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Kansas Orchard Men Meet

Members Boost for Increased Support from State

BY G. C. WHEELER

GARDEN products to the value of \$694,000 were produced on 3,710 acres of Shawnee county land the last year, said H. L. Rude, the well known truck gardener in addressing the 53rd annual meeting of the Kansas state horticultural society held in Topeka last week. This meeting was well attended and the papers and discussions were most valuable to those interested in growing fruit and vegetables. More than the usual number of the younger men engaged in horticultural work were present. It seemed to be the feeling that this branch of agricultural production is being given too scant attention in this state.

Mr. Rude, who is ably qualified to speak with authority on the importance of trucking crops in the United States, believes that the commercial market gardening of the Kaw Valley and Eastern Kansas could be greatly increased and with profit.

Farm Orchard Asset or Liability

Prof. B. S. Herrick of Iowa maintained that every farm should produce enough fruit for home consumption but that proper care must be given to the home orchard or the trees had better be chopped down. An unsprayed, unpruned orchard may easily become a liability instead of an asset. He showed by a chart that four sprays in 11 different orchards under the supervision of the county farm bureaus gave returns of 134 bushels of apples, 74.37 per cent clean and free from worms from 19 trees, while 19 trees unsprayed had only 52 bushels of clean apples. The sprayed trees produced an average of 7.05 bushels worth \$2 a bushel or \$14.10 a tree.

The unsprayed trees produced but 2.75 bushels of apples to the tree, worth \$1.00 a bushel or \$2.75. An itemized statement of the cost of spraying showed that it amounted to only 60 cents a tree. The net returns of the sprayed tree over the unsprayed amounted to \$10.75.

Acre Orchard Being Started

E. G. Kelly from the extension division of our Kansas Agricultural college told of the work being done on the acre orchards. This was adopted as a farm bureau project for 1919 by 12 county farm bureaus of the state. Over 50 of these acre orchards were started last spring on the farms of co-operators, the trees being provided by the extension division and set on the various farms in April. From 30 to 60 farmers of the respective neighborhoods were usually on hand to see the trees set. This coming year many more acre orchards will be started on the same plan.

H. C. Irish who has had charge of the school garden work in St. Louis pointed out that the logical way to bring about an increased interest in fruit and vegetable production and teach the methods necessary to bring success was to begin with the boys and girls in the schools. He told in a most interesting manner how this has been done in St. Louis. L. C. Williams of Manhattan, who has had charge of the school garden work for the boys' and girls' club department of our agricultural college, reported that 3,000 boys and girls enrolled for the work last spring and that 125 of these club members sent exhibits to the state fairs which won \$500 in premiums. An Anderson county girl won \$45 and 30 ribbons with exhibits of garden products.

Orchards Must be Sprayed

"Let us spray," is an injunction coming with increased force each year as the Kansas horticulturists assemble for their annual meeting. Charles Wells, a young fruit grower from LeCompton, described in a most clear and concise manner the methods he and his father have adopted in their orchard work. He spoke of the machinery necessary, the time to spray and explained exactly what was to be accomplished by each operation. The dormant spray was urged as almost necessary to the control of fungous diseases which are most easily attacked when there is no foliage on the trees. A strong spray must be used and ap-

plied with high pressure. Mr. Wells advocated the use of 1 gallon of the commercial lime-sulfur to 10 gallons of water for the dormant spray with the addition of 4 pounds of lead arsenate paste to each 100 gallons of the mixture to hold the solution on the tree. It should be applied just before the buds start to swell.

Preventing Pear Blight

A unique method of preventing pear blight was offered by Amos Hartley of Vassar. The pear blight is exceedingly difficult to control. Mr. Hartley reported that he had been successfully growing pears on a few trees for a number of years. Five of these trees had been set 22 years, two 20 years, and three 18 years. They have borne good crops for several years and there have been no signs of blight.

Mr. Hartley said that only strong vigorous trees should be set. The hole should be dug of ample size. Good top soil is worked to fine condition and used to cover the roots. Then a mixture of one-third iron chips and two-thirds unleached ashes, bulk measure, is spread in a layer 1/2 to 1 inch thick. Then a 3-inch layer of soil and another layer of the iron and ashes until the hole is filled, finishing with a layer of soil. Mr. Hartley also recommended burying some iron scraps about the trees occasionally.

