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The FARMERS MAIL AND BREEZE



What Sort of School Have You?

This is the Time to Talk It Over with
the Legislature If You're Interested

BY CHARLES DILLON

IF EVER the people of Kansas intend to show downright, keen interest in their schools this is the time, and Topeka's the place. The legislature will be in session next week. The people have had tips without number. Suggestions by the dozen have been made. Speeches, addresses, resolutions by teachers, resolutions by farmers in convention assembled, talk without end. Will it amount to anything? Will the various organizations and unions see to it that their wishes reach the members of the governing body—the body which is supposed to put the opinions of the people into law? Or will the legislature do the best or the worst it can and go home to be blamed by people who neglected their chance?

The Farmers Mail and Breeze is sincerely interested in Kansas schools, and very naturally it gives its attention first to the rural places. In those schools must be the hope of the future. From those schools will come the men and the women who are to govern Kansas. What is taught there is certain to be the strongest possible influence in the lives of generations to come. These are things, solemn things, you ought to think about. What, for instance, do you know about your school? Are your children learning things that will turn their minds toward home or over the hills and far away? This is what Governor Capper said about schools, a few weeks ago, in an article written for the Kansas Teacher, the official organ of the teachers of Kansas:

"No more important duty will be presented to the forthcoming session of the legislature than that of considering most carefully the various needs of the schools. Admittedly we have much to do in this regard. Our schools are not all that the most intelligent thinkers would like to have them; but we have made laudable progress, and we intend to make more. No amount of failure should be discouraging so long as the shortcoming that caused it is acknowledged.

"Because of the objects sought, the achieve-

ments hoped for, no program of education is likely ever to satisfy everyone permanently. No system is certain to provide continually

improve and to give that fine and sensible service which the people have a right to expect.

"Education as a work is never finished. It must go with the world's progress, becoming better and more nearly fulfilling its high mission as the years pass. The schools of Kansas, I am quite certain, will not fail to sense the demands put upon them. The thoughtful consideration given these questions in the recent convention of teachers in Topeka was a most encouraging assurance that the state's schools are to be properly managed.

"In every worthwhile department of human activity, but particularly in education, the years bring changes. What was deemed efficient a little while ago is obsolete today. New standards of teaching, new ideas and ideals call for a quality and service which should no longer be entrusted to the haphazard fortunes of politics. Positions of grave importance in school management such as that of superintendent of public instruction should be freed entirely from such influence. The person to whom such duties are assigned should be chosen with regard to especial fitness for the post without reference to the label of any political party. The next legislature should enact a law removing the office of state and county superintendent from such control.

"If we are to have better and stronger rural and grade schools; if we are to give proper, intelligent attention to the fundamental and practical and common sense in education, while remembering the cultural; if we are to provide instruction necessary for the 95 per cent or more of Kansas children who never go to college, we must have free high schools in town and country wherever the law has not already made such provision. To meet the highest possible standard it will be necessary, also, to have legislation authorizing longer terms of office for state and county superintendents and to make it possible to employ principals and teachers for at least three years. No (Continued on Page 23.)



all that is needed. But just so long as those responsible for this great department recognize these facts and set themselves zealously to meet the requirements of the times, just so long will the state's schools continue to

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Passing Comment--By T. A. McNeal

A Blundering System

I was told the other day that an investigation of conditions here in Topeka revealed the fact that certain individuals were getting aid from more than a dozen organizations formed for charitable purposes. These organizations, maintained with the best of motives, act independently of one another and actually become demoralizing instead of helpful agencies. They tend to encourage professional mendicancy and discourage thrift and self respect. Under a proper system there should be no such thing as charity for the able-bodied. The world owes no sound-bodied man or woman a living but every man and woman born into the world is entitled to the opportunity to earn a living. Our present system is most wasteful, illogical and destructive of the best qualities of manhood and womanhood. It tends to produce beggars and criminals. It places an unnecessary burden on the shoulders of the kindly hearted, and destroys the efficiency of the recipient of the unearned bounty. There ought not to be a beggar in all this land. There ought not to be a free soup line in any city. There ought not to be any excuse for insanitary living or dire poverty. This land is capable of producing sufficient to support in comfort every citizen of this republic, and if it does not there is a grave wrong in our system.

This so called economic system which is really no system at all, breeds idlers, tramps and criminals. It is responsible for the slums, for the idle rich and the miserable poor. It creates antagonistic classes with snobbery on the one hand and cringing servility or sullen hatred on the other. It is destroying democracy and making Christianity a sham. It is difficult if not impossible to place the blame definitely. The fact is that to a greater or lesser degree we are all to blame. We seem to be moving mostly in circles instead of forward. We do a lot of talking but seem to get nowhere. We see the evil but lack the brains to suggest a remedy, and put it into successful operation. We are lazy and selfish. Most of us mean well but our meaning well doesn't get results.

To be frank we don't seem to have much sense after all.

Militarism Microbe

I am not prepared to say that there is a great deal of hope that the League of Peace or any other reasonable plan for preventing wars in the future, will be put into operation. There are times when it seems to me that we are becoming infected with the microbe of militarism, and we may follow the footsteps of the European nations which led them to overwhelming misery and disaster. One of two ways we shall go I think. One road will lead to some sort of a workable international agreement which will insure peace or at least make the danger of future wars very remote, or we shall take the other road which leads to even greater military preparedness than ever. If we take that road the United States will become, perhaps, the greatest military nation of the world, and sooner or later will incur the enmity and jealousy of all the other world powers. Foreseeing this condition as I think I can, I am not disposed to be over critical about plans to prevent that condition. I would be willing to give a plan that looks reasonable and workable, a trial at any rate.

Lure of the Pork

It is estimated that at the end of the fiscal year June 30, 1917, the treasury of the United States will show a deficit of at least 180 million dollars and it may reach more than 300 millions. Is any serious effort being made to cut down expenses on that account? Nay, nay; there is not. The average congressman conceives it to be his highest duty to grab as much pork as possible. To paraphrase: He comes home rejoicing, bringing back the pork.

Not all of the members are that sort. Here and there is one who lifts up his voice in opposition, but generally the band wagon rolls rapidly and joyously over his prostrate form. Neither as a rule does he get any praise from his constituency for trying to protect the public treasury. They insist that he was a chump because he didn't get some for them while the getting was good. The last public building bill was carried thru the lower house in 20 minutes, passed without a roll call, and appro-

printed 35 million dollars for public buildings 80 per cent of which, according to Congressman Frear of Wisconsin, was waste or will be if it passes the senate, which it probably will do.

Formerly public buildings were granted only to towns of fairly good size, but in the last congress and this the bridge has been taken off and towns of a few hundred population are to have buildings that will cost \$50,000 or \$60,000. Unless the extravagance is checked in a short time wherever two or three are gathered to pitch horseshoes at the rear of the country blacksmith shop there will come the public building also.

Congressman Frear seems to be making a sincere and gallant fight against these annual raids on the public treasury, but I am not very hopeful that he will accomplish much in the way of reform. At the smell of pork congressmen break over party lines and get together for a common purpose.

Perseverance Won at Last

"That," said the old resident as he watched a rugged, gray haired and gray bearded man drive a brand new automobile up in front of the hotel in a Central Kansas town, "is Abe Simpkins. Abe is one of the most substantial citizens in this county just now, probably could draw a check for \$50,000 and have it honored at any of the banks which happened to have that much currency on hand; but when it comes to going up against hard luck and finally climbing over it Abe comes near taking the bakery. Abe struck Kansas the year before the grasshoppers. He came from Illinois, a young fellow with a wife and four or five children and \$3,000 or \$4,000. He was mighty well fixed as new settlers went in those days. He took up a homestead of first class land and built him a good house and barn, that is, good for those times, and settled down to break up the sod and begin to farm. The first year he did pretty well; got a good crop of sod corn and accumulated some livestock which kept fat on the prairie grass. Of course he raised a good many worms with the corn, but it averaged up well for sod corn.

"The next spring Abe broke out a lot more ground and began to go it strong. He was of the opinion that he had the world by the tail with a down hill pull. Then came the grasshoppers. It took 'em about half a day to clean up Abe's corn and garden truck, and some young trees he had planted. Abe himself remarked after the 'hoppers had gone and he looked over the place, that for a thoro workman-like job of cleaning up those birds left nothing to be desired. They ate everything green there was about the place and then tackled the green paint on the house. As a result a number of them suffered from painter's colic for several days afterward.

"Abe had spent practically all his money for buildings, farm machinery and some livestock. After the 'hoppers left he had nothing with which to feed the livestock and as his neighbors had no more than he had there was no chance to dispose of the animals and most of them starved. Late that fall a prairie fire swept over Abe's place, burned all his buildings and some of his livestock that had not starved to death. Abe and his family escaped with their lives but that was about all. The next year Abe managed to get in a crop part of which was eaten up by the chinch bugs, part by the army worm and part dried up and blew away. The next year there was enough rain to make up for four dry years and Abe lost everything in the way of crop by floods and wet weather. The next year he managed to mortgage his land, invested the money in cattle and lost all of them with Texas fever. Along in the early 80's there were three dry years in succession during which Abe didn't raise enough crop to feed a healthy katydid. It got so dry at times that it was necessary to prime the mourners at a funeral before they could shed tears for the departed. In 1889 Abe raised a bully corn crop which he sold at 10 cents a bushel. He applied the proceeds as far as they would go on payment of the interest on his mortgage and gave a chattel mortgage on his two milk cows to secure the balance of the interest. It was along in the 90's when Abe's troubles culminated by getting a leg broken and seven ribs caved in. While he was recuperating his wife and children were all attacked at once by the smallpox. At the end of 30 years after he came to Kansas Abe hadn't a cent of cash and his farm and livestock were all mortgaged to the limit. While he was in this financial condition he got up

on his barn to patch a hole in the roof, fell off, broke his shoulder, dislocated his hip and sprained his back so that he was not able to get out of bed for three months. At last the tide turned. Things began to come Abe's way. One year he raised 3,000 bushels of wheat which he sold for a dollar a bushel and had 50 acres of alfalfa which netted him \$50 an acre. When luck began to come his way it came as fast as the hard luck had come before. Then some oil prospectors came round and leased his farm, put down a well and struck a gusher. Abe's royalties are now \$5,000 a month and he is grieving because there isn't a bird around his place that he can throw the money at.

"Prosperity hasn't made a fool of Abe. When a man complimented him the other day on being a shrewd financier he laughed. 'Shrewd financier, nothing,' he said. 'I'm a case of 90 per cent luck and 10 per cent bull headed stubbornness. If any other man had stuck to a losing game for 30 years I would have said that he was a fool. I stuck, not because I was smart, but because I was such a chump that I couldn't figure where else I could go to make a living.'"

An Industrial Army

I have been requested to publish again the outline of a plan for an industrial organization which would take the place of all our present military organizations and which could be utilized immediately in case the necessity ever should arise for defending our country against aggression. The primary object of this plan is industrial and social, not military. The military feature of it is merely incidental, and in the enlightened age which I trust is to come, I hope it would never be needed. The plan contemplates doing without professional soldiers entirely. It contemplates the developing of the best trained citizenry the world has ever known, but organized on a democratic basis in which military caste and military snobbery will have no place.

I should have the government establish in every state in the Union a great industrial school which every youth of ordinarily sound body and mind, between the ages of 16 and 22 would be permitted to enter. At the time of his entry he would be enlisted for six years. These years would be devoted to literary and industrial training with sufficient military training to enable the students to understand military organization if ever such organization should become necessary. The first year would be devoted largely to testing the capacities of the various recruits with the purpose in view of putting them at the particular kinds of work to which they were best adapted. It is my theory that very few human beings are created for no purpose. I believe that almost every human being can become a useful and contented member of society if only he can be placed in the position he is best adapted to fill. I also know that there are a vast number of misfits in the world caused generally by the fact that they have never been trained to do the things they are calculated to do. The average youth does not know what he is best fitted to do, and neither do his parents know. As a result he goes along blindly with his educational preparation for life, very often wasting a great deal of time and energy on things that never will be of the slightest benefit to him in after life and very frequently getting into a line of work to which he is not adapted. As a result he is a failure, complete or in part, and is never happy in his work.

Under the guidance of experts the recruit in the industrial army would be tried, shifted from place to place until that place to which he was best fitted would be found.

I should abolish West Point and Annapolis. The teachings of those institutions are undemocratic and calculated to create caste and snobbery. Promotions would be entirely from the ranks and based on merit alone. While the members of this industrial army would be expected to render obedience and respect to their superior officers while on duty no social line would be drawn when not on duty.

Punishment for desertion in time of peace would be abolished entirely. If any member of the army became dissatisfied he would have the privilege of resigning from the service. If he was guilty of criminal, disorderly or ungentlemanly conduct he would be discharged, but there would be no deserters hiding thru the country with rewards offered for their capture.

In connection with these training schools the gov-

ernment under this plan would establish great industrial plants, workshops where they would build engines, motor trucks, railroad cars, armament, clothing, everything in fact that might be needed by the industrial army.

There would be operated also in connection with each training school great farms where every branch of agriculture, horticulture, floriculture and stock raising, would be carried on in the most scientific manner. The students would be thoroly trained in every line of work, the building of roads and bridges, developing water powers, conveying power by electricity. In short every department of human industry would be put into practical operation. At the end of the six year term the student would not be permitted to re-enlist but would be placed on the reserve and might be called on for service if necessary either in a military way or if his service was required in civil life.

In the course of a few years there would be built up a reserve of millions of the most efficient, best trained men the world has ever known or any country has ever had at its command. It would be organized democracy. It would be an organization to which any parent might be proud to have his sons belong.

The Allies' Terms

The London Spectator of recent date publishes what it professes to believe will be the terms demanded by the allies as conditions precedent to peace. Here they are:

The peace terms are to start from the statu quo before the war, this including the evacuation of the whole of Northern France, Belgium and Luxembourg, and of all lands taken from Serbia, Rumania, Russia and Montenegro.

Alsace-Lorraine is to be restored to France. The Danish portion of Schleswig-Holstein is to go to Denmark.

Posen, Polish Prussia and Austrian Poland are to be added to the new subkingdom of Poland which the czar has pledged to create. The Slavs of Bosnia, Herzegovina, Dalmatia, Croatia, are to be created into a new kingdom. Bohemia is to be an independent state.

The Rumanian section of Transylvania is to be added to Rumania.

The whole Austrian Tyrol, plus Triest, Istria and the other portions of Austria which are Italian in blood or feeling, to be added to Italy.

Turkey to yield Constantinople and the straits to Russia.

The Armenians to be put under Russian tutelage. The Arabs to be freed, while Syria, Asia Minor and Mesopotamia are to be under external protection guaranteeing tranquillity.

The German colonies to remain in the hands of the Entente.

A money indemnity must be paid for the ruin Germany has done in Belgium, France, Serbia, Montenegro.

As regarding shipping, Germany to make reparation in kind for all ships of commerce destroyed, ton for ton, neutral shipping to be replaced only after all the demands of the Allies have been satisfied.

The German navy to be handed over and distributed among Entente nations.

As a guarantee against future war, the Allies are to insist upon the democratization of the German government.

The Kiel Canal to be neutralized under an international non-German commission, including the Entente countries, the United States and other neutrals.

Of course these terms are impossible. Germany would consent to accept such terms only when utterly exhausted and unable to fight any more. Certainly the most pronounced sympathizer with the allies, who is reasonably well posted, does not believe that Germany is exhausted or anywhere near it. However, to me there is encouragement in the fact that both sides are even willing to talk about terms of peace. I am of the opinion that both sides are bluffing to a very large extent and that both would be glad to have peace terms very different from what they state now in their public declarations. As I view the matter, we in the United States are not interested in the division of territory. We are not particular whether Alsace-Lorraine shall be retained as part of Germany or France beyond the fact that our sympathies are with the republic of France rather than with the autocratic government of Germany. The one thing that we are vitally interested in is the overthrow of militarism wherever it exists and the establishing of world-wide confederation of peace.

Mostly Commendatory

I have here a very interesting and well written letter from C. E. Robel of Stonewall, Okla., in which he commends and criticizes the editorial page of this agricultural guide. He agrees with me on the subject of cremation and partly agrees with me concerning the European war and partly not. But let me quote:

Your admission that the forts of Belgium were against Germany is what certain German sympathizers have told me, and I refused to believe it. If the facts are as you state, Germany's assertion that Belgium's neutrality was a sham must be true, which I was reluctant to believe. I have always denounced the invasion of Belgium by the German army.

Admitting that the fortified places in Belgium were nearer the German than the French frontier, which I presume no one will deny, how could that in any way justify the invasion of the country by the Germans? In fact prior to the invasion or at the time it was being accomplished, the German chancellor frankly admitted that there was no justification for it except the military advantage it would afford Germany in the attack on France. It was only after the outrage was committed and Germany realized the terribly bad impression made on neutral

nations, that an attempt was made to justify it by the German government. The justification was on a par with that of the burglar who attempted to justify his breaking into a house by saying that he found a loaded revolver in one of the bureau drawers and therefore concluded that the owner of the house might have intended, to shoot him with it.

My correspondent also proceeds to criticize Belgium for former atrocities practiced in the Congo. How that could in any way justify Germany I cannot understand. There is no question about the atrocities practiced in the Congo. For that matter there is not a nation engaged in the present war that has not at some time in the past been guilty of cold-blooded crimes. In the past the history of Great Britain is black with crimes committed. Who is there that can read the history of the cruelties practiced by Russia without a shudder? The record of France since she has been a republic has been pretty clear, but you only have to go back a little farther to find a record that is damnable. In a way perhaps the present war is a just retribution for wrongs and crimes committed by all the nations engaged in this conflict. But the past sins of the other nations can in no way excuse the German government now. No matter what claims may be made by the kaiser or the German chancellor the German government precipitated this hellish conflict. The German military party had been preparing for it for more than 40 years and believed that the opportune time had come when no other nation was prepared. The kaiser and his advisers believed that they could clean up the job within a few weeks, and they had reason to so believe. If they had not so believed this war would not have occurred, at least not now. My opinion is that militarism which was spreading all over Europe would sooner or later have brought on a war. I think that result was inevitable, but Germany precipitated this war. I have no use for monarchical forms of government. I regard the Russian government as one of the worst on earth. The one hope I have that good may come out of this war is the hope that it may kindle the fires of democracy that will consume every throne in Europe.

The Farmers' Share

In a few months the township assessor will be around gathering data for the grain men and meat trust. The farmer will be asked to list every acre of wheat he owns, how many cattle, hogs and hens he has. Then, next summer the board of agriculture will have its agents in every township to make a report at intervals on the condition of the wheat and livestock. At harvest time, with the acreage already known and other information at hand, these reports will show exactly what the farmer will have; and before a bushel of wheat is threshed, the price will be set. Then there are the packers: They will know how many cattle the farmers have on hand and the approximate increase and also the same of the hog crop. The egg trust, too, will know about what the hens are going to do.

Now all this information is supplied these exploiters and gamblers gratis by our board of agriculture for the benefit of whom? Not the farmer. Does the government give out to the world just how much ammunition it has on hand and the vulnerable places in its fortifications and defenses, and does it go down into the business of the manufacturer and coal barons and tell the public about their output, and thus give the speculator a chance to corner their product and set the price of it? Gambling in food stuffs is a crime against society and the producer and consumer suffer alike, and the board of agriculture makes it possible for such a crime to exist.

Mr. Hartigan, commissioner of measures and weights in New York, said recently that the farmers were responsible for the high price of wheat because they had suppressed the facts in regard to their crop being much greater than they had reported it to be. Now the fact is the farmers never thought of such a thing until it was suggested by our astute government official, but if the farmer would not so boastfully give in his acreage of wheat, it might tend to confuse the speculator a little in making his estimates. It is perfectly right for a farmer to turn in all taxable assets to the assessor, but it is not right to turn in non-taxable assets when it can be made use of against him.

If we have a good wheat crop next year what will the price be? Wheat will not bring what it is worth, because it costs as much to produce a bushel of it one year as another. What we need is a large crop or a small one, and then we will know what we are doing. If we have a short crop one year, we can even up another year when we have a good one.

Wellington, Kan.

Mr. Malone may be right. I have heard this same complaint a good many times from farmers and others. My own opinion is that publicity concerning the acreage of wheat sown has little effect on the price of the next year's crop. Neither do I think it would help matters any if no government statistics were gathered and published concerning crops. The grain speculators would get the information just the same.

County Government

I think our present form of county government is not businesslike or efficient. It is too much of a pie counter. We have too many offices, too much lack of responsibility and pay too much for most of the work done. We pay \$1800 a year for work that a \$700 or \$800 clerk could handle perfectly well. A business institution that would pay \$1800 to a man to supervise the work of each clerk would go broke on about the first payday. That's what we are doing in our county affairs.

Why not change it, and put business sense into the work? If I had the power here's what I'd do: Have three commissioners elected as at present from three districts, but by a county-wide vote. This would make each commissioner responsible to all the county, and avoid petty politics to pull advantages to his district.

These commissioners would employ a county manager, under civil service rules, who would be directly responsible for the conduct of the business

of the entire county. The clerk, register of deeds, probate judge, clerk of the court, and treasurer would be told goodby, and the manager would employ whatever clerks were necessary to handle the work. The commissioners would act in the same capacity to the county as the directors of a bank do to a bank, and should be subject to recall.

A system of accounting and of reports should show every month the state of the county business, and what was received for the county money.

Every county in the state should use the same book and blank system. Our state printing plant should supply the blanks and books at cost and two or three men should be attached to the state auditor's office to audit the county books at least once a year, with power to call for a statement at the close of any month.

I think this would help very much in securing greater efficiency in county business. What do you think?

A. F. TURNER.

It occurs to me that Mr. Turner has made some suggestions which are well worth considering. If it were possible I think it would be well to eliminate partisan politics entirely in selecting county commissioners, and I am rather inclined to the opinion that this can be done. I notice that the voters of Kansas are paying less and less attention to party lines in the selecting of their local officials. It is not at all uncommon for example, to elect a Democratic county official in a county that is overwhelmingly Republican and it is only fair to say that Democrats in Kansas are just as apt to cross the party lines and vote for local officers of an opposite political faith as are the Republicans. This makes me believe that the people of this state are ripe for the election of a non-partisan board of commissioners to oversee the affairs of the several counties.

On the whole I am inclined to think well of Mr. Turner's suggestions and should like to see them brought to the attention of the legislature which meets next month.

Why Was It?

It is a mystery to many Socialists why more ballots were not cast for the Socialist nominees. Socialists may well be divided into three groups, ethical, class-conscious and scientific. Those only who comprise the ethical and class-conscious groups were surprised at the election returns. Students of the Marxian school have had economics and materialism drilled into them so thoroly that it becomes second nature with them to look in that direction for an explanation of the act of any considerable body of people.

Aside from the force of economic determinism which decrees that men shall produce the means of life by working together co-operatively, as they are now doing under capitalism for capitalists, there is a material reason why they will not always continue to do so. The incentive of capitalist employers is the profit or surplus products, that the office of employer enables them to retain. The force of economic determinism is continually enlarging and consolidating the physical machinery of production and distribution. A good illustration of this is the oil pipeline reaching from the Gulf of Mexico to the Atlantic sea coast, by way of the Texas, Oklahoma and Kansas oil fields, Kansas City, Mo., and Whiting, Ind., and extending thru Pennsylvania oil fields to Newark, N. J. This means that the number of employees decreases, while the number of employees relatively increases. Employers, like other people, are selfish and grasping. Because they can, they take more of the products of labor than they can consume. The wage of the workers will not buy back all that the employers do not consume. In 1912 the surplus wealth product piled high in warehouses; the machinery of production and distribution was slowing down; workers were working on short time or tramping the highways in search of a job. They were asking why they could not work. Socialists were telling them why.

In 1916, because war had consumed the surplus products and clamored for more, every machine and every worker was going at top notch speed. True, the workers were exploited as before, but they had jobs and pay envelopes that kept them busy and from starving. They were not asking questions. They were not studying politics. They were easily herded into the old parties with such catch phrases as, "he kept us out of war."

The destructiveness of modern warfare is forcing people to believe, like Jesus of Nazareth, that "All they that take the sword shall perish with the sword." Fear of destruction, I think, finally will end war.

With the ending of war and again the accumulating of surplus wealth with the resultant slowing down of the machinery of production and distribution, causing idleness and starvation of the workers, will again come the questions from them, "Why do we starve in the midst of plenty?" "How can we feed ourselves?" The scientific Socialist will again answer, "Because of capitalism you starve. By your ballots establish an industrial democracy wherein each of you will have the opportunity to labor. For your labor you will receive the product of it. There will be no private masters to take the lion's share while you starve."

Weed, N. M.

W. P. CALKINS.

I am of the opinion that it is rather profitless to spend time and space in speculations concerning why an election went as it did. There are so many influences that operate on the minds of voters that the result of an election cannot be attributed to any one cause. Perhaps the reason for the remarkable falling off in the Socialist vote, or at least one of the principal reasons, is that feeling that most men have that they should cast their votes so as to count for something, as they think. In other words most men like to vote for a party which they think has at least a fair show to win. Of course it was known that either President Wilson would be re-elected or that Hughes would be elected in his place and so a vast number of men and women whose real sentiments were more in accord with those of Benson than with either of the other candidates, did not vote for him because they had a choice as between Wilson and Hughes. In other words they reasoned that as they must have either Hughes or Wilson they would better vote for their preference as between those two. It is that feeling which makes it so difficult to build up a third party.

Big Ben A Profit From Water

A
Westclox
Alarm



FIVE A. M. for factory men who beat the time clock at the works.

Big Ben gives 'em their breakfast call long before the whistle toots. They used to pound the pillow right up to the last dot—until they learned a better way—as the paymaster soon found out.

Give Big Ben a trial, yourself; make your roll-over-time pay.

You'll like him face to face. He's seven inches tall, spunky, neighborly—downright good.

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Better Management is Required With Pumping Plants in Kansas

By H. B. Walker

DURING the past two years I have made investigations on 125 pumping plants in Kansas to study the methods and practices of farmers who are pumping for irrigation. These investigations were made of typical farms throughout the western third of Kansas. The general belief among the farmers owning pumping plants is that irrigation is profitable. Nearly every one "thinks" pumping for irrigation pays, but when it comes to backing these impressions with figures to show net profits there is a lack of definite knowledge.

Among the 125 pumping plants visited less than 5 per cent of the owners knew in dollars and cents whether their plant was profitable. Many had reasons to believe it was a good investment and in every instance the owner of a plant felt sure that it would pay if carefully handled. In every instance where a man had kept a record the pumping plant was a profitable investment. This in itself is encouraging. It was very noticeable, moreover, that a man who had kept a record was a careful operator of his plant.

Kansas farmers are going to continue to put in irrigation plants and many will need outside capital to help them in their development. How well are we fortified with facts and figures to attract the men who have money to lend on Western Kansas irrigation land? The first question the mortgage company will ask when solicited for a loan is: "Does pumping pay?" This will be followed by many other questions, such as: "How great are the profits? What does a plant cost? Is the water supply unfailing? How large a yield do you get with irrigation? What are now your best irrigation crops?"

My personal investigations of pumping plants impress upon me more and more how difficult it would be to offer convincing proof to an outside investor concerning the advantages of loans in irrigation pumping development. I personally feel that irrigation does or will pay, and I have faith in our development but faith alone does not interest the man who is making the investment. We must have this faith supported by facts.

Judging from the records obtained on the 125 irrigated farms in Kansas, at least 40 per cent of the individual farm pumping plants of the state are non-revenue producing investments. We have in Kansas approximately 225 farm irrigation pumping plants. Practically 90 of these plants are not operated in a way which will produce revenue, and the investment is placed so depreciation is always going on. This lack of operation is not generally due to poor pumping equipment or lack of water; it is due almost entirely to the indifference of the owner. It must be admitted that an efficient pumping plant is an important factor in successful irrigation, but among the many Kansas idle plants are numerous first class installations. A well with a good pump and suitable power does not insure profitable irrigation. There must be a man behind the plant to consistently and persistently operate the machinery to supply the water for the best yields. The greatest boost for Kansas in the way of irrigation is not more wells and pumps to throw more water, but men with practical irrigation experience to operate these existing idle plants.

The idle plant problem emphasizes the "personal equation" in the success of in-

dividual pumping plant operation. With every other factor perfect, if the individual has no natural liking for irrigation, his efforts are almost sure to meet with failure. There are many misfits in irrigation work. We must not, therefore, judge pumping by individual conditions but we should form our conclusions more from average conditions. Quite a large number of our idle plants were installed to demonstrate that water could actually be secured in quantities sufficient for irrigation. These demonstrations so far as they were intended to apply were successful. It has been definitely shown that the water is there and machinery does lift it to the surface. A new settler, however, who comes into our pumping district to investigate conditions, views with considerable apprehension the idle pumping plants, and why should he not do so? Every unused irrigation pumping plant is a monument to a dead investment.

In quite a great number of cases irrigation would be more benefited than retarded if some of the investments now placed in idle pumping plants had been placed instead in livestock. It is encouraging, however, to note the success-

farmers are mutual a more rapid progress can prevail.

A majority of the pumping plants in Kansas are shallow water installations; that is, plants where the lift is approximately 40 feet or less. The shallow water district of Kansas is by no means yet developed. In fact we have just commenced to develop this large area of land capable of irrigation. Other things being equal the lower the lift the cheaper the cost of pumping the water. Conditions of soil, however, are an important factor in the amount of water necessary to produce a crop. The average lift for the plants investigated was 33 feet with a maximum lift of 103 feet. It will be noted from this average that Kansas is developing more rapidly the lands where the depth to water is comparatively shallow.

Kansas farmers should consider low pumping heads as a desirable feature for an irrigation project. This is an economic feature not only in the operation, but also in the reliability of the plant.

In Kansas where the pumping plant is not used for a very long period during the year the electric motor is a desirable power. A first class motor represents an investment of about 30 per cent of the cost of an oil engine of equivalent horsepower. The depreciation in an electric motor is relatively small.

With a slight depreciation and a low investment we are eliminating two sources of expense which must be considered in pumping plant operation. When these are considered as they should be electric power at a relatively high rate quite often has an economic advantage.

My investigations included 16 typical shallow water electric driven plants in the Garden City district. In no case did I find the farmers dissatisfied with the electric driven plant.

The oil engine where well housed and not overloaded is giving excellent satisfaction. This is the type of power that must be quite generally used where irrigation is practiced by only a few farmers.

The average cost of pumping installations in Kansas as determined on data from 100 plants is approximately \$75 a horsepower. Electrically equipped plants are ordinarily 10 to 20 per cent cheaper. Taking 16 typical engine plants and 16 typical motor plants in the Arkansas River valley I find that the oil engine plants cost \$1,330 a thousand gallons a minute capacity, and the electrically operated plants cost \$925 a thousand gallons a minute capacity. This gives a decided advantage to the motor driven plants. It should be remembered however, that comparisons of this kind are not absolute, but they do indicate in a general way the relative costs.

Using the data obtained from my investigations I estimate that Kansas farmers have invested approximately \$400,000 in pumping plant equipment. This is exclusive of corporation investments. These plants, if operated to their capacity, are capable of irrigating 25,000 acres. It is doubtful if 10,000 acres was irrigated by these plants in 1916. My investigations, which cover about half of the total number of plants in the state, would indicate an irrigation of less than 8,000 acres.

To get the most out of their investment pump owners should operate their plants to capacity; \$400,000 is too great an investment for irrigating 8,000 acres.



Running a Test on a New Plant; the Pumps Need to be Operated More on Kansas Farms than They Were Run This Year.

To Grow the Alfalfa

Common Varieties are Adapted to the Conditions Encountered in Kansas

BY R. A. OAKLEY

VARIETIES of alfalfa have been recognized commercially for 20 years, but only recently have they been given really serious attention. Prior to 1898 no commercial distinction was made between the various lots of alfalfa seed sown in this country. Coincident with the introduction of alfalfa into the various sections of the United States there developed an interest in varieties or strains for special conditions. The commercial alfalfas of this country may be divided into five somewhat distinct groups, each containing strains or varieties that vary considerably within themselves. These groups may be described briefly as follows:

The common group includes the ordinary purple-flowered, smooth alfalfa, of which there are numerous regional strains generally grown thruout the western part of the United States. This group is adapted to the conditions in Kansas. It is doubtful if any of the other varieties are of commercial importance here.

The Turkestan group includes alfalfas that have been developed in Turkestan. They differ from the common alfalfas in that they are somewhat shorter and more spreading in habit of growth and are slightly more hairy. No commercial distinction is made between the various strains from Turkestan, all of them being sold under the name "Turkestan."

The variegated group includes the alfalfas that have originated from a cross between common alfalfa and the yellow-flowered species. The Grimm, Baltic, Canadian variegated, and sand lucern are the best known examples of this group. The nonhardy group includes rather distinct varieties that are very susceptible to low temperatures. They are, in general, very erect in habit of growth, recover quickly after cutting, and have a long growing period. The Peruvian and Arabian varieties are members of this group.

The yellow-flowered group includes the various forms of the yellow-flowered species. They are easily distinguished from members of the other groups by their yellow flowers and crescent or sickle shaped pods.

Comparatively little is known with regard to the origin of common cultivated alfalfa, altho there is good reason to believe that it developed in Western Asia and was one of the first plants to be cultivated solely for forage. Since alfalfa naturally is an open-fertilized plant, it is difficult to determine just how many strains are included in what we now call the common variety.

The alfalfa seed that was first sown in this country was introduced from various parts of Europe, but the stock from which most of the common alfalfa of our Western States has been produced was brought to Chile from Spain, and after having been grown there for many years was introduced into California about 1850. For lack of a better term it has been designated as "common alfalfa," or, to be more specific, the term "common alfalfa" has been used to include all of the alfalfas that are not clearly of hybrid origin or that do not have fairly distinct and uniform varietal characteristics, even tho within this



High Yields of Alfalfa can be Obtained only from a Good Stand. Pure Seed With Strong Germination Is Required.

group what are known as regional strains are coming to be recognized.

In most lots of common alfalfa there occur some plants that grow more quickly than others after being cut. These plants also have a tendency to produce somewhat heavier yields and differ from the others in general habit of growth. They are more erect and have comparatively small crowns, which are produced well above the surface of the ground. In contrast to these there are plants that are slightly procumbent in habit of growth and have comparatively broad crowns, which are produced somewhat below the surface of the ground. The plants of the first type are favored by mild climatic conditions, but succumb readily to severe winter conditions. This type of plant is sometimes referred to for convenience as the southern or nonhardy type. Plants of the second type are hardy and predominate as a result of the elimination of the more tender individuals in strains that have been developed in cold climates. This particular type is often referred to as the northern or hardy type. These two types of plants supply a basis for the development of regional strains, which, as they are at present defined, are produced when common alfalfa is grown for several seed generations in definite localities where eliminating conditions of one kind or another normally prevail.

To illustrate what is meant by "seed generation," the seed produced from the original seeding may be said to be the first seed generation. If this be sown and seed produced from it, such seed would represent the second seed generation, and if this practice be continued for a considerable number of generations under eliminating conditions it will have a tendency to produce a fairly distinct strain of alfalfa.

The names "Kansas-grown" or "Montana-grown" as used in the general seed trade are not necessarily distinctive. The mere fact that a certain lot of alfalfa seed was produced in Kansas or Montana is of no importance unless such lots of seed were produced as a result of several seed generations grown in these states. The same is true of seed indicated in the trade as "dry-land," "irrigated," and "nonirrigated" alfalfa and it is safe to say that much undue discrimination has resulted in connection with their sale. Just how many seed generations are required before a variety growing in one locality assumes rather definite characteristics doubtless varies with the nature of the eliminating climatic conditions and cannot be estimated definitely. Fortunately, much of the seed that is grown in sections that produce seed with a fair degree of consistency has come from stock that has been grown in these sections for several seed generations. However, it is always well for a prospective purchaser to investigate this point if possible. The history of seed indicated as "dry-land" or "nonirrigated" should be investigated carefully before purchasing if a price materially above the prevailing price for ordinary seed is asked, inasmuch as the history of such seed is often very uncertain.

Before buying alfalfa seed there are three points upon which the purchaser should have information: The name of the variety, the section of the country in which it was produced, and the quality of the seed with regard to both germination and purity. Unfortunately, it is not possible to distinguish between varieties or strains of alfalfa by the appearance of the seed, and the tests that so far have been developed to assist in this connection are not of much practical

value to a farmer. Except in the case of imported Russian Turkestan seed, there is no easy means of telling from the appearance of a sample of seed where it was grown. It is important, therefore, that dealings be had only with thoroughly reliable and intelligent seedsmen and growers.

The viability of the seed, or its ability to germinate, is quite clearly indicated by its appearance. Plump seed of a bright olive-green color almost invariably germinates well, while shriveled seed or seed of a brownish color usually germinates poorly. With age alfalfa seed turns a brownish brown, and while some viable seed may possess this color, such seed should not be purchased even if it is offered at a price materially less than that asked for seed of a fresh olive-green color. When a germination test is desired it can be made by placing 100 seeds between cloths or blotting paper and keeping them moist and at a temperature of about 70 degrees Fahrenheit. After five or six days most of the readily viable seeds will have sprouted. There will be some, however, that will remain hard, especially if they are of the variegated varieties. Many of these hard seeds will grow when put in the ground, and therefore they should be considered in estimating the percentage of germination. The United States Department of Agriculture, thru its main seed laboratory at Washington, D. C., and branch laboratories, is prepared to make a limited number of germination tests free of charge, but to prevent delay samples should be mailed to the department at least two months in advance of seeding.

With regard to the purity of alfalfa seed, every farmer should be able to recognize readily the most important weed seeds and other impurities that are commonly found in it. Seed to be acceptable should contain not more than 2 per cent of impurities. At present there is almost no attempt to adulterate alfalfa seed in this country, but every lot should be carefully examined for seed of noxious weeds, especially dodder, before it is purchased. The seeds of dodder are smaller than those of alfalfa, more nearly round, and have a pitted surface which can be detected only by the aid of a lens. As dodder is a troublesome weed and its seeds cannot readily be separated from alfalfa seed, dodder-free seed should be demanded by the purchaser. Seeds of buckhorn should always be looked for when samples of alfalfa seed are examined before purchasing. These seeds are shiny brown in appearance, boat shaped, and about twice the length of alfalfa seed. While the seed laboratory of the United States Department of Agriculture is prepared to make a purity analysis of a limited number of samples free of charge for private individuals, it is very desirable that every farmer acquaint himself with the impurities and noxious weed seeds that alfalfa seed commonly contains, in order that there may be no serious delay in purchasing seed for sowing.

The commercial production of alfalfa seed in this country is confined almost exclusively to that portion lying west of the one hundredth meridian where irrigation and dry-land farming are practiced. Alfalfa does not produce seed satisfactorily under humid conditions, and therefore it is not profitable in most cases to attempt to grow seed in the Eastern states. It is true that there are limited areas in these states where comparatively small quantities of alfalfa seed are produced, but they are exceptions. Ordinarily it is much more profitable for the Eastern farmer to purchase seed produced here in the West than to grow it.

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Spray the Home Orchards

A Small Hand Machine Costs but \$14.75

BY F. B. NICHOLS, Associate Editor

GOOD apples can be raised in Kansas from home orchards if they are sprayed. There is a need for small spraying outfits. A good outfit may be purchased for \$14.75, which can be operated easily, and which may be used for other purposes on the farm.

If a home orchard is pruned, sprayed and cultivated it is possible to obtain good returns from it. Unless one is willing to give the care required it is better to cut the trees, and to use the land for other purposes. The time has passed in Kansas when good fruit can be raised without spraying; insect and fungous pests are here, and they will always be with us.

"There is a growing interest in spraying home orchards," said J. H. Merrill, assistant professor of entomology in the Kansas State Agricultural college, a few days ago. "A great many outfits will be purchased before the season starts in 1917. A good pump, with a capacity of 75 gallons an hour, may be bought for \$14.75. The working parts of all pumps should be of brass, so they will not corrode from coming in contact with the spray mixtures."

"As a man would ordinarily apply from 5 to 7 gallons of spray material a tree, he would finish the spraying of 10 trees, which is perhaps an average number on Kansas farms, in 1 hour. The four sprayings for the season would take 4 hours. The cost of materials a tree for each spraying would be about 5 cents, the four sprayings 20 cents, or a total of \$2 for the cost of materials. The average yield of 10 trees, such as are ordinarily found on a farm in a neglected condition, is practically nothing but cider apples. If these trees are sprayed, they should average two barrels a tree. Figuring an average value of \$2 a barrel would make \$40 income for the 10 trees. His pump and accessories cost him \$14.75, his spray materials \$2, making a total of \$16.75, but as his income was \$40 he has a net profit as a result of 4 hours' work of \$23.25 for his first year. The pump is then paid for and the following years the spray materials would be his only outlay, so that every year he would have a net profit of \$38."

