations will be furnished breeders from a distance at the **Helfrieich Hotel**. We believe that our offering, selected as it is from two herds, contains as wide a variety of breeding as any that will be offered this winter. The breeding as you will notice by looking through our catalog is up to date and represents the leading families of the breed. Every sow will be guaranteed a breeder and those who patronize our sale will be treated right and satisfaction guaranteed. Write for catalog tonight. Come or send bids to **J. W. Johnson** in our care at Bloomington, Neb.

Address either

P. C. GARRETT & SON,
BLOOMINGTON, NEB.

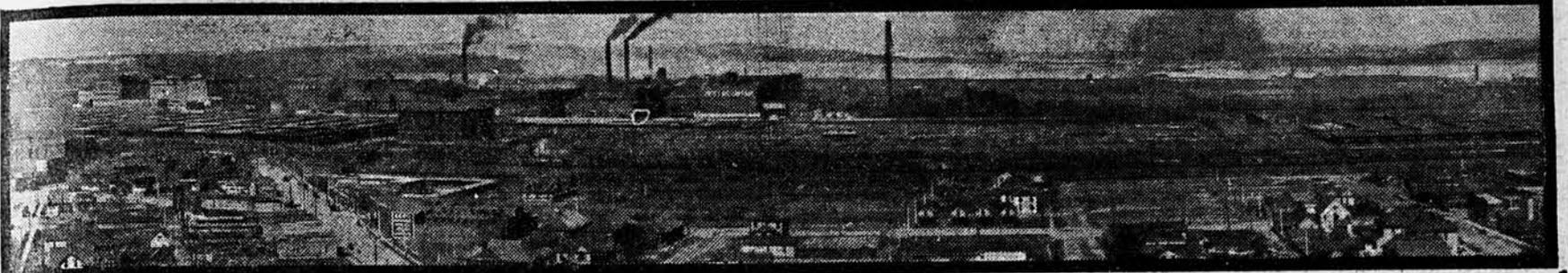
T. J. CURRENT,
HILDRETH, NEB.

John Brennen, Auctioneer.
J. W. Johnson, Fieldman.



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Capital and Surplus
\$200,000



Live Stock Com. Co.
ALL MARKETS

**NATIONAL
LIVE STOCK COM. CO.**
SOUTH ST. JOSEPH, MO.

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P. S. Shipping live stock to a good firm is like making love to a widow—you can't over-do it.



W.F. Davis'
World's Biggest
**HAMPSHIRE
HOG SALE**

Breed them Right—Get the 150 Bred Sows—40 Boars—Hampshires.

At the Sale Pavilion, Stock Yards,
So. St. Joseph, Mo.

February 18, 1913

Write for Catalog.

DAVIS & SON, So. St. Joseph, Mo.

CATTLEMEN	OFFICE	HOGMEN
L. A. Kent	A. H. Baker Vera Dunn	A. H. Baker
H. M. Dort	SHEEPMAN	E. E. Gabbert
Bert Williams	N. E. Bradbury	

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Excello Feed Milling Co.
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Manufacturers of Excello Brands of Molasses Grain feeds. A balanced ration feed for all kinds of draft and driving horses. Excello Dairy feed that shows results. Send for prices and testimonials.

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*Values in St. Joseph
Now Equal
Eastern Points*



**WHILE THE
STOCK IS
FATTENING
YOU DO
THE THINKING**



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L. E. Cooper, 1st. v. Pres. H. B. Hamill, Secy.

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and Manager
C. M. PURNELL, Ass't
Salesman



**Some Saddle
Right Price**
Weight 35 lbs., 17-in. bulge
\$32.50

Features of this saddle: The weight, 35 pounds; 17-in. swell bulge; the price, \$32.50. Order now—the price is right—don't delay. This saddle sent C. O. D., freight prepaid for examination. If saddle is not as represented return at our expense.

H. & M. HARNES SHOP,
Stock Yards, St. Joseph, Mo.

Transit House



Finest. Best equipped Hotel connected with any stock market in the West. Sixty rooms, hot and cold water, baths, elevator and all modern conveniences.

Unexcelled Cafe. Best service; moderate prices. When you come to St. Joseph, try the Transit.

A. W. MACDOUGALL, Manager.

**SWANSON NEW COMER
4-WHEEL RIDING LISTER.**

Screw shaft regulates suction, whether lister runs deep or shallow. Requires only 3 horses. For prices and terms write

SWANSON-ST. JOSEPH
PLOW CO.
ST. JOSEPH, MO.



BIG BARGAINS IN REAL ESTATE

Dealers whose ads appear in this paper are thoroughly reliable and bargains worthy of consideration.

40 A. well improved, close to town and school. S. Oveson, Osage City, Kan.

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

SOME good bargains in well improved Jackson Co., Kansas, farms. Price \$75.00 and up. Wm. Harrison, Whiting, Kan.

FOR SALE, 160 a., 80 in cult., 40 creek bottom, 20 all, good improv., correspondence solicited. Geo. R. Rineberger Elm Dale, Kan.

BARGAIN: 57 a. extra improved, 3 mi. out, \$3,500. Send for land list. F. C. LIBBY, Blue Mound, Kan. J. L. Wilson, Salesman.

320 A. smooth mixed land, 100 in cult., not far from the new Santa Fe R. R., \$10 per a. Other bargains. Moore & Falls, Liberal, Kan.

FARM SNAPS in S. E. Kan. Buy from owner and save "8s." Write for prices and No. acres wanted. R. E. Exch., Pleasanton, Kan.