Bees Help in Pollination

The importance of bees to the orchardist was pointed out by Prof. Leonard Haseman of Missouri University, entomologist and bee inspector for the state. He gave the life history of bees and explained how they helped to pollinate the fruit bloom so that a good crop will set, stating that in the West it is a common practice for orchardists to pay \$5 a colony for the services of bees for this purpose.

The Welborn community market in Wyandotte county has had another successful year, and J. M. Butler, its manager, who told the horticulturists at the meeting of a year ago of the beginnings of this co-operative effort spoke briefly on the work of the past season. The shed has been extended to 126 feet in length and provides stall space for 32 wagons. Mr. Butler estimated that \$70,000 worth of vegetables and fruits had been sold in this market during the past season. In August the wagon fees collected at 25 cents each amounted to \$307. The market purchased almost \$3,500 worth of baskets and crates for the use of its customers.

The state entomologists, Prof. G. A. Dean and Prof. F. J. Hunter, both presented reports at the meeting, and there were a number of other important papers and addresses which cannot be mentioned from lack of space.

By no means the least enjoyable event of the meeting just closed was the banquet given at the close of the second day's session. This was a veritable love feast for the members and visitors in attendance. Frank Dixon of Holton is a born humorist as well as a good all-around horticulturist and as toastmaster he found an outlet for the expression of his genial wit and good natured raillery.

George Holsinger, president, and O. F. Whitney, secretary of the Kansas state horticultural society, worked hard to make this year's meeting a success, and they were warmly commended for the high character of the program and the excellent interest taken. In later issues we hope to print some of the valuable material presented at this meeting.

The Kansas Bee Keepers association meeting merged with the meeting of horticulturists, the closing addresses of the one being the opening of the other. The bee men reelected O. A. Keene, of Topeka, president, and O. F. Whitney secretary. Dr. J. H. Merrill, of Manhattan, will represent the association at the national convention to be held in Kansas City, January 6-9.

We have noticed that folks who accomplish the most in this world are those who have a certain set time for each duty, that is, a time to work and a time to play.

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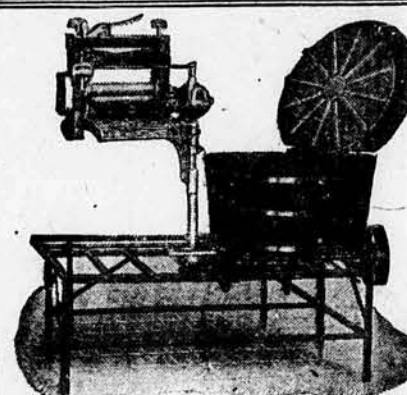
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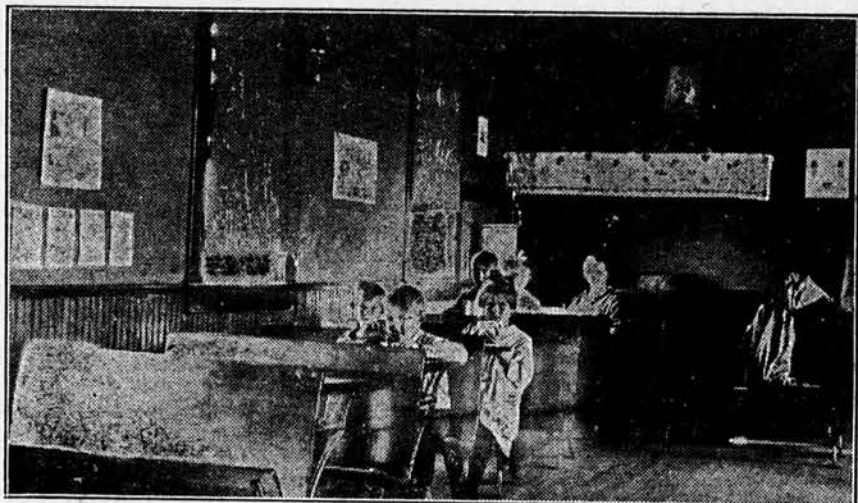
KANSAS FARMER and MAIL AND BREEZE

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A Hot Lunch For Schools

By Mrs. Ida Migliario

IT MAY NOT be possible for a rural school to install a cafeteria for the hot lunch, but it is easy to provide a way for the boys and girls to have a hot dish to be eaten with the cold lunch brought to school with them.