"Before spraying, a man should realize that it is not good economy to spray dead or diseased limbs, therefore these should be removed from the trees. Furthermore, if the trees are so high that he cannot advantageously spray them, then he had better remove the tops from these trees, to make spraying possible. When removing the limbs, he should paint every wound on the tree. He should do his pruning with a saw rather than with an ax, and make the cuts close to the limb from which he is removing a branch."

"As the spores of apple blotch are liberated about 19 days after blossom-fall, it is advisable to apply the "three-weeks" spray early enough to have all spraying completed on varieties which are likely to be blotted before the 19 days have expired. It should be put on 15 days after blossom-fall instead of waiting three weeks."

It is not a great deal of trouble to learn how to spray trees. The best plan for a beginner is to study a spray calendar, which has been worked out for his home conditions. Winter applications of lime-sulphur sprays are essential where there is an infestation of San Jose scale, and they will pay under other circumstances. The lime-sulphur mixture may be made at home, but when one has a small orchard it usually is best to buy the commercial material, and dilute it according to the directions printed on the containers.

Here is a spray calendar for Kansas conditions. It has been prepared by the Kansas State Agricultural college. The sprays recommended for the growing seasons of apple trees are:

1. Cluster cup.—This spray is composed of 1½ gallons of commercial lime-

sulphur and 2 pounds of arsenate of lead to 50 gallons of water. It is applied in the interval between the opening of the cluster buds and the opening of the blossoms. It prevents a large percentage of the normal curculio damage. It is also valuable in controlling apple scab.

2. Blossom-fall.—This spray has the same composition as No. 1. It should be applied after the petals have fallen from half to two-thirds of the blooms and before the calices close. This spray controls a large percentage of the first brood of Codling moth and aids in the control of curculio.

3. Fifteen days' spray.—The composition of this spray should be the same as for Nos. 1 and 2, or if apple blotch is present Bordeaux, 3-4-50, should be substituted for the lime-sulphur. If the weather is damp and threatening at the time this spray should be put on, it will be safer to use the lime-sulphur and then as soon as the weather permits a spray with Bordeaux should be put on. This also aids in controlling curculio and Codling moth.

4. Five-weeks' spray.—If blotch is present in the orchard another spraying with Bordeaux should be put on at this time to have good control of it.

5. Ten-weeks' spray.—This spray is applied about 10 weeks after blossom-fall. It is composed of 2 pounds of arsenate of lead with the addition of Bordeaux if blotch is present or if bitter rot is expected. This spray is valuable in controlling the second brood of Codling moth.

6. Third-brood spray.—Where there is damage from a third brood of Codling moth another spray of 2 pounds of arsenate of lead to 50 gallons of water should be used just as the fruit starts to ripen.

In ordinary seasons and under ordinary conditions, sprays 1, 2, 3 and 5 will be sufficient.

A Day on a Kansas Farm

Last Monday, relates the Atchison Globe, nine hogs were butchered at the A. M. Andrews farm northwest of town, and by 3 o'clock that afternoon the hogs were cut up, after which Mr. Andrews, his wife and daughter, Grace, went into action, and this is what they accomplished by noon on Wednesday: Rendered 42 gallons of lard, had 110 pounds of sausage put away, 35 pounds of headcheese, 25 pounds of liverwurst and a 3-gallon jar of pickled pigs' feet. The hams, shoulders and side meat were all salted down ready to be smoked, back bones and ribs were placed in cold storage and at 3 o'clock that afternoon Mrs. Andrews and her daughter went to a party at the home of Mrs. Will Underwood. It is only fair to the town girls to say that Mrs. Andrews was a town girl before her marriage. She was Miss Mary Ennis, daughter of Peter Ennis, for many years employed at the Missouri Pacific shops, and his wife.

Pruning for the Orchards

The eighteenth edition of The Pruning Manual, by L. H. Bailey, has just been issued by The Macmillan Co., 66 Fifth Avenue, New York, N. Y. This probably is the most popular book issued on orcharding; the first edition appeared in 1898. The price is \$2. It is well adapted to the conditions in Kansas.

"Beg pardon, ma'am," said the butler, "but your son has just eloped with the cook."

"Yes, I put him up to it," replied Mrs. Uppson. "She's the best cook we ever had, and I didn't want to lose her."—Indianapolis Star.

Most farm woodlots in Kansas can be improved by cutting the undesirable trees.

A Good Crop Year is Coming

Anyway that's the Old Time Superstition

BY HARLEY HATCH

THIS weather should satisfy those who always fear that a few fine days in winter mean grief next spring when we ought to be sowing oats. Not that it is bad weather, five below cannot be called real cold, and when the cold is dry farm animals do not suffer. I should consider the weather much worse if we had about 6 inches of mud in the roads, fields and feedlots.

You know the old theory that a long, snug winter always is followed with a good crop season. Like all commonly accepted notions it has more than a mere superstition behind it. The long continued cold means frost which sinks deeper and deeper as the days go by and this in turn means well pulverized ground next spring. This is the main reason why a cold winter usually is followed with good crops.

Our mail carrier makes his rounds each day in a motor car no matter how cold the weather. As he uses plain water in his radiator he has some trouble. In one round, this week, his cooler froze twice and had to be thawed out on the road. If I had to run a car on the road these cold days I should have the radiator filled with the wood alcohol mixture even if such alcohol does cost \$1 a gallon. By using 40 per cent alcohol and 60 per cent water there would be no danger of a freeze if the mercury went no lower than 10 below.

When such a mixture is used it should be run out of the car at night, not because there is danger of its freezing but because it becomes so cold in the radiator that it is difficult to start the car the next day. By warming it up a little before putting it back in the car there will be no trouble in starting. The alcohol will evaporate in time and more should be added. This evaporation can be checked partly by using 5 per cent of glycerine, but glycerine is costly and will in time rot the rubber connections. However, they do not cost much, and are easily put in. To run a car in safety in cold weather means a little extra trouble but it is worth it to ride in comfort in a curtained car over a warm engine.

Santa Claus came a little ahead of time to Sunnyside school to accommodate the teacher who is to spend Christmas with relatives at a distance. Santa does not seem quite so realistic for grownups or so benevolent either as he did some 40 years ago, but the children seemed to think he lacked nothing. Even when they certainly have serious doubts they never make them public, fearing possibly that Santa would not be so generous if openly scouted.

I think the children penetrate the mystery of Santa at an earlier age than they did 40 years ago. When I was a boy 10 or 12 years old and perfectly understood all about Santa, there were playmates of my own age who believed implicitly in the good old Saint, and who would not stand for any argument on the question. But the 5-year-olds look sideways today when Santa is mentioned, altho they say nothing unless closely questioned. I asked a little boy of 5 years recently, if there was a Santa Claus. He said there was and added that he had seen him the year before at Sunnyside. After a short pause he looked down at his wriggling toes and volunteered that Santa Claus was living in Ness county now. The neighbor who jingled the bells and wore the long whiskers one year ago Christmas night has lately moved to Ness county.

There seems to be a serious shortage of coal in most localities which gives us to understand how fortunate it is at times to have a woodlot. On this farm there is about 10 acres of young timber along the creek with 225 rods of hedge. The hedge along the road is kept trimmed down but where it borders the pasture it is allowed to grow, and would provide a great deal of fuel besides many good fence posts. This hedge was cut down about 16 years ago but since that time has grown to post size. The hedge fence has many grave faults but it is not all bad; it produces the best posts and wood that grow and in addition it makes fence on which stock can feed and which will provide shelter in time

of storm. It will not carry lightning as will barbed wire, and for that reason stock kept in a field fenced with Osage hedge are seldom killed in thunder storms.

When this country was first settled the creek was lined with large trees which supplied fuel to the homesteaders. Old settlers tell me that this creek was shorn completely and that the timber growth we now have has sprung up since the land was fenced and protected. The fenced period has been about 40 years and most of the trees along the creek are even younger than that. Some die every year, and we find plenty of wood by clearing up this dead stuff and the branches broken off in occasional ice storms. The timber is mostly walnut, Red elm and ash. We never cut a live walnut but do cut many green ash as they grow in clusters of from three to six trees and are better for being thinned down to one or two. The Red elm makes the best wood and has a fuel value second only to that of Osage Orange.

A friend who lives in Missouri but who owns land in Anderson county, Kansas, writes to ask what we think about kafir as a grain crop on land which will and has produced good alfalfa. I should not consider kafir on such land in Eastern Kansas. If kafir will make on that land so will corn, and I prefer corn to kafir where it can be raised both as feed and in its effect on the fertility of the soil. Perhaps it is not so much that kafir takes out more fertility than corn as that it leaves the soil in poorer physical condition the year following. Kafir has a place on nearly every Kansas farm but that place is not on good bottom ground. Put the kafir on the higher land where the drouth hits first; if kafir has a virtue that corn does not possess it is in being able to grow on land having a small amount of moisture.

I have received several letters this winter from persons who wish to buy or trade for land in Kansas. The questions asked cover about all the points that come up in farming and cannot be answered with any degree of accuracy. For instance, one wishes to know if a certain county is good for wheat. Judging the future by the past I should say yes, decidedly, and yet I know that there have been two failures of wheat in that county in succession. If I should tell that man that it was a good wheat county and he should move there on that recommendation and two wheat failures should follow, where do you think he would place me as a purveyor of information? The only thing for a land seeker to do is to visit the locality himself and spend time enough there to post himself thoroly in regard to conditions. This he can do by breaking away from town and mixing with the farmers and getting their opinion. He will get all kinds of opinions, it is true, but out of that multitude of counselors he may glean wisdom enough to help him in his farm selection.

Now just a word as to real estate agents. I know many of them have hard names and are credited with being in the same class as Truthful James when it comes to spreading information, but on the whole I doubt whether they stretch the truth much more than men in other lines of business. By telling the exact truth and by not telling all the truth a man may give a wrong idea of any situation. The land agent tells you all the good points and forgets what is bad, but we can scarcely expect that it would be any other way. The agent who would tell you all the bad points about a farm and mention none of the good ones would make few sales. No land seeker should depend on the agent for his information; on the other hand, I think land agents price land just as cheap or even cheaper than the owner himself.

Dressed in the latest motor cycling costume, with goggles all complete, the motor cyclist gaily toot-tooted his way toward the Zoo. Suddenly he dismounted, and said to an urchin, "I say, my boy, am I right for the Zoo?" "You may be all right if they have a spare cage, but you'd ha' stood a far better chance if you'd had a tail."—Melbourne Leader.

Don't wait to put in IDEAL heating!

It is a mistaken idea to think that you have to wait until warm weather to put in an IDEAL Boiler and AMERICAN Radiator outfit.

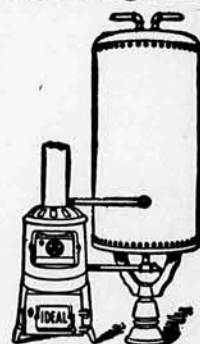
An IDEAL Boiler and AMERICAN Radiators can be put in your building just as quickly and easily in January as in August.

The AMERICAN Radiators come all assembled for placing in the rooms; the IDEAL Boiler sections are easily carried in and made up into a complete boiler in basement or sideroom. The piping connecting the IDEAL Boiler with AMERICAN Radiators is readily run up through corners of the rooms, closets or out-of-the-way places, and the outfit may be completed in a few days to your utmost satisfaction. You will then notice the striking contrast between the chills and cold of old, wasteful methods, and the

sure, economical heat aplenty from the IDEAL-AMERICAN outfit, making you glow all over with satisfaction.



A No. 4-19-W IDEAL Boiler and 270 ft. of 38-in. AMERICAN Radiators, costing the owner \$900, were used to heat this farm house. At this price the goods can be bought of any reputable, competent fitter. This did not include cost of labor, pipe, valves, freight, etc., which vary according to climatic and other conditions.



Our IDEAL Hot Water Supply Boilers will supply plenty of warm water for home and stock at small cost of few dollars for fuel for season.

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Don't delay another day in finding out about IDEAL heating and how you can put it in right now. Send for copy of our book, Ideal Heating, which tells you the whole story—no obligation.

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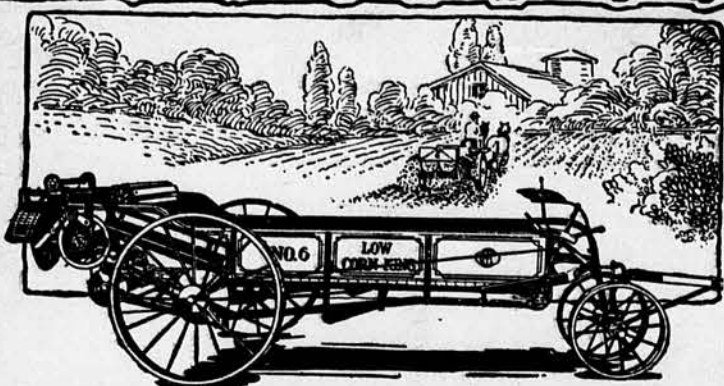
Write to Department F-5 Chicago

THE GOOD JUDGE FINDS THE OFFICERS KNOW QUALITY TOBACCO.



YOU notice a fine regard for appearance among the officers from Roundsmen to Captain—that's one reason they are so keen for W-B CUT Chewing. The pass-word among these gentlemanly fellows is "If you won't take a little chew don't take any." No need to disfigure the face, when a nibble of rich tobacco gives more satisfaction than a wad of ordinary stuff—also less grinding and spitting. Take a tip from the officer on W-B.

Made by WEYMAN-BRUTON COMPANY, 50 Union Square, New York City



Settle the Spreader Question

THE farmer who uses a Low Cloverleaf, Low Corn King or Low 20th Century spreader these days is the man who makes the most money. His land increases in value when regularly fertilized. His crops grow better in quality and larger in yield when supplied with available plant food. Of all the spreaders on the market, the Low Cloverleaf, Low Corn King and Low 20th Century come nearest to doing this work as it should be done.

It is a long jump from the ordinary machine to the modern low spreader with its double beater and wide spread. Every farmer who knows the value of good spreading is buying one of these wide spread machines. As a matter of fact, no farmer can afford to buy any other kind, because the saving of time and labor and the better job of spreading done by a Low Cloverleaf, Low Corn King or Low 20th Century makes them worth more than ordinary spreaders.

Complete information about these machines is worth money to you. Drop us a line at the address below and we will show you very plainly why it will pay you to buy a Low Cloverleaf, Low Corn King or Low 20th Century spreader.

International Harvester Company of America



CHICAGO

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U S A

Champion Deering McCormick Milwaukee Osborne Plano

To Study Cattle Raising

Students are Given Correct Ideals for all Breeds

BY DR. C. W. McCAMPBELL

LIVESTOCK judging is an important line of instruction in all agricultural colleges. This is especially true at Manhattan. There is a need for this. When one visits the large central markets and notes the big proportion of inferior, trashy cattle, hogs and sheep with which hundreds of feeders have been trying to make prime meat, one is impressed with the practical need of better judgment in selecting our breeding and feeding livestock. There are, of course, several sources from which this information and training may be obtained. The Kansas State Agricultural college offers excellent opportunities along these lines.

Emphasis is placed on the study of breeding cattle, the producers; feeding cattle, the raw material; and fat cattle, the finished product. It is our aim to instill in the mind of a student a correct ideal for every breed and class of livestock of importance, and to develop this ideal it is necessary that the student have actual practice in studying, comparing and handling large numbers of the best individuals, for without these high-class individuals, efficient instruction in stock judging is impossible. Hence the necessity for maintaining on the college farm the best individuals of the various breeds and classes of livestock.

Teaching cattle judging cannot be done in a haphazard manner. The work must be thoroughly systematized so a student may progress step by step. The work must be presented so a student's ideas change gradually from a hazy mist of uncertainties to definite and correct ideals which can be expressed readily, clearly and concisely.

The first work is the use of the score card. Here the student discovers that there are many distinct parts to be considered in judging cattle, and that the relative importance of these parts varies considerably. He is kept at this work until he has become familiar with these various parts and their relative importance. He learns that in a fat steer the rib, loin, and round comprise 49 per cent of the carcass and represent 61 per cent of its value. Ten pounds of loin are worth as much wholesale as 26 pounds of shank, 21 pounds of flank or plate, 19 pounds of chuck, 15 pounds of round, or 12 pounds of rib.

He learns that a steer with the thickest and smoothest flesh on the upper half of the body, particularly in the regions of the back and quarter, and with the smallest amount of waste in the head, legs, belly and hide not only gives the highest dressing percentage but also the greatest proportion of high-priced meats when the animal is dressed. A prime steer must be finished, and to be finished he must be fat and free from rolls and patches. In judging and selecting feeding cattle a broad, deep, compact steer with plenty of constitution and feeding capacity is the one that pays out in the feed lot here on Kansas farms.

A student finds that in all classes of cattle there must be associated with proper conformation and fleshing another attribute spoken of as quality, which really means refinement of fibre, and indicates not only ability to fatten rapidly, but also less waste and a higher grade of meat when the steer reaches the block. In judging breeding cattle, breed type and character, as well as the things already mentioned, must be given careful consideration. Breed type refers to conformity to the standard established for a particular breed, and character has been defined as "the individualism or the development of sex character, style, and vigor of an animal." We find our most difficult work is to get results in the study of breeding classes. To those as inexperienced as many students, breed type, character, and quality are more or less abstract and it takes time, patience, perseverance, and a careful study of the produce of the individuals under consideration as well as the individuals themselves before the significance of these important considerations are realized and appreciated.

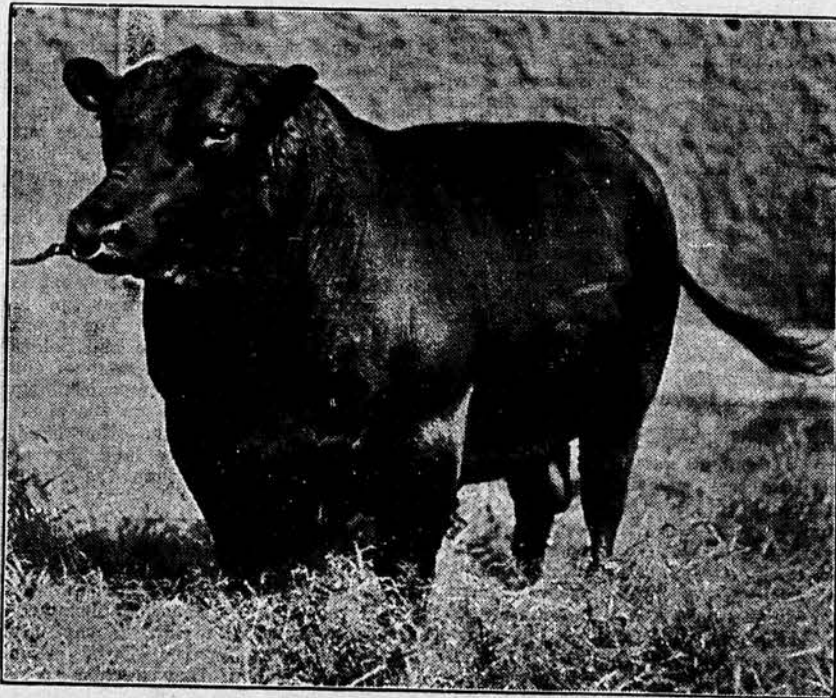
The score card is followed by practice in placing the individuals of the various breeds, classes and ages, each group to consist of four or more individuals. A student is required to write reasons for his placings and is graded 50 per cent on placing and 50 per cent on reasons. In this work a student is taught to group and weigh the desirable and undesirable qualities, to make accurate and correct comparisons of these qualities in one individual with those of other individuals of the group and to select the best, second best, and so on upon the basis of these comparisons.

But a practical stockman has no time to bother with the score card or pencil and tab in making his selections or in assisting others in selecting cattle, so the student must have a more practical training. This he receives in the later courses in stock judging. In these courses he studies both individuals and groups such as he will meet in practical life—in the feed lot, market, breeding herd, and show ring—and is taught to group details, to emphasize the important points, and to give brief but concise reasons for placings and selections. While taking this course many of the prominent stock farms, markets, feed lots, and shows of this and other states are visited and a comprehensive study made of the stock available at these places.

It is interesting and gratifying to note that the men who have taken the full course in stock judging at our agricultural colleges are taking their place in the front rank as breeders and feeders of livestock.

Dubbleigh—"At a reception this afternoon I exchanged ideas with the famous Professor Saduka."

Miss Keen—"That explains why I found the professor so tiresome."—Boston Transcript.



Correct Ideals are Given for every Breed and Class of Livestock in the Judging Work at the Kansas State Agricultural College.

STOP!

MAN! HERE IS THE GREATEST OFFER YOU EVER SAW! READ!

Send me your name now—on a postal. You'll get FREE, the surprise of your life. I will prove that your straw is worth \$2.50 to \$3.80 a ton! Then I'll show you how to prove it to yourself—Easily! Quickly!—Surely!—before you have spent or risked a cent! I take all the risk. Furthermore, if you decide to buy my "SIMPLEX" I'll TRUST YOU! Not a cent do I ask till next October! As a money-maker my Simplex will skin any machine on your farm! Write me and I'll prove it!

SIMPLEX Straw Spreader

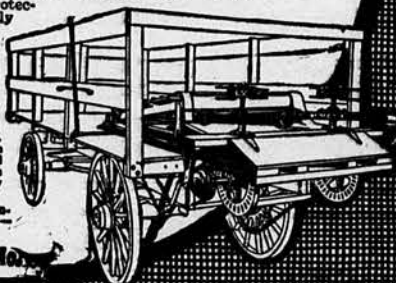
Makes Straw Worth \$2.50 to \$3.80 Per Ton

Straw, as a fertilizer, a conservator of moisture, a protection against "winter kill" and "soil blowing" is easily worth \$2.50 when spread on your land. Spreading is easy with a SIMPLEX. Just think! 20 ft. at a time! Thick or thin! 20 acres per day! Machine pays for itself in three working days! Fits high or low wagon! Has double-drive and double-width carrier! Five years' experience behind it! Thousands in use! Thirty days' FREE TRIAL—no money in advance! Plenty of time to pay! Man, it's the biggest and best offer you ever saw!

My Special Offer: I've got a very Special Proposition for one farmer in each township. I won't make it public, but when you write I'll explain all. I'll send you my Straw Spreader Catalog—several hundred actual letters from owners—greatest bunch of letters you ever saw! Can't help convincing any man it's folly to burn straw or allow it to rot.

Write! Do it now! Get the big book—the interesting letters—my special proposition—by return mail—ALL FREE!

MANSON CAMPBELL CO. 642 Traders Kansas City, Mo.



Own a farm where farmers are prosperous

Upper Wisconsin
"The Cloverland of America"

Why wear yourself out with overwork in overcrowded sections, when with the same effort you can earn this prosperous "bumper crop"—and unsurpassed dairy district of Upper Wisconsin?

This virgin tract was only opened to settlers three years ago, and we can name special prices so low that you will soon pay for it. Our terms are exceptionally easy, and being the owners, we give you friendly assistance to get you established.

Wisconsin is one of the richest farm states. Government statistics show it has a greater yield per acre than six other prominent farm states.

The climate is just right for the kind of crops you can grow—the kinds you are familiar with. There is a wonderful growth of grass and abundant supply of good water—an ideal section for dairying and stock raising.

Schools, Lodges and Churches are established and a great railroad system runs right through the tract. The markets are close by; the roads are excellent.

Two Free Books Tell All—Send For Them

The books are "Farm Homes in Upper Wisconsin" and "Happy Homes in Happy Land." They contain complete description of property, maps, photos of settlers' homes, etc., and a collection of letters from prosperous pioneers who bought just a few years ago. These books also explain our low price and easy terms offer. Send these books. They will open your eyes to new wonders and new possibilities in a new land. Send tonight sure.

A. R. CODE, Land Sales Manager
1524 Kotis Building

EDW. HINES FARM LAND CO.
Largest Owners of Wisconsin Lands Chicago, Illinois

A BOY AND A GIRL

Governor Capper to the High School Students at Argentine, Kan.,
November 2, 1916.

Let me tell you about the most popular girl in Shawnee county. She lives on a farm a few miles south of Topeka. She is not a fashion plate beauty. At least, she doesn't know that she is beautiful and no one would select her for a beauty contest. The fact is, she has red hair and freckles. She doesn't wear diamonds—doesn't doll herself up to make you think she is some millionaire's daughter. But she bakes the best biscuit in the township and she has a heart of pure gold. She is not very strong on French or the dead languages, but she took the domestic science course at the high school and now she makes her own dresses and they are good enough for any girl. She is as neat as a pin. She looks as sweet and wholesome as a well-rubbed apple. She likes and is interested in everybody she knows. And everybody who sees her knows her for the fine, friendly, sensible girl she is, her mother's indispensable helper in the home, her father's best friend and companion—and the greatest matrimonial prize in her county; for the young man who gets her will have a helpmeet and a home instead of a fashion-plate and a mortgage.

And let me tell you of the most popular boy in our county. He has about six pigs and two cows of his own and has paid his way thru school. He doesn't spend most of his time flying around with the girls in a big automobile. He is not much of a dresser. He is no authority on sporty clothes. He couldn't roll a cigaret to save his life. He can catch or pitch or hold down first base—that's his idea of a good time. He likes to do things that would positively shock ice-cream clothes to death. He is not afraid to dirty his hands with honest work. He works when he works and plays when he plays, and enjoys 'em both. He is big, wholesome and husky, and fair and square with the boys—they would trust him anywhere. When he tackles anything he gets away with it sooner or later. He is growing into a fine man and a big citizen and he knows wheat and corn, and alfalfa and livestock as well as lots of men who have farmed for years.

I want to see this boy marry the girl, when the time comes. I know their marriage will not be a failure. I know there will be no need to attach a divorce coupon to that marriage license. They will be happy, thrifty and prosperous. They will have the best type of an American home. They will be active in church and community affairs and they will be a credit to their state and to the nation which reared them.

Good Wheat in Cowley

BY W. H. COLE.

The small snows and rains which have been coming at frequent intervals have been excellent for the wheat, and it has made a rank growth. This condition is of a local nature, however, for we recently took a journey to the west, going 50 miles, and we saw some sorry looking prospects for wheat. However, it is not possible to make any estimate of the probable yield of wheat by looking at it now. We have seen fields which were scarcely up at this season which came out in a wonderful manner the following spring and produced a profitable yield. The wheat in this locality is all of the soft varieties, which with the early seeding accounts for its good growth. The scrub wheat was of the Red Turkey variety, and was drilled rather late. The Red Turkey wheat can look the least likely in the fall and yet produce the best yield the following year of any variety which has been tried here.

Nevertheless, we like the soft wheat the better on account of the excellent wheat pasture it affords in the fall and winter. Calves, pigs and colts do well on it. The horses bite it off too close, and to make matters worse they take play spells frequently and run and tear around in general. Their sharp hoofs are sure to uproot more or less of it. We frequently wonder if it really pays to turn the milk cows on it. As long as the weather and the condition of the field will permit they do well and give a good flow of milk, but when the storms come and the field is covered with snow or is too wet to be pastured and the cows have to be fed dry feeds their milk flow shrinks amazingly. They seem to crave the green wheat more at that time than any other, and do not take readily to the dry rations. If one had an abundance of silage and bright alfalfa hay the change would not be so abrupt.

Alfalfa hay of all grades is getting so high in price that there is little being fed locally. Recently when in town we noticed some that was being loaded into cars and upon inquiry found that its destination was an alfalfa mill. The

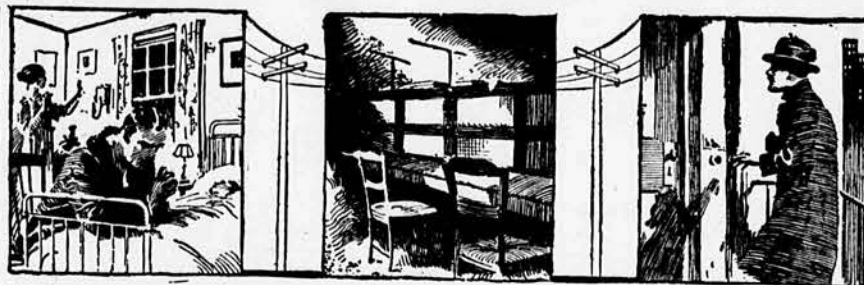
hay was musty and black and had the appearance of being unfit for any use except bedding, but the price was \$9 a ton. There may be some process by which the mill can renovate this hay so it will present a salable appearance, but we cannot believe its feeding value can be revived.

The Grange, to which we belong, bought its first car of corn last week. This car was purchased thru the local grain dealer and cost us 95 cents a bushel. When corn reaches such a high price one can hardly feel free hearted in feeding it to any class of stock which the average farmer raises. But a certain amount of it is almost a necessity and no matter if the price is high the only thing to do, apparently, is to pay it. That the price will be even higher is a possibility which most farmers recognize, and those who are buying now may be the lucky ones after all.

We have been feeding kafir roughness lately and find that the stock eat it with great relish. There seems to be a big difference in kafir fodder, from the cattle's viewpoint anyway. Some years they almost ignore the brightest kind of kafir roughness, and again they will eat stalk and all of the darkest fodder. That which we have been feeding is nearly in the latter class as it was frozen twice before being cut and has had several rains on it since. In seasons of abundant rainfall the kafir stalks get very large and woody, unless it is planted thickly, which probably accounts for the stock not relishing it. With scanty rainfall, as in the past season, the stalks grow spindling and the foliage heavy, which makes a feed that is good for stock but not productive of much grain.

"Behind the altar," said the cathedral guide to a party of tourists, "lies Richard II. In the churchyard outside lies Mary Queen of Scots. And who"—halting above an unmarked flagging in the stone door floor and addressing a tourist from London—"who do you think, sir, is a-lying 'ere on this spot?"

"Well," answered the Cockney, "I don't know for sure, but I have my suspicions." —Tit-Bits.



Best and Cheapest Service in the World

Here are some comparisons of telephone conditions in Europe and the United States just before the war.

Here we have:

Continuous service in practically all exchanges, so that the telephone is available day and night.

A telephone to one person in ten.

3,000,000 miles of interurban or long-distance wires.

Prompt connections, the speed of answer in principal cities averaging about 3½ seconds.

Lines provided to give immediate toll and long-distance service.

In Europe:

Nine-tenths of the exchanges are closed at night, and in many cases, at mealtime.

Not one person in a hundred has a telephone.

Not one-eighth as many miles in proportion to population and territory.

In the principal cities, it takes more than twice as long for the operator to answer.

No such provision made. Telephone users are expected to await their turn.

As to cost, long-distance service such as we have here was not to be had in Europe, even before the war, at any price. And exchange service in Europe, despite its inferior quality, cost more in actual money than here.

Bell Service is the criterion for all the world, and the Bell organization is the most economical as well as the most efficient servant of the people.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY
AND ASSOCIATED COMPANIES

One Policy

One System

Universal Service

Win the Soap Making Contest

Are you a good housekeeper?

Then let us tell you how to win the Soap Making Contest now being conducted by leading farm papers throughout the country. We're always glad to help good housekeepers.

We helped hundreds of them win prizes last year. Here, madam, is the secret of making prize winning soap: Use only ordinary grease; but—be very sure you use

LEWIS' LYE

Standard For More Than Half a Century

No other lye will do. For Lewis' Lye is just the right strength for soap making. It is pure. It is free from alkali. And (note this carefully—it's important) it saponifies every atom of grease. In last year's Soap Making Contests more prizes were awarded for soap made with Lewis' Lye than for all other brands COMBINED!

For soap made with Lewis' Lye is pure. It has a clear, rich color and even texture. It is perfect in cleansing qualities. Wellwater is turned to rain water with this soap. That, alone, saves half the rubbing in clothes washing. Such soap dissolves grease. You can wipe it off of pots, kettles and dishes with half the usual rubbing. Will not injure daintiest fabrics.

Send a postal today for Free Book on lye, Mrs. Robinson's Prize Winning Soap Recipes and full particulars about the soap making contests.

PENNSYLVANIA SALT MFG. CO.

Dept. 1
Philadelphia, Pa.



RAYO Center Heated INCUBATORS

Give Bigger Hatches at Less Cost

That's the keynote of Rayo success. Bigger hatches at less cost is exactly what you may expect when you buy a Rayo incubator. It's not first cost that counts most. Not by any means. It's the hatching ability and after cost that you want to consider. The Rayo nine-year record proves it a wonderful hatching machine. Seldom equaled. And, when it comes to low cost of operation the Rayo beats them all.

1 Gallon of Oil. 1 Filling of Tank

These two special Rayo advantages prove our claim of low cost of operation. Other incubators require 3 to 6 gallons of oil to a hatch. Rayo only 1 gallon. Saves its cost in fuel alone. Takes only 1 filling of tank to a hatch. Others require 1 filling of lamp each day or 21 times to a hatch. Think of the time and labor saved.

Six Big RAYO Features

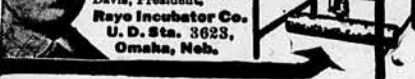
Every one stands for bigger hatches at less cost. 1st. Our Center Heating System, which means economy of fuel, more perfect heat regulation and ventilation. 2nd. Automatic Heat Control which regulates the flame on the lamp—means economy and efficiency. 3rd. Double Glass Panel Top makes it easier to operate and see at all times how your hatch is going. Easier to clean and clean, too. 4th. One Gallon of Oil to a hatch saves you money. 5th. One Filling of Tank saves you time and labor. 6th. Perfect Ventilation. Also proper moisture arrangement. These and many other special money saving and better hatching features explained in detail in our big catalog. Get your free copy.

Get My Big 1917 Offer

Which will help you get a Rayo this season at little or no cost. The publisher of this paper is offering a Rayo incubator to poultry raisers. No soliciting. No canvassing. Just a straight business offer that you will be glad to accept. No obligation to accept it unless you wish. But, anyway, get our catalog, sure.

Get FREE Book

Don't today before you buy any other style of incubator. Just a postal will bring it free, postpaid. It's a quick full of incubator and poultry raising facts. Write right now. Address: Dr. M. Davis, President, Rayo Incubator Co., U. S. Sta. 3623, Omaha, Neb.



Ironclad WINS In 2 Biggest HATCHING CONTESTS Ever Held

Mrs. C. F. Merrick, Lockney, Tex., with her Ironclad Incubator won the Mo. Valley Farmer and Nebr. Farm Journal Big Hatching Contest. She placed 143 eggs in the incubator and hatched 144 strong chicks. Think of that! You can now get these famous winners, made of Calif. Redwood.

150 Egg Incubator } BOTH \$11.00
Chick Brooder }

If ordered together. 30 days trial, 10-year Guarantee. Freight paid. Money back if not satisfied. Ironclad Incubator is covered with galvanized iron, triple wall, copper tank, nursery egg, tank, set up ready to run. No brooder is roomy and well made. Send for free catalogue.

Made of Redwood covered with galvanized iron. Ironclad Incubator Co., Box 107, Racine, Wis.

Did You Have Good Luck With Your Chicks?

"Luck" with chicks starts with the incubator. If it is properly regulated, and properly ventilated, your chicks will start off with vitality. They won't come out of the shell half dead. So many people trust their eggs to a cheap machine, forgetting that it is not only how many you hatch that counts, but how many live and grow.

Start Your Chicks With a Queen Constitution

The Queen has a reputation for hatching strong, healthy chicks. It is built of genuine Redwood—very scarce in these days of cheap substitutes. Redwood does not absorb odors from the hatching eggs. Cheaper woods, and pastboard lining in iron and tin machines, retain the odors to weaken and kill the hatching chicks.

Queen incubators are not cheap, but they are built to hatch big hatches of chicks that live. Book sent free. Queen Incubator Co., 1065 N. 14th St., Lincoln, Nebr.

UNBEATABLE

For record hatches of healthy, profitable chicks—chicks that dodge the great chick graveyard—you can't beat the "PROGRESSIVE"

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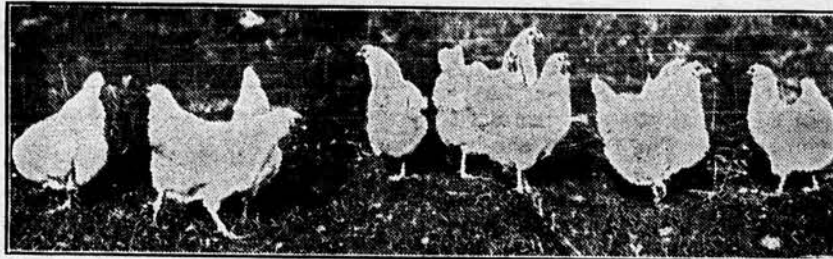
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Radio-Round Incubator Co., 303 Main St., Wayne, Mich.

Turn the Waste into Profit

That is What Farm Poultry Does Nine Months in the Year

BY WILLIAM A. HESS
Humboldt, Kansas



THERE is no other place where poultry properly handled will pay better than on the farm. For many months farm poultry makes much of its living from what otherwise would be a waste. Many persons who are buying all the feed make money out of poultry and the farmer has a chance to make all the ordinary profit and an additional reward for the feed picked up on the farm.

The question of poultry paying would not be asked very often by farmers if they kept a strict account of all feed used and of all money received. He may think the poultry is not paying in the fall of the year when good feed is needed and the hens are not laying as well as in the spring.

It is at this time of the year that he is inclined to look at the feed account with a microscope and with smoked glasses at the income. And this income is at a time of year when nothing else on the farm is bringing in any money.

I often have thought that if a strict account should be kept of all chicken money and feed used for only one year, poultry would fare better and receive better accommodations on the farm in the future. So many times the chickens are left to shuffle for themselves from the time the eggs pip to the final disposal in the frying pan. They often get no place which might possibly be called a chicken house—beginning their existence in store boxes which protect them from April showers and thieving rats, and roosting in trees when old enough. These chickens get a living in the hog yard and under the stamping feet of cattle and horses in fly time. Under such

conditions it is a wonder that poultry raising pays.

We boast of the profits in hogs after feeding them high priced corn and shorts. When the hogs are sold and we find we have a few hundred dollars at one time, we think this is the way to make a profit. We do not figure how much more care we gave them than we did the poultry, feeding them twice daily and carrying heavy pails of water for them.

With the poultry it has been different. The farmer's wife has sold something every week of the year. Not a large amount weekly, but when it is totaled up the results are astonishing.

The sales consist of eggs in the early winter and spring, fries, culls and hens later on. The dollars regularly brought in go for needed groceries and clothing, tiding the family along so that when the hogs are sold the amount received will be a profit. Poultry is paying on the farm with less care and less expense for housing than many other items on the place.

What breed ought to be raised? The farmer should choose the one with which he is the most familiar—the breed which he finds the best market for at home and the one to which his surroundings are best suited. He should make a special study of the variety, and breed for a purpose every year. Different breeds require different care and different amounts of feed. This is one reason why mixed breeds will not do as well year in and year out. The longer the grower sticks to one breed the better he will like it, and consequently the better success he will make of it.

A State Poultry Show Next Week

The Kansas State Poultry Breeders' association will hold its twenty-eighth annual exhibition at Wichita, Kan., January 8 to 13, 1917. The show will be in the Wichita Forum. The secretary of the association is Clyde C. Whiteley, Wichita. The judges are G. D. McClaskey, Adam Thompson, and J. P. Lucas.

For the Good of a Hen's Liver

There is a correlation between the legs and the liver of a chicken. Liver activity is absolutely necessary for egg production, so make the hens scratch for their food. All grains should be fed in a deep litter. Oat straw or alfalfa hay is good

for this purpose. Hens should be fed liberally but should be fed only when they are willing to work for their food.

There is an old time fallacy that a hen can become too fat to lay. Experiments have been carried on to determine the laying ability of fat and lean hens and in every instance the fat hens outlaid the lean ones. The egg begins its formation with the yolk, which is practically all fat, and so it is absolutely essential that a hen have excess fat before eggs are formed. A hen does not cease laying from an oversupply of fat, but because her legs and liver are not working to their full capacity.

N. L. Harris.

At Russellville, Ark., the Sunday laws are so rigid that the use of a telephone on Sunday is prohibited.

We Pay \$2.50 for a Letter

WHAT EXPERIENCE have you had with incubators? It will be only a few weeks now until many readers of the Farmers Mail and Breeze will be deciding whether to set hens again next spring, or invest in an incubator. A letter telling what results you had with your incubator may be worth a lot to them. They also will wish to know just how you do the work to get a good hatch.

The first issue in February will be the poultry special of the Farmers Mail and Breeze again this year. We shall wish to use the incubator letters at that time. Prizes will be given for these, and for other helpful letters. The best letter on any poultry subject received by the poultry editor of the Farmers Mail and Breeze before January 15, 1917, will win a prize of \$2.50. The second prize is a book, "The Case of Jennie Brice," by Mary Roberts Rinehart. This book retails for \$1. Five subscriptions or renewals to the Farmers Mail and Breeze will be given for the next five letters. Five Valley Farmer subscriptions and five subscriptions to Capper's Weekly also will be given.