AGENTS WANTED, to sell Neosho Valley corn and alfalfa lands. \$40.00 to \$60.00 per a. G. W. Clark Land Co., Chetopa, Kan.

400 A. WHEAT LAND, Garden City, 160 in wheat, 120 for spring crop, impr. Fine water. Fenced. \$20 a. Snap. E. J. Votaw, Wichita, Kan.

80 A. improved, 5 1/2 mi. town, \$2,600. 80 a., new improvements, 5 mi. town, \$4,200. Franklin Co., Kan. Box 7, care Mail and Breeze, Topeka, Kan.

1,000 ACRES improved \$12.00 per acre, near Meade in Artesian Valley. 400 acres fine alfalfa land, balance pasture. Must sell at once. L. E. Wait, Dodge City, Kan.

FINE FARMS FOR SALE. Have several fine impr. farms of from 160 to 1,000 a. at from \$10 to \$15 per a. to sell with good terms. W. A. Doerschlag, Ransom, Kan.

RENTERS, NOTICE. 80 a., imp., \$3,600; 80 a. improved \$3,300; 80 acres, improved, \$2,800. From \$500 to \$800 down, bal. like renting, will handle either of them. Renter, why rent? Men of limited means, your opportunity. Possession this spring. Come at once. ALLEN COUNTY INVESTMENT CO., Iola, Kan.

Standing Timber for Sale on 80 acres, in Douglas Co., Kan., near R. R. station. Very reasonable figure. E. P. HARRIS, Crane & Co., Topeka, Kan.

80-Acre Home 1/2 mile town—all A No. 1 land—Nice 8-room house, barn, etc.—good water—free gas—R. F. D. and phone—\$60 per a. with terms. Foster Bros., Independence, Kan.

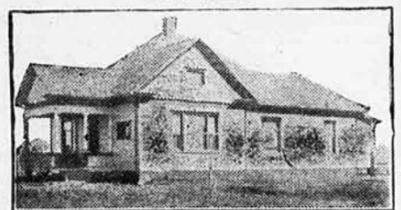
\$175. Per Month for 10 months buys a guaranteed well, well located lot in Plains, Kansas. No "ifs" nor "ands," no favors shown, but a gilt edged proposition for those who act promptly. Only a few to be sold at this price. Send \$1.75 as first payment or write for complete list. JOHN W. BAUGHMAN, Desk G, Plains, Kan.

400 ACRES FOR SALE Two sets of improvements in fair condition; plenty shade trees. 2 good wells, windmills and concrete water tanks; also creek water at each place. 240 a. of bottom alfalfa land and 160 a. of upland (black soil). 200 a. in wheat, 80 a. alfalfa, 60 a. pasture, bal. corn land, all tillable. 2 mi. town. Phone. Level roads. Will sell part or all. Terms on part. Price \$80 per acre. T. F. JOHNSTON, Garfield, Kan.

80 ACRES One mile from Morehead and high school, all nice smooth land; all can be cultivated. 15 acres hog tight in bluegrass and clover, 10 acres timothy meadow, 15 acres prairie meadow, 6 acres pasture, balance in cultivation. 2 room house with old kitchen; good cement cave, cistern, drilled well, fair barn, young orchard. Price \$3,200. Reason for selling, I am a driller and do not have time to attend to farm. A. H. CLEMENS, Morehead, Kan.

Kansas Farms and Horses Special 30-Day Price. C. D. McPherson, owner, R. 2, Topeka, Kan. 82 ACRES—in Johnson Co., near Olathe and Kansas City, on interurban survey. Line now completed nearly to this farm. Town promised for farm. Near golf club and Ocean Lake park, 1 1/2 miles from Santa Fe station. Good new, limestone alfalfa soil. Good springs, plenty of fruit. Nearly new 5-room modern cottage, good cellar, cistern in house. Good granaries, wagon shed, stable, cow shed, chicken house, garage, etc. 640 ACRES—adjoining Beeler, good town on Santa Fe Ry. Improved, facing state boulevard road. Inexhaustible supply of good water at depth of 6 feet. Price, \$25 per acre. Easy terms. IMPORTED PERCHERON stallions and mares and grades. Also few imported home bred. Shetlands and Galloways.

IDEAL CHICKEN RANCH FOR SALE.



This is the House. A choice ten acre tract three miles from Coffeyville, Montgomery county, Kansas. Also good barn, four large poultry houses, nice young orchard, cistern, well, plenty of gas, fine location. A high class proposition offered at a big sacrifice, on account of death of recent owner. Possession at once. For sale on easy terms by G. N. UPHAM, Coffeyville, Kansas.

FOR SALE—320 acres, all smooth, level land, well improved, good orchard. No stone. Near R. R. \$35.00 per a. BLACK-HOOK & CO., 104 West 8th St., Topeka, Kan.

HUTCHINSON, Kan.: Choice city property to trade for good farm. Describe fully with price. Buy our 1,780 bargain at \$12.50 per acre. Haines Realty Co., Hutchinson, Kan.

MUST SELL, SACRIFICE. 160 Summer county, highly improved, close to town; 40 acres alfalfa, 60 pasture, excellent farm. Information, Lock Box 285, Wellington, Kan.

BARGAIN in ranch lands. 30,000 a. fine grass, abundant water, considerable farm land, \$12.50 a., 1/4 cash, bal. 10 yrs. Can divide. No trades. Taylor & Bratcher, Coldwater, Kan.

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

FOR SALE. A country store; will invoice close to \$3,000. Cash talks. Run elevator and sell coal on the side. Address Owner, care of Farmers Mail and Breeze, Topeka, Kan.