Meade county is making great progress in this line and several of its rural schools are serving a hot dish at noon. Miss Ethel McDonald, county home demonstration agent, and Miss Ola Granger, county superintendent, have been instrumental in bringing before the parents in the school districts the importance of the children having something hot to eat at noon. There is a great need for this because the diet of school children is seldom what it should be; this fact may often explain the cause of illness among them. The average child in Kansas has plenty of food at its disposal, but it is the manner in which it is disposed that is causing the trouble.

Practical Lesson for Parents

We all know the "hurry-flurry" to get off to school in the morning. Few children have time to sit at the table and eat their breakfast. It frequently is a matter of grabbing something as they pass the table and eating it as they trudge off down the road. Then at noon they eat a cold lunch. When they reach home in the evening they are hungry and they make a raid on the cookie jar, or jam pot, and eat a quantity of sweets—then at supper they are not hungry. And so the day has passed without their having a hot meal; and the next morning if they happen to get up late the same thing occurs.

The parents living in the school districts of Meade county have the opportunity of hearing about this need and at the same time seeing how easy it is for the teacher to arrange for the preparation of the dish. Miss McDonald is placed on the program given by a school at one of the pie or box socials, and she not only talks about the need for the hot dish, but she also prepares hot cocoa for the guests to drink with their pie or supper. Thus the parents not only see the ease with which this is accomplished but they also realize how nice it is to have a hot drink with the cold meal.

There are three ways of financing this work. Perhaps the most satisfactory is that of the school board setting aside a certain sum for the purchase of supplies. Another method is charging every child 2 or 3 cents for the dish served. Still another means is that of the children bringing the supplies; for instance, if the hot dish is to be tomato soup one child could bring the tomatoes, and another the milk and so on. The mothers can easily send the utensils for it does not take many for the preparation of one dish. In Meade county the schools are all heated by some one of the heating and ventilating systems so it is not possible for the heating stove to be used for the cookery of the dish. In this case an oil stove has been furnished by the parents. There usually is a farm home in the district that has an oil stove which is not used in the winter, so it might

hot dish with a great deal of success. In this district the school board bought 1 box of crackers, a 25-pound sack of flour, \$2 worth of sugar, 1 bushel of potatoes, \$1 worth of navy beans, 1 box of spaghetti, 1 dozen cans of tomatoes, 1 5-pound can of cocoa, and salt, pepper and cinnamon. It also bought two dish pans, and one paring knife. Some of the mothers provided kettles, and another lent the use of her stove. The mothers also take turns in providing the butter and milk needed in the preparation of the various dishes. If some dish is to be prepared for which they have no supplies, arrangements are made for taking turns in providing them.

Miss Neva Ross, the teacher in this school, has the plan of work well arranged. The older girls do whatever preparing is necessary at recess, and put the food on to cook. At noon it is only a matter of finishing the dish and serving it. In serving, the white paper napkins are placed on the desk with the china needed for the lunch, the children bringing their own china with them—this is, of course, left at school. The boys and girls after getting their own lunch box and arranging their food on the napkins form a line and pass to the stove with their dishes, where the girls who did the cooking serve them.

The boys volunteered to take turns at washing the dishes and sweeping the floor. Miss Ross said the boys agreed among themselves that if the girls did the cooking it was only right that they should wash the dishes. So after all the children have finished the lunch two boys gather up the dishes, wash them and put them away, and another boy gets the broom and dust pan and sweeps up the crumbs, while the girls are outdoors playing. The boys take turn about in washing and drying the dishes and there is never any argument as to whose turn it is. When one of the boys was asked how he liked the extra work of washing dishes he said, "Oh! that hot dish is worth it and we figure we ought to do our share."

Miss McDonald gives to the teacher a list of suggestions that will help her in planning the work and in getting a variety of dishes that will be suitable to conditions and the needs of the children.