The present high cost of feed makes some persons believe that there is no profit in keeping poultry. This certainly is not true on any farm where the chickens get part of their feed from material that otherwise would go to waste. If you have made a profit from your poultry this year, tell us about it. Address the Poultry Editor, the Farmers Mail and Breeze, Topeka, Kan.



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My Big Poultry Book "Hatching Facts", sent free, will tell you how to become a successful chicken raiser. It contains photographs and letters from Belle City owners who have won cups and prizes for high per cent hatches. What I have done for others I can easily do for you with my

World's Champion Belle City Incubator
The incubator with the Paragon Board construction, the choice of America's most successful chicken raisers. Sales to date over \$24,000. With the book come full particulars about my Low Price, My 10-Year Money-Back Guarantee, My \$1,000 Gold Offer. Your opportunity to make extra money. Write me today. — Jim Rohan, Pres. Belle City Incubator Co., Box 21 Racine, Wis.

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Send me immediately a Free Copy of the 1917 X-Ray Book of Incubators and Brooders.
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Put the Cow Lot on a Slope

Cleanliness is One of the First Steps Toward Success in the Dairy Business

GREATER attention must be paid to cleanliness on a farm where livestock is kept than on one on which there is no livestock. This is particularly true of a dairy farm, for the success of which thoro sanitation is a necessity.

To obtain the most sanitary conditions, the dairy barn should be built on high ground, with good natural drainage and sheltered from the cold winds of winter. Horse stables, poultry houses, hog sheds, privies, and manure pits should be far enough away not to contaminate the cow stable air. There is a tendency for the lots to get muddy and foul, but when the barn is situated on a high, well-drained spot this tendency is reduced to a minimum, as the lots soon become dry after a rain and in the spring when the frost leaves the ground. If the yard is inclined to be muddy, it may be improved by drainage and by the use of cinders or gravel. It should be free from mud-holes, and manure should not be allowed to accumulate in it. In severe winter weather, or in the spring when the ground is soft and manure cannot be hauled to the fields daily, it should be stored in a manure pit some distance from the stable and not in the basement of the barn or any place in the dairy stable.

An ideal site for a barnyard is on a south slope that drains away from the barn. A clean yard is a great help in keeping the cows from becoming soiled by mud and manure.

Drinking water for cows should be fresh and uncontaminated from any source. The well should be so located and protected that there is no danger of pollution of the water by the drainage from the barnyard, manure piles, or other sources. The water tank or trough should be so convenient to the stable that it is unnecessary to expose the cows to extreme cold or severe storms. It should be kept clean and filled with an abundance of fresh, pure water, to remove any doubt as to the ability of every animal to satisfy its thirst.

The construction of the dairy barn may be less important in keeping down the bacterial count of the milk than careful methods in handling milk. Proper construction, however, lightens the labor necessary to keep the barn and its equipment in a clean, sanitary condition. In the old-time basement dairy barn little attention was paid to proper ventilation and distribution of the light. This type of barn is not recommended and if used for housing dairy cows the lighting and ventilation should receive special attention.

A one-story dairy stable is a very good type. It should preferably be located with its length extending north and south and have an abundance of window space. If the stable is located this way it receives the purifying benefit of both the morning and afternoon sun. The construction should be such as to minimize the labor necessary to keep floor, walls, ceiling, and stable fittings in a clean and sanitary condition. The floor, gutter, and mangers should be hard, impervious to moisture, and free from cracks in which filth may collect. The gutter back of the cows should be large enough to hold the droppings; a width of 16 to 18 inches and a depth of 7 inches usually are sufficient. The gutter should incline so as to drain readily unless the liquid is taken up by absorbents.

All drains and waste pipes should be water-tight and air-tight. Every waste pipe should have a trap to prevent foul air from coming back thru the waste pipe.

Those types of stables and mangers are best which present the least possible surface for collecting dirt and dust and the least obstruction to the circulation of air. Stalls of wood have many flat surfaces and cracks which are difficult to keep clean and in case of an outbreak of disease are not easy to disinfect thoroly. Stalls and swing stanchions made of metal pipe are more sanitary. A low, smooth manger without sharp angles is preferable for it is easy to keep clean. Cobwebs, dust, or dirt should not be allowed to accumulate on the walls and ceiling. With a tight, smooth ceiling and smooth walls without ledges there should be little trouble from dust and cobwebs. Whitewash should be ap-

plied freely at least twice a year, both to walls and ceiling, as it helps to purify the stable and to keep it light. An abundance of light is necessary—4 square feet of glass to every cow is sufficient if the windows are well distributed and not obstructed in any way.

Every cow stable should have a system of ventilation to keep the air fresh and pure and the cows comfortable without exposing them to injurious drafts. If the smell in the barn is disagreeable at any time, it indicates that the ventilation is deficient. At least 500 cubic feet of air space should be provided for every cow. The feed room, silo chute, and hay chute should be conveniently located, but at the same time they should be in a separate room to keep the odor and dust out of the stable as much as possible.

A Million Cows in Kansas

That the Kansas farmers are coming to a better appreciation of the milk cow is indicated by the increased number of dairy animals in the state, as reported to the state board of agriculture by assessors.

The enumeration for 1916, which has just been compiled, shows that Kansas for the first time has more than 1 million milk cows. The exact number is 1,077,067, a gain of 115,786 over the count of 1915. Since 1910 the increase is 435,497, or 67 per cent. Butler leads all other counties with 19,623, followed by Barber, Dickinson and Reno with more than 18,000.

Commenting on this showing J. C. Mohler, secretary of the board, said: "This is a most encouraging sign. It means more farmers are engaging in this high type of husbandry. The dairy method of farming more nearly eliminates chance as a factor in the farmer's income. The dairyman is a soil builder, rather than a soil robber. He is conducting a farm factory, converting the raw materials of his farm into finished products, without seriously depleting its resources."

"It is my belief that the inclination of our farmers to take up dairying as indicated by the returns, is the reflection of a tendency to place the business of farming on a safer, sounder basis, and should insure a more permanently prosperous agriculture in the future."

Cows that Eat Grain Must Work

In some herds light milkers are overfed. If a cow is already receiving sufficient feed for all the milk she is producing it will do no good to give her more feed. It does not pay to give a cow producing 20 pounds daily the same amount of grain as one producing 40 or 50 pounds. If this is done the low milker is overfed and will give just as much milk if given less grain.

The only economical way is to feed cows according to the amount of milk produced. There certainly is anything but good judgment behind the common practice in many herds of feeding all the animals the same amount of grain. Under such conditions the high producing cows are underfed and the low milkers receive too much.

The cow should be fed practically all the roughness she will eat up clean. The difference in rations fed to different animals should be mostly in the grain. The following may serve as a general feeding guide:

Feed all the roughness they will eat up clean at all times.
Feed one pound of grain a day for every pound of butterfat produced a week, or one pound grain for every 3 pounds of 5 per cent milk or 4 pounds of 3.5 per cent milk.
Feed all the cows will take without gaining in weight.

C. H. Eckles.

"Pa, what's the difference between a patriot and a jingo?"
"A patriot, my son, is one whose bosom swells with pride of his country, while in a jingo the swelling appears in his head."
—Boston Transcript.

"Why is it we don't hear any more complaints about defective life-preservers on ships?"
"Nobody has time to put them on."
—Judge.

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Kow-Kure has a record of over twenty years' success in the prevention and cure of such diseases as Abortion, Barrenness, Retained Afterbirth, Milk Fever, Scouring, Bunches, etc. Most of these diseases spring from disordered digestive or genital organs, and Kow-Kure has strong medicinal qualities which tone up and permanently strengthen the entire system.

A trial is convincing. Kow-Kure is sold by feed dealers and druggists, in 50c and \$1.00 packages. Write for free treatise, "The Home Cow Doctor."

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By Judson R. Taylor

This is a story of detective work among the MOONSHINERS in the mountain wilds of GEORGIA. There is not a slow line in the entire book of 251 pages; it is written in a style that commands attention right from the start. The best part of it all is that MACON MOORE is a gentleman detective and in no sense a swash-buckled ruffian. He has the courage to meet even criminals and desperadoes on the level; in short, he is what the schoolboy would call "a corker." Like all fiction there are places where the story strains the probable, but is within the possible. We think it certainly a mighty clever, well-written, interesting book.

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MACON MOORE
THE SOUTHERN DETECTIVE
By Judson R. Taylor



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Write today for a pair of Mated Everbearing Strawberry plants, one large packet each of the new Cereals, Sudan Grass and Silk Leaf Peony seed, all Free for Testing. Send 10 cents for mailing expense, or not, as you please. We offer genuine Progressive Everbearing plants at 50c per dozen; 90c per 50; \$1.75 for 100; \$5.00 for 325, all postpaid. CATALOGUE FREE. The Gardner Nursery Co., Box 410, Osage, Iowa

Now It's the "Boarder" Hen

BY MRS. DORA L. THOMPSON
Jefferson County

A neighbor with 150 hens says she is not getting one egg a day as a return for all the high priced feed she is obliged to give her flock. Disgusted with their unproductive biddies, several other neighbors have sold practically all the chickens they had. Others of contrary opinions, however, are keeping as many as they think they can winter. They argue that the chickens already raised will take less feed next spring than would be required to raise a bunch of young ones and so they plan to keep the grown chickens instead of raising more.

We tried, in culling our flock, to meet the needs of limited quarters, to ship some of the heaviest hens to Kansas City. One commission firm sent us so many price quotations and such good promises that we decided to give them a trial. One shipment of 20 hens and 10 "springs" brought returns for 19 hens and nine "springs." One of each had disappeared somewhere on the way and their weight with them. Those hens brought 13 cents a pound. Dressed hens at that time sold for 28 cents a pound. If town housekeepers would dress their own chickens and buy directly from the farmer, some of that difference could well be divided. Several experiences have about convinced us that for us the egg business is more profitable than selling by weight. Off colored pullets are now being sent to the table instead of the market. One easily tires of chicken, however. At times, even a rabbit is preferable.

We need never lack for rabbit pie at this season. Even a child, with a dog, can catch a rabbit. It may not be very sportsmanlike but a run along a stone wall fence with a dog usually will cause some rabbit to seek shelter in the fence; while the dog watches on one side of the fence, the boy can reach in between the stones and pull out the rabbit.

There are some ways in which this method is much to be preferred. The rabbit is not torn, bloody and full of shot and is ever so much less trouble to clean than the one a hunter has killed. Then, too, only the number needed is brought in. We do not enjoy the work of dressing a rabbit and we certainly don't care for many at one time.

There are some persons, who, liking rabbits better than we do, make more use of them. Some of our neighbors who hunt, kill rabbits by the dozen, dress them and cut the meat from the hind legs and back. This they grind up with fresh, fat pork, and with the addition of considerable seasoning make into sausage. As they have done this for years they did not get the idea from those enterprising persons in the West who are now grinding up the flesh of hundreds of jackrabbits and shipping the sausage thus made to the East. The jackrabbit is seldom seen here.

If our friends have more rabbits than they desire for immediate use, they fry the hind quarters and backs until ready for table use, then pack in a jar and pour melted lard over them. The meat is said to keep in this way as well as pork.

For our own table we prefer to cook most meats. Rabbits included, in the baker. The ham retained makes the meat tender without extracting all the juices as in boiling is likely to do. As a change, however, we stew the rabbit, thicken the gravy and make a pie.

Nothing is simpler than our style of meat pie. We sift together flour, salt and soda, then stir in enough sour cream to make a soft dough. We toss big spoonfuls lightly on flour and form into biscuit shape, drop them into the baking dish containing the rabbit and gravy and set it in a hot oven. We prefer the browned, crisp product to the rather sticky dumplings that result from boiling.

Get the Neighbors Together

Our community club called the Cedarville Improvement society has proved the greatest factor in our midst for holding our neighborhood together and keeping the young folks interested. Cedarville is a rapidly growing new settlement in Marinette county, Wisconsin, and we discuss all our needs in our meetings.

We have debates to decide which is more profitable, the dairy cow or the family hen; which is the better feed for cattle, alfalfa or clover; which is the

better money crop, sugar beets or cucumbers; which is the better dairy cow, the Holstein or the Guernsey, and many such subjects interesting to the farmer. We issue a little paper edited by some member of the society which is read at every meeting. We have music, readings, dialogs, tableaux, mock trials and various other entertaining features.

Sometimes we have speakers come from an agricultural college or an experiment station. They tell us of pedigreed grains, money crops, clearing land, crop rotation, the breeding of better dairy cattle, the growing of corn, field peas, and soy beans, the feeding of dairy cows, and their care, milk testing, and all these things we need to know.

The Wisconsin State Agricultural department has become interested in our work and offered to help in any way we need. They send us bulletins from time to time as they are published.

We hope other new neighborhoods may be helped by our example.

Mrs. Lucy L. Ferguson.
Marinette Co., Wisconsin.

Do Spring Sewing Early

With the holidays past and the late winter months at hand, there is a lull in the work of farm women so that we have a chance to do some of the extras that hinder during the busier seasons. Now is the time to get the plain sewing for spring out of the way, especially since the pre-inventory and mid-winter sales offer materials at reduced prices, and no matter if the days are gloomy, we can make up the muslins without eye strain. True, these muslin garments may be purchased ready made, and for some women this is the wiser plan, but unless one is lacking in strength or her time is too valuable, the underwear can be made at home more satisfactorily and the materials will be better for the same price.

Food does not spoil readily in cold weather, and enough can be cooked one day so that palatable, substantial meals may be prepared quickly the next day and thus leave more time for sewing. Time and materials are saved by cutting and making all garments of the same kind at once, and it is a great satisfaction when an entire set is completed. After the machine work is out of the way, the hand work such as buttonholes and the like may be done during the long winter evenings while some member of the family reads aloud. When I make dresses, I prefer to work on only one at a time.

A housewife should add to her linen chest every year at least one pair of sheets and pillow-cases for every bed, and one tablecloth or a set of napkins. In this way one will not find her supply all giving out at the same time and the cost of keeping the stock replenished is not noticed so much as when an entire new outfit must be prepared. Here again a careful manager will be benefited by the sales. It does not pay to buy cheap stuff—cheap in value as well as price—but in the January sales enough reduction is made on materials of good quality to insure considerable saving to the purchaser of large amounts.

With the muslins out of the way, aprons, house dresses and children's clothes soon follow and the shut-in months will have been so well utilized that when house cleaning, gardening and chicken raising time arrives we will be ready for the change to lighter clothing without spending time at the sewing machine.

Mrs. H. W. M.
Coffey Co., Kansas.

No Eggs Needed

When eggs are scarce add a heaping tablespoon of flour to the amount of pumpkin required for one pie and beat well. Add milk and sugar and flavorings and prepare as usual. Beating before the milk is added makes the mixture light.

Mrs. C. B. Davis.
Dickinson Co., Kansas.

The H. C. L.

I wish I were a farmer bold
With all his wealthy hoard.
I'd take a load of wheat to town
And buy a brand new Ford.

I'd also take a dozen eggs,
All washed so nice and clean,
And trade them for a barrel
Of John D.'s gasoline.

I'd take a peck of 'taters, too,
So commonly called "spuds",
And lay in for my family
All of our winter duds.

And on this same load I would take
A bale of clover hay,
And 'change it for a load of coal
To keep the cold away.

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1 pkg. P. so Moss	1 pkg. Endive	1 pkg. Endive
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1 pkg. Nasturtium	1 pkg. Pea	1 pkg. Pea
1 pkg. Nasturtium	1 pkg. Tomato	1 pkg. Tomato
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1 pkg. Nasturtium	1 pkg. Aster	1 pkg. Aster
1 pkg. Nasturtium	1 pkg. Cosmos	1 pkg. Cosmos
1 pkg. Nasturtium	1 pkg. Verbena	1 pkg. Verbena
1 pkg. Nasturtium	1 pkg. Zinnia	1 pkg. Zinnia
1 pkg. Nasturtium	1 pkg. Sweet Pea	1 pkg. Sweet Pea
1 pkg. Nasturtium	1 pkg. Beets	1 pkg. Beets
1 pkg. Nasturtium	1 pkg. Cabbage	1 pkg. Cabbage
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When the Egg Basket's Empty

The Recipes Given here are Good to Use While the Hens are Taking Their Winter Vacation

APPETITES are hearty these crisp January days and good, substantial foods that warm a person up and "stick to the ribs" are in great demand. Since the helpful hen has joined the egg boycott or "refrain," whichever you prefer to call it, housewives are looking for

from boiling the meat, stir together well and bake in a slow oven until a golden brown crust is formed. The egg may be omitted. Mrs. Bert Wiley, Bourbon Co., Kansas.

Bean Chowder.

A favorite winter dish in our family is bean chowder. Force a can of tomatoes thru a sieve to remove the seeds and add the pulp to a bowl of left-over baked beans, with minced onion, a little butter and salt and pepper to taste. Bake in a moderate oven until the tomatoes thicken. This dish may take the place of meat. M. C. A. Finney Co., Kansas.

You Feel as You Look

It is well worth while when we are planning our house dresses for spring to make them as neat and pretty as we can. A few cents spent for rick-rack or finishing braid makes a great difference in the looks of a garment. Plain gingham for collars and cuffs on a checked or striped gingham dress costs no more than material the same as the garment and looks far prettier. We all feel better and act better when we are looking our best. It is not the things we really need that make us happy. It is the little things we should probably live just as long without that count big in our lives. A look in the catalogs of ready made dresses gives one many ideas she can carry out easily on her house dresses and often the scrap-bag has just the thing needed to add the finishing touch. Mrs. L. C. J. Norton Co., Kansas.

Brushes Lighten Labor

One of the gifts Santa Claus put into my stocking was a scrub brush, and instead of feeling hurt at the old saint's gentle hint, I was delighted, altho I already had two. I have found the quickest way to wash a chicken after it is picked and singed is to scrub it with a small scrub brush kept for the purpose. I used to dread washing the overalls on washday, but I have found that laying them on the board and going over them with the scrub brush does away with all the hard, heavy work. I shall use my new brush for washing potatoes and other vegetables and for numerous things so that the gift which seemed little is really a great labor saving device. Mrs. R. D. Morris Co., Kansas.

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Straight lines are as fashionable for the schoolgirl as for her mother. The dress shown here displays the season's best style. It closes at the left front.



8105

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Eggless Nut Cake.

Two cups of sugar, 1 cup of butter or lard, 2 cups of buttermilk, 1 teaspoon of soda dissolved in a little hot water, 1 teaspoon each of cloves, cinnamon and nutmeg, 4 cups or a little more of flour, 1 cup of seeded raisins, 1 cup of English walnuts and a pinch of salt. Cream together the sugar, butter, salt and spices, add gradually the buttermilk into which the soda has been stirred, and the flour and beat well. Then add the nuts and the raisins rolled in flour and bake in layers. Edna McNaught, Custer Co., Oklahoma.

Bread Fruit Cake.

This fruit cake is economical and delicious. To 1 cup of bread sponge add 1½ cups of sugar, 1 scant cup of butter or lard, teaspoon of cinnamon, ½ teaspoon of cloves, ½ teaspoon of soda dissolved in a little hot water and flour enough to make a batter like cake. Chop 1 cup of raisins, roll them in flour, and add to the batter. I use 2 eggs when I have plenty but the cake is good without them. Mix well and let rise until light in a round cake pan with a center stem. Bake in a slow oven.

Mrs. J. C. Stonecipher, Cherokee Co., Kansas.

Maple Pudding.

Mix 3 tablespoons of cornstarch to a smooth paste in ½ cup of cold water and pour over it 1½ cups of boiling water, stirring well. Add 1 cup of brown sugar and cook in a double boiler until the mixture thickens. Stir in a small lump of butter, remove from the fire and add 1 cup of chopped nuts and 1 teaspoon of maple flavoring. Pour into individual molds which have been rinsed in cold water and serve cold with whipped cream. Mrs. Glenn C. Fitch, Franklin Co., Kansas.

Boston Baked Chicken.

Cut a chicken into pieces as for stewing, wash and wipe dry. Sprinkle with salt and dip every piece in melted butter, then coat with flour and put into a bean pot or baking dish with a cover, laying the larger pieces at the bottom and placing the bits of chicken fat on top. Pour over the chicken 1½ cups of boiling water and cover tightly. A young chicken needs to be baked 1½ hours. The juice, fat and flour make a delicious gravy. Take out the chicken when done and arrange it with the gravy on a platter or serve it directly from the bean pot, first seasoning to taste.

Mrs. Will Wagor, Marshall Co., Kansas.

Scalloped Ham.

The scraps left after using the best part of a boiled ham or shoulder may be chopped fine and put into a baking dish. Add to them a minced onion, 2 chopped cold boiled potatoes, 1 cup of bread crumbs, a little salt and 1 egg beaten light. Moisten with the stock left

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I THINK the 'possum is one of the easiest fur-bearing animals to catch. First I oil my traps good and then boil them in walnut hulls to make them odorless. Chicken or rabbit that has been dead two or three days makes good bait. I set the traps in paths along creeks, in hollow stumps and trees, in holes in rocks or bank or under a bearing persimmon tree. 'Possum are very fond of persimmons. I cover the traps lightly with leaves, hay or old grass and hang the bait about 2 feet above the trap or just out of the reach of the 'possum, causing him to walk around and around and making the catch more certain.

Vance Belden.
Pawnee, Okla.

How to Set the Traps.

(First Prize.)

I visit all the neighboring creeks, pastures, old straw piles, and outbuildings where skunks den and have their runways, in the fall before the trapping season opens, then it takes much less time to set the trap when the time comes. When I find a hole in a creek bank or in a clump of weeds in a pasture I examine it closely to see if a skunk lives there. If there are long black hairs in the entrance and dead grass and leaves pulled thru it I set my trap. I tie the trap to a large brush, a long stake or something the skunk can drag but am careful to see that it is not so heavy that he can pull on it and get loose. I dig out a pocket in the entrance of the hole to fit the trap and cover the chain and springs with grass and leaves. I visit my traps every morning and shoot my game.

To skin a skunk tie a string to each hind leg and tie to the limb of a tree. Skin the hide down the hind legs, pull it down over the body and head and cut off around the front legs. I always keep a supply of stretcher boards in stock because all hides should be stretched well. In trapping skunk and opossum I use No. 1 Victor traps.

Beloit, Kan. Lester Hosler.

Fooling the Coyote.

(Third Prize.)

At one time last winter we had a fresh carcass in the yard which had been visited a time or two by coyotes so I set five traps one night around the carcass. At the back where the most gnawing had been done, I placed a worthless old wolf trap in plain view so that the coyote would think it was the only snare set for him. On the other side, with gloved hands, I set four stout traps in front of the carcass and secured them to stakes hidden under it. The traps were wholly concealed in the thick, dead grass. Before leaving the set for the night I smeared my bare hands over the back of the carcass, leaving as much scent as possible near the bluff trap.

On approaching the spot the next morning I found a sure-enough coyote growling viciously and sprawling in the grass with a front foot in one trap and a hind foot in another. He was certainly "trapped" and a well directed shot put him out of his misery.

Wellington, Kan. Harold Malone.

A True Bear Story.

(Second Prize.)

I went trapping in the mountains in California two years ago with some friends. We took about 30 traps and a camping outfit with us and as soon as we found our camping place we set our traps. We had gone only a mile when we found a dead horse about half eaten so we set three bear traps around it.

We went to look at our traps the next morning and found seven skunks, five muskrats and one wolf. There were many bear tracks around the horse but we had no bear. We thought we would get him anyway, so we got two bear hounds and our rifles and set out for the horse about dark. We hid within shooting distance and waited about an hour. Finally we saw the bear coming and just as he was about to the horse I

shot at him. He rolled over and then ran. We turned the dogs loose and they chased him up the mountain about a mile. I followed him and had not gone far until I heard something coming down the mountain straight toward me. I waited a little while and soon saw a bear rolled up like a ball and coming right



Look out, Mr. 'Possum.

at me. I made for the nearest tree and the bear almost caught me before I reached it. I was badly frightened but the other fellows shot the bear and no one was hurt. We skinned the old fellow, cut off some of the best meat and then went home.

We found at the end of our trip that we had about \$200 worth of fur. We had caught two bears, 15 mink, 23 skunks and 40 muskrats.

Riley, Kan. Orley Renner.

Mr. 'Possum is a Prowler.

When my brother and I went to look at our traps one day last winter we were very much surprised to find that we had eight 'possums, one 'coon, and a sly old mink in the 18 traps we had set. We killed all the animals without any trouble except the 'possums. My brother shot four of them in the head twice with his rifle before they died.

The 'possum prowls around at night a good deal. I was milking my cows one night when a 'possum came into the lot. I heard a queer noise just 30 or 40 feet beyond me and when I turned to look I saw the 'possum playing with one of the calves. I watched the fun for about a half hour and then got a stick and hit the 'possum in the head a few times until I thought he was dead. I put him in a box that night and placed a rock over the box so nothing could get him. When I went out to skin Mr. Possum the next morning I took the board and rock off the box but found no 'possum there. There was a little crack about 2 inches wide in the box and the 'possum had escaped.

Frankfort, Kan. Henry Samuelson.

'Coons Make Good Pets.

My brother and I have a pet 'coon which we got this winter. Something had been bothering our chickens and we set a trap for it several nights but did not catch anything. We were eating supper one evening when something came up on the porch and the cat began to spit at it. We went out to see what it was and a 'coon ran around the house. We followed it but it got away and we went back to the house. Soon we heard a noise upstairs and when we went up to see what it was we found Mr. 'Coon. He had come in the front door which opens into the hall and gone upstairs while we were looking for him outdoors. We shut the 'coon up and gave him some water and feed. He made such a noise we thought we would have to kill him but when we went into the room where he was he seemed afraid of us and crouched down. We kept getting a little closer to him until he let us pet him and in a few days we had one of the finest of pets.

Moline, Kan. Fred Gibbs.

Catching the Muskrat.

The first animal I ever caught in a steel trap was a muskrat. I discovered a small hole which I thought belonged to a muskrat near a pond one day so the

next day I brought two steel traps with me and cut stakes and fastened the traps to them. Then that afternoon after school I set one of the traps in the hole, stuck the stake in the ground as far up on the land as I could, and put a half ear of corn in the mouth of the hole. I set the other trap in the water about a foot out from the mouth of the hole in which I had set the other trap.

When I went down the next morning I found the chain to the trap in the hole tight. I pulled and pulled on the chain but it would not come. Then I noticed the other chain tighten when I pulled so I jerked the other stake up and began pulling on the other chain. This time it came with a drowned muskrat in the trap. It had been caught in both traps, its front foot being in one trap and its hind foot in the other. I was certainly proud of my catch. I met an old man and took him down to where I had caught the muskrat and to my surprise found I had another one. I took the muskrats home and skinned them ripping them down the belly. Then I tacked them on the board and rubbed them with salt. I sold the skins for 25 cents each.

Chanute, Kan.

W. B. Jolly.

A Few Riddles for You

Read these riddles aloud to the family, withholding the answers, and see how many can guess them:

What evidence have we that Adam used sugar? Because he raised Cain.

Who was the first man condemned to hard labor for life? Adam.

Why was the giant Goliath very much astonished when David hit him with a stone? Because such a thing had never entered his head before.

Which are the two smallest things mentioned in the Bible? The widow's mite and the wicked flea (flea).

How many soft boiled eggs could the giant Goliath eat on an empty stomach? One, after which his stomach was not empty.

Where did Noah strike the first nail in the ark? On the head.

Why was Eve not afraid of the measles? Because she'd Adam (had'em).

Nature Promises a Mild Winter

Chicago has a veteran policeman on the force in Jackson park who during his years of service in the park has become an expert in woodcraft. Nature's signs, he says, promise a mild winter. He gives these as some of them:

Migratory birds were a month late in starting their southward flight.

Bark on the trees is thin and light.

Crickets and grasshoppers remained in the grass later than usual.

Covering on buds on the bushes is light.

Moles, up to the last week, were moving around under the sod, while earthworms showed that they had not yet sought winter quarters, by coming to the surface after rains.

Farm News in Allen

BY GUY M. TREDWAY

When the stanchions were put in our cow barn only full grown Jersey cows were considered. The drop was made 4 feet from the stanchions. This year there are heifers housed in the barn, and the drop is entirely too far back. It is quite difficult to keep their flanks clean. Some stanchions are still to be put in. Either the distance to the drop must be reduced the whole distance or it may be made 4 feet back at one end and 3 feet 8 inches at the other, thus accommodating cows of different size.

Pigeons visit hog lots for a radius of 2 miles or more to feed. With corn at \$1 a bushel it is expensive to feed a neighbor's pigeons, but there is even a worse side to the matter. They carry disease. If hog cholera should break out in the neighborhood the serum treatment and other precautions usually practiced would be of small avail because of these pests.

More tile was put in last fall on this farm where the summer showed the work of last spring to be incomplete. Our county, as most parts of Eastern Kansas, needs much underdraining. Fortunately the problem of draining usually can be solved on the individual farm, that is, an outlet secured without crossing another farm. This will help farmers who wish to drain, as many who would drain would be held back by an indifferent neighbor or by one who feels

he cannot afford to tile his land. There is one instance here where a man admits his land has been benefited by the draining his neighbor has done, yet he does not drain. This year the drained land produced about 15 bushels of corn to the acre, while his crop just across the fence was drowned out. Most of the draining in this county has been done thru the advice and efforts of the county agent.

Some farmers are going back to the old stalk cutter, for a few years discarded, as a means of disposing of corn stalks before plowing. With the sulky plow the stalks can be cut almost as satisfactorily by keeping the coulter sharp. We tried putting the coulter on the walking plow recently but found it did not have weight enough if more than one stalk at a time went under the coulter. This same lack of weight of the walking plow and consequent lifting of the plow at times is a large factor in favor of the use of the sulky plow.

We plowed up some alfalfa last spring which the wet season of 1915 nearly killed out. The alfalfa had been sowed the year before. This season showed we had not plowed up quite all the poor stand, and as a stand of alfalfa cannot be thickened easily we have just finished plowing up all the poor stand. It will be reseeded in the spring, using either oats at the rate of 1 bushel or flax at the rate of 1 peck to the acre as a nurse crop.

A car of potatoes was sold recently off the car at La Harpe for \$1.50 a bushel. Local stores were selling at \$2. The car was sold out the second day. These were Colorado potatoes of large size and fine quality.

The price of dairy cows is keeping up with other things. A good grade Jersey here will bring from \$85 to \$100. With feed at the present high prices a poor cow is more expensive to keep than ever. As farmers we must realize that a boarder cow is usually the result of breeding to a scrub bull. This is done because such a bull is at hand or the service charge for a good bull is high. A good cow is not a matter of accident but of intelligent breeding. Whether a man's cows are good or poor producers is a matter of his own choice and due to his skill and care.

Partnership between land owner and tenant is coming into favor more and more, and will in time drive out the present annual lease. The land owner supplies the farm and all permanent improvements, the tenant the labor, and each owns half the stock, implements and feed. Losses and profits are shared equally. Several advantages will come from this form of lease. Longer term leases will be made, and much more livestock will be kept. Also the owner of the land will make permanent improvements more readily.

The silo was opened this week. None of the cows to which the silage was fed had ever eaten any, and few would eat it at first. Gradually they began, and now most of them are eating fairly large quantities but not so large as the lists of rations so often seen would indicate. The young stock ate it much more slowly than the older stock. These cattle were running in the stalk field and were not particularly hungry. The calves are now eating a larger proportion than the older cattle. They began eating it when a little was put in their box and their grain placed on top of it.

Record Price Paid for Bees

At the International Live Stock Exposition held at Chicago in December Wilson & Co. gave the highest price ever paid in the United States for a carload of beef cattle. The cattle in question were in the grand champion carload lot fed by Ed. P. Hall of Mechanicsville, Ill., 15 head of Aberdeen Angus yearlings, of an average weight of 1,146 pounds, making a total weight to the carload of 17,200 pounds. The cattle were bid in an auction by Wilson & Co. at 28 cents a pound, a price which broke all records. The previous high record was 17 cents a pound. The price for the cattle averaged \$321.08 a head and the total cost of the carload was \$4,816. At the show in 1913 the record carload lot brought \$13.25 a hundred pounds.

The number of flocks of purebred chickens in Kansas is increasing every year.

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TOM McNEAL'S ANSWERS

A owns 320 acres and sells 160 to B. C. owns mortgage on the 320 which B agrees to pay. Then A sells the other 160 to D. Now have B and D good title? Can B be compelled to pay mortgage on both quarter sections after signing contract with A, and can he be compelled to give D an abstract after paying mortgage on what B has deed for? Can B remortgage the 320 if he cannot pay the mortgage when due?

SUBSCRIBER.

The transactions between A and B and A and D do not affect in any way the rights of C who holds the mortgage. If he has to foreclose his mortgage he would, of course, make A, B, and D all parties defendant but he is not compelled to look to either B or D for payment. The titles of both B and D are good, subject to this mortgage. B is liable under his contract with A and if he refused to fulfill his contract could be sued by either A or C to compel him to do so. As B is not a party to the sale from A to D, he could not be compelled to give D an abstract of title. Neither can he remortgage the entire 320 acres, for the very good reason that he has title to only one-half of it.

A Life Tenure.

My father, when he died, left a will giving his wife a life tenure on his real estate and personal property. At her death the property is to be equally divided among his children. Now the place has been sold for taxes. A tax deed was issued to another person and four days after the deed was issued she redeemed the property in her second name. What can the heirs do? SUBSCRIBER.

I cannot see from your statement that the rights of the heirs are jeopardized. By redeeming the land sold for taxes the widow places herself again in the same place she was before, in possession of the real estate with a life tenure. The fact that she had the transfer made in her second name would not alter the case. However, it would be well for the heirs hereafter to watch taxes and if the property is again sold for taxes, redeem it before it goes to deed. If any of the heirs are under age they would have the right in any event to redeem the land within one year after they have attained their majority.

The Widow's Rights.

A man living in Kansas is the owner of 160 acres, some stock, and farm machinery. His first wife died. By this wife he had three children. He remarried but there were no children by the second marriage. The man died. What part of his estate belongs to his heirs and can his second wife compel his children to sell the farm in less than three years? If the second wife dies what part of her estate goes to them? Is the second wife allowed, in addition, her half of the estate, two of the best horses, two cows and part of the farm implements? J. H. C.

The widow would inherit half and the three children the other half. This applies to the livestock and farm implements as well as the land.

She would have a right to ask for a division of the estate at any time after the expiration of 20 days after her husband died. She could not, however, compel the children to sell unless the land was incapable of partition.

If the second wife has children of her own her estate at her death would go to them. If she has no children her estate would go to her parents if living. If dead her estate would go to their heirs in their natural order. Her stepchildren would not inherit her estate.

A Joint Will.

A and his wife own 1,400 acres, a good home in town, \$2,000 in the bank and \$9,000 annual income from the land. They make a joint will, leaving all the land to his children except their home, a small tract of land and their money. The wife died and soon after A married. Can this second wife break the will if A should die before her? How much can she claim of what was not put in the will?

Could the marriage be annulled if it could be proved that A was insane after the death of his first wife and until he married his second wife? A. W.

I cannot tell from your question how the title to the property described was vested in the first place. Assuming that it was owned jointly by A and his first wife, that is to say, each owned an undivided half interest, then at A's death his first wife's share of the property included in the joint will and one-half of his half would be distributed according to the terms of the will. Of the property not included in the will one-half of the first wife's share at her death would descend to her children, if she had any, and the other half of her half would go to her surviving husband. If she had no children then her individual property, not included in the will, would go to her

parents if living and if they are dead then to their direct heirs.

The second wife could not break the will, but despite it at the death of her husband she would inherit one-half of his estate which would be one-half of one-half of the original estate owned by A and his first wife. Now if A and his first wife were not joint owners of the property described in the will—if all the property was in his name—her signature to the will would not affect the disposition of the property after her death. In that case she would have only an inchoate right which would not ripen until the death of her husband and as she died before he did the inchoate right ceased with her death. In that case the second wife would at the death of her husband inherit one-half of all the property both willed and unwilled, and her husband's children would inherit the other half.

If A was insane at the time of his second marriage it is voidable for he was not competent to make a contract. You do not put this part of your question clearly: You say "if it could be proved that he was insane up to the time of his marriage with his second wife." Now if he was insane during the period of his widowhood, as is not uncommon with widowers, but sane at the time of his second marriage, then the contract is not void. In order that the marriage can be set aside it must be proved that he was insane at the time of contracting the second marriage, and also at the time the marriage was performed.

She Couldn't Vote.

I am a legal voter in Richland township, Ford county, Kansas. I voted two years ago and have not moved. I have been ill in bed for almost seven weeks. I requested that a ballot and witnesses be sent to me so that I could vote, but this was not done. I live a mile from the place where the ballots were cast. Could my request have been granted legally? As persons away from home can vote and have the vote sent home by registered mail I should like to ask why I was refused. Dodge City, Kan. MRS. T. S.

The manner in which votes may be cast is governed by statute. The law in addition to defining the general qualifications of voters, also requires that in each precinct a place must be designated where the votes may be cast and that must be fixed by official proclamation. If there are variations from the rule that the electors of that precinct must vote at the place designated in the official proclamation the exceptions must be clearly and specifically provided for by statute as in the case of soldiers and in certain cases where the citizen is unavoidably detained in another state or away from his home, when, as the writer states, the vote may be cast and sent back to his place of residence. But, as I have said, this can be done only by virtue of a special statute. No statute has been passed in Kansas providing for the casting of votes at the homes of electors who may happen to be ill on election day. The judges had no authority to grant your request.

The Partition Fence.

A and B own adjoining farms. A owns the partition fence which is a big hedge fence. A has come in his field. B's cattle have been crawling thru the hedge. Can B compel A to cut the hedge or can he compel him to put wire on the hedge to make it a good cattle fence? A. READER.

B cannot compel A to cut down his hedge fence. If the fence is in a township which has voted to require hedges to be trimmed A may be compelled to trim his hedge. A hedge fence is not recognized as a legal fence unless the electors of the township have voted to make it so. If they have, the following are the requirements to make it a legal fence.

Whenever any person shall set out or cause to be set out any Osage orange plants not less than 1 year old around any piece of ground not more than 160 acres, not less than 10 acres of which shall be occupied and cultivated for crops actually standing or growing thereon, and to be set out not more than 1 foot apart, said hedge so set out and growing around any such cultivated field, shall be and is hereby declared to be a lawful fence.

Now the question is was A's hedge planted according to the specifications of the statute and, secondly, was the hedge law adopted by the voters of that township? If so then it is a lawful fence, and if B's cattle go thru it and destroy A's crops, instead of B having the right to compel A to change the fence A has the right to collect damages from B.

If the hedge law has never been adopted in that township then in the eyes of the law A has no fence and B might call on the fence viewers to require A to build his proportion of the boundary fence.

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Sunday School Lesson Helps

BY SIDNEY W. HOLT.

Lesson for January 14. John The Baptist and Jesus. John 1:19-34.
Golden Text. Behold the Lamb of God that taketh away the sin of the world! John 1:29.

In the days when Herod was king of Judea there existed a course of priests called the Abijah. To these belonged a man named Zacharias. His wife, Elizabeth, a kinswoman of the Virgin Mary, belonged to the priestly house of Aaron. They were good people, living a righteous God-fearing life, and feeling keenly the disappointment of not having had any children. When it came Zacharias's turn to minister in the temple he went in alone, as was the custom for this particular ministration, and was troubled to see beside the altar the presence of the angel, Gabriel. The angel told him that he and Elizabeth should have a son, and predicted the work to be accomplished by him who was to be called John the Baptist. Now Zacharias doubted the angel, for he and Elizabeth had grown old with their hope unrealized, so he asked for a sign that he might really be sure that it was not a foolish dream. Then Gabriel told him God had sent him with these good tidings, and that he would be unable to speak until after the birth of his son.

When Zacharias came away from the altar he was dumb, and had to make signs to be understood by the people waiting for him, and they knew that he had had a vision. After his days of ministration in the temple he returned home.

Six months before the birth of Jesus, John was born. A "city of Judah" in the hill country, is given as his birthplace. From his birth he was a Nazarete. The primary meaning of the Hebrew verb nazar is to separate. Thus the Nazaretes were a sect separated from the rest of the Jews by certain vows, the principal ones being the uncut hair, abstaining from any indulgence, and the non-use of wine.

John, in his lonely home, developed self-reliance, and in the solitude and waste places of the desert he learned God's spiritual strength. His familiarity with the Old Testament is shown by his frequent use of its picturesque language; but John heard God's voice in nature as well as in the scriptures as he brooded over the signs of the times.