EIGHTY-FIVE miles southwest of Kansas City you can find us with a nice list of eastern Kansas farms; reasonable prices; exchanges. Rice-Daniel Land Co., Garnett, Kan.

CENTRAL Southern Kan. alfalfa lands. 320 a. valley land, 200 suitable for alfalfa, \$8,000. 160 a. in valley, 120 in cult., \$4,800. For free list write P. H. THORNTON, Coldwater, Kan.

80 A. located 5 mi. of Ottawa, Kansas. 200 a. bluegrass pasture, 5 a. timber, 55 a. corn land, 7 room house, barn, price \$55.00 per a. Terms to suit. Mansfield, Ottawa, Kan.

BLK CO. Bargains in well impr. farms, close to schools, and town. Cattle ranches close to shipping point, fine stock country. Land \$20 to \$50 a. Send for description and terms. F. D. GREENE, Longton, Kan.

155 A. located in Franklin Co., Kansas. 70 acres in cultivation, 8 a. tame grass, 50 a. native grass, 30 a. meadow, 2 a. orchard, 6 room house, good barn, good outbuildings, close to railroad town. Price \$60 per acre. Terms to suit. Mansfield, Ottawa, Kan.

OWNER DEAD, widow must sell at sacrifice her clean stock of general mds., \$5,000, store building and dwelling, \$1,800, 1 dwelling \$700, another \$1,000. Will sell separate or all together. Easy terms. Dandy town in Jefferson Co. JOHN A. DECKER, Agt., Valley Falls, Kan.

840 A. RANCH at \$41.50 per a. in Washington Co., Kansas. 640 a. good wild pasture, watered by springs, plenty shade; 200 acres in cult. (75 acres creek bottom). 4 1/2 miles from town. 1/2 mile from school. 4 room house, good barn, good feed lot; farm partly hog tight—can be divided in two tracts, 360 a. at \$50 per a. 480 a. at \$35 per a., also terms. PRALLE BROS. REALTY CO., Bremen, Kan.

CITY and suburban properties—a good selection to choose from close to the State Agricultural college. Write your wants. L. D. ARNOLD, Manhattan, Kan.

CASH BARGAIN. 240 a. well improved, bottom land close to town. No waste. Part time. Price \$84. E. changes. Write JESSE SIMPSON, Scandia, Kan.

320 ACRES, 2 miles from Robinson, Kan.; stock and grain farm; three sets of improvements, nearly new; \$100 per acre. Owner will leave \$25,000 in farm. S. C. MILLER, Robinson, Kan.

TO SETTLE an estate. Fine smooth section. 500 a. in cultivation. 200 a. fall wheat. Near good town. Only \$7,200. Better than railroad terms. Investigate. WINONA LAND CO., Winona, Kansas.

80 ACRE home farm, 3 1/2 miles from town, half in cultivation, pasture, alfalfa, good water, four room house, barn, orchard. Price \$3,600.00. No trades. Write for free list. V. B. NIQUETTE, Salina, Kan.

80 ACRES 3 1/2 miles from town, 1/2 mile from school; five room house, barn and windmill, orchard, 10 acres fenced hog tight, 15 acres pasture. \$2,750. HARRY REYNOLDS, Milton, Kan.

EASTERN 1,000 acres, \$25 per acre. KANSAS 1,730 acres, \$19 per acre. RANCHES 1,871 acres, \$26 per acre. T. B. GODSEY, Emporia, Kan.

MR. LAND AGENT. We have the land that is selling. Show your customers the new country that is opening up in southwest Kansas. Write us. CLAY MCKIBBEN LAND CO., Dodge City, Kansas.

LINN and BOURBON CO. FARMS. Biggest bargains in Kan. Corn, wheat, timothy, clover, bluegrass land \$15-\$80. Coal, wood, gas, abundance good water. Fruit, everything that goes to make life pleasant. Large illus. folder free. EBY-CADY REALTY CO., Pleasanton and Ft. Scott, Kan.

THE GRASS THAT FATTENS. I have a fine list of small ranches, from 320 to 1,600 acres in the great livestock county of Butler, Kansas; famous for its wealth in alfalfa, Kafir corn and native grass limestone pastures. V. A. OSBURN, Eldorado, Kansas.

Wheat, Corn and Alfalfa 160 A., all tillable, good impr. \$60.00 per a. 2,000 acre ranch; 3 sets impr., 300 a. alfalfa, 720 ton silo capacity, \$40 per a. 400 a. mostly bottom, in alfalfa, \$40,000. I live on my farm. Write me. J. S. SCOTT, Emmett, Kansas.

Sedgwick County Farm Bargains 200 a. farm, all good land, fair improvements, good location, only \$45.00 per acre. Just the price of grass land, 145 a. farm, good 7 room house, 2 barns, mostly alfalfa land, fine location, \$62.50 per a. Terms to suit. 240 a. farm, all alfalfa land, good improvements, only 10 miles to Wichita, the biggest snap in Kansas at \$60 per a. \$4,600 handles this. Come quick for this. Call on or write H. E. OSBURN, 227 E. Douglas Ave., Wichita, Kansas.

WANT to purchase section Western Kansas land at \$5.00 per acre, on terms. J. R. Collins, 1029 Omaha Nat'l Bank Bldg., Omaha, Nebraska.

FARMS bought at right prices are a good investment. Send for our booklet containing choice bargains in the corn and alfalfa belt of southeast Kansas. Farms, prices and terms are right. Write for it today. MILLER & SON, Petrolia, Kan.