For the first week it is suggested that on Monday, cocoa be prepared; Tuesday, potato soup; Wednesday, macaroni with tomato sauce; Thursday, creamed salmon on crackers;

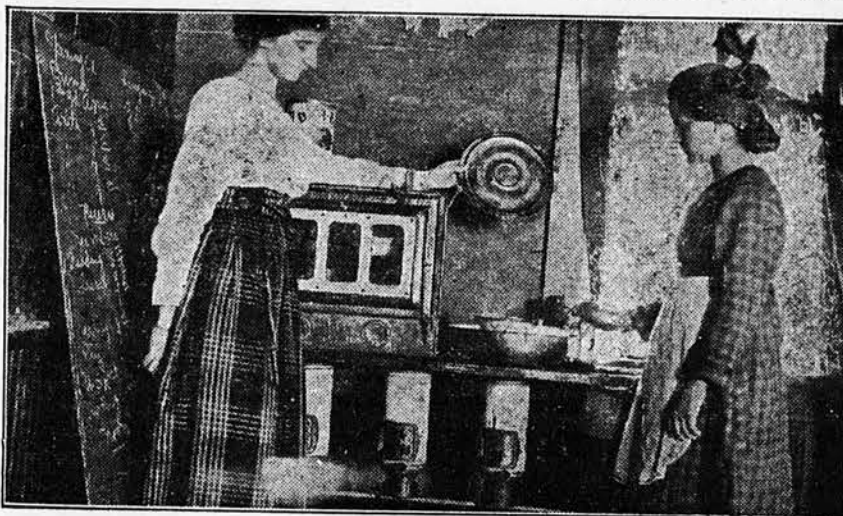
and Friday, tomato soup. For the second week, one of the following dishes for each day, creamed potatoes, vegetable soup, boiled rice with custard, milk toast and soft custard. Additional dishes that may be made where an oven can be obtained are baked potatoes, scalloped potatoes, tomatoes, corn, baked custard, baking powder biscuits with sirup, muffins, gingerbread, cornbread, baked beans, baked apples and so on. To make it still easier for the teacher who is taking up this work for the first time, Miss McDonald supplies her with recipes for the dishes suggested, and advises concerning the number of people the recipe will serve.

Many counties in Kansas are insisting that the hot dish for the noon meal be served in their rural schools, but every rural school in every county should be getting the benefits of this important detail in the diet of the school children. Teachers who have given it a fair trial say it is educational economy for the children do not grow restless and drowsy after having eaten hot food at noon, and they do as good a grade of work in the afternoon as they do in the morning.

Special Training Not Indispensable

Many times the teachers of the rural schools have not had special training in home economics and they feel it is impossible for them to attempt the management of the preparation of a hot dish along with the regular schedule of work. Naturally it is a little more difficult for the untrained but it is by no means impossible. There are plenty of bulletins published by the various institutions which teach home economics and these are at all times at the service of those who need them.

That the boys of Meade county are vitally interested in this movement was proved Armistice Day at the celebration when a bright faced lad stepped up to Miss McDonald and said in rather an abrupt manner, "Say, out at our school we've cooked all you said for the first week, what shall we do for the second week?" Needless to say the following day Miss McDonald drove 18 miles to the school and delivered the suggestions for the second week's work, that the children might not be deprived of the hot dish which they were evidently enjoying to the fullest extent. She was fully repaid for her efforts.



The Lunch is Prepared by the Older Girls Under the Direction of the Teacher; it is Served on the Desks With Paper Napkins.

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Passing Comment—By T. A. McNeal

DECLINES in the prices of all farm products of from 9 cents to several dollars have followed the war on profiteering with a drop to date of only one-half of 1 per cent in food prices to the consumer. So far it's the consumer's best friend—the producer, the innocent bystander—who has been hit. Farmers are selling their grain-fed beefs for less than it costs to produce them. The price of a single pair of shoes will keep one person in bread for a whole year at the farmer's price for wheat. The wheat-grower never has been benefited by the wheat guarantee. The real profiteer cannot pass the buck to the farmer. Besides food at H. C. L. prices now is barely half the cost of living.