Six months before the opening events of Christ's ministry we find John obeying God's voice and leaving the desert to preach and prepare the way for our Lord. For three centuries the voice of a prophet had not been heard in the land, and the Gospels of Matthew, Mark and Luke tell us how John's preaching stirred up the people and his message increased in ever widening circles as he baptized along the shore of the Jordan. His ministry was full of terror. The people felt him to be a real man, and as his religion was not one of mere forms the crowds, terrified by his pictures of eternal woes, hastened to free their awakened consciences of sin.

In baptizing, as John did, he was trying to declare unto the people, by a symbolic action, the condition of entering God's kingdom. It was a means of showing how to put away sin by a cleansing rite. The Holy Spirit, as he told them, would give a spiritual cleansing. John never pretended to be anything but a voice, or an instrument of God.

Even to John, Christ was not exactly the Messiah he had expected, but he never doubted God's judgment, and went on with his work with an ever increasing sense of deepening humility and a sincere rejoicing when he heard the tidings that men were coming to Jesus.

John the Baptist was a faithful witness and it was not his fault that some of the early disciples attached more importance to his teaching and failed to see the unique glory of Jesus whose way he came to prepare; a herald to the day of which he saw only the dawn. As we study the man more carefully we learn to love and understand his humility, his honesty and his fearlessness in carrying out the work he was sent to do.

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"Last winter I was unable to get my horses to put on a pound of weight. Their hair was rough and coarse and the animals all run down. After using SAL-VET one of the horses passed at least two half-bushels of worms, and since has been improving steadily, so that now he is sleek and fat. I have spent a good many dollars for different kinds of condition powders, but have not received the results I have from the pounds of SAL-VET."

WILLIAM A. HEINEL,
Brimfield, Ohio.

"My horse certainly did fine while fattening, and I did not lose a single one, while some of my neighbors lost their entire herds. I trust, and do give SAL-VET credit for these results."

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10 lb. pkg.	\$.75
20 lb. pkg.	1.25
40 lb. pkg.	2.25
100 lb. pkg.	5.00
200 lb. pkg.	9.00
300 lb. pkg.	13.00
500 lbs.	21.00

Dealers sell SAL-VET at above prices, but in the far West and South they charge a little more because of freight charges.

NEVER SOLD IN BULK only in packages of above sizes—never loose or by the pound.

SIDNEY R. FEIL, Pres.,
THE FEIL MFG. COMPANY,
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Send me your FREE BOOK on care of live stock. I have.....hogs.....sheep
.....horses and mules.....cattle.

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Daylight at Night
on the farm with the best and most economical light in the world, the

Coleman GAS LANTERN

Gives strong, 300 candle power light without flicker. No Dirt, No Smoke, No Grease, No Soot. No wicks to trim—no globes to wash. Nothing to get out of order. More powerful than 20 ordinary lanterns, and only a tenth the cost of kerosene lighting.

A Fool Proof Light

Can't be filled while burning. Can't spill—Can't explode. Absolutely safe anywhere. No danger if rolled around in straw. Won't blow out. Can't be jarred out. Nothing to break or get out of order.

Makes and Burns Its Own Gas
Guaranteed Five Years. Lasts a lifetime. Awarded The Gold Medal at San Francisco. Ask your dealer, or if not for sale in your town, write for new catalog.

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Stover Manufacturing & Engine Co.
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STOVER'S GOOD ENGINE, SAMSON WINDMILL, STOVER FEED GRINDER, ALFALFA AND ENRIAGE CUTTERS, WOOD SAW FRAMES, WASHING MACHINES, PUMP JACKS, HAND GRINDERS, FIREPLACE FIXTURES and HARDWARE SPECIALTIES.



FARM WAGONS

High or low wheels—steel or wood—wide or narrow tires. Steel or wood wheels to fit any running gear. Wagon parts of all kinds. Write today for free catalog illustrated in colors.

ELECTRIC WHEEL CO., 30 Elm Street, Quincy, Ill.

FORTUNES HAVE BEEN MADE

by advertising. Everyone knows that so well that it isn't necessary to insist upon it. We are not arguing that you will make a fortune by advertising in Farmers Mail and Breeze. But we do claim that there is no reason why you should not do what others are doing, add substantially to your income by advertising in the columns of this paper and we are not sure you may not find yourself on the way to a fair fortune. Look over our advertising columns, the display and the classified columns. You know what our readers buy that you have to sell, poultry and eggs for hatching, hogs, cattle, horses, land, seed corn and good seeds of about every kind. One man sold \$3,000 worth of seed by spending \$5 for advertising space in one of the Capper Papers. That is an extreme case, of course, but there is a big market for what you have to sell. Our readers will furnish the market. Rates are given in this paper. They are low for the circulation. If the rates are not clear to you ask us for them, addressing Advertising Department, Farmers Mail and Breeze, Topeka, Kan.



Do Your Own Mending

WITH A SET OF THE "ALWAYS READY" COBBLER'S TOOLS

This handy shoe repair outfit was made especially for home use. With the aid of these tools you can easily do any kind of shoe repairing at a great saving of time and expense. The outfit comes securely packed in a box and consists of the following: Iron stand for lasts; one each 9 in., 7½ inch, 5½ inch lasts; shoe hammer; shoe knife; peg awl; sewing awl; stitching awl; one package of heel nails; one package of clinch nails; and full directions. A most complete and serviceable outfit which will always give satisfaction.

OUR OFFER: This cobbler's outfit may be had free all mailing charges prepaid by sending a one-year subscription to Mail and Breeze at \$1.00 and 25 cents to help pay packing and mailing charges—\$1.25 in all. Either new or renewal subscriptions will be accepted. Send in your subscription and remittance at once to

FARMERS MAIL AND BREEZE
Dept. C. O. 10, Topeka, Kansas.

Announcing A New Sand

\$1095⁰⁰
F.O.B.
SANDUSKY.

THE principal aim in developing this 10-20 tractor has been to widen the field of usefulness for Sandusky service. It solves the power problems confronting the farmer who does not require our large machine.

At our first conference, three years ago, covering such plans the argument was advanced: "Why not build a small *cheap* tractor which will sell itself on account of its low price?"

Our *manufacturing facilities* would enable us to do this on a large scale. But this did not accord with the *policies of our President*, Mr. J. J. Dauch, who personally controls seventeen large manufacturing establishments throughout the United States and Canada, each operated on the basis of "quality always."

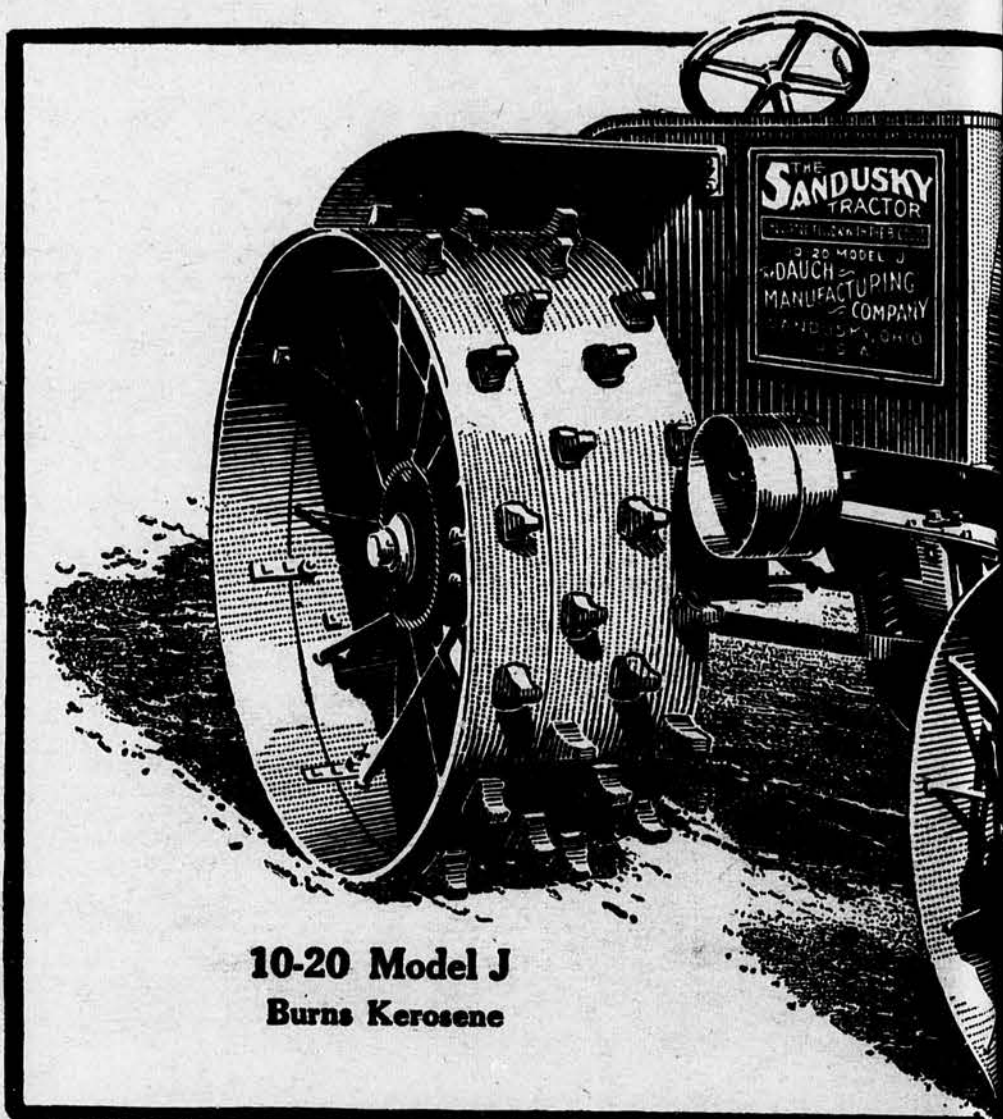
This point having been determined, our first small tractor was designed and built. Farmers who saw this model wanted it; so it was with the second. From every indication these machines were far ahead of what was then being marketed. But they did not measure up to our ideal—a small tractor that we could afford to back with a binding guarantee; one that we knew would maintain the reputation thoroughly established by our larger machine.

The result is a tractor embodying our utmost efforts—not toward reaching a low price machine, but one to fill the need for a good tractor capable of real service at as low a figure as modern manufacturing facilities can produce and an efficient organization can market.

Engineers of world renown have approved its design, incorporating the famous Timken worm and gear drive, as representing the ultimate standardized small tractor. Years will prove that this Company has again set the pace of leadership in the Model J, as has been true in the case of our Model E.

BRIEF SPECIFICATIONS

Our own specially developed four-cylinder, four-cycle, $4\frac{1}{4}$ " bore, $5\frac{1}{4}$ " stroke, quality motor. Drop forged high carbon steel crank-shaft, cam-shaft and connecting rods. Ninety-three percent tin base die cast interchangeable bearings. Valves enclosed. Combination force feed and splash oiling system. High tension magneto—impulse starter. Bennett air cleaner. A guaranteed kerosene burner. Surplus cooling capacity. Pulley for belt work. Adjustable cone clutch. Three speeds—2 and 3 m. p. h. forward and reverse. Timken David-Brown worm and gear drive. Hyatt equipped from motor to differential driving shaft, with universal couplings between motor, transmission and differential. This, together with *three-point* spring suspension, relieves road shocks, weaves and strains. All enclosed and protected against dust. Full steel construction. Short turning brakes. Weight, 4000 pounds. Length, 120 inches; wheel base, 76 inches; height, 52 inches. Rear wheel diameter, 48 inches; face, 12 inches and 6 inch extension rims; front wheels, 32 inches diameter, 6 inches face.



10-20 Model J
Burns Kerosene

OUR GUARANTEE

We guarantee this machine capable of delivering a constant 2,000-pound drawbar pull. This is more than equivalent to handling two 14-inch plows at least eight inches deep in soil where a two-horse team can handle one 12-inch plow six inches deep, with a big reserve, or three 14-inch plows at depth formerly plowed with team and 12-inch bottom. We also guarantee it to deliver 20 horse power on the pulley, which furnishes ample power for the operation of belt machinery up to a 24-inch separator with full equipment—all on kerosene as fuel.

We further guarantee this machine free from defects in either workmanship or material for one year from date of acceptance and will furnish f. o. b. factory any such parts returned, transportation charges prepaid, for inspection and credit.

A NEW PLACE

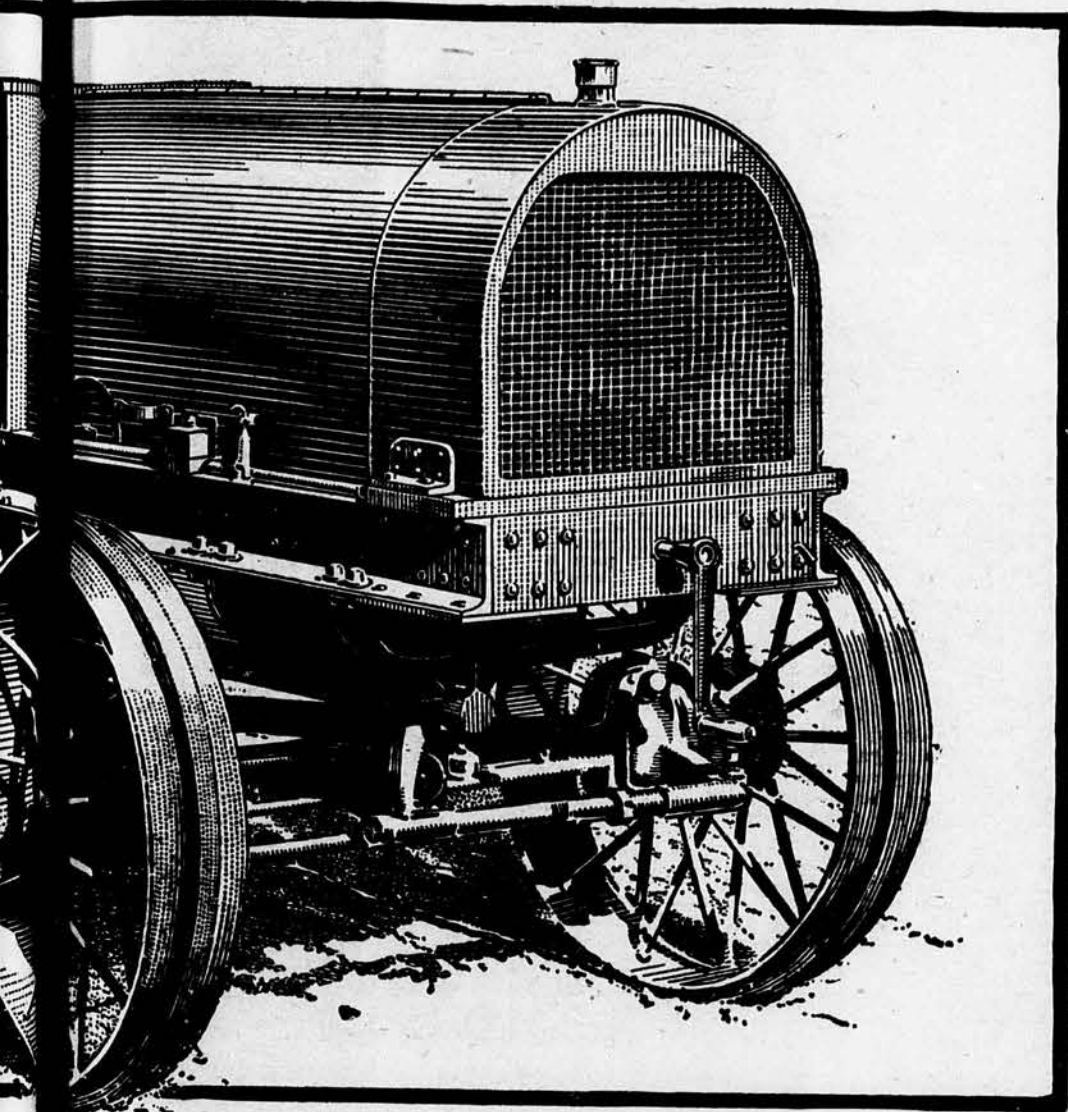
We announce a new tractor selling. A complete service, goes with expert advice and help. Want it. See catalog.

THE SANDUSKY
"THE LITTLE FELLOW"

The Sandusky Tractors—both Models—are ready for sale at Service Stations at Indianapolis, Ind.; Bloomington, Ill.; Sioux City, Iowa; Lincoln, Nebr.; Wichita, Kans.; Dallas, Tex.

The Dauch Manufacturing Company

Sandusky Tractor—"Model J"



\$1095⁰⁰
F.O.B.
SANDUSKY.

TO his engineers Mr. Dauch said: "We are not interested in the manufacture of a *cheap* tractor. Our manufacturing and sales organizations are imbued with the *quality* idea embodied in our Model E. We cannot afford to demoralize these influences by putting out an inferior product merely to meet price competition."

These thoughts, together with the fundamental principle that this tractor must be adapted to the widest possible range of usefulness, dominated the development work in all its stages.

As a consequence the service which this tractor will render, the results it will produce in dollars and cents, the economies of labor which it will effect on your farm, make its purchase a profitable investment. The brief specifications below, and the more detailed description in our booklet, prove to any man that this machine offers a greater value per dollar than elsewhere obtainable.

Compare the Model J power plant with others. Consider its light weight—only 4,000 pounds; its Timken worm and gear drive, which actually increases in efficiency with use; its Hyatt Roller Bearing equipment. Remember that bevel gears and ordinary bearings mean friction, wear and loss of power. Remember our guarantees are based on the use of kerosene as fuel. Think! The result will draw your good judgment to this tractor like a magnet.

The Model J is a truly general purpose tractor, adapted not only to plowing, but also to the preparation of the seed bed, and all other farm power work, thus enabling you to profit by its service throughout the year.

It will be physically impossible to meet the tremendous demand of those who wait until their field work is in progress. We therefore urge you to write us at once, fully outlining your requirements. This will not obligate you in any way.

TRY IT BEFORE YOU BUY

Continuing the policy created by us in the sale of our 15-35 Model E Sandusky Tractor, we will put the 10-20 Model J on your farm, demonstrating its ability to fulfill our guarantees under your own local conditions, and personally instruct you in the handling and care of this machine. It must prove itself profitably adapted to your requirements before you buy.

BOOK J-61 -FREE

It describes in detail the principles of design, construction and ability of this smaller "Little Fellow With the Big Pull." It will enable you to make a thorough study of the real merits of this machine as compared with other tractors. In writing place your problems before us and we will gladly assist you in solving them without obligation on your part. Be sure to ask for Book J-61

SERVICE

A new departure in good for 100 hours Model J. This means no charge when you

SANDUSKY
TRACTOR
"WITH THE BIG PULL"

at and delivery from our principal Factory Branches and
Wis.; Lewistown, Mont.; Minot, N. Dak.; Fargo, N. Dak.;
Esburg, Fla.; Los Angeles, Cal.; Sacramento, Cal.

Company, Sandusky, Ohio

DEALERS OPPORTUNITY

The 10-20 Model J Sandusky Tractor offers an exceptional opportunity to high grade dealers who will stock this machine on protected territory contracts. We want men of quality to represent us—men who are abreast of the times, in position to give service to our customers, and willing to give the time and energy required to build up a real business. For such men we have an attractive proposition.

Look for this announcement in the principal farm papers. It will be followed by the greatest big-space advertising campaign ever put back of a tractor. This in itself will create a big demand for you. Send for our dealers' prospectus. It outlines in detail the policies underlying this establishment; also our complete plans for such co-operation as will rapidly develop this account into a good-paying, permanent business for you with ever-increasing opportunities.

Write today—better still, wire territory reservation.



Peerless FENCE

WITHOUT A RIVAL

"This Is My Hobby,"
says wise, old
Col. Experience

"Yes, Sir! For years wire fencing has been my hobby. I've carefully investigated every kind there is, and season after season I've watched my neighbors put up new wire fencing of one sort or another. And, my friend, I'll tell you this: The more I study and observe, the more convinced I am that my good judgment is on the right track when it says to me: The only really good fence at a reasonable price is

PEERLESS FENCE,
the Fence that stays put and lasts indefinitely."

Why Peerless is Best

Costs less per rod than any other equally high grade fence.

Made of very heavy gauge open hearth steel wire that gives unmatched strength and stay-there qualities.

Special galvanizing by a secret process that resists rust indefinitely.

The famous "Peerless Tie" holds every wire in place regardless of the strain. Peerless stays put.

The Peerless one-piece cross-bar prevents animals pushing the fence down from the top or up at the bottom; it never sags.

There is probably at least one store in your town where Peerless Fencing for every farm purpose is sold, as well as the popular Peerless Self-Raising Gate and Peerless Lawn Fence. But if there should be no dealer convenient, write for our big, free, interesting Fence Book; generous samples included.

PEERLESS WIRE FENCE CO., 208 Michigan St., ADRIAN, MICH.

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WRITE FOR IT TODAY!

My Big New Catalog of **CANT-SAG** Farm Gates will save you money. Write for it NOW—TODAY.

"Cant-Sag" Gates

Cost less than all wood—last 5 times as long as wood. No sag, drag, warp or twist. Boards double bolted (not nailed) between 8 angle steel up rights. Guaranteed 5 years. You can get complete Gates or just the Gate Steels so you can make your own gates and save money. Write for Catalog. **ALVIN V. ROWE, Pres.**

ROWE MFG. COMPANY
1813 Adams St., Galesburg, Ill. (13)

13c PER ROD UP

BROWN FENCE

Write for Greatest money saving fence bargain book ever printed. Brown fence is made of Heavy **DOUBLE GALVANIZED** Wire. Resists rust longest. 150 styles. Also Gates, Steel Posts, Barb Wire. Low Factory Prices. Freight Prepaid. Write for wonderful free fence book and sample to test. **The Brown Fence & Wire Co., Dept. 1013—Cleveland, Ohio**

When writing to advertisers be sure to mention **Farmers Mail and Breeze**

The Farmers' Flashlight Free

This lamp should be in every home. A push of the switch floods the darkness with a brilliant, steady white light. It is built for lifetime use; size 1 1/2 x 2 1/2, vulcanized fiber case, non-shortcircuit, with nickel plated trimmings, slide switch for either flash or continuous light. Extra large reflector, bullseye lens 2 1/4-inch diameter which increases candle power and spreads light. Uses standard 2-cell renewal battery. It is rapidly displacing the unreliable lantern for every purpose. There is no danger from fire and no matches are needed. It is perfectly safe around gasoline, hay, or any inflammable materials. Do not risk fire in your barns, but be on the safe side and use a flash light. Just the thing for doing chores. This gives you the cheapest light you can possibly get, for one 25-cent battery will last for many months.

Mail and Breeze Free Offer We will furnish you with one of these lamps carefully packed free and postpaid if you will send us only one 3-year subscription to **Farmers Mail and Breeze** and \$2.75 to pay for same. If you are at present taking the paper we will extend your subscription for three years.

SPECIAL 20-DAY OFFER

USED BY
Farmers
Autoists
Messengers
Photographers
Watchman
Nurses
Boys—Girls
Everybody

FARMERS MAIL AND BREEZE, Dept. HL, Topeka, Kansas

For Peace on Earth

GOVERNOR Capper has issued the following proclamation, setting aside Sunday, January 28, as peace Sunday in Kansas, and designating Monday, January 29, as Peace day as well as Kansas day, and asking that all loyal Kansans observe the two days:

In the beginning of the New Year, with most of the nations beyond the seas at war, the minds of men everywhere turn to ways and means by which future conflicts may be prevented.

In America, which has profited financially to an incalculable extent by the misfortunes of war-stricken lands, thoughtful men and women are organizing to place in concrete form a plan of world-wide influence which shall have for its object not only the disseminating of peace propaganda, but of still more important significance, a movement to insure its permanence. The League to Enforce Peace seems to be the most practical plan by which this great purpose may be achieved.

Despite the fact that the European war has brought to Kansas millions of dollars in excess of any other year, no person at all familiar with his state doubts for a moment that the people of this part of the Middle West are emphatically opposed to war. No material advantage can serve to change that opposition in an enlightened state where man values are so high. Kansas never has been slow to take its part in such movements. As a state it has

responded promptly and generously in every great crisis. Its people have a world-grasp, an intelligent understanding, a quick sympathy, and inflexible determination once they believe in a situation. They may be depended upon always to see their duty and to perform it. They will not be content to stand before the world as onlookers thru any fancied geographical isolation or geographical security. They will ignore material considerations in favor of humanitarian impulses such as are certain to move a big-minded, big-hearted people to whom patriotism means something more than powder and shell.

Believing, as I do, that these expressions represent the feelings of Kansas people, I should hold myself guilty of neglecting a mighty opportunity for good if I did not realize the wisdom of designating a time for the calm and deliberate discussion of this tremendous question. Wherefore, I, Arthur Capper, governor of the state of Kansas, respectfully and earnestly urge the people to set aside Sunday, January 28, 1917, as "Peace Sunday" in Kansas, and Monday, January 29, as "Peace Day" as well as Kansas day. Ministers of the gospel are asked to give special attention in their sermons to the furtherance of peace plans; schools, lodges, farmers' organizations, women's clubs, labor unions and every other form of organization are urged to co-operate energetically to encourage an increased membership in the Kansas branch of the League to Enforce Peace.

For the Pig Club Boys

BY S. G. NASH
Secretary

No doubt there will be some disappointed boys this week when they read this story and don't find the announcement of the prize winners in the 1916 Capper Pig Club contest. The fact is it is no small task to go over all the reports and read all the stories sent in by the boys, and the judges were unable to complete judging in time so awards could be printed in this issue. There are some mighty good stories among the lot and some good records, too but we'll just



in prizes will be awarded for the best records in pork production. Let's get busy and fill up the counties before the entries close on February 15.

There's a chance for one more boy in the following counties: Allen, Cherokee, Edwards, Finney, Ford, Franklin, Lincoln, Mitchell, Neosho, Pawnee, Riley and Stafford. We need two more boys in Barber, Barton, Brown, Comanche, Ellsworth, Gove, Meade, Morton, Ness, Norton, Rawlins, Seward, Sherman, Thomas, Wallace and Wichita counties. Ellis, Geary, Graham, Grant, Greeley, Hamilton, Haskell, Hodgeman, Kearny, Lane, Logan, Marion, Rush, Scott, Sheridan, Stanton, Stevens, Trego and Wyandotte counties have less than three members enrolled.

Woodson county is the only county with membership completed since last report. Here are the names of the boys in that county:

Name and Address	Age
WOODSON COUNTY:	
William Robison, Yates Center.....	15
Russell Webster, Rose.....	14
Karl Veteto, Neosho Falls.....	13
Elmer Hill, Toronto.....	13
Frank White, Rose.....	17

Gratitude.

A seed there was and it chanced to fall
In fertile soil by an old stone wall.
It sprouted up and began to twine
In fashion true to a pumpkin vine.
And soon essayed to dispel the gloom
With palmy leaves and a wealth of bloom.

When Farmer Jones chanced to pass that way
He saw the vine with its bold display.
"It's volunteer, so I'll cut it down,"
He said, and paused, with an ugly frown.
But stayed his hand when he saw the vine.
In thrift and blossom was extra fine.

The summer passed and the harvest came,
And Farmer Jones knew a meed of fame,
For, as he passed in the early fall,
The vine he spared by the old stone wall
Presented him a pumpkin rare
That took the prize at the county fair.

In Kashgac, Chinese Turkestan, any person so wishing can get a divorce at a cost of 8 cents.

wait and let Mr. Case tell about those next week when he announces the prize winners.

Patrick O'Meara of Council Grove has a broken leg and will be laid up for 2 months. He wants all the boys to write to him.

There's still time to line up for the 1917 contest and Mr. Case would like to have the boys in the counties where the membership is not complete show a little more pep, and try to get some of their friends interested. Tell your chum that if he can file approved recommendations in time to get into the contest Arthur Capper will lend the money to pay for a purebred sow. Records are to be kept and after the close of the contest, December 15, 1917, almost \$300

THE CAPPER PIG CLUB

John F. Case, Contest Manager, Capper Building, Topeka, Kan.

I hereby make application for selection as one of the five represent-

atives for county in the Capper Pig Club Contest. I will try to secure the required recommendations and if chosen as a representative of my county I will carefully follow all instructions concerning the club work and will comply with the contest rules. I promise to read articles concerning pig club work and will make every possible effort to acquire information concerning the breeding, care, and feeding of swine.

Signed Age.....

Approved Parent or Guardian

Postoffice Date.....

Age Limit 10 to 18 Years.

What Shall I Do, Doctor?

BY DR. CHARLES LERRIGO.

Ear Trouble.

When I was about 2 years old I had a hard fall, striking the back of my head. I soon developed a running ear which was thought to have been caused by the fall. My father took me to a doctor who said to let it alone as I would outgrow the trouble. But I didn't outgrow it. I am now 27 years old and the ear is the same. I have been deaf in that ear since a child. It gathers, becomes quite sore, then runs. In fact it runs all the time, the odor is very offensive. I have syringed it almost daily with warm water to make the odor less offensive. I often keep medicated cotton in the ear to absorb the corruption. Is there anything I can do to get relief?

T. B. T.

Since your trouble is of such long standing and the discharge of such an offensive odor I have no doubt there is dead bone that will have to come out before healing takes place. No one can promise restoration of hearing in the deaf ear, tho it is possible that it may come back in some measure. This should have early attention, both because of the annoyance of the offensive discharge and the possibility of developing a mastoid abscess with its very serious dangers. Your family doctor can do nothing for such a case, but he may be glad to guide you to a competent ear specialist. The right man can cure it.

Control Your Appetite.

My face seems always to be hot and red, and especially my nose. I used to have pimples on my face. I have used calcium wafers. I now have no pimples but my face always was hot and red and still is now. I sleep only eight hours a day. It seems as if I have too much blood. I have blackheads also and a terrible appetite. I could eat all day and be so full I can scarcely move, and still things taste so good I cannot stop eating. Can you please tell me how I can lose my appetite and make myself paler?

M. S. B.

You really don't tell me much about your health. If, with all you mention, you feel strong, can work well and sleep soundly, I must simply conclude that you are one of those persons naturally endowed with a "full habit." Such a person must learn self-control in eating and choose a vegetable rather than a meat diet. From the pimples and blackheads you speak of you undoubtedly have acne and this condition will be improved with the vegetable diet. Outdoor exercise is good for you. It won't make you paler but it will make your color of a healthy appearance. An appetite is a good thing. You need not lose it—simply learn to control it.

Butterfly Plant.

What is the butterfly plant, where found and for what diseases is it good?

MRS. J. W. S.

I know of no plant of this name possessing medical properties. Possibly you have in mind the Butterfly weed, sometimes known as Pleurisy root, the official name for which is *Asclepias Tuberosa*. This plant is found in fields throughout the United States and Canada. Its action is chiefly on the mucous surfaces. It is held in great repute in the treatment of the dry cough and cutting pain of pleurisy.

Nasal Catarrh.

Is nasal catarrh curable? What is the very best medicine to use? How long a time should it be continued to gain a cure?

M. K.

This is not the simple question that it seems to be, for many things masquerade under the name of nasal catarrh. As a matter of fact catarrh is a symptom of many diseases, some readily curable. The condition of the nose commonly known as catarrhal, in which there is a thick offensive discharge with crusts and scabs of mucous blocking the nostrils is curable only by patient and persistent attention to all the rules of proper living. Sometimes there is a polypus in the nose, or there is a thickening or deformity of the turbinate bones or the septum. In such cases no cure will be made until the surgeon has corrected the trouble. So far as sprays and washes are concerned they are useful for the sole purpose of cleaning away the offensive discharges and giving the tissues a chance for repair. They should never be applied in a strong, harsh stream. A very fine oily spray, antiseptic in character, is the best application and should be used thru an atomizer, not snuffed up the nose.

But the real cure for catarrh is dependent upon strengthening the whole body. You must get used to cold air so that you will not take fresh cold at every stormy wind that blows. Cold sponging of head, back and chest every morning helps in this direction. You

must have a good digestion and a regular bowel habit. You must faithfully avoid over-eating. You must sleep with wide-open windows. You must take daily exercise and develop an active circulation. These are the medicines that really cure catarrh.

Frozen Feet.

Nine years ago my feet were frozen, and they have given me trouble every winter; they get cold too easily; when they begin to warm up they itch and hurt, and get very sore and tender. Have tried everything from iodine and alum water to medical doctors and high priced railroad surgeons. I am a farmer and need to be in the cold at my work.

R. W. L.

There is no drug or liniment that will do much for you. Freezing works very serious damage to the tissues. It is extremely important that the circulation should be restored to a frostbitten member slowly. The chilled or frosted parts are so deficient in circulation that many of the finer bloodvessels are in a very feeble state. If you apply heat you expand the vessels and force onward the flow of blood so that it reaches these impoverished branches before they are strong enough to care for it and thus a congestion is caused which may result in the destruction of a great deal of tissue, even to the point of gangrene. The reason for rubbing the parts with snow is to stimulate the deadened tissues gently so that they may receive the circulation in the normal way. If this is done very little permanent damage results. If on the contrary the parts are frost-bitten thoroly there is a certain destruction of tissue, such as is evident in the case of this writer, that never can be restored.

The best treatment now is prevention of cold. The feeble heat generated must be preserved by the wearing of woolen socks and substantial shoes. A cork insole in the shoe is quite helpful. It is good practice to stimulate the circulation by rubbing the feet and legs in cold salt water every morning and then drying vigorously with a coarse towel. Be very careful about over-exposure as a severe frost-bite might now result in gangrene.

Care of Toe Nails.

Please tell me a cure for ingrowing toe nail.

M. S. N.

Soak the foot for an hour in very hot water containing a tablespoonful of bicarbonate of soda to the quart. This helps to soften the nail. Now scrape the surface of the nail: thin as possible all the way from the little half-moon to the edge. Then clip all surplus edge square and close, and insert a pledget of cotton beneath the offending corner.

This will not be sufficient in aggravated cases where the nail is already out of its boundaries and proud flesh has accumulated. In these cases apply burnt alum to the offending tissue, working it in as closely as possible. A few applications will kill the proud flesh and shrink the tissues so that you can raise the edge of the nail that is intruding and remove it. The best way to avoid a recurrence is to keep the surface scraped thin and the edge squarely trimmed.

Get Proper Glasses.

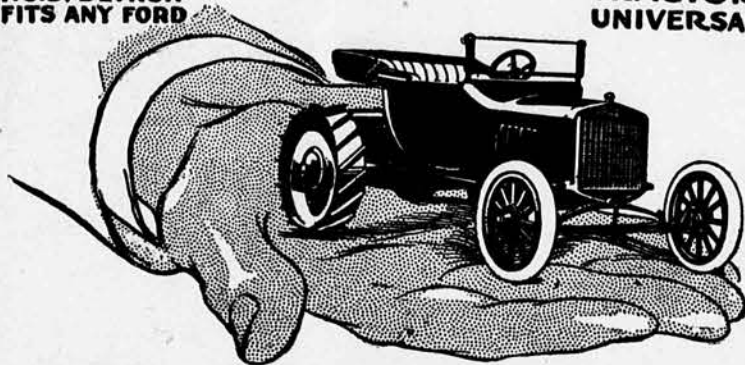
My trouble is what the doctors call neurasthenia. It started with what is called I think, migraine, and then developed into a continual headache. My eyes seem strained also. Am wearing glasses, but they don't help me much. Have been troubled with this about six years. Am 24 years old. I hesitate in consulting more doctors as I have tried many with no good result. I should rather not take any medicines internally as I don't think they'll do me any good. Would the injection of alcohol be advised in this case? Have seen it done for neuralgia of the head. Aside from this ailment I am physically healthy. Have no bad habits. Am not constipated. Have good appetite and sleep tolerably well.

L. R.

I should scarcely classify your trouble as neurasthenia. It seems to me that the most important thing is to be very sure that your eyes are properly fitted with glasses. Do not take the opinion of anyone except a first class oculist. Patients, afflicted with migraine know frequently when an attack is coming and are able to avoid it by taking an effervescent saline purgative such as a seidlitz powder. You should not be satisfied with a general belief that your health is good but should take a thorow examination not only as to the eyes but also the teeth, nose, ears, and digestive organs. You should be very particular as to diet. Take your meals regularly, have long intervals between food and take a short rest before every meal. Meats should be eaten very sparingly or not at all. Coffee, tea and all other stimulants should be avoided. I do not think the injection of alcohol into the nerve would do any good in a case of this kind.

\$125 00
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FITS ANY FORD

"The
TRACTOR
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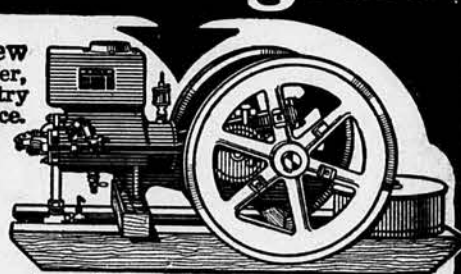
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Rape Makes Good Pasture

Rape is one of the very profitable annual pasture crops for hogs, and it deserves a far larger place in this state. It can be used especially well in small corners and patches that otherwise might not be profitable. It can be broadcasted or drilled at the rate of 5 pounds of seed an acre; some farmers use less than

community that is vitally interested in cows. One thing which will help greatly in the movement for more co-operative creameries in Kansas is the practice which farmers are getting in co-operation in other ways. There is a decided interest in union in Kansas in other lines than dairying, and this is teaching farmers to work together. Therefore it is not likely that all the trouble from a



There is a Rapidly Increasing Interest in the Use of Rape for Hog Pasture; It is One of the Best Annual Crops for This Purpose.

this, especially if the seed is drilled. As a rule it does best when it is drilled. The more extensive use of this crop for pasture is in line with the very obvious effort that is being made by Kansas farmers to decrease the production costs of hogs. This is necessary because of the high prices of grain. All the pasture crops have an important place in reducing this cost, and of these one of the more important is rape.

Kafir Headers are Popular

A great deal of the kafir and related sorghum crops in Kansas are harvested with headers when the grain is desired. This is true especially in the central

lack of harmony which occurred with some of the older creameries will be noticed again.

It Tells About Farm Crops

Productive Farm Crops, a book written by E. G. Montgomery, is a recent addition to the Lippincott farm manuals. It is a handy volume for farmers desiring a reference book covering all of the cultivated crops. It also is an excellent text for students who have some knowledge of crop production.

There are 493 pages crowded full of information about all sorts of crops, grown in all parts of the country. The 203 illustrations help make the book



A Reschke Kafir Header at Work on the Farm of Charles Baker near Pratt, Kan. This Machine Has Given Excellent Results.

and western parts of the state, where there is not so much trouble with heating as in eastern Kansas. It is possible for one man to head 5 or 6 acres with a wagon box header if he has a good team and the field is not too soft.

A Co-operative Creamery Pays

Dairying has reached the point in Kansas where a big development is possible with co-operative creameries. This is a fortunate thing, for it shows progress has been made. A co-operative creamery needs considerable attention to dairy farming from its patrons if it is to succeed. It must be the center of a com-

interesting. The better farmer you are the more interested you will be in studying Montgomery's book. It sells for \$1.75, and is published by the J. B. Lippincott Company, Philadelphia.

Willis (ready for school)—"Mamma, they are hoisting up a safe down the street."

Mother—"Well, be careful not to walk on the safe side."—Boston Transcript.

Husband—"I wonder why all the misers we read about are old bachelors?"

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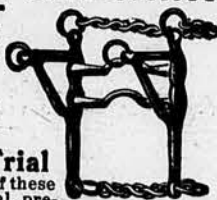


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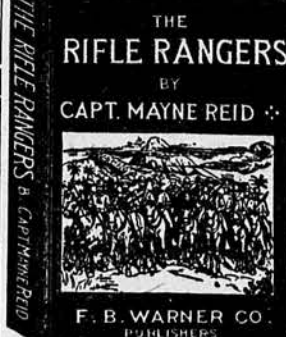
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WHEN WRITING ADVERTISERS PLEASE MENTION FARMERS MAIL AND BREEZE

An Almanac for 1917

In compiling the Studebaker Almanac and Weather Forecast for 1917, the editors have endeavored to gather a great amount of short, to-the-point articles and information which will be interesting and of every day use to the readers. These articles are arranged by general classification, so that information on any particular subject is easily available. Much care has been taken to give the most practical information in the simplest form. Besides the usual almanac calculations for 1917, the new edition is full of valuable information for every progressive farmer and cattleman. It covers thoroughly every subject connected with agriculture, dairying and stock raising, besides general and helpful hints for the women of the home. The general information concerning the care and upkeep of automobiles, will be of especial interest to thousands of farmers. This advice, compiled by expert mechanics and automobile engineers, will save many a big repair bill and needless expense, if closely followed.