ATCHISON CO. bargain: 154 acres 1 mile from town with county high school; highly improved; all smooth land in high state of cultivation, 28 in wheat, 52 in clover, bal. other crops. Price \$18,000. Good terms. JOHN E. SULLIVAN, Effingham, Kan.

1,600 A. imp. ranch in corn belt; 400 acres good bottom land, 270 a. cult., 160 a. fine wheat; 35 a. alfalfa, bal. pasture; 7 mi. to R. R. town, 1/2 mi. school, R. R. and phone. Price \$20 a. Part trade. Terms. Give full description list letter. I. R. ELDRID, Phillipsburg, Kan.

MR. RENTER, ATTENTION. 320 fine acres, 1 1/2 mi. town, 140 cult., all can be; no bids. \$25 a. \$400 cash, bal. crop paym'ts. Have imp. farm close can rent you. Buxton Land Co., Utica, Kan.

COMANCHE COUNTY BARGAIN. 480 a. improved, 9 miles from Coldwater. 17 a. fine growing wheat, all goes, for quick sale, price \$27.00 per a. Terms if desired. C. A. HEATON, Larned, Kansas.

ALFALFA AND WHEAT LANDS at \$20 up. Grass lands \$10 up. Crops are good; prices are rapidly advancing—NOW'S the time to buy. List free. A few exchanges considered—they must be gilt edge. WILLIAMS & PICKENS, Meade, Kan.

EASTERN KANSAS FARM BARGAIN. 120 a. 3 1/2 mi. town, 100 a. cult., 2 a. orchard, bal. meadow, fair bldgs. windmill and tank; R. F. D. and phone. Price \$45 a. J. C. RAPP & CO., Osage City, Kan.

FOR SALE. 320 acres level wheat land \$9.00 per acre. Carry 1/4 on land. Also many other good bargains in corn, wheat and alfalfa lands. L. E. PENDLETON, Dodge City, Kan.

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

Farms Wanted

Retired manufacturer wishes to invest \$100,000 in farms of from 80 to 640 acres. Must be bargains. Owners only. JOHNSON, 617 Dwight Bldg., Kansas City, Mo.

REAL ESTATE WANTED.

REAL ESTATE DEALERS and property owners are getting big returns in the way of quick cash sales through the use of small advertisements in our classified advertising columns. Home seekers and investors all over Kansas watch Topeka Daily Capital want ads for attractive offers. The Daily Capital is the only daily in Kansas with a state-wide circulation—total guaranteed 34,000. More classified ads than any other Kansas daily. Most consistent result-producer. Over half million dollars worth of property sold through its columns the past year. If you want to sell or exchange property at smallest cost and in shortest time, try an advertisement in our "For Sale," "Business Chances" or "For Exchange" columns—results will more than please you. Special trial offer: Send a 30-word advertisement and \$1.50 and we will publish your ad for seven consecutive issues. For each additional word, seven times, add 5c. Send advertisement and remittance direct to Daily Capital, Want Department, Topeka, Kan.

CAMPBELL COLLEGE FARM LANDS Must Be Sold

Two choice Cowley county, Kansas, farms as fine farm land as can be found in Kansas. Sec. 25, town 33, range 3 east. 160 a. on the Rock Road, 6 mi. from Winfield; 5 mi. from Arkansas City; 1 mi. from Hackney. Good improvements. A very choice farm. Also west 1/2 sec. 15, town 34, range 3, east. 302 a. 4 mi. N. W. of Arkansas City. River bottom land. One of the best corn and alfalfa farms in Cowley county. These farms must be sold within 60 days. TWO GREAT BARGAINS. Address S. R. THOM, Agent, Holton, Kan.

30 Minutes

From Wichita Union Stock Yards, just the place for a farmer and stockman. 120 acres in cultivation, 120 acres in grass, conveniently fenced into fields and lots. Some hog tight. A good 5 room house, barn, sheds, etc. Shallow water, all smooth and tillable; will grow good alfalfa; a deep rich loam soil. Just think of it! 240 acres all told for \$65 per acre and easy terms. This must be sold. THE LEACH REALTY CO., Wichita, Kan.

280 Acre Ideal Stock and Grain Farm

In Greenwood Co., 8 mi. S. E. of Madison; 2 houses, barn 40x40, other outbldgs. Practically all tillable, 200 a. valley land, 100 a. cultivated, 180 a. meadow, 4 a. orchard, 5 a. alfalfa, modern conveniences; gasoline engines for grinding, pumping, etc. R. F. D. telephone. \$50 per acre. Take some trade. If you want something good, write today, going to sell. C. H. BOWMAN, Owner, 1611 Kansas Avenue, Topeka, Kansas.

672 ACRE farm, 3 sets improvements, near Arkansas City, Kan. 65 in alfalfa. Best of terms. Ask about this good farm. 80, 144, 240, 320, 488, 620, all above farms are good prices from \$20 up to \$55 per a. WM. GODBY, Arkansas City, Kan.

COFFEY COUNTY, EASTERN KANSAS. Good homes and investments. Corn, tame grass and ranch lands, \$30 to \$60 per a. List free. LANE & KENT, Burlington, Kan.

FOR SALE OR TRADE. 100 farms, Western, Central, Eastern abas in tested counties. Crop failures unknown. List free. THOS. DARCEY, Offerle, Kansas.

THINK OF IT. We will sell you 160 or 320 acres of the best unimproved corn and wheat land in Wallace county, Kansas, for \$10 an acre. \$1 an acre down, balance in nine equal payments 8 per cent. THE WARD-SCOTT INVESTMENT CO., Sharon Springs, Kansas.