The New Year

I AM NOT at all certain that it is worth while to spend time speculating about the future. Certainly it is not worth while further than to review the mistakes you have made in the past and determine as well as you are able, how you can avoid making them or others in the future. I do not know whether the new year that will be on hand in five more days, is to be a good year, or not. Neither do I think any other person knows. I have for the past four years been receiving a great many predictions from people who think they have unraveled the prophecies of the Scriptures and know just what they mean and how and when they are to be fulfilled. My personal opinion is that they know no more about these prophecies or what they mean than I do, and I do not pretend to know anything about them. Neither indeed am I very greatly concerned about what some Hebrew said 3,000 or 4,000 years ago. Whether Daniel, for example, really saw the future unrolled before him I do not know and neither do I particularly care. Some of my correspondents are satisfied that the end of the world is near. I do not believe that, but then I do not know anything about it, and if it is I cannot at this time figure out any way to check the conflagration or explosion or whatever the wind-up may be. I am, however, much interested in the present and the probabilities as I see them for the immediate future. Of one thing I am mighty glad at the end of this remarkable and trying year, and that is that it was my good fortune to be born in America, in the United States and in this great republic. Of all the persons of the earth, I am satisfied we here in the United States are the most fortunate. I have been reading the experiences of Americans who have traveled in different parts of Europe. They use different forms of expression and have seen conditions from somewhat different angles, but they generally agree on one conclusion, that the situation in some parts of Europe is awful almost beyond the power of imagination to conceive and that in no part of Europe is anything like the prosperity that prevails generally in the United States. It is safe to say that the poorest in this country are better off than the average residents of many of the European countries. Unfortunately the end of this deplorable condition is not yet. There is every reason to expect that within the next few months hundreds of thousands of men, women and children in Europe will die of starvation or of the diseases resulting directly from malnutrition. The people who are nearly dead have succumbed to apathy and despair, while a good many of those who have not reached that state, but who are hungry and desperate, are ready to overthrow the existing order such as it is and help establish red revolution or anarchy. What would you do brother, if you and your family were starving and freezing? Do you think that you would have any particular regard for the established order, or for rights of property? You probably would think, even if you didn't say it out loud: "To hell with the established order and the rights of property. I am starving and my family is starving and freezing. I will join any organization that seems to promise a chance for me to get food and clothing and fuel to keep me and my family warm." The people who controlled the governments of Europe certainly sowed the wind and what a

terrible harvest of whirlwind and wrath is being reaped from that sowing. If the men who caused the trouble, who did the sowing, were the ones who must reap the harvest and they alone, the rest of the world could look on with complaisance, but unfortunately they are not the ones as a rule who have to suffer most. The horrible results must be suffered by the millions who had no part in shaping the destinies of these nations. It looks at the beginning of the new year as if most of the governments of Europe have either fallen or are falling to pieces. There is some foundation for the predictions of Lenin that his form of revolutionary government is going to take possession of Europe.

Starvation and freezing cold are breeders of that sort of government. Europe is politically enfeebled and diseased. It is a question whether the malady is fatal and also whether it is contagious. If contagious then the United States is in danger. The other day 32 men were tried in the United States court, convicted and sentenced by the United States district judge, to serve from four to nine years in the federal prison, on the theory that they were plotting against the peace and safety of the government. One of them declared that for each one of them who was sentenced to prison there would be thousands come up to take their places. He may be right. There is this vital difference between these I. W. W. convicts and ordinary criminals. The ordinary criminal beats the law if he can but he does not pretend that crime is commendable. He may excuse himself by saying that he was driven to crime by necessity, or that other men are more guilty than he is and ought to be punished more, but as a rule he does not undertake to justify crime. He keeps on committing crime because he figures that he can beat the law and if he could really get into his head that he can't do that he would quit committing crime. The I. W. W. does not concede that he is a criminal at all. From his view point organized government is the criminal and he is the victim. When he is convicted and sent to prison he does not have any feeling of regret for his acts, or any feeling of repentance. He regards himself as a martyr in a great cause. That is what makes him so dangerous. Convicting him creates sympathy for him among a considerable class and he may be fully as dangerous to society in prison as out of it. Is Lenin right? Will the next few years see the opposition to organized government, as we know it now, grow strong enough to overthrow all the governments, including our own? I do not think so, but the man who sees no danger in present conditions seems to me to be blind. What is the remedy? It seems to me that the remedy is to remove just as far as that is possible, the causes that have brought about conditions.