Retired Farmers

BY WALT MASON

The husbandman, when waxing old, and well supplied with yellow gold, remarks, "I'll quit the farm; I've had my fill of honest toil; this thing of wrestling with the soil has sort of lost its charm." And so he buys a house in town, and thinks that he will settle down to soft and downy ease; but ere a year has gone its way, he's yearning for the bales of hay, the piglets and the bees. He finds the urban life a bore; his feet are cold, his soul is sore, time drags on leaden feet; so he resolves to travel back and build the tall alfalfa stack, and shock the bearded wheat. The farmer seldom learns to read; he is so busy sowing seed, and wielding shepherd's crooks, and making hay in verdant vales, and combing burs from horses' tails, he has no time for books. So when he moves himself to town, he cannot with a tome sit down, and read the stuff that's hot; he cannot lose himself in Pope, or wallow deep in Shakespeare's dope, or soak up Walter Scott. Unhappy is that man, indeed, who thinks it waste of time to read, whose thoughts are all of hay, who'd rather mess around a churn than read a book by Laurence Sterne, or ode by Thomas Gray.

Copyright by George Matthew Adams

What Sort of School Have You

(Continued from Page 1.)

successful business man would think of removing competent employees except for cause, and surely the state has no more important business than that of preparing its boys and girls for the life they are to live after school or college. The legislature will do well to give particular attention, also, to the subject of centralized schools and the county unit plan of taxation, so that all the schools of a county may be on an equal money basis, excluding from such units, of course, all first and second class cities, and cities of the third class employing six or more teachers.

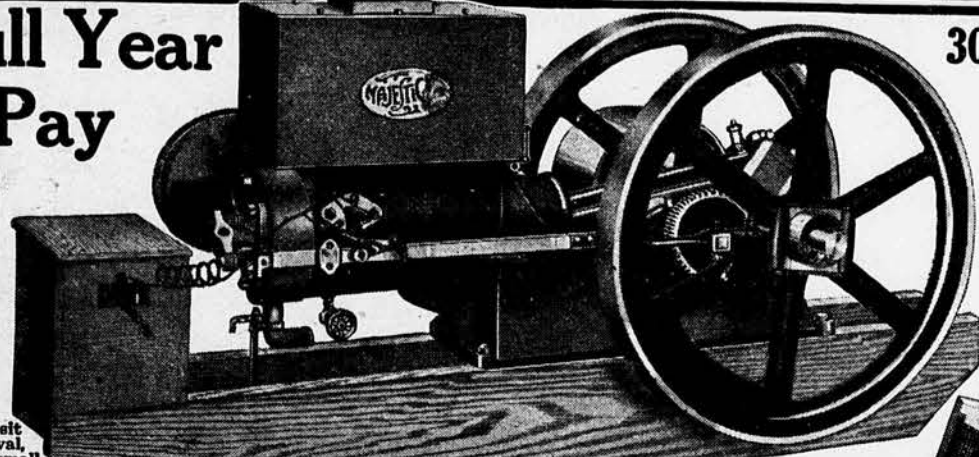
"I have been particularly attracted to a number of standardized schools and to their environment. The legislature should not be in doubt as to the value of this system, not only from the standpoint of teaching efficiency, but because of improved hygienic conditions. Wherever a standardized school is established, a school measuring up to the required number of points in teachers, in equipment, in school grounds and sanitation, the entire district will be found interested in the work; and wherever the parents are active in such matters the children may be depended upon to strive for better results.

"With an intelligent regard for the refinements of life and the influence that education exerts on such refinements, we must not forget the fundamentals, the ground work, with which so many thousands of children will have to be content. These are the thousands who may never go to college or university. To this end the utmost wisdom will be demanded in considering the welfare of our rural and grade schools. I should neglect an important opportunity, I believe, if, before closing, I should fail to express the hope that some day every farm boy and girl in Kansas may attend a free high school in the country—not in town or city. I believe we are moving toward that goal."

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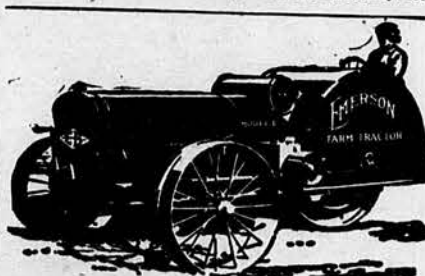


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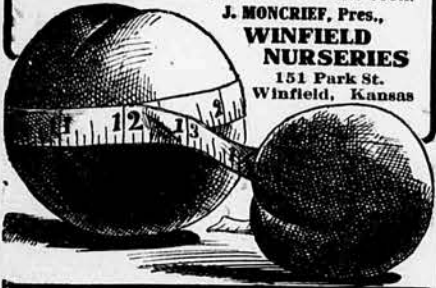
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What Should an Engine Weigh?

Abraham Lincoln was asked how long a man's legs should be and he replied, "They should be long enough to reach the ground—and no longer." An engine should weigh enough to do its work—and no more. Years ago it was necessary to cast engine parts very large and heavy, with heavy base and flywheel, or the violent explosions and fast and slow speeds of the old-style engine would tear it to pieces.

Eight years ago the Cushman Motor Works designed a new type of farm engine weighing about one-fifth as much per H. P. as other farm engines, but so well built, balanced and governed that it ran more steadily and quietly than a farm engine was ever known to run. Some people laughed, and said that a 4 H. P. engine weighing only 150 lbs. must be a toy, but when they saw the Cushman at work beside heavy engines weighing five or six times as much, they realized that weight does not mean power, and that the Cushman is a giant in power for its size.

Cushman Light Weight Engines

40 to 60 Pounds per Horse Power

4 H. P. Weighs Only 150 lbs. 15 H. P. Weighs Only 750 lbs.
8 H. P. Weighs Only 320 lbs. 20 H. P. Weighs Only 1200 lbs.

Cushman Engines have Throttle Governor and Schebler Carburetor, insuring regular speed even on jobs of irregular loads, like sawing.

Their perfect balance also helps to make them steady, insuring unusual durability and freedom from engine trouble.

The 4 H. P. and the 8 H. P. are mounted on trucks, if desired, and may be pulled around by hand. These are very useful engines, as besides doing all work heavy engines do, they may be attached to machines in the field, as 4 H. P. on grain and corn binders and 8 H. P. on hay balers. All over 4 H. P. are double cylinder, giving steadier power.

The Cushman is not a cheap engine, but it is cheap in the long run. Ask for free Light Weight Engine Book.

Cushman Motor Works
814 N. 21st St. Lincoln, Nebr.



Before Buying Any Engine

Ask These Questions

How much does it weigh? If it weighs more than 60 lbs. per H. P., why?

Is it throttle governed? A throttle governor insures steady, quiet economical power.

Give the Pigs a Chance

The thrift and vigor of early pigs depend on the quantity and quality of feed consumed by the brood sow and the sanitary conditions under which she is kept prior to farrowing and up to weaning time, according to Ray Gatewood, instructor in animal husbandry in the Kansas State Agricultural college.

"After farrowing the mother should not be disturbed for 24 hours except to give her an occasional drink of water. No dry feed need be given on this day. On the second day she should be given a very light feed. The amount gradually should be increased as the pigs grow. With a young sow the feed should be increased to get her on a regular ration in two weeks.

"The pigs should be housed in warm, dry, clean, and well ventilated quarters. There should be neither draft nor dust,

business and to perpetuate itself from generation to generation is the Rochdale plan. This plan is very simple. Any child can understand it. Simply stated, it provides first, every possible customer may become a shareholder. Second, each shareholder shall have one vote. Third, interest should be paid on money invested. Fourth, the remaining surplus shall be divided on the basis of patronage.

The co-operative system has many advantages. It is democratic to begin with. It is free from state aid or political control or interference. It allows the future action of the law of supply and demand. It standardizes farmers' products, it prevents waste, it avoids unnecessary handling, it increases production, it improves the grades of produce. It increases the net income to farmers and decreases the cost to the consumer. It allows the future work-



A "Standing" Order for Dinner. Good Care Before and After Farrowing Usually Means the Difference Between Profit and Loss.

and if possible no artificial heat although normal temperatures must prevail. As soon as possible the pigs should be made to suck. They should have an early drink of their mother's milk if they are weak or if the pen is cold. If, however, they are strong, lively, and comfortable they may wait for their first drink until all are born. The attendant must use his own judgment."

Co-operation and the Future

BY M. R. MYERS.

The future of all societies endeavoring to serve the producer, in my opinion, will depend upon the application of the co-operative principle.

The co-operative principle tends to make everybody a shareholder, to keep down the profits and to pay the highest market price for the produce. Expressed in ultimates, a corporation tends to monopoly and co-operation to democracy. A corporation enhances private profits to the highest degree, co-operation eliminates private profit and renders service at cost.

The principle that has gone the farthest and done the most good, and demonstrated beyond the question of a doubt its ability to compete with big

ing of the law of supply and demand. It encourages competition. It increases initiative and compels an agricultural leadership.

In Normal Health

Medical treatment or advice was given to 2,799 students of the Emporia Normal school at the Normal hospital during the year ended July 29, 1916. More than one-half of the 4,000 Normal students in Emporia during the 12 months ended July 29 called on Dr. White or the nurse at the hospital. During this period there were 1,074 personal calls; 1,006 cases of medical treatment; 505 of minor surgery; 202 infected cases; seven students took the typhoid bacteria treatment, there were four cases of major surgery, and one case of smallpox.

Game Warden: "Hey, kid, what have you been catching there? Trout, eh? Don't you know this ain't the season for trout?" Small Boy (fishing): "Sure; but when it is the season for trout, there ain't any around, and when it ain't the season there's always a lot of 'em. And if the fish ain't going to obey the rules durned if I am either."

—Melbourne Leader.

They Market Berries Direct



Co-operation is Growing in Kansas Because There is a Logical Basis for This Development. It Pays Financially.

Study Your Gas Engine

BY W. H. RUTHER.

Every purchaser of a gasoline engine must expect some trouble until he becomes familiar with it. The engine should always be kept clean and well oiled, which is a good move toward getting satisfactory service from it. Use the oil can more and the wrench less. Bolts when loose should be tightened, but unnecessary changes do more harm than good.

When the engine is new use plenty of oil and grease so the bearings will seat properly. Watch all bolts and bearings until the engine has run four or five days. Where cup grease is fed always keep the cups turned down moderately, and do not let the bearings run dry. Notice very closely the crank shaft end of the connecting rod bearing. Engines that use oil on the crank shaft bearing should be fed plenty when new, but gradually reduce the supply to 8 or 9 drops a minute, as the bearings wear smooth, then adjust your lubricators to this constant supply.

Sight feed oil cups do not work well when oil is cold, as the oil is thicker and will not flow through as fast. It is then necessary to open the adjustment. If you expect satisfactory service from your engine you would better warm the oil before a hard pull or long run so it will flow freely. However, for short runs at light work, such as pumping water, this is unnecessary.

When the battery is almost worn out it will not give good sparks because it is not strong enough to magnetize the core of the coil sufficiently to produce a strong enough current to fire the mixture in the cylinder. During a short rest the batteries will recuperate enough to fire the mixture in the cylinder, but their condition of strength is only temporary and when this is exhausted the engine will stop again. Under proper care batteries should last four to six months, but through carelessness they may be run down in a few hours. Batteries are often run down by forgetting to turn off the switch. This mistake is often made by the expert as well as the novice.

Be sure to use the best grade of gas engine oil in the lubricator, nothing darker than a pale or golden color. If a dark oil is used it will form on the inside of the cylinder and on the ignitor points, causing trouble. Never use steam engine oil.

To set spark or ignitor for a standard engine running at regular speed, the spark should be advanced 10 degrees before, or just before dead center. This may be found by turning the fly wheels over slowly by hand. With the make-and-break system stop at the click of ignitor; with the jump-spark system stop at buzz of coil. The momentum of fly wheel carries the crank shaft up to dead center in the small interval of time elapsing between the time of the spark and the expansion caused by the explosion, thus giving full power for the total length of the work stroke.

Good Health for Sheep

What can be fed to sheep to keep their blood in good condition and control the ticks?

The only way to keep sheep free from ticks is to dip them with a 2 per cent solution of a coal tar disinfectant. Of course, it is necessary that a vat be secured to run them thru. They should be kept in this solution from 1½ to 2 minutes. This work should be done in the spring when it is warm or in the fall before it becomes cold, as sheep are likely to catch cold and take pneumonia.

In regard to feeding sheep in order to keep their blood in good condition, I would suggest some good alfalfa and plenty of exercise, and a little bran or oil meal.—A. M. Paterson, Kansas State Agricultural College.

The late Gilman Marston, of New Hampshire, was arguing a complicated case, and looked up authorities back to Julius Caesar. At the end of an hour and a half, in the most intricate part of his plea, he was pained to see what looked like inattention. It was as he had feared. The judge was unable to appreciate the nice points of his argument.

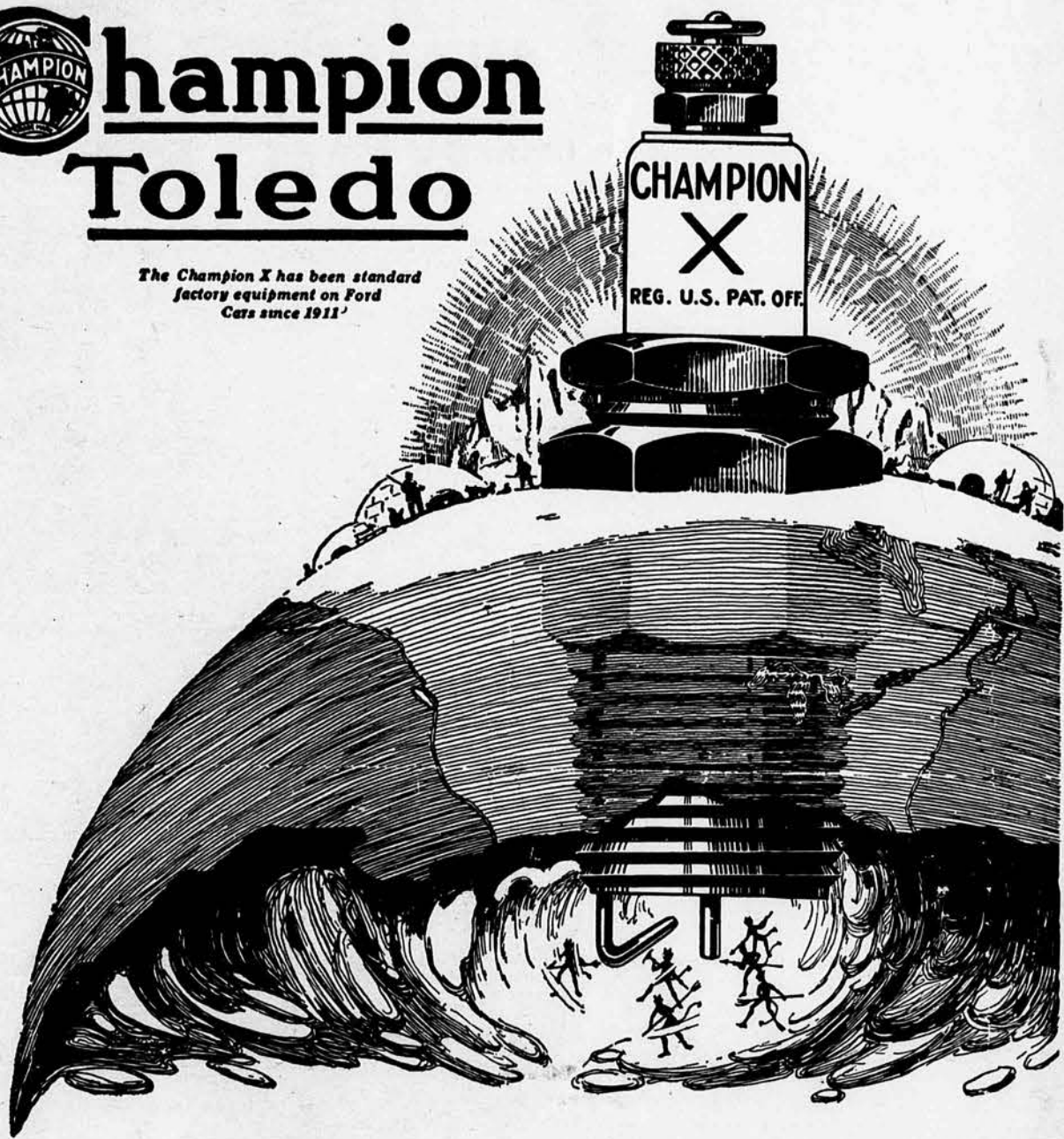
"Your Honor," he said, "I beg your pardon; but do you follow me?"

"I have so far," answered the judge, shifting wearily about in his chair, "but I'll say frankly that if I thought I could find my way back, I'd quit right here."

—Christian Register.

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PURE BRED ROSE COMB RED COCK-ERELS \$2.00 each. Ford Brown, Shields, Kan.
LARGE ROSE COMB RED COCKERELS, \$1.50 to \$3.00. Andrew Ketter, Kelly, Kansas.
SINGLE COMB RHODE ISLAND RED COCK-ERELS \$1 to \$5. E. D. Halbert, Abilene, Kan., Rt. No. 4.
LARGE DARK ROSECOMB REDS, COCK-ERELS, pullets, bargains, Sunnyside Farm, Havensville, Kansas.
S. C. RED COCKERELS \$2.50, \$3.00, \$5.00, \$7.50 and up. Sold on approval. Thos. D. Troughton, Wetmore, Kan.
SINGLE COMB RED COCKERELS AND pullets, good size and color. Reasonable. Helen Roberts, Holsington, Kan.
ROSE COMB RED COCKERELS BRED from my blue ribbon state show winners, \$2 to \$5. Morris Roberts, Holsington, Kan.
DARK ROSE COMB RHODE ISLAND RED COCK-ERELS from good laying strain, \$1.50 to \$3.50 each. E. G. Rowland, Peabody, Kan.
SPECIAL JANUARY SALE. 40 CHOICE females, 20 males from 240 egg pedigreed parents. Act quick. Special prices. A. M. Butler, Wichita, Kan.
GOOD BREEDING S. C. RED COCKERELS, sired by my first prize World's Fair cock-EREL. \$2.50 and \$5.00 each. Guaranteed to please. H. A. Meier, Abilene, Kan.
BANBURY'S R. C. REDS, WON 3 FIRSTS and 2 seconds. Stronger color and greater value. Utility pullets \$1.00 each. Good, \$2. Excellent \$3. Chks. \$2.50 to \$10 each. Ban- bury's Polled Shorthorn Farm, Pratt, Kan.
BRED TO LAY. S. C. REDS, CHOICE breeding cockerels; early, large, hen hatched, hardy, free range birds from heav- est winter layers, \$1.50 to \$3.50; satisfaction guaranteed. Belmont Farm, Topeka, Kan.
ROSE COMB RED COCKERELS OR PUL- lets \$2.50. Bred from prize winners big shows in Kan., Missouri and Okla. Blood red with beautiful lustre. Red eyes and red pigment on legs. Three firsts at State Fair this fall. R. W. Baldwin, Conway, Kan.
100 ROSE COMB RHODE ISLAND RED COCKS and cockerels sired by roosters cost- ing \$15 to \$35; \$2, \$3.50, \$5 and \$7.50 each. A few higher. Order at once, they will go fast. Our pens mated for 1917 are the best we ever had. W. R. Huston, Red Specialist, Americus, Kan.

TURKEYS.

BOURBON RED TURKEYS, TOMS \$4.00. Hens \$3.00. Mrs. F. N. Newell, Milan, Kan.
PURE BOURBON RED TURKEYS, TOMS \$4. \$4.50. Hens \$3.50. E. V. Eller, Dunlap, Kan.
MAMMOTH WHITE HOLLAND TURKEYS. Toms \$5. Mrs. Louie Landgraf, Garden City, Kan.
BOURBON RED TURKEYS FOR SALE. Toms five dollars, hens three. Mrs. H. Passmore, Wayne, Kan.
EXTRA LARGE PURE WHITE HOLLAND hens \$3.00, Toms \$5.00 and \$6.00. Mrs. Will Jones, Jetmore, Kan.
THOROUGHbred BRONZE TURKEYS, from state show winners, cheap until Jan- uary. E. Bidleman, Kinsley, Kan.
EXTRA LARGE BEAUTIFUL BOURBON Reds, well marked, bargains. Toms \$4. Hens \$3. M. Jackson, Brewster, Kan.
50 WHITE HOLLAND TURKEYS FOR sale. Toms \$5.00, Hens \$4.00. Frank C. Darst, Fredonia, Kan., R. No. 3, Box 15.
GIANT BRONZE TURKEYS—PRIZE HENS Tom, Madison Square Garden winner. Ring- let Barred Rocks. Ed Lockwood, Kinsley, Kan.
PURE BLOOD MAMMOTH BRONZE TUR-KEYS. Toms \$5. Old tom \$8. Eggs in sea- son. Mrs. T. H. Gaughan, Earleton, Kan., R. No. 2, No. 17.
MAMMOTH BRONZE TOMS, EXTRA GOOD stock. From prize winners. Very heavy boned, markings good. \$7 and \$8 each. Mattie Peasley, Soldier, Kan.
MAMMOTH BRONZE TURKEYS. I HAVE a few young toms for sale, weighing from twenty-five to thirty pounds. Satisfaction guaranteed. R. L. Parrott, Osborne, Kan.

POULTRY WANTED.

WE ALWAYS PAY HIGHEST MARKET price for poultry of all kinds. Coops loaned free. Address Edw. E. Witchey, Topeka.
POULTRY WANTED: TURKEYS 25c; Capons 20c; Ducks and Geese 12c; Guineaes each 40c, paying prices number one fowls. "The Copes," Topeka.

WYANDOTTES.

WHITE WYANDOTTE COCKERELS \$2. John Kletchka, Willis, Kan.
WHITE WYANDOTTES, COCKERELS \$1.50 each. G. F. Brown, Lawrence, Kan.
BUFF WYANDOTTE COCKERELS, SIX pounds, \$1.25. Minnie Holt, Wilmot, Kan.
SILVER WYANDOTTE COCKERELS FOR sale. Henry Brunner, Rt. No. 5, Newton, Kan.
BARRON WHITE WYANDOTTE COCK-ERELS, fine birds, \$3 up. Ernst Yokum, Colony, Kan.
FINE GOLDEN WYANDOTTES, COCK-ERELS for sale \$2.00 each. G. M. Effland, Victor, Kan.
PARTRIDGE WYANDOTTE COCKERELS \$5 each. Sold on approval. O. E. Collins, Drexel, Mo.
PURE BRED SILVER WYANDOTTE COCK-ERELS \$1.50 each. Mrs. Warden Hand, Ellis- worth, Kan.
WHITE WYANDOTTE COCKERELS AND hens \$1.50 to \$2.00. Mrs. Mollie Paramore, Delphos, Kan.
GOLDEN WYANDOTTE COCKERELS from prize winning stock. M. M. Donges, Belleville, Kan.
SILVER LACED WYANDOTTE COCK-ERELS \$1.50, hens \$1.25. Frank Kletchka, Horton, Kan., Route 2.
FOR SALE—PURE WHITE WYANDOTTES, cockerels \$1.50 to \$4.00. Satisfaction guar- anteed. Ira Ives, Liberal, Kan.
THOROUGHbred ROSE COMB WHITE Wyandotte cockerels, \$1.75 and \$2.00 each. Henry S. Voth, R. 2, Goessel, Kansas.
WHITE WYANDOTTE COCKERELS March and April hatched, Fischel strain, \$2 or 3 for \$5. Frank Mayer, Marysville, Kan.
SILVER LACED WYANDOTTE COCK-ERELS, pure bred, \$1 to \$3 each. Write for circular. Satisfaction guaranteed. S. B. Dressler, Lebo, Kan.
WHITE WYANDOTTES, HENS AND PUL- lets \$1 to \$2. Cocks and cockerels \$2 to \$5. Bred from special mated prize winners. Plocks White Wyandotte Farm, R. 3, Clay Center, Kan.

SEVERAL VARIETIES.

BRONZE TURKEYS, TOULOUSE GEESSE. Emma Ahlstedt, Roxbury, Kan.
FAWN WHITE RUNNERS \$1 EACH. \$10 dozen. Big Toulouse Geese \$5 trio. V. Young, Melvern, Kan.
THOROUGHbred STOCK, TOULOUSE geese \$2 each. Bourbon Red turkey toms \$7, hens \$5. Mrs. Kressley, Highland, Kan.
BARRED ROCK COCKERELS \$1 EACH, also White Leghorns, S. C. and Bourbon Red turkey toms \$4 each. M. Burton, Had- dam, Kan.
2,949 COCKERELS, HENS AND PULLETS, 49 varieties chickens, geese and ducks. Eggs in season. Seeds and trees. Aye Bros., Blair, Neb., Box 6. Free book.
BARRED ROCKS, SINGLE COMB WHITE Leghorns, Rhode Island Reds, 2 lbs each. \$6.00 dozen. Baby chicks: 50,000 for 1917. Booking orders. Alfred Young, Wakefield, Kan.
S. C. BUFF ORPINGTON COCKERELS, big boned weigh 7½ to 9 lbs. Farm raised, one to five dollars apiece. A few good Bour- bon Reds, young toms \$4 apiece. Fred Mowry, Ford, Kan.

LIVESTOCK.

TWO YEAR OLD BLACK JACK TO TRADE for Ford. Otis Boor, McCune, Kan.
REGISTERED CHESTER WHITE BOARS, Glits. Barred Rocks, cockerels, hens, pul- lets \$2.00. A. G. Hammond, Vinland, Kan.
ONE FIRST CLASS BLACK PERCHERON stallion, five years old, weighs 1900—11½ inch bone. D. L. Viles, Leecompton, Kan.
FOR SALE—TWO PERCHERON STAL- lions and Mammoth Jack. Further infor- mation write J. T. Johnson, Scandia, Kan.
PERCHERON TO CHANGE FOR PERCH- eron or Belgian; big black Jack for Draft stallion or car. Cleveland Bay for Ford. Wilson, Haddam, Kan.
REGISTERED JACK, 7 YEAR OLD, WGT. 1000 Black Percheron stallion, 9 yr. old, wght 1900. Both sound every way. Will sell or trade for horses or cattle. Tom Frye, Scranton, Kan.
FOR SALE—\$50.00. GOLDEN FAWN JER- sey bull calf 2 mo. old. Grandson of Eminent, the \$10,000 bull; dam will enter Register of Merit; granddam, "Yosonda" judged best cow that ever crossed ocean. Roy Corry, Enid, Okla.
FOR SALE—170 HEAD OF COMING three year old steers. Priced by the head and lbs. \$6.50 per hundred, \$57.50 per head. White Faces and Shorthorns. Extra good cattle. Must sell quick. Write or call. R. E. McFarlane, Hesston, Kan.
38 HEAD CHOICE GUERNSEY CATTLE, 4 registered cows, 4 registered heifer calves, two registered bulls, advance registry stock. Eighteen grade cows picked from big Wis- consin herds, seven yearling heifers and some heifer calves. Be sold at auction 3 miles east Ft. Scott on rock road, Wednes- day, January 10th. Subject to private sale of registered cows and calves. Ben Brown, Ft. Scott, Kan.

PET STOCK.

SALE BELGIAN HARES. PAIR \$3.00. E. Rathbun, Lucas, Kan.
ON TRAIL. COON, SKUNK AND VAR- mints Hounds. W. M. Reeve, Mayfield, Ark.

CREAM WANTED.

CREAM WANTED—THE INDEPENDENT Creamery Company of Council Grove, Kan- sas, buys direct from the farmer. Write for particulars.

FARM LOANS.

MONEY TO LOAN on improved farms or ranches. Stocks, and bonds bought and sold. Wiltse Agency, Lincoln, Neb.

FENCE POSTS.

FOR SALE: HEDGE AND WALNUT posts, carlots. H. W. Porth, Winfield, Kansas.

Additional Classified Ads

SEEDS AND NURSERIES.

CHOICE SHAWNEE WHITE SEED CORN.
J. A. Ostrand, Elmont, Kansas.

WHITE SWEET CLOVER SEED FOR
sale. Chas. Redding, Waverly, Kan.

GOOD BROWN MEXICAN SEED BEANS
\$.80 a hundred. J. E. Sesser, Boone, Colo.

STRAWBERRY PLANTS—\$2 PER 1000.
5000 \$9. List free. J. Sterling, Judsonia,
Ark.

FANCY WHITE UNHULLED SWEET CLO-
ver seed \$.50 per bu. 60 lbs. Send money
or letter from your banker. B. T. Newbold,
Farmington, N. Mex.

RECLEANED ALFALFA AND WHITE
and Red Kaffir raised on the Solomon
Valley. Samples and prices submitted on
application. Will not ship less than 60 lbs.
Reference First National Bank of Glasco,
Kansas. Lott & Stine, Glasco, Kan.

FANCY SWEET CLOVER, PURE WHITE,
hulled, recleaned, price ten dollars per
bushel. F. O. B. Florence, Kansas. Fancy
alfalfa eight dollars and forty cents per
bushel, will ship by freight or express; will
not ship less than sixty pounds. Reference
Florence State Bank. J. F. Sellers, Florence,
Kan.

FOR SALE.

SIXTY BARREL OKLAHOMA MILL FOR
sale or trade for good farm. E., care Mail
and Breeze.

FOR SALE AT A BIG BARGAIN. GEN-
eral store in small town a snap. Write
quick for particulars. Box 53, Garnett, Kan.

FOR SALE OR TRADE ON SMALL FARM,
modern seven roomed city residence. For
further particulars address F. M. Scott,
Chapman, Kan.

SALE OR TRADE, FOUR HOLE CORN-
sheller, triple power stump puller and my
farm 175 acres in Labette county. Cy Wells,
Pierceville, Kansas.

1916 OAKLAND EIGHT FOR SALE. COST
\$1,650. Perfect condition. Complete set new
tires. Has had good care since purchase. Cash
offer only considered. Address P. O. Box
398, Topeka, Kan.

FOR SALE—ONE 18 HORSE POWER GAS-
oline engine on steel truck. Good as new.
Also double seated, rubber tired carriage for
sale or trade. Make me an offer. H. W.
McAfee, Topeka, Kan., Rt. No. 8.

HERE IS YOUR CHANCE TO GET A FORD
touring car and make \$50.00 a week while
getting it. Costs nothing to try. Write to-
day giving three business references. Agency
Manager, 426 Capital Bldg., Topeka, Kansas.

FARMS WANTED.

WANTED TO HEAR FROM OWNER OF
good farm for sale. Send cash price and
description. D. F. Bush, Minneapolis, Minn.

EASTERN KANSAS FARM WANTED—
Give description, location and price. Ches-
ter A. Nofftz, 637 Reserve Bank, Kansas
City, Mo.

I HAVE SOME CASH BUYERS FOR SAL-
able farms. Will deal with owners only.
Give full description, location, and cash price.
James P. White, New Franklin, Mo.

LANDS.

152 A. HAMILTON CO., \$2,000. WILL
trade for tractor or threshing rig. Henry
Janney, Hallet, Kan.

FOR SALE—40 ACRE RANCH, STOCK
and equipment. For full information write,
W. H. Farrell, Jr., Benson, Ariz.

FOR SALE—WILL RENT GOOD 160 WITH
extra fine improvements, good location,
bargain, reason poor health. Box 53, Gar-
nett, Kan.

FOR SALE OR TRADE FOR STOCK. ONE
320 a. relinquishment in Cheyenne Co.,
Colo., 10 mi. from R. R. town. Partly im-
proved. Address Lock Box No. 29, Cheyenne
Wells, Colo.

SMALL MISSOURI FARM. \$10 CASH AND
\$5 monthly; no interest or taxes; highly
productive land; close to 3 big markets;
write for photographs and full information.
Munger, C-142 N. Y. Life Bldg., Kansas
City, Mo.

FOR SALE—5 1/4 A. OF LAND ALL IN
Alfalfa, adjoins town, also new cement
garage 32x80, mercantile building 28x60 with
dwelling attached. Price \$2650. Is one of the
best propositions in town. W. F. Caywood,
Alden, Kan.

YOUR CHANCE IS IN CANADA—RICH
lands and business opportunities offer you
independence. Farm lands, \$11 to \$30 acre;
irrigated lands, \$35 to \$50; Twenty years to
pay; \$2,000 loan in improvements, or ready
made farms. Loan of live stock; Taxes aver-
age under twenty cents an acre; no taxes on
improvements, personal property, or live
stock. Good markets, churches, schools,
roads, telephones; Excellent climate—crops
and live stock prove it. Special homeseekers'
fare certificates. Write for free booklets.
Allan Cameron, General Superintendent Land
Branch, Canadian Pacific Ry., 14 Ninth-av.,
Calgary, Alberta.

OPPORTUNITY KNOCKS FOR YOU.
Would you like to acquire a farm in a
country of fine climate, mild winters, good
schools and markets? Where all crops are
grown successfully? Ample rainfall—35
inches annually. Ideal stock country—ten
months grazing season. Below are some sam-
ple farms: 200 acres black prairie land, 1/4
in cultivation. Small house and barn. Fenced.
1 mile from town. \$30.00 an acre. 2670 acre
ranch. 8 miles to town of 3000. Fenced. 4
sets houses. 600 acres good tillable land.
Plenty water. Fine grazing proposition. Only
\$15.00 an acre. 80 acres—2 miles to town of
5000. On main road. Well improved. 4 room
house, phone, barn, silo, granary, windmill,
poultry house. Young orchard of peaches,
apples, grapes, berries. Garden and orchard
fenced chicken-tight. Soil dark sandy loam.
50 acres in cultivation. A rare bargain at
\$50.00 an acre. We have listed more than
1500 farms, all sizes and prices, located along
the Missouri, Kansas & Texas Railroad in
Eastern Oklahoma. The railroad does not
own these lands but is endeavoring to in-
terest good farmers in buying in this section
in order to build its business more substan-
tially. Dependable free information about the
many farm bargains in this new and
rapidly developing country can be obtained
by writing Colonization Dept., M. K. & T.
Ry., Room 1504 Railway Exchange Bldg.,
St. Louis, Mo.

MALE HELP WANTED.

MOLER BARBER COLLEGE. OLDEST
and cheapest. Men wanted. Write for free
catalogue. 514 Main St., Kansas City, Mo.

SALESMEN WANTED FOR FRUIT AND
ornamental trees. Experience unnecessary.
Outfit free. Pay weekly. Carman Nursery
Co., Lawrence, Kan., Dept. A.

NO STRIKE: 8 HOUR DAY. MEN EVERY-
where. Firemen, brakemen, baggagemen.
\$120. Colored porters. Experience unneces-
sary. 796 Railway Bureau, E. St. Louis, Ill.

WANTED 500 SALESMEN TO SELL MAGIC
Motor Gas. One quart price \$2.00 equals
50 gallons gasoline. Not a substitute. Great-
est product ever discovered. Large profits.
Auto Remedy Co., 203 Chestnut, St. Louis, Mo.

WANTED—IMMEDIATELY, 500 MEN, 20-
40, for railway motormen and conductors.
All parts United States. \$60-\$100 monthly.
Experience unnecessary. Send stamp for ap-
plication blank. National Railway, Dept. 160,
Kansas City, Mo.

WANTED—MEN, 18 OR OVER, RAILWAY
Mail Clerks. \$75 to \$150 month. Vacations.
Education unnecessary. Big chance for farm-
ers. List Government positions open—free.
Write immediately. Franklin Institute, Dept.
T 51, Rochester, N. Y.

FARM HAND WITH FAMILY WANTED.
Will pay \$40.00 per month year round.
Three room house. Pasture for 2 cows, acre
garden, timber for fuel, 1/4 mile to school, 5
miles to town, on F. D. and Phone line.
Send reference. E. H. Erickson, Olsburg,
Kan.

FEMALE HELP WANTED.

WANTED—LADY TO HELP IN MODERN
home, small family, good home, write age,
experience. Mrs. Roy Wilson, Almena, Kan.

AGENTS WANTED.

WE PAY \$80 MONTHLY SALARY AND
furnish rig and expenses to introduce guar-
anteed poultry and stock powders. Bigler
Company, X 608, Springfield, Ill.

WOULD \$150 MONTHLY AS GENERAL
Agent for \$150,000 corporation and a Ford
auto of your own, introducing Stock and
Poultry remedies, Dips, Disinfectants, inter-
est you? Then address Royoleum Co-Op-
erative Mfg. Co., Dept. M 16, Monticello, Ind.

SITUATION WANTED.

WANTED—EMPLOYMENT BY EXPERI-
enced farmer, wife and two sons, by year.
Stock or grain. Best references. Address R.,
care Mail and Breeze.

WANTED—A POSITION AS FARM FORE-
man. Can handle all kinds of farm ma-
chinery and farm or blooded stock. Write
me now. I. R. Moore, 1847 No. Mkt. St.,
Wichita, Kan.

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SEND FOR FREE BOOKLET, "ALL ABOUT
Patents and Their Cost." Shepherd &
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turned. We help sell patents. Patents
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ity should write for new "List of Needed
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IDEAS WANTED—MANUFACTURERS ARE
writing for patents procured through me.
Three books with list hundreds of inventions
wanted sent free. I help you market your
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tain a Patent. List of Patent Buyers and
Inventions Wanted. \$1,000,000 in prizes of-
fered for inventions. Send Sketch for free
opinion as to patentability. Our Four Books
sent free. Patents advertised free. We as-
sist inventors to sell their inventions. Victor
J. Evans Co., Patent Attys., 825 Ninth,
Washington, D. C.

LIVESTOCK FIRMS.

SHIP YOUR LIVE STOCK TO US—COM-
petent men in all departments. Twenty
years on this market. Write us about your
stock. Stockers and feeders bought on or-
ders. Market information free. Ryan Rob-
inson Com. Co., 425 Live Stock Exchange,
Kansas City Stock Yards.

MISCELLANEOUS.

CONTAGIOUS ABORTION PREVENTED
by R. Harold, Manhattan, Kan.

THE AUTOMOBILE GATE—AUTO PASSES
thru but stock can not. Directions for
making \$1. Garret Stegink, Downs, Kan.

WANTED—TO LEASE FARM 80 ACRES OR
more, North Central Kan. preferred. Best
bank reference given. K., care Mail and
Breeze.

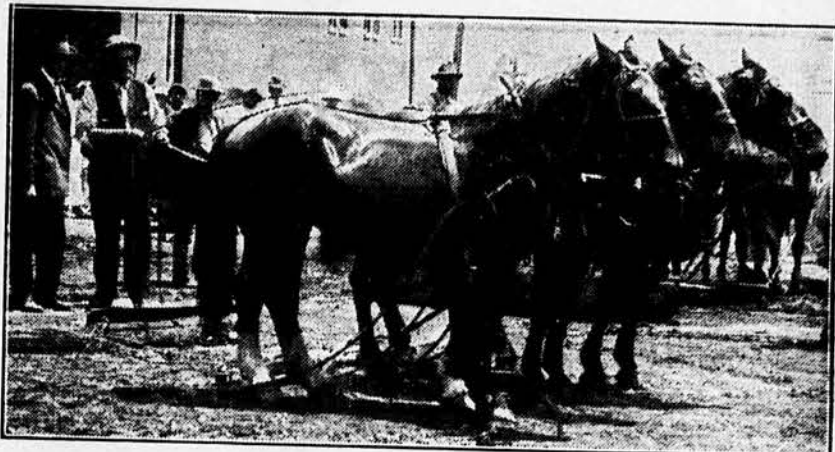
HEAVES CURED OR MONEY BACK.
Baird's Heave Remedy is guaranteed.
Write Baird Mfg. Co., Box 201, Purcell,
Okla., for particulars.

BOYS, GIRLS, SEND US THIRTY OR MORE
names of farmers who will need seed corn
this spring and we will send you a nice pre-
mium absolutely free. Seed Corn Armstrong's,
Shenandoah, Iowa.

NEW 40-LB. FEATHER BEDS, \$8.25; 6-LB.
pillows to match, \$1.15 per pair; new, live,
clean feathers; best ticking; sold on money-
back guarantee; write for free catalogue;
agents wanted. American Feather & Pillow
Co., Desk 228, Nashville, Tenn.

RED HORN NEEDLES PRESERVE REC-
ords and insure the best reproduction,
eliminating harsh metallic surface noise;
single needle plays hundreds of records;
four needles with sharpener, by mail, 25c.
Red Horn Needle Co., 403 Commerce Build-
ing, Kansas City, Mo.

BIG WESTERN WEEKLY SIX MONTHS
35 cents. Biggest and best general home
and news weekly published in the West.
Review of the week's current events by Tom
McNeal. Interesting and instructive depart-
ments for young and old. Special offer, six
months' trial subscription—twenty-six big
issues—25 cents. Address Capper's Weekly,
Dept. W. A.-12, Topeka, Kan.



D. Ward King, the Great Good Roads Advocate, Who Invented the Split
Log Drag, at Work on the Roads in His Home Community.