CANADA

OWN YOUR HOME IN CANADA. Buy a farm in Sunny Southern Alberta, any size, easy terms. Climate ideal, soil unequaled, no crop failures, no personal tax. Write today. LYNN W. BARRETT, Aldersyde, Alberta.

NEVADA

"HOMESTEADS." Do you or your friends want a 160 or 320-acre homestead? Here in Nevada you may take 28-acre homesteads, and under the new homestead law you are entitled to five months off each year. I have a "NEW VALLEY," where water is obtained from 10 to 20 feet and good land has been tested and found very satisfactory; railway close. "LOCATION FEES REASONABLE," all work guaranteed; good people wanted. These lands will produce all kinds of crops except citrus fruits. IF YOU MEAN BUSINESS and want good lands answer this at once. L. C. DOLLEY, Box 179, RENO, NEVADA.

NEW YORK

WEALTHY BANKER retiring must close out homestead, stock, tools. 165 acres, rich bottom farm, two houses, 4 barns, ice house, silo, shed, fruit, abundance water, basement barn, concrete floors. A big money maker. 24 Holstein cows, 1 bull, 1 horse, wagons, hay, straw, ensilage tools, ensilage cutter power, many other tools, all for \$12,000. Part cash. HALL'S FARM AGENCY, Oswego, Otsego Co., New York.

TEXAS

FREE, Taylor's Texas Investor (Magazine). A money saver, write now; six months free. H. S. Taylor, Houston, Tex.

160 A. improved, \$35. 40 a. improved \$45. Easy terms. Close in black soil. Artesian water. J. H. COPE, Palacios, Tex.

WRITE FOR FREE literature describing choice lands in the Eagle Lake district. Send your name today. Fidelity Immigration Co., Eagle Lake, Tex.

FOR SALE—Cheap Texas land 8 miles south S. P. R. in Brewster county. Buy a section and hold for investment; 50 cents per acre cash, balance easy terms; 60% tillable. Title perfect. W. Willeford, Flatonia, Tex.

THE BEST cheap land proposition in the United States today. Wheat yielding from twenty to forty bushels per acre, all other crops equally good. Write us for particulars. J. N. JOHNSON LAND CO., Dalhart, Tex.

LISTEN! Tarrant county, Texas, has more railroads, more inducements for homesteaders in good lands, plied roads, good markets, health record, schools, churches, etc., all things considered, than any county in the Southwest. Ask for special list of farms, ranches and dairy propositions, close to this great city. KITCHEN-VAUGHN-SSEVER CO., Fort Worth, Texas.

20 A., price \$1,000. Trade for residence. 7 1/2 a. Bay front, 3 room house, \$1,000. 170 a. \$45 per a. Take some trade if good. D. W. GRANT, Palacios, Texas.

Free Paper about Mid-coast Texas. "THE LAND BROKERS COMPANY" helps you to BUY DIRECT FROM THE OWNER. Palacios (City by the Sea), Texas.

BUY COAST FARM LANDS. We make a specialty of locating the best for the money for the homesteeker and investor. For list and free information write C. H. Stanciliff Land Co., Houston, Tex.

TEXAS. For Sale—Grow alfalfa by irrigation; no crop failures; \$70 an acre net every year. Write for my list of farming propositions in the fertile Rio Grande valley. A. M. LOOMIS, 317 American Bank Bldg., El Paso, Tex.

HALF THE PRICE. You pay in the North, or less, will purchase prairie land, 160 acres up. Will yield 40 bushels corn per acre, only \$40 per acre. Plenty rain, fine climate. Have some exchanges. See or write JNO. C. PENN LAND COMPANY, Houston, Tex.

PROFITS IN GULF COAST LAND. Wonderful production, large increase in value, an attractive home. Get our Free Booklets, "The Road to Prosperity" and "A Pointer on Where to Buy Land." Will send you free "The Gulf Coast Bulletin" for a year. Write THE ALLISON RICHEY LAND CO., 2nd Floor Carter Bldg., Houston, Tex.

All About General Farming in the Mid-Coast Country of Texas

Write for our illustrated booklet. Mid-Coast Colonization Company. A. A. Highberger, Mgr., Bay City, Texas.

MISSOURI.

25 OZARK bottom farms. List free. Write J. H. Wright, Marshfield, Mo.
WHITE Morris & Walker for list of south Missouri farms, Mountain View, Mo.
160 A. farm, \$1,800, imp. Write for picture. Box 594, Mountain View, Mo.
STOP! Listen! 80 a. creek farm \$850; terms. Other farms. McGrath, Mountain View, Mo.
STOP today. Write King & Coon for book, Polk Co. land. King & Coon, Flemington, Polk Co., Mo.
FARMS for sale in Northwest Missouri. Write Booher & Williams, Savannah, Mo., for list. No trades.
200 A. 4 mi. R. R. town. Unimpr. Running water. 25 a. bottom, good grass, good timber. \$2,000. Baker Realty Co., Mountain Grove, Mo.
MO. lands, impr. and unimpr., low prices, easy terms; booklet "Why Not Missouri?" free. Exchs. made. C. L. Beach & Co., Mansfield, Mo.
WELL imp. 160 acre farm, 6 1/2 miles out; \$4,500, on easy terms. Write for particulars. DeMatte Realty Co., Mountain Grove, Mo.
FREE. "The Ozark Region." Contains new list cheap lands, and valuable information. Durnell & McKinney, Cabool, Mo.
WRITE for list improved farms in heart of Corn Belt (Northwest part of State). H. J. Hughes, Trenton, Missouri. Seller of Missouri Black Dirt.
MISSOURI agriculture and grazing land \$15 to \$50 per acre. Finest climate, best water and grass. Some tracts to trade. R. W. Hedrick, Cole Camp, Mo.
HIGH CLASS farms of various sizes in Missouri or Kansas. 20 to 40 miles south of Kansas City. Send for list.
L. W. KIRCHER, Cleveland, Mo.