If starvation is the primal cause of this spread of Bolshevism, then let the energies and best talents of the citizens of the United States be mobilized for the purpose of helping to produce food, to restore industries, to get the people to work. I have observed a good many times that the reasonably prosperous individual is rarely an anarchist. He may indulge in more or less radical talk, but when it comes right down to cases he doesn't wish the present order overthrown because he doesn't wish to lose his meal ticket. If he has property he is just as anxious to keep it and make a profit out of it as the rank standpatter. He may be entirely honest in desiring to reform the world and he may have high ideals, but at heart he doesn't wish to upset the apple cart. And he is right. To destroy government and disorganize society would not help the masses. Where government is most completely destroyed and where society is most completely upset today is where there is the most suffering and starvation. Anarchy would not give men liberty or prosperity; on the contrary, it would bring about the most brutal era of oppression the world ever has known. The strong and brutal would exploit the weak and enslave them. The government of Lenin is not anarchy, as some seem to suppose. It is, on the contrary, perhaps the most autocratic government in the world

today. Lenin has more absolute power than the Czar ever had. He does not believe in democracy and frankly says so. He believes in the rule of class and finally by a very few of the ruling class. Is the world moving in a hopeless, vicious circle, starting with the rule of absolute despotism, gradually swinging to popular rule in a democracy like ours and then back on the other side of the circle away from popular rule and back to autocracy as absolute as that of the past centuries, under a different name? The year 1920 may help to provide an answer to that question.

Legislative Review

CHAPTER 200 of the Session Laws provides that salaries of sheriffs shall range from \$600 a year in counties of less than 1,000 population to \$3,500 in counties of from 60,000 to 90,000 population. In counties, except border counties, having a population of from 5,000 to 10,000 the salary of the sheriff is \$1,100, but in border counties of that population, the salary is \$1,500. In counties where there is an army post, the sheriff is allowed \$500 extra salary. The amount allowed for deputy hire varies from \$200 in counties of from 4,000 to 8,000, to \$3,500 in counties of from 60,000 to 90,000. The law also permits the county commissioners to allow more than the regular deputy hire when the sheriff finds it necessary to have extra help.

Soldiers' Votes

CHAPTER 189 provides the manner in which soldiers while absent from the state in the employ of the government or other persons absent from their homes in the employ of the government may vote and have their votes counted. This law requires that the county clerks of the various counties, when notified of the names and addresses of persons who are in the military service absent from the state or in other government service, shall not more than 25 or less than 50 days before the general election mail to such persons blank ballots prepared under the direction of the secretary of state. The person in the government service entitled to vote marks the ballot and returns the same to the county clerk of the county, his former place of residence, in time so that it will arrive at the county clerk's office in time for the election. Chapter 190 enables members of the army or navy or marine corps, while absent from the country in the service of the government, to become candidates for office in the city in which they reside when not in the service.

Fairs, Fees and Salaries

CHAPTERS 194 and 195 provide for the organization of county fairs and the purchase of fair grounds. Eleven chapters of the session laws: Chapters 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206 are devoted to fixing the fees and salaries of various county officers and their deputies and clerks. Chapter 196 relates to the salaries of county clerks and their clerk hire. Under this law the salaries of county clerks range from \$1,000 a year and a clerk hire of \$300 in counties of 3,500 population and less, to \$3,000 and clerk hire of \$3,500 in counties of more than 50,000 and less than 90,000 inhabitants. Chapter 197 fixes the salaries of county assessors, in counties of fewer than 25,000 inhabitants at \$5 a day for the time actually employed; in counties of more than 25,000 and less than 40,000, \$1,200 a year; in counties of more than 40,000 and less than 60,000, \$1,300 a year; in counties of not less than 60,000 and not more than 100,000, \$1,800 a year and in counties of more than 100,000, \$2,000 a year. Deputy assessors receive \$4 a day for time employed inside the corporate limits of cities of the first and second class and \$5 a day for the time necessarily employed outside the city limits. Chapter 198 fixes the salaries, and clerk hire of registers of deeds, ranging from \$900 a year in counties having not more than 3,000 inhabitants to \$3,000 in counties of more than 70,000. When the fees collected by the registers of deeds

in counties not exceeding 15,000 inhabitants, exceed \$350 in any one quarter, the register of deeds is permitted to keep one-half of the excess.

Clerk hire ranges from \$600 in counties having not less than 15,000 up to \$2,200 in counties of more than 90,000 population.

Chapter 199 fixes the salaries of county attorneys which range from \$600 a year in counties of 2,000 population or less, to \$3,000 in counties of from 60,000 to 90,000 inhabitants.