Get the Good Roads

It is necessary to use a drag to a con-
siderable extent in the spring to main-
tain roads in the proper condition. If
this work is done at the right time it
will not require an excessive amount of
effort to the mile to maintain the road
bed properly. This work under Kansas
conditions pays very well.

To Get Better Calves

A few simple rules observed before
and after birth will eliminate danger
either to the cow or her offspring, ac-
cording to Dr. F. S. Schoenleber, profes-
sor of veterinary medicine in the Kan-
sas State Agricultural college.

"The feeding of some concentrates—
cottonseed meal, linseed meal or bran—
a few weeks before the cow is due to
freshen is helpful both to the mother
and her offspring. Dry feeding probably
has clogged the eliminative organs—the
bowels, the skin, and the kidneys. To
a great extent these concentrated feeds
will correct this condition. Cottonseed
meal should not be given to cows that
are exceptionally heavy milkers because
it increases the flow of milk and might
cause milk fever. It is a good plan to
give to heavy milkers a medium to small
dose of epsom salts—8 to 12 ounces dis-

Tornado association which insures only
its own members: We shall soon reach,
if not already, 27 million dollars of in-
surance that the Grange carries for its
members at a saving of less than one-
half the cost of the old line companies.
The patrons of Kansas have been very
successful in buying feed, flour, coal,
binding twine and vegetables in car
lots, which has been very satisfactory to
our patrons, and ere long we hope to
buy and sell direct, as we believe under
the present condition of things that
time is coming."

The state business agent of Kansas
says:

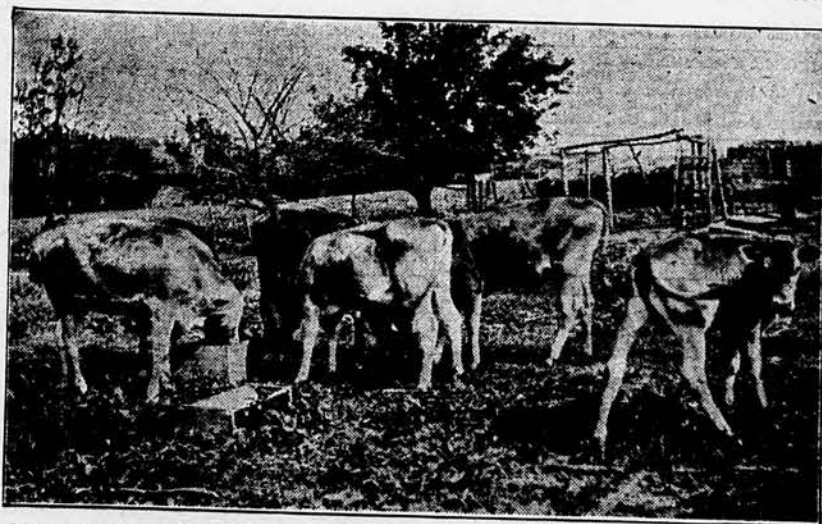
"In the last two years, 1 million dol-
lars of business has been done thru my
office at an average saving of 20 per
cent under the retail price."

It seems to me that if Mr. Cooper
will get in touch with the proper offi-
cers of his Grange, his dues of \$1.20 a
year will seem an insignificant amount,
compared with the benefits he will re-
ceive.

Yukon, Okla.

Three New Livestock Shows

The first of a three weeks' show cir-
cuit will be held at Wichita, February
26 to March 3, when the Kansas Na-
tional Live Stock association meets.
This organization was formed recent-



Care at Birth Gives Calves a Good Start and Makes it Possible to Develop
Animals That are Much Superior to the Average.

solved in water—two to three days apart
just before the cow is expected to
freshen. This will help to keep down
the congestion."

As to Grange Insurance

Referring to the communication of J.
C. Cooper of Niotaze, Kan., in the Farm-
ers Mail and Breeze, relative to the
operation of the Grange in Kansas. Al-
low me to quote from the report of A.
P. Reardon, state master of the Kansas
Grange, to the National Grange, No-
vember, 1916:

"In our Grange, Fire, Lightning and

LUMBER.

LUMBER DIRECT FROM MILL TO THE
consumer. Send us your itemized bills for
estimate. Mixed cars our specialty. McKee
Lumber Co. of Kansas, Emporia, Kan.

LUMBER AND SHINGLES AT WHOLE-
sale prices. Farmers' trade our specialty.
Send us your bills for free estimate. Robert
Emerson Co., Tacoma, Wash., Box 1156-F.

"TACOMA FULL-SIZE DIMENSION LUM-
ber." Guaranteed full two inches thick.
Made from best Douglas fir logs, much
stronger than standard dimension—"Dakota
Clear" shingles, butts half-inch thick. Get
our prices. Pay after inspection. Dept. D-D,
Local Lumber Company, Tacoma, Wash.

Average crop yields must be raised in
Kansas if farming is to make the right
progress. They are below the cost of
production on some places.

BIG BARGAINS IN REAL ESTATE

Dealers whose advertisements appear in this paper are thoroughly reliable and the many bargains are worthy of your consideration

Special Notice

All advertising copy discontinued or change of copy intended for the Real Estate Department must reach this office by 10 o'clock Saturday morning, one week in advance of publication to be effective in that issue. All forms in this department of the paper close at that time and it is impossible to make any changes in the pages after they are electrotyped.

\$15 TO \$30 BUYS BEST wheat land in Gove Co. P. J. Hingley, Grainfield, Kan.

3 SNAPS. Imp. 120 a. at \$40; 160 at \$55; 57 at \$90. Decker & Booth, Valley Falls, Kan.

160 A. IMPROVED, half cultivated, mile to town, \$5,000. Fred A. Reed, Salina, Kan.

RELINQUISHMENT. 320 acres of level wheat land, must sell. Box 364, Syracuse, Kan.

PROSPEROUS Meade County, Land, \$12 and up. No trades. J. A. Denslow, Meade, Kan.

160 A. Imp., 40 a. wheat, 15 a. alf., bal. meadow and pasture. Renstrom, Osage City, Kan.

NORTHEAST KANSAS bargains in bluegrass, timothy, clover and alfalfa farms. Exchanges. Compton & Keen, Valley Falls, Kan.

160 A. GOVE CO., KAN. Fine land, good for home or speculation. Must sell. \$11 an a. Terms. E. M. Sims, Owner, Hill City, Kan.

WANTED: Parties owning Western Kansas land to write me your price and state if you will trade. R. A. Ward, Alden, Kan.

PERFECT SEC. 2 mi. Satanta, in native grass. Price \$20.00 per a. Terms on part. A bargain. The Beard-Hall Land Co., Dodge City, Kansas.

100 A., 1 1/2 mi. Lebo, Kan., 80 cult., 20 bluegrass pasture. \$75 a. Mfg. \$2500, 6 1/2%. Trade for mdse. Hedrick & Beschka, Hartford, Kan.

WHEAT selling \$1.50 a bu. Have 480 acres, all best of land, mile and half out, 300 in wheat, 1/2 with sale, small imp., good water, only \$25.00 an acre. \$5,000.00 cash handles it. Other bargains in wheat land. Highly improved 80 acres, Riley Co., Kansas, snap price. R. C. Buxton, Utica, Kansas.

FOR SALE. 183 acres located 1 1/2 miles from Oskaloosa, Kan. Well improved and all tillable. Price \$105 per acre. For better description and terms, write L. C. Arnold & Company, St. Joseph, Mo.

ONE OF THE BEST all purpose 1/2 sections in Graham County. For particulars write J. E. Thompson, Owner, Morland, Kan.

40 SECTIONS of ranch land in S. E. Okla. Good grass and worlds of water, sell all or part. Price \$3.50 per acre. Guss Schimpff, Burns, Kansas.

3 QUARTER SECTIONS, 3 MI. BROWNELL. 100 a. in cult., 10 a. growing alfalfa; all fenced, no improvements. Price \$30 a. 10 years' time. Can be sold separately. Western Real Estate Co., Ellis, Kansas.

BARGAIN; RANCH AND 360 ACRE FARM. 360 acres, 160 a. fine creek bottom, alfalfa land. 20 a. meadow. 180 a. pasture. \$5,000 worth of improvements; 3 mi. from town. Only \$43 per a. 72 1/2 acres, limestone pasture, fine grass, plenty water; a snap at \$20 per a. Come and see these tracts. M. T. Spong, Fredonia, Kan.

FERTILE KANSAS LAND CHEAP

Those who located in Central Kansas 20 years ago are the big farmers today. Their land has made them independent.

Your chance now is in the five Southwestern Kansas counties adjacent to the Santa Fe's new line, where good land is still cheap.

With railroad facilities this country is developing fast. Farmers are making good profits on small investments. It is the place today for the man of moderate means.

Wheat, oats, barley, speltz, kafir and broom corn, milo and feterita grow abundantly in the Southwest counties referred to. Chickens, hogs, dairy cows and beef cattle increase your profits.

You can get 160 acres for \$200 to \$300 down, and no further payment on principal for two years, then balance one-eighth of purchase price annually, interest only 6 per cent—price \$10 to \$15 an acre. Write for our book of letters from farmers who are making good there now, also illustrated folder with particulars of our easy-purchase contract. Address

E. T. Cartledge,
Santa Fe Land Improvement Co.,
1891 Santa Fe Bldg., Topeka, Kan.

153 ACRES 1 1/2 miles town, Franklin County, 80 acres growing wheat, all smooth. Fine home proposition on Santa Fe trail. Price \$70. Terms. Guy Mansfield, Ottawa, Kansas.

WE OWN 100 FARMS in fertile Pawnee Valley; all smooth alfalfa and wheat land; some good improvements; shallow water. Will sell 80 acres or more. E. E. Frizell & Sons, Larned, Kansas.

160 ACRES 6 miles of Ottawa, 1 mile of station. 155 acres tillable; 75 acres in blue grass pasture and timothy and clover hay meadow; fair 6 room house; good barn; fine location; 25 acres growing wheat. Price \$70.00 per acre, \$2,000.00 cash, remainder long time 6%.

FOR SALE: 160 acres, Sheridan Co., 3 1/2 mi. town; 125 under cult. \$22 per acre. 640 acres Trego County. 13 miles from Wakeeney; 200 in wheat, 1/2 goes with the place. Price \$20 per acre.

7400 a. Wallace Co.; well improved. 90% tillable; 800 cult. On main line of U. P. \$74,000, 1/4 cash, bal. good terms.

601 Rorabaugh Bldg., Hutchinson, Kan.

320 ACRE IMPROVED FARM. All smooth, good soil; 8 room house, barn, granary, cattle shed. Good well, windmill. 160 acres in cult. Shively-Ball Realty Co., Hutchinson, Kan.

ONE OF THE BEST STOCK FARMS in Anderson Co., Kansas. Section of land near Colony; 100 acres cult.; bal. blue grass and native grass; good improvements. Extra well watered, valley land. Can be bought cheap. Address J. F. Ressel, Colony, Kan.

LAND FOR SALE. 800 acres, fenced, 11 mi. of Coldwater. 5 room house, running water. 200 a. plowed, 100 a. bottom hay; bal. grass, \$22.50 acre; \$6,000 cash, balance easy terms 6%.

Bargains in Western Kansas Land. 640 acres perfectly smooth, 10 1/2 miles southwest Leoti, \$5,500. \$3,200 cash. Bal 3 to 5 years 7%. 160 acres perfectly smooth, 10 1/2 miles southwest Leoti, \$1,250, terms. 480 acres nice level land 4 miles northeast Leoti, \$11.00 per acre. Terms. 320 acres southwest Leoti, 18 miles, \$2,250. Terms. 160 acres 2 1/2 miles from Leoti perfectly smooth. \$1,600. Terms. 3 separate quarters perfectly smooth. From 12 to 18 miles from Leoti at \$1,000 per quarter. Terms. F. G. Jones, Leoti, Kan.

SOME BARGAIN—KANSAS FARM. 320 acres Anderson Co., Kan., near Ottawa. Joins shipping station—80 blue stem pasture, 180 timothy and clover, 40 corn, running water, fence good—cozy 6 r. house, cement sidewalks, hay barn for 60 ton—horse barn, new cow barn 28x56 cement floors—on Santa Fe Trail Auto road—underlaid with vein commercial coal—well watered; Possession—Inspected and guaranteed. Price with coal right \$65 per acre—without \$55—only \$5,000 cash; bal. to suit. See it now. A sure bargain—Township map Kansas 15c postpaid—Let's get acquainted. Lott, "The Land Man," 1015 Baltimore, Kansas City, Mo.

LANE COUNTY SNAP North 1/2 Sec. 7, Range 18, Twp. 30, smooth. School 1 mi. Market 3 miles. Water 85 feet. 215 a. sod wheat, 1/2 goes. Price \$5,700. Terms. No trade. Owner, P. O. Box 83, Scott City, Kansas.

For Sale—Quarter Section Well improved and watered farm, 5 miles southeast of Topeka on main traveled road. Owner non-resident. Price \$16,000; half cash. P. O. Box 438, Des Moines, Iowa.

ROOKS CO. FARM 200 acres, 4 1/2 miles from Stockton, with a good 5 roomed house, good barn, room for 10 head of horses and 800 bushel bin, with hay mow, granary room for 1800 bushels, cow stable and sheds. 100 acres in cult. 100 rough pasture, 2 wells and 2 wind mills, three-fourths of a mile to school. Price \$40 per acre. A. L. Graham, Real Estate, Stockton, Kansas.

FOR EXCHANGE: 3 flats, rental \$7,000. Leslie Land Co., 315 Ridge Bldg., K. C., Mo.

1000 ACRES exchange for anything. 10 a. up. Timber, water and grass. S. A. Robinson, Southwest City, Mo.

THREE RANCHES in Elk Co. to exchange for wheat land, city property or small farm. F. J. Brown, Howard, Kansas.

IF YOU HAVE PROPERTY for sale or exchange write us. Real Estate Salesman Company, Department 4, Lincoln, Nebraska.

FARMS OF ALL SIZES in the Ozarks of Benton Co., Ark., for sale or exchange. What have you? Gentry Realty Co., Gentry, Ark.

TRADES EVERYWHERE. Exchange book free. Bersie Agency, El Dorado, Kan.

240 A. KAW VALLEY LAND, IMPROVED. J. M. Conlan, St. Marys, Kansas.

TRADES EVERYWHERE. Large list free. Reeve & Staats, Emporia, Kansas.

OZARKS OF MO., farms and timber land, sale or ex. Avery & Stephens, Mansfield, Mo.

FOR EXCHANGE: 3 flats, rental \$7,000. Leslie Land Co., 315 Ridge Bldg., K. C., Mo.

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FARMS OF ALL SIZES in the Ozarks of Benton Co., Ark., for sale or exchange. What have you? Gentry Realty Co., Gentry, Ark.

WANT GOOD LAND CHEAP?

We have it in Seward County. Ask for list or come and see Griffith & Baughman, Liberal, Kan.

NESS COUNTY

Good wheat and alfalfa lands at from \$15 to \$30 per acre. Also some fine stock ranches. Write for price list, county map and literature. Floyd & Floyd, Ness City, Kan.

GOVE COUNTY

this year has produced two million bushels of wheat from one hundred thousand acres. If you want good, rich wheat land at fair prices—\$15 to \$30 per acre—address J. E. Smith, Grainfield, Kan.

80 ACRES ONLY \$500

Near Wellington; good loam soil; 60 a. cult.; 20 past; 4-room house, barn, etc., Poss.; only \$500 cash, bal. \$260 yearly. R. M. Mills, Schweitzer Bldg., Wichita, Kan.

TO CLOSE ESTATE

100 ACRES rich Kaw Valley farm, no waste; one-half mile to station, 2 miles to good town and high school, fine improvements. Write or telephone. B. L. Fowler, Executor, Perry, Kan.

Southeastern Kansas Bargains

5 good farms, very well improved; at a very low price for sale on payment of from \$5 to \$10 an acre down; balance 5 to 15 years at reasonable rates of interest. These farms close to Kansas City, good towns and good markets. Renter's opportunity. Write for full descriptions. Address, THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

CHASE CO. STOCK RANCHES

640 a. improved, 2 1/2 miles railroad, 100 a. cult. 50 a. alfalfa. \$40 per a. Send for list. Stock ranches in best county in Kansas. Also alfalfa farms. J. E. Bocook, Cottonwood Falls, Kansas.

ALFALFA RANCH

Shallow flowing Artesian water. 2240 acres, 1500 acres shallow water. One-half in alfalfa, producing as much as any land in Kansas, balance wheat land. Three sets good improvements, two concrete silos, 1000 tons. Will divide and make terms. 3 1/2 miles to good town. We have other big bargains. Parish Investment Company, Kansas City, Missouri.

640 ACRES

A square section just 5 1/2 mi. N. W. of Leoti, the County seat Wichita Co., Kan. On main line Mo. Pac. R. R. The west 1/2 is a little rolling, east 1/2 as level as a floor. Every foot the best of soil. All fenced. 3 room house; barn, granary, chicken house, etc. Good well and windmill; water tank. By buying this section you can lease 2 quarters adjoining on the north which is also fenced and now leased by the owner. For the use of this extra 1/2 section you will have to pay from \$8 to \$10 per year per quarter. Beaver creek runs through one of the leased quarters so you have living water the year round. Section can be bought for \$10 per a. \$4,500 cash, bal 3 years 7%. On R.F.D. If you want a snap, come and look at this. F. G. Jones, Agent, Leoti, Kan.

TEXAS

ALFALFA, hogs, corn, dairying, on irrigated farms. Northwest Texas. No floods, no droughts. Good climate, good schools, good roads, good water, good soil, good markets, good neighbors. Easy terms. Write to me about this land. Stevens A. Coldren, 601-4 Gloyd Bldg., Kansas City, Missouri.

FOR SALE OR EXCHANGE

TRADES EVERYWHERE. Exchange book free. Bersie Agency, El Dorado, Kan.

240 A. KAW VALLEY LAND, IMPROVED. J. M. Conlan, St. Marys, Kansas.

TRADES EVERYWHERE. Large list free. Reeve & Staats, Emporia, Kansas.

OZARKS OF MO., farms and timber land, sale or ex. Avery & Stephens, Mansfield, Mo.

FOR EXCHANGE: 3 flats, rental \$7,000. Leslie Land Co., 315 Ridge Bldg., K. C., Mo.

1000 ACRES exchange for anything. 10 a. up. Timber, water and grass. S. A. Robinson, Southwest City, Mo.

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1000 ACRES exchange for anything. 10 a. up. Timber, water and grass. S. A. Robinson, Southwest City, Mo.

WHATEVER you may have for exchange write me. Eugene Oaks, West Plains, Mo.

300 ACRE ranch, blue grass, \$50 per a. Equity \$9,000. Want garage, good town; some cash. John W. Goff, Willow Springs, Mo.

WE HAVE a nice 5 room house, clear, always rents for \$15 a month. Also 4 well located vacant lots in Lamar, Colo. clear. Price for all \$3500. Want cheap Western Kansas land. First National Bank, Spearville, Kan.

FOR SALE AND EXCHANGE. Northwest Missouri, Iowa and Nebraska choice farms; the greatest grain belt in the United States. Get my bargains. M. E. Noble & Co., St. Joseph, Mo.

2000 ACRES in Jackson Co., Texas. 30 mi. from the gulf; 82 feet above sea level. 550 cattle on ranch. Will carry 1,000 cattle the year round. Land will produce a bale of cotton to the acre. Will sell land and cattle together or separate; or, will exchange for small farm or income. Small cash payment will handle. Theo. Voeste, Olpe, Kansas.

TRADES Farms, property, stocks. Write Ochiltree, St. Joseph, Mo.

ARKANSAS

93 A. IMP., 70 cult.; bottom land. \$5,000. T. F. Chrane, Gravette, Ark.

40 ACRES, improved. 38 cult. \$2000. 1/2 cash. Terms. Fair, Centerton, Ark.

FOR ARKANSAS farms and ranches, write for lists. R. D. McMullen, Ola, Ark.

40 ACRES, IMP., 25 A. CULT. \$1,400.00. Moss & Hurlock, Siloam Springs, Ark.

100 A. 2 mi. county seat, 65 in cult. Improved. B. H. Atkinson, Berryville, Ark.

FREE LITERATURE and list of Arkansas farms. P. H. Thompson, Fort Smith, Ark.

70 A., 50 CULT., fair improvements, 6 mi. R. R. town. Loving, Heber Springs, Ark.

100 ACRES 6 mi. from R.R. 60 a. in cultivation; fine improvements; good team; \$1750. Terms. Wallace Realty Co., Leslie, Ark.

500 ACRE plantation. 350 cultivated; make five good homes. Fine soil, water, timber, location. \$30 acre. Guthrie, Ozark, Ark.

226 ACRES, upland stock ranch. Imp. 90 in cult., balance timber, 9 miles Charleston, \$3000; terms half. Goodbar, Charleston, Ark.

FINE FARM LANDS. River bottom, cut over and grazing lands. At lower prices than you can buy in any other state. T. I. Greenstreet, Ft. Smith, Ark.

267 A. WELL IMP., 190 cult., bal. timber and pasture. Springs and well. 2 miles town; 1/2 mi. school and church. \$50 a. Terms. J. M. Doyel, Mountainburg, Ark.

200 A. grain, hay and grass land. 120 a. bottom. 125 a. cult. All tillable. 150 a. fenced. 2 sets imp. Near church, school and R.F.D. Rents pay 15% on investment. \$3,500, terms. Bahner & Co., Conway, Ark.

FOR SALE, 15,000 ACRES good unimproved agricultural lands. No hills, swamps nor overflows, close to good market town of 25,000; healthy, good schools; land can be put in cultivation cheap. The rent you are paying will pay for a farm. \$15 per acre, \$3 per acre down, bal. 10 years 6%.

200 ACRES, 100 cultivated, one mile town. Three houses, well watered. \$4500. Terms. W. W. Adams, Ozark, Ark.

COME TO CLEBURNE county, Arkansas. Land \$5 up; easy terms. Send for list. Claude Jones, Heber Springs, Ark.

160 ACRES, good improvements. 135 cult., bal. timber. \$40 an a. Well watered. J. F. Stevenson, Dardanelle, Ark.

IF YOU WANT good farm, stock and fruit lands, write us for list. Robertson & Son, Magazine, Arkansas.

80 ACRES, 30 in cult.; small house. Bal. timber. 5 mi. Marshall on turnpike road. Terms. \$10 a. Lock Box 21, Marshall, Ark.

132 ACRES, improved. 100 cult., bal. timber and pasture. \$3,000. Good terms. Yell Co. Land Co., Danville, Ark.

160 ACRES, small house, orchard, barn; fine springs. 80 a. splendid land when cleared, bal. rough. Good neighborhood. \$800 cash. R. W. Holland, Russellville, Ark.

42 ACRES, 4 mi. from County Seat; 20 acres in cultivation; 2 wells; 4 room house; nice orchard; a dandy little home for \$1000. Good terms on half. R. G. Oliver, Waldron, Arkansas.

110 ACRE FARM, 65 acres bottom land in cultivation. 35 acres more tillable land produced this year \$75 per acre. Two 3 room houses, good water. Price \$2,000. J. C. Hart, Owner, Waldron, Ark.

397 A. BOTTOM and upland; 200 a. cult. On public highway. R. R. and phone. School and church close. Running water. 2 houses. 7 miles good town, 3 1/2 mi. R. R. switch. Bargain at \$20 per acre. 1/4 cash. Southern Trust Company, Little Rock, Ark.

760 ACRES, virgin timber.....\$11,400
395 a., 3 sets improvements.....\$4,000
180 a., 1/2 highly improved.....\$4,000
160 a., 1/2 highly improved.....\$3,500
80 a., 1/2 highly improved.....\$1,500
80 a., 1/2 highly improved.....\$250
Heber Springs Development Co.,
Box 176, Heber Springs, Ark.

FOR SALE. Improved and unimproved tracts of land in Jefferson County, Arkansas, and vicinity; 40 acres and upward, \$17.50 per acre. Terms. No trades. Other lands same character in vicinity selling at \$25 per acre and upward. Mills & Sons, Box 387, Pine Bluff, Ark.

THE LAND OF OPPORTUNITY. Perry County, Arkansas. Improved farms; rich level land, soil that will produce wonderful crops of corn, wheat, oats, clover and alfalfa at prices ranging from \$15 to \$35 an acre. Good terms. Come, join a community with a future. Free literature. Write today. Chaffin-Colvin Land Co., Perry, Ark.

100,000 ACRES FOR SALE. Farms and ranches, any size, cash or terms, low prices, profit doubling values, no rock or swamp, fastest selling land in south; sure crops; pastures 3 head to acre; bears inspection. Free map and price list. Tom Blodgett, Little Rock, Ark.

WISCONSIN

30,000 ACRES our own cut-over lands; good soil, plenty rain, prices right and easy terms to settlers. Write us. Brown Bros. Lbr. Co., Rhinelander, Wis.

OKLAHOMA

BARGAIN, 160 a., 7 miles out. \$10 an acre. The Monzingo Agency, Fairview, Okla.

EASTERN OKLAHOMA farms, ranches, oil lands. \$5 up. **Black Bros.**, Stillwell, Okla.

150 A. IMPROVED, 60 cult. Bal. open timber. \$20 an acre. Terms. Many good bargains. **W. J. Foreman**, Westville, Okla.

FOR SALE. Good farm and grazing lands in Northeastern Oklahoma. Write for price list and literature. **W. C. Wood**, Nowata, Oklahoma.

SEE THIS. 160 a. joining R. R. town; 70 plowed; frame house; spring creek. 140 a. tillable prairie. A snap at \$3200. List and map free. **Ferry DeFord**, Oakwood, Okla.

20 A. 1/4 MI. LIMITS, McALESTER. City 15,000. 2 1/2 mi. business center city. 15 a. cult. 11 a. being strictly 1st class dry bottom. Bal. slope. Good fence. Small house. \$45 per a. Terms. **Southern Realty Co.**, McAlester, Okla.

CHEAP QUARTER NEAR GERMAN SETTLEMENT. NEAR LIBERAL. Good quarter wheat land four miles east and three south of Lorena, Okla. 40 acres good wheat goes with the land. 120 acres in cultivation. Land is rolling but fine soil and good neighborhood. Price \$3200. Mortgage \$500 7% can stand. Balance must be cash. No trades. Lots of German neighbors. Close to school. **Land-Thayer Land Co.**, Liberal, Kansas.

MISSOURI

120 ACRES, 60 cult. Improved. Good water. \$2400. **W. W. Tracy**, Anderson, Mo.

HOMES in the Ozarks—an impr. 120, \$600. Write for list. **W. T. Elliott**, Houston, Mo.

IMP. farms worth the money, stock, fruit and grain. **McNabney & Sayre**, Southwest City, Mo.

STOP! LISTEN! 160 a. valley farm, \$3,000. 5 room plastered house; near town. Good terms. Free list. **McGrath**, Mtn. View, Mo.

GREAT BARGAINS.

\$5.00 down, \$5.00 monthly, buys 40 acres good fruit and poultry land; near town, some timber, price \$200. \$10 monthly buys 80 acres. **Box 808**, Excelsior Springs, Mo.

COLORADO

FOR IRRIGATED FARMS and dry lands write **King Realty Co.**, Greeley, Colo.

CHEAPEST choice half section **RELINQUISHMENTS** in Colorado, farm and ranch properties. Write for bargain list. **Terral Land Company**, Springfield, Colo.

NEBRASKA

FARMS AND RANCHES: 160 to 4,000 a.; pay like rent. Write for photos and description. **R. D. Drullner**, Benkelman, Neb.

1120 ACRES IMPROVED land Blaine Co., Neb. 500 acres hay and farm land. 100 acres in cult. Price \$12.50. Mtg. \$4000. Will take exchange for part. **B. C. Emptfield**, Broken Bow, Neb.

SOUTH DAKOTA

SOUTH DAKOTA PRODUCTION from natural resources is the largest in the world for population employed. Do you want to share in this? Get bulletins from Department of Immigration, Capital E 3, Pierre, S. D.

ALABAMA

THE GREATEST stock farm and hog raising proposition in the United States, 2500 acre farm at Montgomery, Alabama, alfalfa and corn land, well improved, railroad station, fronting 6 miles on hard road. \$25 an acre. Half cash, balance ten years, 6%. **F. M. Kohn & Son**, Montgomery, Ala.

NEW YORK

180 ACRES, 14 room house; 2 barns, 30x70 and 36x40. Hog house, 18x36. Hen house for 200 hens; two large orchards. 1 mile to town. 4 miles to county seat. Will if sold soon, put in reaper, binder, grain drill, wagons, harrows, sulky plow, cultivator, horse hoe, hay rake, other plows and tools, all for \$3000, only \$1,000 cash, balance easy terms. If you want it, don't wait. **Hall's Farm Agency**, New Paltz, N. Y.

FARM LOANS

FARM AND CITY MORTGAGES a specialty. Write us if you wish to borrow. **Perkins & Co.**, Lawrence, Kan.

ILLINOIS

FOR BARGAINS IN ILLINOIS FARMS, Address **S. H. Morton & Co.**, St. Louis, Mo.

MONTANA

320 A. Montana Homesteads. Circular free. Information Bureau, Box 112, Boulder, Mont.

VIRGINIA

Virginia Farms and Homes. Free catalogue of splendid bargains. **R. B. Chaffin & Co., Inc.**, Richmond, Va.

Every Little Bit of Snow Helps

The wheat acreage in McPherson county is estimated at 160,000 acres. This is about 10,000 acres greater than last year. Many farmers put in wheat after the corn dried up and had been removed from the fields.

Labette County—We are having some real winter weather. Have had a little snow, enough to help wheat. Cattle looking well. Lots of roughness. **Wilbert Hart**, Dec. 30.

Decatur County—Snow has covered the ground the past three weeks. Stock doing well. A great deal of improvement going on. Wheat \$1.60; corn 92c.—**G. A. Jörn**, Dec. 30.

Rooks County—Have been having very cold weather. Many farmers are busy putting up their supply of ice. Feed is scarce, and much straw is being fed. Corn \$1; wheat \$1.50; oats 65c; eggs 30c; butterfat 34c.—**C. O. Thomas**, Dec. 30.

Washington County—Fine winter weather. Lots of sales being held, and everything sells well. Not much moisture yet. Hog cholera near Hanover killed a good many hogs. Eggs 29c and 30c; cream 34c; chickens 13 1/2c.—**Mrs. Birdsey**, Dec. 30.

Brown County—Fine weather for stock, clear but cold. Wheat does not look very well. A large amount of fall plowing has been done. Wheat \$1.70; corn 84c; eggs 35c; cream 37c; hogs \$9.50. No oats on market. **A. C. Dannenberg**, Dec. 28.

Kearny County—Very cold weather the last week, but no snow. Stock doing well, but feed is scarce and high in price. Hay is \$12 a ton, and everything else in proportion. Some alfalfa seed to thresh yet. Butterfat 34c; eggs 40c.—**A. M. Long**, Dec. 30.

Nemaha County—The zero weather and no snow is hard on the wheat. Livestock wintering well and free of disease. Fewer cattle and hogs on feed than usual. Plenty of roughness for feeding stock. Good interest in farmers' institutes.—**C. W. Ridgway**, Dec. 29.

Wichita County—Some snow, with zero weather for more than a week. Thermometer stood 15 degrees below zero December 27. No loss of stock, and stock of all kinds doing well. Hard, dry freezing is bad for the wheat. Butterfat 36c; eggs 30c; potatoes \$2.10.—**Edwin White**, Dec. 29.

Coffey County—Weather cold but dry. We have not had much snow or rain so far this winter and stock water is low. Stock of all kinds doing well. Everything selling better at public sales. Prairie hay is being shipped out for a good price as fast as cars can be obtained.—**A. T. Stewart**, Dec. 30.

Morton County—The ground continues dry, and there is no growing wheat in sight. The feed is about all stacked. A great many hogs have been put on the market this fall and winter; also a large number of cattle sold and shipped on account of the shortage of pasture.—**E. E. Newlin**, Dec. 28.

Stanton County—We are having a good deal of snow lately and the weather is pretty cold. Stock is doing well and there is demand for all kinds. Lots of oilcake being fed. Broomcorn was our paying crop this year and a big acreage will be planted next year. We know of one 200-acre tract.—**Earl H. Dunbar**, Dec. 28.

Marion County—Weather nice at present, but have had very cold weather, which was hard on the wheat. Had a half-inch of rain on December 26. Stock is doing well. Chickens are not doing much. Many hogs have been butchered in the last few weeks. Wheat \$1.65; corn 87c; oats 60c; butterfat 35c; eggs 35c.—**Jac. H. Dyck**, Dec. 29.

Stafford County—All the little flurries of snow during the past two weeks haven't supplied enough moisture to make much showing on the wheat. Cold weather has helped to keep it back. No wheat pasture of value, but stock seems to be thriving on stalk pasture, supplemented with grain and hay. Wheat has dropped in price.—**S. E. Veatch**, Dec. 30.

Haskell County—Wheat is needing moisture very much. While the early sown wheat is in very good condition, the late wheat is suffering badly. Stock is doing nicely. We have had two light snows, but they did not afford much moisture. Feed of all kinds is very scarce. Eggs are 40c a dozen, but not many being sold. Butter 30c a pound.—**C. W. Durnell**, Dec. 30.

Riley County—Cold and fair, snow all melted. Not much outdoor work being done. Some farmers shelling corn and selling it to feeders. Corn is selling for 90c a bushel right at home. A nice lot of young hogs and some cattle on full feed. Wheat fields look poor, as the snow blew off, leaving the small plants unprotected. Eggs 30c; butter 30c; wheat \$1.60; hogs \$9.90.—**P. W. Hawkins**, Dec. 30.

Osage County—Wheat in good condition with plenty of moisture. Large acreage of oats and Sudan will be sown for early feed. Feed is scarce, but stock looking well. Farmers cutting hedge to comply with the law. Coal higher and scarce, two shafts having been burned out in the past week. Corn 98c; cream 35c; butter 32c; eggs 33c; Sudan seed 20c a pound; kafir seed 4c. Old horses selling lower at sales.—**H. L. Ferris**, Dec. 28.

Pawnee County—Have been having quite severe cold weather the past two weeks, with just a trace of moisture. Very little work going on except feeding stock. Stock is doing well on dry feed, which is none too plentiful. There is some fear about the wheat, but most people think it is not severely hurt yet. The ground is too dry to farm. Quite a little wheat going to market as the car situation seems to be better. Wheat \$1.67; corn, shelled, \$1; eggs 30c; butterfat 34c; hens 12c; turkeys 17c; country butter 30c; alfalfa \$12 to \$16 a ton.—**C. E. Chesterman**, Dec. 30.

One of the members of a committee of inspection on its tour of a certain penitentiary found himself in conversation with one of the convicts. The latter was disposed to be confidential, and thus unburdened himself:

"It is a terrible thing to be known by a number instead of a name, and to feel that all my life I shall be an object of suspicion among the police."

"But you will not be alone, my friend," said the visitor, consolingly. "The same thing happens to people who own automobiles."—Exchange.

12 Flowering Shrubs



The Largest and Most Magnificent Collection ever Offered. One year size, they will bloom the same year planted and every year after, surrounding your home with a fragrant sea of ever-changing fragrant bloom. This beautiful collection is

The Farmers Mail and Breeze's Gift to You

The shrubs we send you are about a foot high, the best size to plant. They grow rapidly, increasing in beauty from year to year, attaining in a short time the following size:

Golden Bell. Very tall and beautiful. 12 to 16 ft.
Barberry. Neat, dense and spherical. 4 to 6 ft.
Deutzia. Profuse, showy double bloomers. 6 to 8 ft.

Sweet Shrub. Quick growers, spicily fragrant. 4 to 6 ft.
Snowball. Stately and imposing. 6 to 8 ft.
Rose of Sharon. Heavy variegated bloom. 10 to 12 ft.

Nine Months of Fragrant Flowers in Every Year

Your home will be surrounded by a bower of fragrant flowers all the year, except for a few months in the winter. Very early in the year, even before the snow is gone, the **Golden Bells** are covered with rich golden flowers. Shortly afterward the **Barberry** blazes out in a mass of canary, quickly followed by the delicate yet massive rose blooms of the **Deutzias**. Midsummer brings the rich chocolate red flowers of the **Sweet Shrubs**, which bloom at intervals until snow. Then the **Snowballs**, with their stately white flowers and finally the luxuriant bloom of the **Rose of Sharon** is added to the scene. Even when winter's icy touch banishes the flowers, the brilliant red and yellow, brown and gold of the foliage, and the red berries of the **Barberry** (which remain through the winter) remind us that in but a few short months the flowers will return in greater beauty.

Our "12 Shrub" Offer

We will send this collection of Twelve Hardy Shrubs, Postpaid, as a Premium with a One-Year Subscription to **FARMERS MAIL AND BREEZE** at \$1.00 and 30 cents additional, or \$1.30 in all. This covers all charges, for both the magazine and the shrubs.

CUT THIS AD OUT, write your name and address below, and send with \$1.30 to

Farmers Mail and Breeze, Shrub, Topeka, Kan.
Gentlemen:—I enclose \$1.30 for **FARMERS MAIL AND BREEZE** One Year and the 12 SHRUBS as listed in this ad, all charges paid.

Name.....

Address.....

Please Check whether a NEW () or a RENEWAL () subscription.

The 4-S Safety Razor—

The Simple, Sanitary, Sharp Safety

This 4-S Razor is designed with the idea of keeping as close as possible to the old-fashioned razor, and at the same time having all the advantages of the safety. This razor combines with the straight razor the detachable guard plate, thus making it absolutely safe, and insuring the operator from the frequent cuts and scratches that he gets from the old-fashioned razor. The plate locks on either side of the blade by a patented locking device, thus making it right or left handed.

One Package of Six Blades Free

This is not a "make-believe" but actually a razor that will shave and give satisfaction. An extra package of blades goes with each razor, making seven blades. The razor is finely nickel plated, and has a black non-breakable handle. You can shave with these blades without stropping as long as you can any blades on the market, and then you can strop them and keep them in shape as long as you want to. We believe this safety razor outfit the best razor value ever offered.

SPECIAL OFFER

We will send this 4-S Safety Razor Outfit postpaid to all who send us \$1.35 to pay for a year's subscription to the **Farmers Mail and Breeze**. New or renewal subscriptions accepted on this offer. Clip and send us the coupon today.

Farmers Mail and Breeze, Dept. 4 S., Topeka, Kansas

Gentlemen: Enclosed find \$1.35 for which please enter my subscription to the **Farmers Mail and Breeze** for the term of one year and send me the 4-S Safety Razor Outfit Free. If you are already a subscriber write yes

Name.....

Address.....

Lovely Colored Picture Free

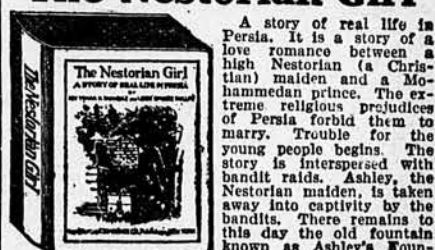
To introduce our line of beautifully colored pictures we will send a copy of picture "Guarding" free to all who send 2c stamp to cover mailing expense and will agree to show the picture to 4 or more of your friends.



When writing to advertisers be sure to mention the **Farmers Mail and Breeze**

BEE SUPPLIES LOWEST PRICES. Full line of everything needed. Write for new 1917 catalog. **CLEMONS BEE SUPPLY CO.**, 127 Grand Avenue, KANSAS CITY, MO.

"The Nestorian Girl"



A story of real life in Persia. It is a story of a love romance between a high Nestorian (a Christian) maiden and a Mohammedan prince. The extreme religious prejudices of Persia forbid them to marry. Trouble for the young people begins. The story is interspersed with bandit raids. Ashley, the Nestorian maiden, is taken away into captivity by the bandits. There remains to this day the old fountain known as Ashley's Fountain and the trees under which Ashley is said to have sat. It is the most interesting novel of the day and you should surely read it.

SPECIAL OFFER: This dramatic story book sent free and postage paid for one new or renewal subscription to the **Missouri Valley Farmer** at 30c. **MISSOURI VALLEY FARMER**, Book Dept. N.G. 4, Topeka, Kan.

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This is a splendid opportunity to order your favorite magazines and to renew your subscription to this publication. Best of all we have arranged so you can send us your order for all the publications you want in one order at greatly reduced prices. With each clubbing offer we include free a lovely miniature Art Picture in beautiful colors in a neat gilt frame, size 2x2½ inches.



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The miniature pictures we give free with these wonderful bargain clubbing offers are neat, artistic and make lovely ornaments for the home and are excellent for gift purposes. The picture is in beautiful tints and colors in a lovely gilt frame. Don't miss this grand opportunity to get this real work of art without a cent of cost to you. Safe delivery guaranteed. Mail us the coupon today. You will never regret it.