LOOK HERE.

For sale only; smooth 120 a. farm, well improved; large house, new barn, near school; not far from Warrensburg, town 6,000, county seat; lays good; bargain for 30 days, \$57.50 per acre. Terms good. Look this up if you want land. Write O. J. TAPP, Warrensburg, Mo.
OZARK LANDS FOR SALE.
49 a., all fenced with woven wire, 36 a. in cultivation, bal. pasture, new 5 room house, large barn and other outbuildings, fine water, 1/2 mi. school; mortgage \$500 due 4 yrs. at 5 1/2%. Price \$1,400. List free.
JAS. B. WEBB, West Plains, Mo.
SPECIAL BARGAIN MUST SELL QUICK.
284 acre farm, highly improved and most conveniently located. In Pettis county, Mo. Must be sold by February 15th, 1913. Has 100 acres of good bottom land. An ideal stock farm. Price \$45 per a. Small payments and easy terms. No trade.
J. H. FREDERICH, Cole Camp, Mo.

ONE OF THE BEST.

Howell Co., Mo., 240 acre farm, 200 a. in cultivation, all well fenced. Abundance of fruit, fine water, well, cistern and tank, large barn, 6 room house, near town, R. F. D. and phone line, school 1 mile. Price \$35 per a., no trade. Other good farms.
A. P. COTRELL LAND CO.,
Pomona, Howell Co., Missouri.

AMERICAN FARMER.

We are constructing a three million dollar ditch, which with its laterals is opening up for cultivation, 500 thousand acres wonderful corn, wheat, alfalfa and truck land. South-east Missouri is the Nile of America and we want 5,000 settlers. These lands will increase in value millions of dollars each year. Write for literature and buy now. Address:
Edwards Bros. Realty Co., New Madrid, Mo.

OZARK LANDS.

Improved 80, eight mi. out, part valley, 2 acres bearing orchard, good; 2 fine springs, Price \$1,500.
Improved 40, 4 miles out, part valley, pretty spring branch across the land, price \$1,200.
Improved 207 acre Indian Creek valley farm, 4 mi. out, 170 acres valley; finest farm in McDonald Co. Price \$11,000.
Improved 120, 5 miles out, part valley, extra nice home place. Price \$4,200.
For particulars and terms address,
ANDERSON REAL ESTATE CO.,
Anderson, Missouri.

POLK COUNTY FARMS For Sale or Exchange
Ideal climate, pure water, fine pastures, short feeding season, productive soil, prices and terms to suit. HARRY T. WEST REALTY CO., Hollister, Mo.

A Remarkable Bargain

220 A. all level land, 65 a. in cult., 80 a. pasture; bal. saw and tie timber. 180 fenced, wire and rail; 2 room house, good well at house; barn 70x76; good well at barn; smoke house, other outbuildings; phone in house; handy to school and church; 6 mi. to North View on Frisco R. R. 5 mi. to Fairgrove; 8 mi. to Co. seat, Marshfield; price \$17,600. Incumbence \$5,000, 5 per cent, due 6 years; will exchange for good Kansas farm. Will assume as much cash as \$3,000. What have you to offer? See or write
PURDY & COMPANY, Springfield, Mo.

FLORIDA

GOOD Florida land at \$30 per acre. The kind real estate brokers are selling for \$60 to \$75 per a. H. G. STONE, Lakeland, Fla.

ARKANSANS

80 ACRES improved, near Clarksville, Ark., county seat of Johnson Co. Price \$15.00 per acre. For further information write M. S. Park, Clarksville, Ark.

For Sale in Southwest Arkansas
80 improved farms at a price ranging from \$15.00 to \$40.00 per acre. Write for literature.
SOUTHERN REALTY & TRUST COMPANY, Ashdown, Arkansas.

620 A. Bottom Land

or any part thereof at \$15 per acre, within two miles of two railroads, no overflow, level, fine grass land, good hunting and fishing. We don't care for all cash. 1/4 section of timbered land, about 20 acres cleared, level, no rocks, at \$15.00 per a. Also a few improved farms. Write us, we will take care of you.
M. & B. TIMBER CO.,
Farm Department, Malvern, Ark.