In counties having a population of more than 17,000 and less than 27,000 population the county commissioners may allow the county attorney \$600 for stenographer hire. In counties having more than 27,000 and less than 60,000 inhabitants and two or more cities of the second class, having 3,500 inhabitants or more the county attorney may be allowed an assistant county attorney at a salary of \$1,200 and \$900 for stenographer hire. In counties having a population of not less than 60,000 and not more than 90,000 population the county attorney is allowed a first assistant at a salary of \$1,500 and second assistant at a salary of \$1,200 and two stenographers at salaries of \$1,000 and \$600. If the county has two divisions of the district court the county attorney is allowed a first assistant at a salary of \$1,800 and a second assistant at a salary of \$1,500 and a stenographer at a salary of \$1,200 and a second stenographer at \$800. In addition to their salaries all county attorneys are allowed the fees provided for convictions under the prohibitory law, \$25 in each case. Other fees must be turned into the county treasury.

County Superintendents

CHAPTER 201 fixes the salaries of county superintendents of instruction. In counties having a school population of less than 500 the county superintendent receives a salary of \$4 a day for the number of days actually employed, not to exceed 180 days in a year. In counties having a school population of from 500 to 1,000 the county superintendent receives a salary of \$4 a day for not to exceed 200 days in the year. In counties having from 1,000 to 1,500 school population the superintendent receives a salary of \$1,200 a year and for each 100 school population in excess of 1,500, \$20 a year additional until the salary amounts to \$1,600 per annum. In counties of more than 45,000 population the county superintendent receives a salary of \$2,000 a year.

Clerks of the District Courts

CHAPTER 202 fixes the salaries of clerks of the district courts ranging from \$600 a year in counties of less than 2,000 population to \$3,000 in counties ranging from 60,000 to 90,000. For deputy hire the clerks of the district courts are allowed from \$300 in counties having a population of more than 6,000 and less than 15,000 to \$3,600 in counties of 70,000 to 90,000. The fees collected by the clerks of the district courts are required to be turned over to the county.

Other Officers

CHAPTER 203 of the Session Laws fixes the salaries of probate judges and county commissioners. Probate judges are allowed salaries ranging from \$500 a year in counties having a population of not to exceed 3,000 to \$3,000 in counties ranging from 50,000 to 90,000 population. Probate judges are required to turn over all fees provided by statute to the county, but may charge for performing marriage ceremonies there being no fee fixed by statute for that service. County commissioners receive for their services salaries ranging from \$200 a year in counties having less than 5,000 population to \$1,500 a year in counties having from 50,000 to 90,000 population.

Wyandotte County

THE COUNTY of Wyandotte is in a class by itself so far as salaries are concerned. In that county under Chapter 206 of the Session Laws the county treasurer receives a salary of \$3,250, his deputy \$1,800 and the county commissioners may appropriate not to exceed \$5,000 for additional clerk hire. The county clerk receives a salary of \$3,250 and his deputy \$1,800. In addition the county commissioners may allow him \$4,500 for additional clerk hire. The salary of the clerk of the district court is \$3,250; his chief deputy receives \$1,800, each of the deputies of the district courts \$1,200 a year, one office deputy \$1,200 a year and one journal deputy \$1,000 a year. The sheriff of that county receives a salary of \$4,000 a year, has an undersheriff who receives a salary of \$1,800, retains all fees and mileage paid him by the state and is allowed not to exceed \$5,000 for additional deputies and clerk hire. The county also expends not to exceed

\$1,000 for rigs for the sheriff and his deputies. In that county the probate judge receives a salary of \$4,000 a year; the register of deeds \$3,250 a year; the county surveyor \$1,800 a year; the county attorney \$3,750 a year; the county auditor \$2,500 a year and each of the county commissioners \$2,400 a year.

What Readers are Thinking

THE greatest menace to the state today, writes George Dillon of Sallyards, Kan., are the land barons. They are a great deal worse than the city police or miners. There should be some law to protect renters from having to move every spring. Joy Hammett, of Manhattan, expresses his approval of the editor's stand in regard to mob law and other matters. "Such an intelligent, upright manner of viewing questions of public concern," says Mr. Hammett, "is highly commendable in any editor, especially when he does it at the risk of losing his popularity. I sincerely hope the American people will soon frown upon mob law and insist on an enlightened public intelligence."