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Farmers Mail and Breeze \$1.00	All One Year for only \$1.80 You save \$1.05
Modern Priscilla..... 1.00	
McCall's Magazine..... .35	

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Farmers Mail and Breeze \$1.00	All One Year for only \$1.40 You save 60c
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Farmers Mail and Breeze \$1.00	All One Year for only \$1.50 You save \$1.25
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Modern Priscilla..... 1.00	

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Farmers Mail and Breeze \$1.00	All One Year for only \$1.45 You save \$1.40
People's Home Journal..... .50	
Woman's World..... .35	

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Farmers Mail and Breeze \$1.00	All One Year for only \$1.95 You save \$1.80
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Free McCall Pattern

To introduce McCall Patterns, The McCall Company allows each subscriber for McCall's MAGAZINE to choose from her first copy of McCall's any one 12 cent McCall Dress Pattern FREE. Send free pattern request to McCall's Magazine, New York City, giving Number and Size, with 2-cent stamp for mailing. McCall's Pattern given only with clubs containing McCall's Magazine.

NOTE—If you do not find your favorite club in this list, make up your own combination of magazines and write us for our special price. We can save you money on any of the magazines above providing they are clubbed with our publication. New, Renewal or Extension Subscriptions Accepted.

Use This Coupon

Farmers Mail and Breeze, Club Dpt., Topeka, Kan.

Gentlemen: Enclosed find \$..... for which please send the magazines listed in Offer No. to the following name for one year and Art Picture free.

Name.....
Town..... State.....

Heavy Horses Are Best

BY WAYNE DINSMORE.

Heavy draft horses have many advantages over light horses for farm work. The tractive power horses can exert is governed by weight, strength and temperament. Under extraordinary pressure horses can exert from 4 to 6 horsepower, but under conditions of daily work they exert a pull which is about one-tenth of their working weight. The horsepower traction required to move farm implements depends on the soil, climatic conditions, and the condition of implements used. Under favorable conditions five draft horses weighing 1,600 pounds or more will pull a two-plow gang of 14-inch plows a little more than 20 miles, averaging from 5 to 5½ acres a day. It will take seven horses that weigh from 1,100 to 1,300 pounds to do the same work, and it is not practicable to work seven horses on one gang plow with the ordinary class of farm labor. It will therefore require two men on single plows, one with four and the other with three light horses, to do the same work that one man will do with five good draft horses. The same general ruling applies in seeding, disking and harvesting, for while one man can readily handle five draft horses on the implements needed he cannot advantageously nor safely use enough more light horses to give the equivalent power. The use of big draft horses therefore increases the amount of work one man can do in the field, and in actual practice the work is done better when drafters are used. When to this we add the fact that less barn room is needed, and less labor required in handling the heavy horses, than is necessary where enough more light horses are used to make up equivalent power, the advantage becomes marked.

Besides this, the heavy horses sell more readily and at higher prices, when the surplus is to be sold. Light weight horses have been bought at prices ranging from \$110 to \$150 while draft horses have brought from \$200 to \$300 apiece. This is an important factor, for every well managed farm has a few surplus horses to sell annually, and the readier sale, and higher prices realized for draft stock are factors which must appeal strongly to all thinking farmers. Maximum cash returns are what we are all interested in, and this we obtain when big drafters are used in farm work.

These are facts which thinking farmers will consider carefully. Horse buyers have scoured the United States as never before. More than half a million horses and 100,000 mules have gone for war purposes. Demands from abroad will continue so long as the war lasts, and will be strong for years afterward, for the battling nations must call on us for horses for industrial purposes. Country sales already reflect the feeling of conservative farmers, who are good buyers at strong prices, on first class mares weighing 1,600 pounds or more, whether grade or purebred.

The recent cable from President Avline, Percheron Society of France, that the government there has agreed to allow the exportation of 200 stallions, foaled in 1912 or earlier, only serves to emphasize the extent to which war has curtailed supplies abroad.

Good blood and liberal feeding will pay better in draft horses than in any other class of stock, always providing that a man buys no more mares than he needs in his farm operations, and exercises good management—essential to success in any line.

Pork at a Lower Cost

BY I. N. CHAPMAN
Leavenworth County Agent

Corn, when used alone, is the most expensive feed for hogs. When fed with shorts, tankage, or meatmeal, it becomes a much cheaper ration and gives greater gains in proportion to the money invested. A ration which is found to be very satisfactory consists of corn 60 parts, shorts 30 parts, tankage or meatmeal 10 parts. Where the hogs have clover, bluegrass or alfalfa pasture, the amount of tankage or meatmeal may be reduced at least one-half.

"How long did you stay in your last place?"

"Two weeks, mum, and before I agree to come to work for you I should like to know how long you kept the last girl you had."—Detroit Free Press.

WHAT BREEDERS ARE DOING

FRANK HOWARD,
Manager Livestock Department.
FIELDMEN.

A. B. Hunter, S. W. Kansas and Okla., 128 Grace St., Wichita, Kan.
John W. Johnson, N. Kansas, S. Neb. and Ia. 824 Lincoln St., Topeka, Kan.
Jesse R. Johnson, Nebraska and Iowa. 1937 South 16th St., Lincoln, Neb.
C. H. Hay, S. E. Kan. and Missouri. 4204 Windsor Ave., Kansas City, Mo.

FUBREED 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 Sales.

Feb. 26 to Mar. 3—F. S. Kirk, Mgr., Wichita, Kan.

Percheron Horses.

Feb. 9—Breeders' combination sale, Manhattan, Kan.

Feb. 15—C. S. Butler, Cherryvale, Kan.
Feb. 17—C. H. Payton, Norton, Kan.
Feb. 22-23—Nebraska Pure Bred Horse Breeders' Association, sale at Lincoln, Neb.
C. F. Way, Sec.-Treas., Lincoln, Neb.

Draft Horses.

March 9—W. T. Judy & Sons, Kearney, Neb.

Jacks and Jennets.

Feb. 15—C. S. Butler, Cherryvale, Kan.

Feb. 22—M. H. Roller & Son and Bruce Saunders, Holton, Kan.

Mar. 13—Hineman & Sons, Dighton, Kan.

Hereford Cattle.

Feb. 24—C. F. Behrent, Norton, Kan.

Feb. 26—Combination sale at Hays, Kan.

Prof. W. A. Cochel, Manhattan, Kan., Mgr.

Feb. 27—Combination sale, Manhattan, Kan.

Prof. W. A. Cochel, Manhattan, Kan., Mgr.

Holstein Cattle.

Jan. 17—W. H. Mott, Mgr., Council Grove, Kan.

Jan. 30—H. L. Cornell, Route 6, Lincoln, Neb.

Feb. 21—Nebraska Holstein Breeders' Consignment sale, South Omaha, Dwight Williams, Sales Manager, 4110 Davenport St., Omaha, Neb.

Feb. 6—H. C. Glassman, South Omaha, Neb.

Jersey Cattle.

Mar. 8—F. J. Scherman, Route 8, Topeka, Kan.

Shorthorn Cattle.

Jan. 10—W. P. Kuehn, Red Cloud, Neb.

Jan. 16—E. E. Carver & Son, Guilford, Mo.

Jan. 18—C. C. Calkins, Burlingame, Kan.

March 13—Blank Brothers & Klen, Franklin, Neb. Sale at Hastings, Neb.

March 14-15—Highline Shorthorn Breeders' Ass'n, Farnam, Neb. E. W. Crossgrove, Mgr., Farnam, Neb.

March 15-16—Breeders' Consignment sale, Grand Island, Neb. J. C. Price, Lincoln, Neb., Mgr.

March 28—F. A. Egger, Roca, Neb.

Mar. 30—H. C. McKelvie, Lincoln, Neb., Mgr. Combination sale at South Omaha.

Polled Durham Cattle.

March 14—W. T. Judy & Sons, Kearney, Neb.

Mar. 29—H. C. McKelvie, Lincoln, Neb., Mgr. Combination sale at South Omaha.

Poland China Hogs.

Jan. 16—E. E. Carver & Son, Guilford, Mo.

Jan. 16—D. C. Lonergan, Florence, Neb.

Feb. 6—Smith Brothers, Superior, Neb.

Feb. 7—T. F. Walker & Son, Alexandria, Neb.

Feb. 8—Wm. McCurdy & Son, Tobias, Neb.

Feb. 9—Frank J. Rist, Humboldt, Neb.

Feb. 12—W. E. Willey, Steele City, Neb.

Feb. 15—T. W. Cavett, Phillips, Neb. Sale at Aurora, Neb.

Feb. 17—S. A. Nelson & Sons, Malcolm, Neb.

Feb. 19—C. Lionberger, Humboldt, Neb.

Feb. 21—O. B. Clemetson, Holton, Kan.

Feb. 22—A. J. Erhart & Sons, Ness City, Kan. Sale at Hutchinson, Kan.

Feb. 23—Olivier & Sons, Danville, Kan.

Feb. 24—C. F. Behrent, Norton, Kan.

Feb. 27—Von Forell Brothers, Chester, Neb.

Feb. 28—Clarence Dean, Weston, Mo.; sale at Dearborn, Mo.

Feb. 28—John Naiman, Alexandria, Neb.; sale at Fairbury, Neb.

Feb. 28—Agricultural College, Manhattan, Kan.

Duroc-Jersey Hogs.

Jan. 22—Geo. Briggs & Sons, Clay Center, Neb.

Jan. 23—H. A. Deets, Kearney, Neb.

Jan. 31—J. H. Proett & Son and H. J. Nachingall & Son, Alexandria, Neb.

Feb. 1—Theo. Foss, Sterling, Neb.

Feb. 1—Philip Albrecht & Sons, Smith Center, Kan.

Feb. 7—F. J. Moser, Goffs, Kan.

Feb. 3—Dave Boserger, Cortland, Neb.

Feb. 16—J. C. Boyd & Son and Ira Boyd, Virginia, Neb.

Feb. 28—Agricultural College, Manhattan, Kan.

March 14—W. T. Judy & Sons, Kearney, Neb.

March 15—W. T. McBride, Parker, Kan.

Hampshire Hogs.

Feb. 26—A. H. Lindgren, Jansen, Neb.; sale at Fairbury, Neb.

Feb. 27—Carl Schroeder, Avoca, Neb.

Chester White Hogs.

Feb. 23—Henry Fehner, Higginsville, Mo.

Mar. 8—F. J. Scherman, Route 8, Topeka, Kan.

N. Kansas, S. Nebr. and Ia.

BY JOHN W. JOHNSON.

Lackland Brothers, Axtell, Kan., (Marshall county) are advertising in this issue of the Farmers Mail and Breeze, 3 year old Holstein heifers that they are willing to stand behind with liberal guarantees. They are bred to freshen soon and are unusually desirable. Write them for descriptions and prices and any information you want and you will get prompt and courteous treatment.—Advertisement.

W. R. Huston, Americus, Kan., breeds Duroc Jersey hogs and Rose Comb Rhode Island Red chickens, exclusively. He has just issued a beautiful folder about his "Reds" that he will be pleased to send you. If you want a bred sow or gilt or a boar write him for descriptions and prices. Look

up his advertisement in the Duroc Jersey section in the Farmers Mail and Breeze.—Advertisement.

Cedar Wild Knight, the splendid 2 year old grandson of Gallant Knight offered by Joseph Baxter, Clay Center, Kan., has been referred to in his advertisement and field notes as being 3 years old. This is a mistake. He is only 2 years old. Mr. Baxter breeds both Shorthorns and Polled Durhams and is offering two grandsons of True Sultan, the champion Polled Durham bull. They are 7 months old and are choice. Write for further information and don't overlook Cedar Wild Knight if you want a real Shorthorn herd bull.—Advertisement.

Ben Lyne's Shorthorn and Poland China sale at Abilene, Kan., last Wednesday was well attended and a big success. Nineteen Shorthorns sold for an average of \$17.50 and the Poland China sows and gilts averaged \$35. It was Mr. Lyne's annual sale at Abilene and was very satisfactory to him. Mr. Lyne lives at Oak Hill where he owns a fine farm and a nice herd of Shorthorn cattle and Poland China hogs. Breeders were there from all over Central Kansas and the sale was snappy and lively from the start to the finish. Mr. Lyne will hold other sales at Abilene in the future.—Advertisement.

A Shorthorn Herd Bull.

A. H. Cooper, Natoma, Kan., a well known Shorthorn breeder, is making a good herd bull proposition in this issue of the Farmers Mail and Breeze. The herd bull he is offering is Goodlight 367939, by Searchlight 292031. Goodlight is 4 years old and Mr. Cooper is keeping all of his 2-year-old and yearling heifers. He is a great breeder. You better investigate this at once if you can use a great producing bull at a very reasonable price. Address A. H. Cooper, Natoma, Kan.—Advertisement.

Good Shorthorn Bulls.

E. P. Flanagan, Chapman, Kan., (Dickinson county) offers six Shorthorn bulls from 6 to 13 months old. They are Scotch and Scotch topped and a very desirable lot of bulls both in breeding and individual merit. They were sired by Scotch Pride, the 2200 pound pure Scotch bull bought of Mr. Lookabaugh and a year later bought back because of his great merit as a producer. These bulls are out of Mr. Flanagan's well known cows and are the kind that develop into bulls of good scale and the kind that every breeder should be using. They will be priced right. Write him for further information and prices.—Advertisement.

Holsteins of Quality.

W. H. Mott, Herington, Kan., the well known Holstein breeder and sales manager, is advertising a combination sale of high grade Holstein cows and heifers to be held in the big sale pavilion at Council Grove, Wednesday, January 17. Sixty head go in this sale and they will be attractive in every sense of the word. All will be heavy springers with the exception of 10 long yearlings bred to freshen next summer and bred by the Haskell Institute, Lawrence, Kan., and consigned by W. H. Doddridge of White City, Kan. Frank Myers of Belvidere, Ill., consigns 25 head of as choice cows as ever came to Kansas. Lester Lowe, Council Grove, consigns 25 head of 2 year

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—I have sold the heifers, all the boars and nearly closed out the bulls and cockerels, so please stop the ad.—Yours very truly, Fred R. Cottrell, Breeder of Herefords, Poland Chinas and Plymouth Rocks, Irving, Kan., Dec. 9, 1916.

Farmers Mail and Breeze, Topeka, Kan. Gentlemen—Enclosed you will find my check for \$7.20 to pay for my 2 line advertisement to November 25 and wish to say that in paying you this \$7.20 that I have realized a commission of \$200 on a deal just closed and which started thru my ad in your paper. I call this a very good investment and would recommend your paper above all others that I ever have employed to present my business to the public.—Yours respectfully, Fred Ochiltree, Real Estate Dealer, St. Joseph, Mo., Dec. 14, 1916.

HAMPSHIRE HOGS.

Sold on Approval

Two perfectly marked boars, choice gilts open or bred to Wempe's Model, el. by Paulsen's Model, the \$800 boar. Also pigs just weaned.

F. B. Wempe, Frankfort, Kan.



REGISTERED HAMPSHIRE 150 gilts and boars, all ages. Cholera immunized. Satisfaction guaranteed. C. E. LOWRY, Oxford, Kan.

Shaw's Hampshires 150 registered Hampshires, nicely belted, all immunized, double treatment. Service boars and bred gilts. Satisfaction guaranteed. Walter Shaw, R. 6, Wichita, Kan.

LIVESTOCK AUCTIONEERS.

Jas. T. McCulloch, Clay Center, Kan. References I am selling for, every year. Write for open dates.

FLOYD YOCUM LIVESTOCK AND REAL ESTATE AUCTIONEER ST. JOHN, KAS.

Rule Bros., H. T. & R. D., Ottawa, Kan. Livestock sales a specialty. Write for dates.

W. H. Fisher, White City, Kan. Pure bred stock sales. Write, Wire or Phone. Address as above.

Lafe Burger, Wellington, Kan. LIVESTOCK AUCTIONEER Ask any Breeder. Write or wire as above.

Be An Auctioneer

Make from \$10 to \$50 a day. We teach you by correspondence or here in school. Write for big free catalog. We are also starting a new breed of horses known as "Wagon Horses." We register 25 of the best mares in each county. Foundation stock mares to weigh about 1,250 pounds. Stallions must be registered Percherons.

W.B. Carpenter, Pres., Missouri Auction School, 818 Walnut St., Kansas City, Mo.

CHESTER WHITE AND O. I. C. HOGS.
O. I. C. HOGS For sale—Yearling boar, Spring and Summer pigs, bred gilts and tried sows. Priced to sell. **A. G. COOK, LURAY, KANSAS**

CHESTER WHITE HOGS Fashionable breeding. Excellent quality. Prices reasonable. **E. E. SMILEY, PERTH, KAN.**

Edgewood Farm Herd Chester Whites Spring boars with length, size, bone and quality sired by Don Bon 2nd and Sweepstakes. **HENRY MURR, Tonganoxie, Kan.**

FEHNER'S O. I. C. Herd headed by the \$500 Eagle Archie. First prize aged boar at Sedalia, 1916. We offer 100 selected spring pigs, a number by a son of Eagle Archie, every one immune and shipped on 10 days' approval. **Henry Fehner, Higginsville, Mo.**

'PREPAREDNESS' Get ready for 1917 pig crop, place orders before Jan. first, while the price is low. We must raise after the first. Champion and grand champion blood. All ages. Satisfaction guaranteed. "Safety first" breed O. I. C. **F. J. GREINER, BILLINGS, MISSOURI**

SILVER LEAF O. I. C's. Am sold out of everything but August boars. They are fine, of the best of breeding and priced cheap for quick sale. Will ship them on approval. Write for description. **C. A. CARY, Route 1, Mount Valley, Kan.**

THE SEASON'S GREETINGS to my "White Hog" Customers everywhere. Watch for change of copy next week. I wish you a prosperous new year. **F. C. GOOKIN, RUSSELL, KANSAS**

Kansas Herd Chester Whites Gilts bred to Don Izzy, Don Wonder, Don Wildwood; sired by champions. Fall pigs by Don Milligan. Reasonable prices. Nine rail roads. **Arthur Mosse, R. 5, Leavenworth, Kan.**

POLAND CHINA HOGS.
BIG MEDIUM POLANDS The smoothest big ones you ever saw. March boars and gilts at private sale. Prices right. **C. D. CLOSE, GORHAM, KANSAS (Russell County).**

Stretchy Boars: Gilts All Bred Boys entering Capper Pig Club write me today for my special offer on bred gilts. Fall and summer boars and gilts. Write today. All immune. **W. A. MCINTOSH, COURTLAND, KANSAS**

I Ship on Approval The best of big type Poland China breeding. Special prices on bred sows and 50 head of fall pigs. **ED SHEEHY, HUME, MO.**

Fashionable Stock Place
Big Type Poland Chinas April boars and gilts. Can sell stock not related. All immune. Satisfaction guaranteed. **V. O. JOHNSON, Auline, Kansas.**

Albright's Private Sale of more quality, big type Poland China spring boars and gilts is now on. You can't beat my spring boars at the price. Also open gilts. **A. L. Albright, Waterville, Kan.**

Fairview Poland Chinas Choice sows and gilts, bred for March farrow. Also 50 fall pigs. All priced to sell. Write us today. **P. L. WARE & SON, PAOLA, KANSAS**

POLAND CHINAS
Big Type—Big Bone—Big Litters. Spring and summer pigs, either sex. Satisfaction guaranteed. **Engleman Stock Farm, Fredonia, Kansas**

Original Big Spotted Polands 75 fall pigs, pairs and trios not related. Pedigrees with each pig. Big litters. Address **ALFRED CARLSON, Cleburne, Kan.**

Private Sale March boars by the half ton Hercules 2nd. Choice gilts same age. Summer and fall pigs at bargain prices. Summer pigs ready to ship. Pedigrees with each pig. **ANDREW KOSAR, DELPHOS, KAN.**

ERHART'S BIG POLANDS Home of more prize winners than any herd in the West, headed by the grand champion Big Hadley Jr.; large, roomy, prolific sows. Am pricing the grand champion boar Robidoux; also special prices on fall and spring boars. A number of herd headers among them priced for quick sale. **A. J. ERHART & SONS, Ness City, Kan.**

SPOTTED POLANDS
Private Sale 16 spring gilts bred or open to suit purchaser. Also six boars old enough for service. Write for prices. **R. H. McCUNE, LONGFORD, KAN., (Clay County)**

As Good As Grows Comparison with other herds most earnestly invited. Smooth, Extra Smooth Price and Extra Smooth Price 2nd, herd boars at the top. History makers. **L. C. Walbridge, Russell, Kansas**

old heifers that are choice and heavy springers. In this sale every animal is sold fully guaranteed as represented. **W. H. Mott**, the sale manager, has been instrumental in distributing Holstein cattle of real merit throughout the West and is known to be thoroughly reliable and a man who would have nothing to do with anything that is not first class in every respect. Write the manager, **W. H. Mott, Herlington, Kan.**, for full particulars.—Advertisement.

Richly Bred Angus Bulls. **H. L. Knisley & Son, Talmage, Kan.** (Dickinson county) are starting their Angus advertisement in this issue of the Farmers Mail and Breeze and are offering 17 bulls, some of them year old and put and others younger. They are indeed a grand lot of young bulls and it is doubtful if there is a more choice lot offered for sale in the West this winter. They will also sell a few cows and heifers. The herd bull that sired the bulls and heifers offered is Mulvane Prince Albert 157143, a richly bred bull and a splendid individual. Write at once for further information.—Advertisement.

Outstanding Shorthorn Bulls. In this issue of the Farmers Mail and Breeze **W. T. Ferguson, Westmoreland, Kan.**, advertises Shorthorn cattle for sale. He offers seven bulls from 8 to 14 months old. His shipping point is Wamego. He will meet anyone desiring to look at his bulls, cows and heifers, at Wamego, in his car. Heading the herd is Cumberland's Knight, a Cumberland's Last and Galt's Knight bred bull. The Ferguson Shorthorn herd is the oldest in Pottawatomie county, being established in 1900. If you need a bull, get in touch with **W. T. Ferguson** at once.—Advertisement.

Moser's Bred Sow Sale. **F. J. Moser, Goff, Kan.**, who is a regular advertiser in the Duroc-Jersey section of the Farmers Mail and Breeze, has sold all of his boars old enough for service. His bred sow sale February 7, will be held in Sabetha as usual and he will sell 50 bred sows and gilts that will challenge any like number to be sold in a public sale this winter. The tried sows will be bred to Fancy Pal (169235) and the gilts to High View Chief's Col. (199001) and Defender's Top Col. Mr. Moser attended the Dr. J. B. Unsell sale which he topped at \$200 for the great sow, Lucy Wonder of Idelwild 121202. The sale will be advertised in the Farmers Mail and Breeze. Arrange to attend and ask for the catalog any time.—Advertisement.

Big Clean Up Sale. **T. P. Teagarden, Wayne, Kan.**, is the well known pioneer Duroc Jersey breeder at that place. He has recently sold his farm and will move, in the spring, to a small farm near Manhattan. He has claimed January 25 as the date of his big dispersion sale in which he will sell his small dairy herd consisting of high grade Holstein cows and heifers and two high grade Jersey cows and two high grade Shorthorn cows. All are good milkers else they would not have been retained on the farm. His sale of Duroc Jersey sows and gilts (19 head) is an important event to Duroc Jersey breeders wanting first class sows and gilts. They are certainly choice and well bred. Everything goes in this big clean up sale. You better write him for further information and arrange to attend the sale.—Advertisement.

High Class Jacks. **Thompson Brothers, Marysville, Kan.**, are breeders of Jacks and offer seven valuable Jacks for sale. These all are black with white points except one dark gray. Two are 2 years old and two are 3 years old, two coming 8 and two coming 10. They are all broke to mares and good performers. Prospective buyers are invited to come to Marysville where they can see colts by these Jacks and mares safe in foal for this season. These Jacks are exceptionally good propositions and you can know exactly what you are buying if you come to Marysville, Kan. Thompson Brothers are well known stockmen and have an enviable reputation for square dealing that is a reality and not a boast. Write them for further descriptions and prices. Plan to visit Marysville, Kan., if you want a really good Jack.—Advertisement.

Twenty-five Shorthorn Bulls. **E. A. Cory & Sons, Talmage, Kan.**, are proprietors of the Salt Creek Valley Stock Farm herd of Shorthorn cattle with over 100 head in the herd. At the head of this herd is Red Laddie 33594, a prize winner, got by the great breeding bull Captain. At present they are offering 25 bulls from 6 to 12 months old and a 3 year old bull, all by Barmpton Model, by Barmpton Knight. The dams of these bulls are choice cows mostly by Elmwood Red Gauntlet, by Red Gauntlet. These bulls were raised under conditions that insure their going on and making good for the purchaser. This herd is the pioneer Shorthorn herd in Republic county and the Corys are themselves pioneers in that section of the state. They own a fine farm near Talmage and operate the only bank in Talmage, a thriving little town. If you want a good bull calf ready for business in the spring or a good 3 year old bull go to Talmage and visit the Corys and their herd. Write for further information.—Advertisement.

Milking Shorthorns. **C. C. Calkins, Burlingame, Kan.**, will make a draft sale of 32 Shorthorns at his farm 11 miles northwest of Burlingame and 5 miles northeast of Harveyville, Thursday, January 18. Fourteen cows will be sold that will freshen between now and June 1 and 13 yearling and 2 year old heifers. The cows are out of cows from the original foundation of this herd bought in the H. C. Scott dispersion sale a few years ago and sired by Ivanhoe, a great pure Scotch bull of the Violet tribe, bred by Andrew Pringle. All of the younger stock was sired by Favorite, by The Milkman, he by Cyrus Clay, the great show bull and from a noted family of milking Shorthorns. The dam of Cyrus Clay was a noted cow because of her great records for milk and the cows in Mr. Calkins' herd are all good milkers. Favorite is a bull of lots of quality that will weigh a ton in good condition. All of the cows in the sale are bred to him. Mr. Calkins is not quitting but is selling very close. The cattle will be found in very ordinary flesh and are sure to go on the farms of their purchasers and thrive with ordinary care. It is an honest offering of Shorthorns, above the ordinary in blood lines and lacking only in a higher condition that always made cattle sell for more money. But it is the opportunity for the buyer. Catalogs are out now and will be mailed upon application to **C. C. Calkins**,

MULE FOOT HOGS.
200 Immune Mulefoot Hogs all ages, priced to sell. to champion boars. Catalog free. **C. M. THOMPSON, LETTS, IND.**

BERKSHIRE HOGS.
BERKSHIRE PIGS Best of Breeding. Big type English. Either sex, \$15 each. Crated and papers furnished. **R. J. LINSKOTT, HOLTON, KANSAS**

JACKS AND JENNETS.
FOR SALE 6 Jacks, 6 Jennets, 3 Percherons and 1 Standard bred stallion. For information call on or address **F. W. POOS, POTTER, KAN.** (Barn 3 blocks north of depot)

15 JACKS
20 JENNETS
 3 to 6 years old. 15 to 15½ hands high. Excellent in bone, size and conformation. Write today.
Philip Walker
 Moline, Elk County, Kansas

JACKS FOR SALE
 Seven head, blacks with white points, except one which is dark gray. Ages as follows: Two that are two years old, two, three years old. Two coming eight and one coming ten. All broke to mares and prompt performers. Colts to show from matured Jacks. Mares in foal from past season. Also Standard bred stallion. Would consider ton draft stallion on some of this stock. All Jacks eligible to reg.
Thompson Bros., Marysville, Kan.

HORSES.
For Sale: Home-Bred Stallions \$250 to \$400, except two. Also Draft Mares for sale. **A. LATIMER WILSON, CRESTON, IOWA**

DISPERSION SALE OF CLYDESDALES
 One span of brood mares, regular breeders, in foal, by imported stallion. One coming 3 year old filly. One coming 2 year old stud and one weanling stud colt. All show stuff. The thick, blocky kind, sound and best of breeding. **C. H. WEMPE, Seneca, Kansas.**

STALLIONS, MARES AND JACKS
 Registered Percheron stallions, yearling, two, three and four year olds. Blacks, and a few grays. Brilliant bred. The big, wide-out, heavy boned, ton kind. Two year olds weighing 1800 lbs. Also a bunch of big, registered mares showing colts.
 30 big, Mammoth black Jacks, the kind that breed the big mules. Jacks, 15 to 17 hands standard measure. Jennets in foal. All stock guaranteed. References, the Banks of Lawrence, 40 ml. west of Kansas City. **AL E. SMITH, LAWRENCE, KANSAS.**

PERCHERON AND BELGIAN
Over 60 Head of Registered Stallions, Mares and Colts
 To close up a partnership the mares and colts must be sold by March 1st. I mean business. Come and see them.
J. M. NOLAN, PAOLA, KANSAS

FARMERS MAIL & BREEZE
ENGRAVING DEPARTMENT
TOPEKA, KANSAS
CUTS OF YOUR LIVESTOCK FOR LETTERHEADS & SALE CATALOGS

Percherons — Belgians — Shires
 Imported and home-grown mature stallions, ton and heavier, 3 year olds, 2 year olds, yearlings. Produce of 62 imported mares and noted prize winning imported sires weighing 2235 lbs. and 2430 lbs. Farmer's prices. Near Kansas City. **Fred Chandler, Route 7, Chariton, Iowa.**

Redline Stock Farm Percherons
ILLICO 81462, Imported by Watson, Woods Bros. and Kelly is a beautiful black stallion with all the proof you will want that he is a great foal getter.
BONAPARTE 101896 was foaled in 1913 and was the second prize winner in class that fall at the Iowa state fair. He is now a beautiful black weighing about 2000.
KANGOROU STAR 122197 was foaled in April 1914. He is a beautiful black stallion and was sired by C. W. Lamer's great prize winning Kangorou.
 The above Stallions are for sale and any man wanting Percheron stallions that are right in every particular should visit Glasco and investigate these stallions and what they have done for this vicinity. Write for further information. I also offer a big boned Mammoth Jack. Address, **GEO. W. NOWELS, Glasco, Kan.**

Bishop Bros. Percherons
 Our stallions are all young, a life of usefulness before them. They are the big, strong boned, massive kind, with quality and finish to suit the most critical buyer. If you want a stallion it will pay you to come see ours. You can find what you want and at the right price. We invite your inspection and solicit your inquiry.
Bishop Bros., Towanda, Kan.

BREEDERS' SALE OF 350 REG. HORSES
BLOOMINGTON, ILL., JAN. 30, 31, FEB. 1, 2, 1917

250 imported and native-bred registered Percheron, Belgian, French Draft, Shire and Clydesdale stallions and mares.
 150 HEAD of imported and registered stallions and mares of the very choicest breeding.
 50 HEAD of the best registered mares that ever went into an auction ring.
 50 REGISTERED STALLIONS of the very choicest breeding and individuality.
 50 REGISTERED TROTTERS, Grade draft stallions, mares and Jacks.
 50 HEAD OF PONIES—imported and native-bred registered Shetland and Welsh.
D. AUGUSTIN, Pres. CATALOG READY JAN. 15, 1917. C. W. HURT, Mgr., ARROWSMITH, ILLINOIS

HORSES.
Percheron Stallions
 A seven year old imported stallion, richly bred, weighing over 2100 pounds. Plenty of good colts to show. Also one of his good two year old sons out of a Casino dam. Write today. **Edward Cooke & Son, Freeport, Kansas**

Stock For Sale!
 3 head of Standard bred colts; one brown filley 4 years old, stands 16 hands, weighs 1,200 pounds, has been tracked a little and shows lots of speed. Sire Pictolus Ellwood 50245, he by old Pictolus 9102; dam, Bessie Miller, by Tom Miller Jr., 2:10. One black stud, 3 years old, has been tracked a little and is clever and very speedy. Stands 15.3 and weighs now 1,135. Drives single and double. He is a full brother to the above mare. One black filley, 3 years old, name Luta Miller, stands 15.1, broken to drive, has same sire. Dam, Estan Scollita, by Symbolizer 2:09. All these colts are sound and highly bred. We have 6 high grade white face bulls for sale, 2 years old, past. They are in fine condition.
 I have 5 head of high grade Holstein heifers for sale. They are from 14 months to 3 years old; 3 giving milk and one springer. All are bred to my Holstein male. One Holstein male, coming 2 years old in April. This is an extra big male, greater part white in color. I want to sell all 6 head together. A few registered Jersey cows for sale.
O. L. Thisler, Chapman, Kansas

Pioneer Stud Farm
 Established 1870
50 Registered Stallions and Mares
 Just arrived. A new shipment of Stallions and Mares. If you are in the market for a good Percheron stallion or mare now is the time. We can show you more bone, size, action and conformation than you will see elsewhere. Write or come today.

C. W. Lamer & Son,
 Salina, Kansas



Woods Bros. Co., Lincoln, Neb.
Imported and Home-Bred Stallions Percherons, Belgians and Shires
 Come to Lincoln and visit our barns. We will show you 75 stallions, yearlings, 2-year-olds, 3-year-olds and aged horses that you will say are the draftiest, best boned, cleanest lot of stallions you ever saw together. We are especially strong in yearlings and 2-year-olds that will mature into 2,000 to 2,200-pound horses.
 Our imported stallions are direct from the Argentine stud, the only shipment leaving France since the outbreak of the war.
 Our 1916 show record at the Nebraska and Kansas State Fairs includes 37 first prizes, 14 senior and junior championships, 10 grand championships, 17 second prizes, 12 third prizes.
 Our prices, terms and guarantee will suit you. We expect to show at Denver, Colo., Jan. 20-27.
A. P. COON, Manager

SHEEP.



REGISTERED SHROPSHIRE RAMS Yearlings and two square built, hardy bucks with weight, bone and heavy fleece. Quick shipping facilities and priced cheap. 412 head. Near Kansas City. Howard Chandler, Charlton, Iowa.

WESTERN EWES

Bred to pure-bred Shropshire rams, for sale in any number desired.
Geo. C. Fritchard, Rt. 2, Topeka, Kan.

DUROC JERSEY HOGS.

DUROC HERD BOAR, three spring boars from premium stock. Low prices.
JACKSON & COUNTER, Crawford Bldg., Topeka, Kan.

HIRSCHLER'S DUROCS Best of breeding. Spring boars ready for service. Gilts bred or open. Priced for quick sale. Write today.
E. L. HIRSCHLER, HALSTEAD, KANSAS

HIGH CLASS DUROCS Spring boars by our herd boars, also Elk Col., by Perfect Col. Grand champion Ill. State Fair, 2 extra good fall boars. R. T. & W. J. Garrett, Steele City, Neb.

Immune Duroc Boars Herd headed by farmer's kind, bred close to grand champions on both sire and dam side. Prices reasonable and satisfaction guaranteed. Write today. G. B. Woodell, Winfield, Ks.

DUROCS ON THE BARGAIN COUNTER Tried sows, fall yearlings, gilts bred for early litters, April boars, July and September boars and gilts are ready for immediate shipment and every one priced worth the money. Write me what you want to buy.
J. E. WELLER, FAUCETT, MISSOURI

Country Gentleman 132541 Last chance to get boars sired by this great boar. Also some good ones by Gold Medal 176231. We are keeping his gilts and offer him for sale. Everything immune and farmer's prices.
W. R. HUSTON, AMERICUS, KANSAS

Duroc-Jerseys Johnson Workman, Russell, Kansas

JONES SELLS ON APPROVAL This means just what it says. 50 Sept. and Oct. Duroc Jersey pigs. Write for breeding and I will convince you. Peddle with every pig.
W. W. JONES, CLAY CENTER, KAN.

Guaranteed Duroc Bred Gilts Immune Duroc Jersey gilts with size, bone and stretch. Guaranteed in farrow. Shipped to you before you pay.
F. C. Crocker, Box B, Filley, Neb.

Big Type Herd Boars 25 husky spring boars. Crimson Wonder, Illustration, Good Enuff, Golden Model breeding. All Immune. Prices right. Descriptions guaranteed. G. M. Shepherd, Lyons, Kan.

BONNIE VIEW STOCK FARM Duroc-Jerseys Spring boars and one fall yearling boar for sale.
SEARLE & COTTLE, BERRYTON, KANSAS

DUROC-JERSEY BOARS ON APPROVAL 15 spring and fall yearlings ready for hard service. \$30 to \$40. Shipped to you before you pay. Fully guaranteed. I've got one for you.
GEO. F. SCHWAB, CLAY CENTER, NEBRASKA

TRUMBO'S DUROCS August boars \$15. Summer gilts \$12.50, also the herd boar Crimson McWonder for \$125, a great herd boar that should head some good herd. All Immune. Satisfaction guaranteed. Wesley W. Trumbo, Peabody, Kan.

DUROCS of SIZE and QUALITY Herd headed by Reed's Gano, first prize boar at three State fairs. Spring boars and gilts, from the champions Defender, Superba, Crimson Wonder and Golden Model breeding.
JOHN A. REED & SONS, Lyons, Kansas

Private Sale, Boars and Gilts 20 Duroc Jersey boars, March farrow and 15 gilts same age. Priced to sell. Also a choice lot of fall pigs, either sex. Address A. E. Sisco, Topeka, Kan., Phone 3026 Wakarusa

Bancroft's Durocs Guaranteed Immune. No public sales. Fair private sale. Spring boars and gilts open or will breed to order for spring farrow. Pairs or trios not related. September pigs weaned November 1st.
D. O. Bancroft, Osborne, Kans.

Duroc-Jersey Bred Sow Sale Feb. 7 50 Duroc Jersey bred sows and gilts go in this sale combining size, quality and breeding that will challenge any like number to be sold this winter. I will book you for a catalog any time.
E. J. MOSER, GOFF, KANSAS

Brookdale Durocs Are shipped on approval. Still have for sale some good spring boars. Am also offering an extra good yearling herd boar, Freed's Ames Colonel 199993. Grandson of King the Col. and the Grand Champion Freed's Col. Write for particulars and reasonable prices.
A. J. TURINSKY, BARNES, KANSAS

Burlingame. Look up advertisement in this issue of the Farmers Mail and Breeze and please mention this paper when you write.—Advertisement.

Nebraska and Iowa

BY JESSE R. JOHNSON.

Von Forell Brothers, the big Poland China breeders, of Chester, Neb., announce their bred sow sale date in this issue. The date is February 27, and the sale will be held on the farm near Chester, Neb., and only a few miles from the Kansas and Nebraska line. Watch this paper for later announcement or file application any time for catalog.—Advertisement.

George Schwab Writes.

George W. Schwab, regular advertiser in this paper, writes as follows. "We are all sold out on Duroc boars except 15 head of good ones. These are ready to do the best of service, they have the age, bone and size, and we are shipping them out on approval. Every buyer sees his pig before paying for him. We ship over 25 states and always guarantee satisfaction. We have the finest bunch of young Percheron stallions ever raised on the farm. They are coming 3 years old and weigh from 1700 to 1800 pounds. We raise and sell them ourselves and haven't a stallion on the farm over 4 years old. We must sell in order to make room for the younger ones coming on and invite the most careful inspection. Always mention this paper when writing Mr. Schwab about the stock.—Advertisement.

Woods Brothers' Draft Stallions.

An incident in connection with the business of Woods Brothers Company, Lincoln, Neb., is interesting: An Iowa draft horse breeder purchased two colts from this company a year ago at conservative prices, considerably less than \$1,000 each—Percheron and a Belgian. Both were prize winners in his hands at the Interstate Fair at Burlington, Ia., early in the fall, the Belgian being grand champion. At the recent international Percheron only was shown and stood near the top of the class and his owner refused \$3,500 for him. This suggests something of the outcome of Woods Brothers' horses and the margin of profit possible to the purchaser. Not in the entire history of the business of this company have they had at one time so many high class drafters as they now have on hand. The show record at the Nebraska and Kansas State Fairs, 1916, made by Woods Brothers Company, leaves little to be said in reference to the high character of their stallions. This company gives a special invitation in their announcement in this issue to horse breeders to visit their barns at Lincoln and make a careful inspection of the entire stud. Their present plans contemplate showing at the Western Livestock Show, Denver, Colo., January 20-27.—Advertisement.

Briggs & Sons' January Sale.

George Briggs & Sons, Clay Center, Neb., will hold their annual Duroc Jersey bred sow sale this year on Monday, January 22. As usual the sale will be held on the farm about half way between Clay Center and Fairfield, Neb. It will be largely an Illustration 2d sale, everything cataloged either being sired by the great boar or bred to him. Forty spring gilts, the tops from 80, will be included. Briggs & Sons early in the fall traveled extensively in the East in search of a young boar having sufficient merit individually, and well enough bred to cross on these splendid daughters of Illustration 2d. They finally bought the outstanding good young boar, Joe Orion 5th, a son of the grand champion Joe Orion 2d. A big per cent of the Illustration 2d gilts will be bred to this young boar and a few to the other young boar, Jack's Orion, a boar of very much the same breeding. Others are bred to the big type young boar, Pal's Giant, a son of Modorow's Watts Model and out of a dam by King The Col. The sows and gilts have the run of a 160 acre field and will be in fine form to raise good litters. H. A. Deets sells Illustration bred Durocs the next day at Kearney. Plan to attend both sales. Write now for catalog and mention this paper. Bids may be sent to Jesse Johnson, in care of Briggs & Sons.—Advertisement.