ARKANSANS

640 A. improved bottom farm \$15 per a. J. A. Webb, Russellville, Ark.
FARMS and fruit lands. All sizes and prices. T. A. Bayley, Ft. Smith, Ark.
GOOD fruit and farm land, cheap; terms. S. L. Consalus, Mammoth Spring, Ark.
LANDS CHEAP. Book and list free. Address J. T. Carlton, De Queen, Ark.
ARKANSAS RIVER BOTTOM plantations, virgin timber lands, small farms. Send for list. Dumas Realty Co., Dumas, Ark.
RED RIVER corn and alfalfa farms, \$20 to \$50 per acre; income \$50 to \$60 per acre. List free. L. A. JUSTUS, Foreman, Ark.
CORN, FRUIT, ranch and wheat lands; sandy loam soil; \$10 to \$25 per a. On good terms. Write for new list, mailed free upon request. Mansfield Realty Co., Mansfield, Ark.
DO YOU want a farm in Arkansas? If so, write for my illustrated book. Imp. and unimp. prairie, timber and rice lands. Write me today. Olaf H. Kyster, Stuttgart, Ark.
ATTENTION. We have selected list of very best bargains in farm, fruit, alfalfa and timber lands in Ark. Get our list of bargains. A. W. Estes Co., Little Rock, Ark.
17,000 ACRES, all tillable, no rocks, hills or swamps, for sale in small farms in Grant Co. Your own terms, 20 years 6% if desired. Can give employment to purchasers. E. T. TETER & COMPANY, Opposite the Union Station, Little Rock, Ark.
HOMES in N. W. Arkansas, fruit, stock and grain farms from \$5 per acre up. Living water, ideal climate, good soil, bargains; 25 acres well improved \$3,500. Hotel \$2,500. 18 acres well improved and close in \$2,700, and other bargains. Write HINDSVILLE REALTY CO., Hindsville, Arkansas.
430 ACRES rich dark loam land; 120 cultivation; bal. timbered; level, no rocks; 1 mi. R. R. \$12 acre, 1/2 down.
ROBERT SESSIONS, Winthrop, Ark.
40 ACRES of fine laying land in the celebrated Vaughan Valley, 1/2 mile from school, P. O., store and shop, price \$1,500. 1/4 cash, balance to suit, no trade.
JOHN W. REDMAN, Hindsville, Ark.
274 A. dark and red loam. 200 a. in cultivation, 6 room residence, 4 renter houses, barns, outhouses, wells, springs, orchard and pastures, on gravelled road, railway and phone line. 1 mile from town. \$6,000.00, easy terms.
H. M. McIVER, Texarkana, Ark.

LOUISIANA

DON'T be a renter; we sell finest improved corn land in North Louisiana on 15 years' time. Write HUGO JACOBSON, Salina, Kansas, immigration agent.

Ruston, Louisiana

is the best place for a tenant farmer that only has a little money to own a farm. Rich fertile soil—Ample rainfall.

Healthy Climate

Two crops a year—Good markets. \$10.00 to \$25.00 an acre, easy terms. No floods, mosquitoes or swamps. Write for illustrated literature.
NORTH LOUISIANA REALTY & INV. CO.
RUSTON, LOUISIANA.

OKLAHOMA

BARGAINS in Tex. Co. farms. Some exs. Write for list. Harvey Cox, Hooker, Okla.
KAY COUNTY corn, wheat and alfalfa lands, \$20 to \$75 per acre. New list free. N. E. SAYLOR, Newkirk, Okla.
FARM FOR SALE cheap, 160 a. improved farm in central Oklahoma, 3 mi. from good town. Write A. W. Jones, Quinton, Okla.
BARGAINS on farms in New Eastern Oklahoma. Good wheat, alfalfa and small grain land. 47 inch rain belt. Fine grass and several large ranches, cheap. Write today. Union Security Co., McAlester, Okla.

WHY NOT come to Bryan county, Oklahoma, where you can raise anything that grows? For information write JOHNSON & MARSHALL, Durant, Oklahoma.

1,040 ACRES, well improved, on ever running stream, Texas county, Oklahoma; 200 acres alfalfa, 100 acres good hay land, \$22.50 per acre. Lease only, 440 acres State School land goes with the deal. If interested write for full particulars.
I. L. ENNIS, Guyton, Okla.

SNAP FOR TOWN SITE PROMOTERS.
160 a. improved farm in western Oklahoma for sale cheap. Railroad station located on this farm. Write A. W. Jones, Quinton, Okla.

POCKET MAP OF OKLAHOMA
for five names of persons in. ending to change. Caddo county corn and alfalfa land.
BALDWIN & GIBBS CO., Anadarko, Okla.

OKLAHOMA FARMS.

I have on my list farms of 160 acres, fairly well improved, with growing wheat in fine condition, in Garfield and adjoining counties, at \$45 to \$75 per acre, in the finest agricultural portion of Oklahoma. I have a fine body of land, 800 acres, 550 acres in cultivation, in Jackson county, Okla., at \$45 per acre if taken soon. I have 955 acres of fine land near Wichita Falls, Texas, and a tract of 2,300 acres in same locality, both near where oil is being developed. Address me or see me at Enid, Okla.
NEWTON BURWELL.

Oklahoma Wants You 500 choice farms for sale. Titles good. Easy terms. Soil and climate excellent. Write for list. Roberts Realty Co., Nowata, Okla.

Eastern Oklahoma

Land \$3.00 to \$25.00 per a. Prices are steadily advancing—now is the time to buy. If you want a good, cheap home, or a money making investment, write to or call on
W. T. HARDY, McAlester, Okla.

OKLAHOMA

N. E. OKLA. prairie farms. Easy payments. Write J. T. Ragan, Vinita, Okla.
INDIAN LANDS eastern Okla. rain belt. Write J. J. Harrison, Pryor, Okla.
600 FARMS and other prop. for sale or ex. Blackwell Real Estate Co., Blackwell, Okla.
600 A. 3 mi. R. R. station this county. 200 a. tillable. 60 in cult. Bal. fine pasture, good neighborhood. No exchange. \$8.50 per acre. Terms, 2,000 a., fair improvements. Half tillable. All prairie. \$12.50 per a. SOUTHERN REALTY CO., McAlester, Okla.
SEVERAL FINE FARMS FOR SALE
in the best corn and cotton belt of Eastern Oklahoma; 80 to 600 acre tracts, \$25 to \$60 per acre.
R. B. HUTCHINSON, Checotah, Okla.

COLORADO.

GOLDEN opportunities for a home and investments—NOW. Fine farms, ranches, \$8 to \$10 per a. A few relinquishments. Did you see "bleeding, aims-receiving Kansas" become the wealthiest state per capita? Only a few hours' west of Salina, no finer soil on earth; 50 schools, 4 banks, churches, best of Colorado. Now. Pamphlet.
R. T. CLINE, Towner, Colo.

COLORADO

BEAUTIFUL irri. farms, fruit, sugar beets, grain, alfalfa. Ordway Land Co., Ordway, Col.
160 ACRES near Denver, \$1,600. House, barn, well, all fenced and cultivated. Fine soil. L. A. COBB INV. CO., 242 Century Bldg., Denver, Colo.
SAN LUIS VALLEY, Colorado, 160 a. 3 mi. good R. R. town; lays fine; plenty of water; partly cleared and ready for plow; 4 room house; small stable; only \$40 a. Worth \$60; small cash payment; bal. long time 6%. Write owner. E. G. BYLANDER, Sedalia, Mo.
COLORADO—UNCOMPANIED VALLEY.
Ideal climate. On D. & R. G. R. R. (The Scenic Line of the World).
Specials:—Irrigated farms, fine water rights.
Well improved dairy forty, in alfalfa, 30 cows, teams, wagon, harness, supplies, feed, worth \$450.00 per month. One mile of Delta. Price \$12,000.00.
Well improved 160, within 2 miles of Delta, the best town in Delta, the best county in Colorado. 6 teams, 5 cows, 40 hogs, 100 hens, full line implements, harness, wagons, 1,000 bushels grain, immediate possession. (7 head of the 12 are fine Percheron brood mares.) De Laval Separator No. 12. All for \$125.00 per acre.
GEO. W. BRUCE, Sole Agent, Delta, Colo.

FOR SALE OR EXCHANGE

GROCERIES for land or land for mdse. F. Gass, Joplin, Mo.
EXCHANGES—all kinds—free list. Foster Bros., Independence, Kan.
BATES CO., Mo., farms for sale and exchange. J. N. Duke & Co., Adrian, Mo.
WRITE for my new exchange list of Dickinson Co. Farms. Melvin Smeltz, Enterprise, Ks.
WE BUY, sell, exchange anything, anywhere of value. Ozark Co-operative Realty Co., Willow Springs, Howell Co., Mo.
BOOK 1,000 farms, etc., everywhere, for ex. Get our fair plan of making quick square trades. Graham Bros., Eldorado, Kan.
SOUTH MO. imp. lands for sale and exchange. low prices. Write to or call and see Goff, Sess & Co., Willow Springs, Mo.
BARGAINS in southern Kansas farms. \$40.00 to \$75.00 per acre. Exchanges. Send for list. N. F. Paulin, Parsons, Kan.
FOR SALE OR TRADE: Good hotel all furnished, doing good business in N. E. Kan. Triplett Land Co., Garnett, Kan.

EXCHANGE.
160 a. Lincoln Co., Okla., land for trade for stallion; or what have you?
T. B. PLATT, Owner, Hagerman, N. M.

FOR SALE AND EXCHANGE.
Ness Co. lands and mdse., at low prices. No triflers. Fully describe and price your proposition. C. F. Edwards, Ness City, Kan.

LAND WANTED.
If you have Kansas land to exchange for Kansas City income prop., write us with full description of land. E. G. SUTTON REALTY COMPANY, 709 Victor Bldg., Kansas City, Mo.

LAND FOR MDSE.
200 a. Chautauqua Co., Kansas, \$6,000; \$9,000 general mdse., want good Kansas land. Write for exchange list.
HUNTER BROS., Independence, Kan.

FIRST CLASS HOTEL FOR SALE.
20 rooms in the best small new town in south Florida. New and modern, completely furnished, good water connections in house. A rare opportunity for a hustler. FLORIDA DEVELOPMENT COMPANY, Davenport, Fla.

IDEAL DAIRY FARM.
80 a. close to Topeka, 6 room house, furnace and lights; 2 barns, silo, on macadam road. Terms to suit or would trade for central Kan. grain land.
B. F. AXTEL, R. 7, Topeka, Kan.

FOR EXCHANGE.
160 acres nice prairie land in the great wheat belt of Adams county, North Dakota, 6 miles from town and Milwaukee R. R. 35 acres in cultivation; 3 room house, barn, fine well, garden, loam soil. Want to trade for nicely improved 40 acres in eastern Mo. or southwest Mo. N. J. RUSSELL, 2305 Jackson Ave., Wichita, Kan.

FOR EXCHANGE.
Improved 160 acres, bottom land in Allen Co., Kansas, worth \$12,000.00, will exchange for mdse. or hdw. in North Missouri, Ill., or East Iowa. Also good 200 acres and 80 acres at a bargain for cash, easy terms, good homes and fine land. Write for fuller description if interested.
WILSON & RESSEL, Colony, Kan.

Buy or Trade with us—Exchange book free.
Bersie Agency, Eldorado, Ks.

Texas Farm Fine land, well located, to trade for farm in Kans. Man's wife won't leave folks in Kans. to live in Texas, so he wants to trade. What have you? Give good description.
D. W. GRANT, Palacios, Texas.

For Sale or Exchange
Land in the great corn belt of Missouri, Kansas and Nebraska. Also Ranches. If you wish to make an exchange address
M. E. NOBLE & SON,
507 Corby-Forsee Bldg., St. Joseph, Mo.

For Sale or Exchange
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