Deets's Illustration Bred Sow Sale.

On January 23, the day following the George Briggs & Sons' sale, H. A. Deets of Kearney, Neb., will hold his annual Duroc Jersey bred sow sale. The offering will be largely the get of his great boar, Deets's Illustration 2d. About 20 of as choice spring gilts as will be sold this year, sired by him, will be cataloged. Seven, all of one litter, and all just alike, will go in as attractions. This litter was sired by Illustration, the boar that Moats Brothers bought for about \$2,000. These gilts along with the other spring gilts will be bred to Mr. Deets's new boar, a brother to Orion Cherry King Jr., grand champion boar at International swine show this year. His dam is by Walt's Top Col. by Morton's Top Col. The fall yearlings in this sale were mostly sired by Critic's Model, a son of Critic B. They have lots of size and quality and will produce great litters by Deets's Illustration 2d. Mr. Deets is also putting in some good tried sows. The catalog gives all information. Write for it early and mention this paper. If unable to attend send bids to Jesse Johnson in Mr. Deets's care at Kearney. W. H. Swartsley & Son sell Durocs the next day at Riverdale, near here.—Advertisement.

Lonergan's Big Ursus Poland Sale.

D. C. Lonergan, one of Nebraska's best Poland China breeders, will hold his annual bred sow sale in the sale pavilion at Florence, Neb., January 16. He is selling 50 head, half of which are tried sows and fall yearlings. A big share of them are either sired by or bred to the 1,000 pound grand champion Big Ursus. Many of the spring gilts are by his son, Model Ursus. Some are bred to Big Victor 2d, a very promising son of the noted boar, Big Victor and out of Big Florence, the 800 pound yearling that sold in Mr. Lonergan's last winter sale for \$350. Quite a number are bred to Mr. Lonergan's new boar, Big King Bob, a grandson of Stever's Big Bob and out of a dam by Iowa King. Other boars that are features in the sale are King Giant and Chief Columbus 3d. This offering is good all thru, with lots of size and good quality. They come from the great Guy's Price and Big Victor strains and their ancestors have been prize winners in competition with the best. Write for catalog that gives all information and if unable to be present send bids to Jesse John-

POLLED DURHAM CATTLE.

Double Standard Polled Durhams Young bulls and females for sale. C. M. HOWARD, Hammond, Kansas

Polled Durham & Shorthorns for sale 100 Registered
Roan Orange, Weight 2100, and
Sultan's Pride 1st at Kansas, Neb., Iowa and Oklahoma state fairs.
Heads herd. Will meet trains. Phone 1602.
J. C. Banbury & Sons, Pratt, Kan.

Willson's Polled Durhams

For Sale: Three bulls, 8 and 11 months old. Also a few cows and heifers. Strong in Polled Durham breeding.
Also a few choice Poland China sows and gilts, bred to farrow in March and April.
T. M. Willson, Lebanon, Kansas

ABERDEEN ANGUS CATTLE.

ANGUS CATTLE 150 young bulls and heifers ready to ship.
Berkshire Hogs
SUTTON & PORTEOUS, Lawrence, Kan.

Aberdeen Angus Cattle Herd headed by Louis of Viewpoint 4th, 150624, half brother to the Champion cow of America.
Johnson Workman, Russell, Kan.

17 Angus Bulls

In ages from six to 12 months old. Can ship over Santa Fe, Union Pacific and Rock Island. Will sell some cows and heifers. Address,
H. L. Knisley & Son
Talmage, Kan. (Dickinson Co.)

HEREFORD CATTLE.

Registered Hereford Bulls One 2-year-old, weight 1600 pounds; one extra good May calf, weight 800 pounds, and several other bull calves; also some good Percheron stud yearlings.
Mora E. Gideon, Emmett, Kan.

BALDWIN DUROCS

HEREFORD CATTLE.

Spring Creek Herefords Three yearling bulls for sale. Address S. D. Seever, Smith Center, Kansas

HEREFORD FARM Our Herefords prove profitable in the hands of their purchasers. Best of breeding and individual merit.
T. A. Wallace Barnes, Kan.

JERSEY CATTLE.

Registered Jersey Bulls Excellent Breeding. Percy Lill, Mount Hope, Kansas
FANCY BRED JERSEY BULLS Four bulls from eight to 24 months old. Some choice young females. Ask for prices and descriptions.
S. S. SMITH, CLAY CENTER, KANSAS

Linscott Jerseys

Kansas' First Register of Merit Herd. Private sale at Farmer's Prices. Bulls different ages. Inspection of herd desired. Write for illustrated descriptive list.
R. J. LINSOTT, HOLTON, KANSAS

Dairymen!—The Truth You may be prejudiced against the Jersey because you don't know her. Look her up. She's the Money Cow.
Get This Book—a history of the breed and full of very interesting facts. It proves conclusively that for pure dairy type, economy of production, richness of milk, long life and adaptability to feed and climate—all these combined—the Jersey stands way above them all. This book "About Jersey Cattle" is free. Get your copy now. You'll find it mighty good reading.
The American Jersey Cattle Club
385 West 23rd Street, New York City

Norton County Breeders Association

SAMUEL TEAFORD, President CARL BEHRENT, Secretary
Norton County Fair, August 29, 30, 31, Sept. 1, 1917 N. A. JOHNSON, President FRED STROHWIG, Secretary

For Quick Sale 12 extra choice spring Poland China Boars. Big type and good all over. Farmers prices. C. F. Behrent, Oronoque, Kan.

25 BRED SOWS and gilts bred for spring farrow. 5 spring boars and fall boar pigs. Everything on approval. J. F. Foley, Oronoque, Kan.

Poland China Pigs. 25 fall pigs at low prices. Either sex. Can ship over Rock Island or Mo. Pacific. Geo. W. Goodman, Lenora, Kan.

Poland China Bred Gilts Some very choice spring gilts sold either bred or open. Write for prices. PETER LUFT, Almena, Kan.

Shorthorns Six dark red bulls nine to eleven months old. Pioneer, a grandson of Avondale and Whitehall Sultan heads our herd. N. S. LEUSZLER & SON, Almena, Kansas.

Percherons--Shorthorns--Polands October gilts, bred or open, for sale. Barnston Bruce, by Lord Bruce heads my Shorthorn herd. C. E. Foland, Almena, Kan.

We Have 3 Shorthorn Bull Calves for sale. Got by a great grandson of Imp. White Hall Sultan and out of cows of the Lord Strathallen and Golden Fame strains. J. W. Liggitt & Sons, Almena, Kan.

Percherons--Shorthorns--Polands A few nice spring gilts, by Jumbo Prospect, by Luft's Orange for sale open or bred to order. C. E. Whitney, Almena, Kansas.

COL. W. M. PATTON, Livestock Auctioneer ALMENA, KANSAS Devoting my time to the business. Address as above.

COL. C. H. PAYTON Pured stock sales and big farm sales solicited. Write or phone. Address as above.
NORTON, KANSAS
L. J. Goodman, D. V. M. Lenora, Kan. Hog vaccination a specialty.

T. P. TEAGARDEN'S BIG DISPERSION

Wayne, Kan., Thursday, Jan. 25

High grade Holstein cows and heifers and one registered bull. Consisting of six two year old heifers giving milk and bred. Four yearling heifers and a few heifer calves. Two high grade Jersey cows and two Shorthorn cows, almost purebred, are giving milk and those that are not will be fresh by sale day. The registered bull was bred by L. F. Cory & Son.

Duroc-Jerseys

19 head of sows and gilts will be sold, all bred to farrow in March and April. They are as choice as any like number that will be sold in the West this winter. Mr. Teagarden is the well known pioneer Duroc Jersey breeder and has kept his herd well to the front. Also two valuable herd boars. Other horses and stock will be sold. For further information and literature address,

T. P. TEAGARDEN & SON, WAYNE, KAN.
Auctioneer—Jas. T. McCulloch. Fieldman—J. W. Johnson.

RED POLLED CATTLE.

FOSTER'S RED POLLED CATTLE Write for prices on breeding cattle. C. E. FOSTER, R. R. 4, Eldorado, Kansas.

RED POLLED cows and heifers, bred or open, also two May bull calves. I. W. POULTON, MEDORA, KANSAS.

MORRISON'S RED POLLS Cows and heifers for sale. Write us your wants. Chas. Morrison & Son, Phillipsburg, Kansas.

Pleasant View Stock Farm 20 Red Polled heifers and young bulls for sale; can furnish herds not related. Also Percheron horses and Poland China hogs. Halloran & Gambrell, Ottawa, Kan.

Riley County Breeding Farm

RED POLLS—PERCHERONS

25 cows and heifers for sale. Young bulls ready for service in the spring. Inspection invited. Ed. Nickelson, Leonardville, Kan.

HOLSTEIN CATTLE.

Registered Holstein bull calves for sale, from good cows. Wm. C. Mueller, Hanover, Kansas.

2 Registered Holstein Bull Calves for sale, of the best families of milking strains. W. T. LEWIS, HOWARD, KAN.

Choice High Grade Holstein Cows carrying second calf, will freshen soon. All well marked, tested by the Dickinson County Cow Testing Ass'n. S. H. LENHART, ABILENE, KANSAS.

Holstein Heifers to Freshen Soon One yearling bull, one eight months and one three. All registered. BEN SCHNEIDER, Nortonville, Kan.

Segrist & Stephenson, Holton, Kansas Prize winning registered Holsteins. Bulls from three months to yearlings for sale. Address as above.

HOLSTEIN CALVES high grade Holstein calves either sex, 3 to 4 weeks old, \$20 each. Express prepaid. BURR OAK FARM, Whitewater, Wis.

Registered Bull Calves for sale, from cows with official butter and milk records, also can spare a few cows. HIGGINSBOTHAM BROS., ROSSVILLE, KAN.

CHOICE HOLSTEIN CALVES 30 heifers and 2 bulls, 5 weeks old; nicely marked. \$20 each crated for shipment anywhere. EDGEWOOD FARM, WHITEWATER, WIS.

For Sale: 3 Registered Guernsey Bulls Glenwood breeding; 6, 10 and 16 months old. Write for description and photos. John Perrenoud, Humboldt, Kan.

Guernsey Bull BONNIES CHRISTMAS NO. 33805. Two years old and large, vigorous animal of good temper and exceptionally choice breeding without defects. Price reasonable. Address DANIEL BONTECOU, Parkville, Mo., R. 3.

BREED 'EM FROM SIR WALKER JOSIE 16 months old and very gentle. Carries prepotent ancestry for profitable producers and good udders. TREDICO FARM, Route 3, KINGMAN, KAN.

I Would Like To Sell ten cows and heifers, to freshen before March first, also seven yearling heifers. Most of these are choice. The cows and heifers are bred to a College bred bull. A. L. FELLOWS, CLAY CENTER, KANSAS.

BRAEBURN HOLSTEINS One service bull yet; eleven younger that cost less now than later both to buy. H. B. Cowles, Topeka, Kan.

LILAC DAIRY FARM TOPEKA, KANSAS, R. NO. 2
Breeders of Pure Bred Holsteins Bulls, from A. R. O. cows, all ages for sale.

Purebred Registered HOLSTEIN CATTLE Send for FREE Illustrated Booklet The Holstein-Friesian Association of America, Box 292, Brattleboro, Vt.

Sunflower Herd Holsteins KANSAS' GREATEST HERD Offers cows bred to 30 lb. sire. Bull calves from 30 lb. sire and A. R. O. dams. Might spare a few heifer calves. Buy the kinds that will make a profit on present high feeds. F. J. SEARLE, OSKALOOSA, KANSAS.

HOLSTEIN CALVES Choice bulls and heifers. 15-16ths pure. Beautifully marked, \$20 each, crated. Write us. FERNWOOD FARM, WAUWATOSA, WISCONSIN.

Holstein Bull of grand champion breeding. Sire, Sir Juliana Grace DeKol; dam, Johanna Lilly; both grand champions at the Oklahoma State Fair, at Muskogee in 1916. A beautiful individual, mostly white. Write for photograph and price. A bargain.

ALBECHAR HOLSTEIN FARM Robinson & Shultz INDEPENDENCE, KANSAS

When writing to advertisers be sure to mention the Farmers Mail and Breeze

son in Mr. Lonergan's care at Florence, Neb. Mention this paper when writing.—Advertisement.

S. E. Kan. and Missouri

BY C. H. HAY.

J. M. Nolan, the big Percheron and Belgian breeder and importer, of Paola, Kan., has over 60 head of top notch stallions, mares and colts in his barns at Paola and on the farm near by. There are several exceptionally fine stallions in this stud and they are being priced worth the money. To close up a partnership over 30 head of mares and colts must be sold before March 1. This bunch of horses will bear inspection and we suggest that anyone wanting Percherons or Belgians see them at the first opportunity.—Advertisement.

Polands Bred by Specialists.

P. L. Ware & Son of Paola, Kan., are specialists in the production of high class Poland China hogs. They breed a strictly utility type. A type that makes good under every condition. At present they have about 15 bred sows and gilts which they will sell at reasonable prices. These sows are bred to Miami Chief and Ware's Blue Valley. At the prices asked these sows will not remain long on the market so if our readers are interested they should write at once. Please mention Farmers Mail and Breeze.—Advertisement.

Horse and Jack Bargains.

I have on hand 30 big, Mammoth jacks, all black with white points with all the bone, height, quality and breeding you will find. Also some good jennets in foal. I have a lot of Percheron stallions, yearlings, weighing over 1400 pounds. Two year olds, blacks and grays, weighing over 1900 pounds. The big boned, wide-out kind, also 3 year olds weighing over a ton. A lot of big boned Percheron mares from colts to mares in foal. The big draft mares weigh from 1800 to 2100. Have several teams of 3 and 4 year olds that make up nicely that are showing colts. Write Al E. Smith, Lawrence, Kan.—Advertisement.

Big Draft Horse Sale.

The Illinois Horse Breeders Sales Company of which C. W. Hurt of Arrowsmith, Ill., is manager, will hold their annual sale this year on January 30 and 31 and February 1 and 2. The sale will be held at Bloomington, Ill., and the offering will include about 350 head of horses. There will be 200 imported and native bred horses of the principal draft breeds; 50 Shetland and Welch ponies and 50 grade draft, trotting, driving, saddle and all-purpose horses. The consignors for this sale include some of the best known breeders in the country. The quality is of the same high standard that Mr. Hurt has been offering for a number of years. Catalogs for this sale will be ready January 15. Write C. W. Hurt, Arrowsmith, Ill., and mention this paper.—Advertisement.

Shorthorn and Poland Sale.

E. E. Carver & Son of Guilford, Mo., will hold a sale of Shorthorn cattle and Poland China hogs at their farm near Guilford January 16. The Shorthorns selling are the good old fashioned big, rugged money making kind. There will be several cows with calves by side and rebred to their great Scotch bull, Prince of Quality. The balance will be young bulls and heifers. The Poland China sows and gilts are among the very best. They are of the best big type breeding, big enough for anyone, and at the same time they carry quality equal to those bred expressly for the show ring. They are bred for early litters to Alexis Again, by Trusty King and out this is a Big Orange dam, and Mastodon Big Bone, a grandson of the grand champion Long Big Bone. Alexis Again is a little under 2 years old and is one of the best boars Mr. Durbin ever bred. He is exceptionally strong in the back and will mature to better than 1,000 pounds. Mastodon Big Bone is a youngster of great bone and frame and a great herd boar prospect. Every Shorthorn breeder and Poland China breeder of the state should have one of Carver's catalogs. Write for it today. Please don't forget to mention this paper.—Advertisement.

Publisher's News Notes

Get a Kodak Book.

You've probably wished many times for a camera to take a snapshot of livestock, the house and barns, or the family. In after years these pictures bring up fond recollections, and are very interesting to the children, and to visiting friends. The oldest and most reliable optical and camera house in St. Louis, is offering free to Farmers Mail and Breeze readers their 48-page booklet, "Kodak on the Farm," showing actual pictures of farm life. If you have not already secured your copy, better drop them a postcard now while you're thinking of it. Just address "Erker's, 606 Olive St., St. Louis, Mo., and ask for the free booklet offered in the Farmers Mail and Breeze.—Advertisement.

I Wonder

I wonder if the roses know
The beauty and the charm they yield.
Or if the daisy how it decks
The gradual grayness of the field,
I wonder if the heart that sings
Hears how the other hearts it wakes
Are happy for the joy it brings
In what it does for others' sakes.

I wonder if the star's aware
Of the sweet content it spills
Upon the little lives of care
That catch its beauty on the hills.
I wonder if the violet feels
The tender and responsive gleam
Of love that in the woodland kneels
To worship at the shrines of dream.

I wonder if all beauty shares
The knowledge of the good that grows
From out its all-unconscious sweet—
The song of bird, the bloom of rose.
Or whether, it is not as when
Some life blooms like a flower
Moves gently 'mid its fellow-men
More like a perfume than a power.
—Baltimore Sun.

Acid soils need an application of ground limestone. There is a great deal of soil in this condition in Southeastern Kansas.



THE HOLSTEIN-FRIESIAN ASSOCIATION OF KANSAS

as an organization offers nothing for sale but desires to supply valuable information free to prospective buyers. The object of this association is to protect the interests of the breed in Kansas. Are you a member?

Write W. H. MOTT, SECY., HERINGTON KANSAS

NORTHVIEW HERD OF HOLSTEINS

Start the new year right. Get the best—the cheapest in the long run. Three year old heifers due to freshen soon. Large, well marked and well bred. Registered bulls.

LACKLAND BROS., AXTELL, KANSAS, (MARSHALL COUNTY)

40 Head High-Grade 2 yr. old Holstein Heifers For Sale

every one a good one, due to freshen early this fall; bred to a pure bred Holstein bull; sold under a positive guarantee to be just as represented, or animal returned and money refunded. See photograph of Canary Butter Boy King, the bull that stamps superiority on every calf that he sires. He is the herd sire at the Maplewood Farm. We have five young bulls for sale, nearly ready for service. Come or send your order at once.

W. H. MOTT, HERINGTON, KANSAS



HOLSTEINS

Choice cows and heifers showing in calf to pure bred bulls. Selected for size, color and milk production, from the best dairy herds of the east. You will find nowhere a better herd from which to select. Prices reasonable. Write, phone or wire.

J. C. ROBISON, BOX A, TOWANDA, KAN.

In 1887 Lee Bros. father brought the first imported Holstein cows to Wabaunsee county. In 1916 Lee Bros. & Cook have the largest pure bred and high grade herd in Kansas.

200 Holstein Cows, Heifers and Bulls

Registered and High Grade. 3 Cows and a Registered Bull \$325

We are selling dealers in Kansas and Oklahoma. Why not sell direct to you? 100 cows and heifers that will freshen in 30 to 40 days, all bred to A. R. O. bulls. We have others to freshen on up to March. We have A. R. O. bulls from calves up to three year olds. Bring your dairy expert along, we like to have them do the picking. Every animal sold under a positive guarantee to be as represented. Well marked, high grade Heifer and bull calves from 2 to 8 weeks old. Price \$22.50 delivered any express office in Kansas. We invite you to visit our farm and can show you over 300 head of cows and heifers, sold to our neighbor farmers. Wire, phone or write when you are coming.

LEE BROS. & COOK, Harveyville, Wabaunsee Co., Kan.



TORREY'S HOLSTEINS

Cows and heifers, young springing cows well marked and exceptionally fine; also springing and bred heifers and registered bulls. See this herd before you buy. Wire, phone or write.

O. E. TORREY, Towanda, Kan.

Clyde Girod, At the Farm.

F. W. Robison, Cashier Towanda State Bank.

Holstein Friesian Farm, Towanda, Kan.

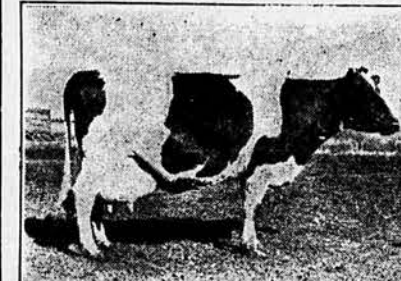
Pure Bred Holsteins, all ages, strong in the blood of the leading sires of today, headed by Oak De Kol Bessie Ormsby 156789. Special offering in choice young purebred bulls, ready for service, from tested dams. Let us furnish you a bull and improve your herd. TWENTY-FIVE purebred females, young useful Holsteins with A. R. O. records from 12 to 26 lbs. butter in seven days.

BEFORE YOU BUY, TALK WITH US

We have an especially large, choice selection of extra high grade young cows and heifers due to freshen this fall and early winter, all in calf to purebred bulls. These females are large, deep bodied, heavy producers, with large udders, all well marked individuals and the right dairy type. Our offerings are at prices that challenge comparison for Holsteins of their breeding and quality. High grade heifer calves \$25. Send draft for number wanted. Let us know what you want in Holsteins, and we will be pleased to send you descriptions, and prices. Keep us in mind before purchasing. Wire, write or phone us.

GIROD & ROBISON, Towanda, Kansas

OAKWOOD STOCK FARM COWS



50 HOLSTEIN COWS—50 JERSEY COWS and HEIFERS. All fresh now and in January.

This is an offering at private sale of high grade cows and heifers that should be investigated by anyone wanting to buy. They are freshening now and all will be fresh by the middle of January. Many of them are high testing cows with records of from 40 to 60 pounds of milk per day. All tuberculin tested. Information gladly furnished by return mail. Visitors met at Salina in auto. Farm two miles out. Bank references if desired. Bring your neighbor and we will get together on prices. Phone 1819 F-2. Address

M. E. Peck & Son, Salina, Kan.

SHORTHORNS

Scotch and Scotch Topped

Six bulls from six to 13 months old. Reds and Roans. Sired by Scotch Pride, wt. 2200. Prices reasonable considering breeding and individual merit.

E. P. FLANAGAN, CHAPMAN, KANSAS (Dickinson County)

SHORTHORNS

Private Sale

Seven bulls from eight to fourteen months old. Also cows and heifers. Shipping point Wamego. Oldest herd in Potawatomi county. Address

W. T. Ferguson, Westmoreland, Kan.

SHORTHORN CATTLE.

PURE BRED DAIRY SHORTHORNS

Double Marys (pure Bates) and Rose of Sharon families. Offer: 3 year old herd bull. A snap. **R. M. ANDERSON, BELOIT, KAN.**

SHORTHORNS 10 young red bulls for sale, 8 to 12 months old, sired by Duchess Searchlight 348529, the 2500 lb. bull, and out of Orange and Gloster cows, weighing from 1400 to 1600 pounds. **A.M. Markley, Mound City, Kan.**

OUR HERD BULL

Abbotsford Lad 2, 385841, a pure Scotch bull, three years old, deep red, good disposition and a good breeder. We are keeping every heifer he has sired. Priced to sell quick. Also bull calves six to 10 months. **Chester A. Chapman, Ellsworth, Kansas**

SHORTHORN BULLS

10 young bulls 8 to 12 months old, reds and roans, sired by a son of Victor Orange and out of cows by Colynie, Hampton and other good sires. Priced for quick sale. Write today. **Edward Cooke & Son, Freeport, Kansas**

GOODLIGHT 367939

by Searchlight 292031, my 4-year old Short-horn herd bull, is for sale. I am keeping all his 2-yr.-old and yr. heifers. A magnificent breeder. Address **A. H. Cooper, Natoma, Kan.**

Cedar Wild Knight

a 2-year old grandson of Gallant Knight, is offered for sale. Also two, 7-months-old, grandsons of the champion True Sultan. Address **JOS. BAXTER, CLAY CENTER, KAN.**

SALTER'S SHORTHORNS

12 young bulls 6 to 12 months old; Scotch and Scotch topped. One three year old herd header, by Prince Pavonia. These young bulls are by such sires as Rosewood Dale, by Avondale, Silver Hampton and Master of the Dales; also cows and heifers, Scotch, Scotch topped and plain bred in calf to our great herd bulls, but priced so both farmer and breeder can afford to buy. Visitors always welcome. Phone Market 3705. Address, **PARK E. SALTER, 203 BITTING-BUILDING WICHITA, KANSAS**

Cedarlawn Shorthorn Bulls

For Sale: The two year old herd bull, Mystic Victor, by Vain Victor, by Barmpton Knight. A valuable tried bull sold guaranteed in every way. Young bulls from six to ten months old. Address **S. B. AMCOATS, CLAY CENTER, KAN.**

Scotch Bulls for Sale

Three pure Scotch bulls from 12 to 15 months old. Also two bulls that will be a year old in the spring. Write for descriptions and prices. **P. M. Borland, Clay Center, Kansas**

Shorthorn Bulls

12 that will be ready for service in the spring. Four of them polled and eligible for registry in the Polled Durham book. Priced to sell and they are good ones. Address, **V. A. Plymat, Barnard, Kan.**

Scotch and Scotch Tops

A choice lot of young bulls from 8 to 10 months old for sale. Sired by **Valiant 346162 and Maringo Pearl 391902.**

A number of pure Scotch bulls in this offering. For further information address, **C. W. Taylor, Abilene, Kan.**

Salt Creek Valley Private Sale

25 Shorthorn bulls from six to 12 months old. Also a good three year old bull. All sired by Barmpton Model 338998, by Barmpton Knight. Good breeding and plenty of quality. Inspection invited. Write for further information. Address, **E. A. Cory & Sons, Talmo, Kan. (Pioneer Republic County Herd)**

GREATEST BULL OFFER

10 extra choice bulls 15 to 18 months old.
10 from 6 to 12 months old. Reds and Roans.
All have from four to six top crosses. If you come you're sure to buy. Address, **W. F. BLEAM & SONS, BLOOMINGTON, KAN. (OSBORNE COUNTY)**

The Market Ignores Peace Talk

(Owing to the fact that this paper is necessarily printed several days prior to the date of publication, this market report is arranged only as a record of prices prevailing at the time the paper goes to press, the Monday preceding the Saturday of publication.)

Diminishing receipts and continued foreign buying kept the wheat market strong, in the main, last week, tho there was a good deal of irregularity in the movement of prices, the result of peace talk. Final prices were about 6½ cents higher than a week ago for May delivery and up about 3 cents for July contracts.

Most of the week's advance occurred Saturday, due mainly to foreign buying and the expectation that the movement from the country will be small next month.

Persistent tho vague talk of movements for getting the warring nations together for a peace conference acted as a restraint on speculative buying and trade was smaller than usual, but the persistent reports of export business, accompanied by evidence of purchases of futures to remove hedges on wheat sold to foreigners, accounted for the strong tone of the market.

The official statement of exports for five months ending with November shows a total of 78 million bushels, including flour shipped out in that time, and the December exports probably were enough to raise the total for the first half of the crop year to 94 million bushels. On the basis of the revised crop estimate the United States had an exportable surplus of about 130 million bushels, of which about 94 million bushels already has been shipped, and probably the balance is owned by foreigners and will go out as fast as ships can be obtained.

The probabilities are that the exports for the year will amount to a good deal more than the theoretical surplus. That is the usual experience in a year of short crops and high prices. A substantial increase could be granted and still leave a very strong market situation, especially in view of the fact that the winter wheat crop on an important area has made a good start. There is no present likelihood that importing countries will not need all the wheat they can get in the United States.

Foreign advices indicate an increased movement from other sources than North America. Argentina shipped 2½ million bushels last week, a very large quantity considering the fact that the new crop as officially estimated is less than half that of a year ago. Offerings from Australia and India also are increasing. There was no report of shipments from these countries last week, but in the preceding week they exported 2½ million bushels.

Corn prices moved narrowly all week, closing without important net change from those of a week ago. The high prices are sustained by persistent smallness of receipts and abnormally high European prices, tho actual export business is small. Clearances from the United States last week were only 102,000 bushels. No. 2 American mixed corn was worth \$1.90 a bushel in Liverpool Saturday, 97 cents above the Chicago May price, about 18 cents more than the margin on wheat between the two markets. It is rather puzzling, in the light of these figures, why England isn't taking more corn and less wheat from the United States.

The light receipts of cattle made competition between killers active and prices for fat steers rose 25 to 35 cents, and Friday's trade was the most active of last week. The record price of the season, \$11.50, was paid in Kansas City for 3 carloads of steers, full fed, since October 10, that weighed 1,392. Most of the other steers sold at \$8 to \$10.50, and the lowest priced classes had had little dry feed. Some hay fed Idaho steers sold at \$9.35, and a half dozen loads from Western Nebraska, fed sugar beet pulp, brought \$10.10 to \$10.20. Feeders from those sections say cattle will move 60 days earlier than usual if prices remain higher. Reports from the corn belt are that short feeding will be the rule this winter, and few prime steers are expected.

Prices for cows remained firm and heifers were quoted 15 to 25 cents higher. Veal calves and bulls were quoted steady. Heifers sold up to \$10.50 and cows up to \$8.25.

Trade in stockers and feeders was limited by the small supply. Prices were firm. There is a good demand for heavy steers for short feeding. Stock calves sold slowly.

Thursday hogs sold up to \$10.60, or 30 cents above the previous week, and \$2 higher than in any previous December. Shipping demand is continuing later than usual, and packers report large demand for cured and fresh pork. Weight in hogs remains below normal. Because of the scarcity of feed receipts are expected to continue large thru January, and to drop off soon after.

Receipts of livestock last week, with comparisons, are here shown:

	Last week.	Previous week.	Year ago.
Cattle—			
Kansas City	14,850	50,100	17,950
Chicago	47,400	66,000	43,000
Five markets	101,950	188,600	98,600
Hogs—			
Kansas City	35,750	75,000	42,000
Chicago	195,000	277,000	147,000
Five markets	366,650	581,900	338,900
Sheep—			
Kansas City	30,000	36,825	20,250
Chicago	50,000	81,000	57,800
Five markets	131,650	173,575	131,750

SALE OF Holstein Friesian Cattle

Council Grove, Kan., Wednesday, Jan. 17



60 head of high grade cows and heifers, all heavy springers, with the exception of 10 head of heifers bred by the Haskell Institute of Lawrence, Kan. These heifers are long yearlings, due to freshen next summer; they are consigned by W. H. Dodderidge of White City.

Frank Meyers of Belvidere, Ill., has consigned 25 head of as choice Holstein cows as ever come to Kansas. All bred to registered Holstein bull and due to freshen soon.

Lester Lowe of Council Grove, is consigning 25 head of two-year-old heifers all heavy springers. The extra large growthy kind, combining type and constitution.

This will be a sale in which every animal is sold with a positive guarantee to be as represented. It will be an excellent opportunity to buy the best grade Holsteins that can be bred at your own price. There never was a time when the future outlook for dairy business was as good as it is today.

The sale will be held in the new sale pavilion at Council Grove, rain or shine; plenty of seating room and accommodation to make everyone comfortable. Sale to begin at 1 o'clock.

For detailed information concerning this sale write to the Holstein sales manager,

W. H. Mott, Herington, Kansas

C. C. Calkins' Shorthorn Sale

At the farm. Autos or teams will meet trains at both Burlingame and Harveyville. The sale will be held in comfortable quarters and a hot dinner will be served at the farm.

Burlingame, Kan., Thursday, January 18

32 head of cows and heifers, all of Mr. Calkins' own raising and combining the breeding of several noted Shorthorn families.

14 cows in the prime of their usefulness that will drop calves between now and June first. 13 two year olds and yearlings, sired by Mr. Calkins' herd bull Favorite 375436, by Milkman, he by the great show bull Cyrus Clay 247916. Three young bulls that will be ready for service in the spring and a splendid two year old bull that is an attraction in this sale. The cows were sired by Ivanhoe 309090, a great Scotch bull of the Violet tribe, bred by Andrew Pringle. All of the young stock are by Favorite, a ton bull, in good flesh. Everything sold will be in very ordinary flesh and not highly conditioned for the sale.

Percherons 1 stallion colt, 2 years old in June, sired by Scipion and out of a Casino dam and a filly same age, sired by Scipion will be sold. Also 10 head of young high grade Percherons will be sold.

For a catalog, which is ready to mail, address,

C. C. Calkins, Burlingame, Kansas

Auctioneers—Chas. Crews, J. W. Busenbark. Fieldman—J. W. Johnson. When asking for the catalog mention this paper.

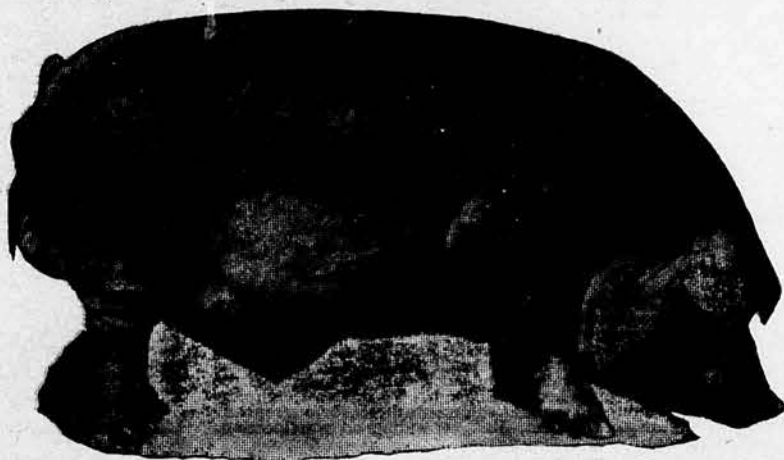
Illustrator Bred Sow Sale Circuit

ATTEND BOTH SALES ONE EXPENSE

Briggs' Illustrators At Auction

AT FARM NEAR TOWN

Clay Center, Nebr., Monday, Jan. 22



50 HEAD, ALL IMMUNE Sired by ILLUSTRATOR 2D OR BRED TO HIM. 10 fall yearlings and tried sows. 40 spring gilts, the tops from 80 head. Those by Illustrator will be bred to our new eastern boars, JOE ORION 5th, son of the grand champion, International boar, Joe Orion 2d, and JACK ORION, by Jack's Friend, by Joe Orion. We have selected these young boars especially to cross on Illustrator 2d gilts and expect splendid results. The gilts are well grown and first class in every way. Write for catalog and mention Farmers Mail and Breeze.

GEO. BRIGGS & SONS, CLAY CENTER, NEBR.
Col. N. G. Kraschel, Auctioneer.

Deets' Illustrator Bred Sow Sale

Kearney, Nebr., Tuesday, Jan. 23



50 HEAD, ALL IMMUNE 25 tried sows and fall yearlings. 20 spring gilts, all sired by DEETS' ILLUSTRATOR 2d. 7 spring gilts, litter sisters, sired by the \$2,000 Illustrator. Most of the fall yearlings and tried sows will be bred to Deets' Illustrator and the spring gilts to our young, eastern boar, a son of ORION CHERRY KING, sire of ORION CHERRY KING JR., grand champion at International swine show. We are selling a lot of strictly tops and want you to read catalog carefully. Write early for it and mention Farmers Mail and Breeze.

H. A. DEETS, KEARNEY, NEBRASKA.
Auctioneers: A. W. Thompson, Joe Shaver.

Jesse Johnson will attend these sales, Send him Bids in care of either party.

CARVER & SON'S Shorthorn and Poland China Sale

Guilford, Mo., Tuesday, Jan. 16

23—Registered Shorthorns—23

Consisting of young bulls, heifers, and cows. Some of the cows have calves by side and are rebred to the great Scotch bull, Prince of Quality. An all around good, useful lot of cattle.

25—Big Type Poland China Sows—25

Consisting of tried sows, fall yearling gilts and spring gilts. They are the big and prolific kind, with quality of the show type. Their breeding could not be improved and they are bred for early litters to two of the best boars we could find. Alexis Again 77145 by Trusty King and out of a dam by Big Orange, is one of the best boars Mr. Durbin ever bred. Mastodon Big Bone, by Big Bone Model, by the Grand Champion Long Big Bone is a youngster of great scale and a great prospect. This is the greatest lot of sows we ever sold and we doubt if there will be a better lot sold this year.

Write for our catalog. Remember it's the early bird that catches the worm and this is one of the first sales of the season.

C. H. Hay, Fieldman, for this paper. Cols. Gibson, Hosmer, Class auctioneers.

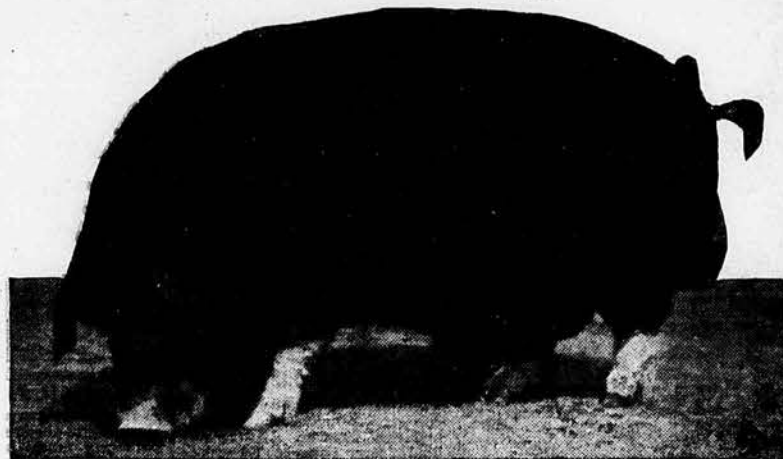
E. E. CARVER & SON, Guilford, Mo.

Send bids to C. H. Hay of this paper in my care.

Lonergan's Annual Poland China Bred Sow Sale

In pavilion at

Florence, Neb., Tuesday, Jan. 16th



Big Ursus, the 1000 lb. grand champion at Nebraska State Fair, 1914.

50 HEAD IN ALL, THE LONERGAN KIND. Many are the get of the grand champion sire **BIG URSUS** and a big lot of the offering are bred to him and his best son **MODEL URSUS**. The offering of 25 tried sows and fall yearlings and 25 spring gilts were sired by the boars mentioned, **KING GIANT** and **CHIEF COLUMBUS 3d**. Some are bred to **BIG KING BOB**, a grandson of Siever's Big Bob. On dam's side they trace to **BIG VICTOR**, **GUY'S PRICE 2ND**, etc. Write for catalog and mention Farmers Mail and Breeze.

D. C. LONERGAN, Florence, Neb.

W. B. Duncan, Auctioneer. Jesse Johnson will represent this paper. Send him bids in my care at Florence.

"THE GREAT PRICE WRECKERS"

NOW Is The Time To Build Or Improve!

SHARPLES
TUBULAR "A"
CREAM SEPARATOR
at Tremendous
PRICE
REDUCTIONS!

**MOST WONDERFUL
OPPORTUNITY OF ALL
SEPARATOR HISTORY**



You Now
SAVE

\$20 to \$50

**30-DAY
FREE TRIAL
Satisfaction
or
MONEY BACK**
Sold on
Easy Time
Payments

P. M. SHARPLES

— the highest cream separator authority in America and President of the Sharple's Separator Company has selected Harris Brothers Company to dispose of their entire stock of Sharple's Tubular "A" Separators, acknowledged everywhere by men who know, the best fixed-feed separator on the market.

They chose us for this great public service because of our time-tried reputation through 24 years honest public dealing. They knew we were best equipped to quickly market these separators on exactly the same guarantee well and favorably known to over a million satisfied users.

On This First And Only Tremendous Cut In Price Offer Thousands of Farmers and Dairy-men Will Quickly Take This Entire Lot of Genuine Sharple's Tubular "A" Cream Separators.

Our Exclusive Offer:

The tremendous cut in prices on all sizes enables you to buy your Sharple's on 30-day FREE trial, paying cash when you are satisfied—or on easy time payments if you wish.

This is What You Save

Size	Cap. Lbs.	per Hour	Regular Price	Our Price
No. 2	300		\$ 55.00	\$32.75
No. 3	400		65.00	40.00
No. 4	500		75.00	45.00
No. 6	700		90.00	52.50
No. 9	950		110.00	70.00

Honest Ratings Guaranteed

The Double Guarantee
Harris Brothers with Sharple's

Both the Sharple's guarantee which has protected a million Sharple's users everywhere for thirty-five years and Harris Brothers well-known satisfaction or money-back guarantee which has protected farmers and dairymen for twenty-six years in purchases of many million dollars go with your Sharple's.

For Quick Sale and Immediate Delivery—No Matter Where You Live. Act At Once. Don't Risk the Disappointment of Failing to Get Your Sharple's Now. Tear Out, Fill In and Mail the Coupon Below or Write a Postal or a Letter For All Facts Today.

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Standard Wire Nails in 100 lb. kegs. Sizes from 8d to 6d mixed. Order No. DC-30 Price \$225

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24c per Rod

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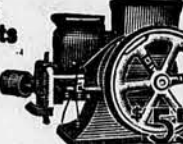
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