W. B. Stephan, of local union number 447, United Mine Workers of America, Arcadia, Kan., writes me at considerable length, setting forth the miners' side of the controversy between operators and miners. He says in part: "The miners have negotiated contracts with the operators at regular intervals for more than 20 years. It has always been the custom when the operators' and miners' representatives met in conference, for the miners to present their demands and then the operators presented a counter proposition. Using these demands as a basis, they usually continued until an agreement was reached. This time when the miners insisted that the war being over, the war contract had expired and asked the operators for a new contract, the operators at first refused, but later waived that objection and met the miners in conference. The miners presented their demands in conformity with past custom, with the expectation of negotiating a new contract, but to their surprise the operators promptly receded and maintained a stone wall attitude thruout the conference. The miners used every honorable means at their command to bring about a peaceable settlement but without avail. At last in conformity with the action of the U. M. W. of A. convention which met at Cleveland, the miners' official issued a strike order. Little did they dream that they had walked into a carefully prepared trap. The operators again came out of their shells. The federal government promptly lined up with them and issued the famous injunction order that tied up the funds of the miners with the intention of starving the miners into submission; enjoined the miners from telling the public their side of the controversy, while the operators started a most vicious campaign to prejudice the public mind against the miners. The federal government forced the mine workers' officials to recall the strike order, but the miners are still striking." This letter from Mr. Stephan was received before the strike was entirely settled and before the miners had returned to work.

"They realize," continues Mr. Stephan, "that to return to work now would mean everlasting defeat. They deplore the fact that the public must suffer, but the public is suffering nothing in comparison with the striking miner and his family, but the same spirit that led 80,000 mine workers over the top in France prevails among the mine workers today. Little did the miners dream when they were working almost beyond the power of endurance to supply the nation with coal during the war, while 80,000 of their strongest men were called to the colors, to fight for democracy, that at this time they would be forced to endure a severer test."

"Because they demand for themselves and families a small portion of that which their employers have in such abundance, they are called I. W. W.'s and Bolsheviks; they are even forced to fight for their constitutional rights as Americans. If the government had only the welfare of the general public at heart it would take over the mines and operate them and pay the 31 per cent advance suggested by Secretary W. B. Wilson, which the miners offered to accept, and ship the coal direct to the consumers. They would find that it is not necessary for coal to be sold at from \$10 to \$15 a ton in Central Kansas."

"The soldiers and Governor Allen's non-union coal miners have arrived in Crawford county. I met with a soldier from Camp Funston. He said that the people in that vicinity thought the miners received from \$8 to \$10 a day, but said that the condition of the miners and the miserable homes they had to live in convinced him that they received no such wages. It was reported by some of the soldiers that many of the strike breakers who were shipped in tried

to break thru the picket lines and get back to the railroad so they could go home, but they said only a few managed to sneak thru. The strike breakers seem to be disgusted with the outlook. They were dumped out on the muddy strip-pit dumps in a pouring rain with tents for shelter and surrounded with soldiers and it seems they are forced to stay within the picket lines. Even Governor Allen's husky patriots will revolt against inhuman treatment."

I give this letter practically in full for the purpose of showing how hard it is to get the proper viewpoint. I do not personally know Mr. Stephan, but judge that he is an honest man who believes that he is making an entirely fair statement and yet it is entirely evident that his opinions are swayed by prejudice. The fact is of course that no volunteer was coerced into either going to the mines or staying there after he got there.

However, the point I wish to make is the futility of strikes as a method of settling labor disputes. It seems to me that neither side to this controversy has been fair and so far as the public has listened to either side it has received a distorted view of the situation. Now that the strike is over I presume that Mr. Stephan would scarcely be willing to say that the U. M. of A. is "everlastingly defeated" as he says. Out of this controversy let us hope that a fairer method of settlement will be found. On one point I am in hearty accord with Mr. Stephan. I insist that the men who dig the coal out of the ground are entitled to receive enough to live in comfort and maintain their families in comfort. I can think of no good reason why they are not entitled to live as well as the operators.

I also have a letter from C. W. Wilson, of Harper, who formerly worked in the mines in the year 1914. At that time Mr. Wilson says he received \$2.70 a day but did not get regular work, sometimes only working about two days in a week. He joined the union, as he says in order to get work.

He was told at that time that the contractor received \$1.70 a ton for putting the coal on the cars, while the cost to him was only 65 cents a ton. It is the opinion of Mr. Wilson that the governor should have gone after the operators instead of the miners. I think it should be impressed on the mind of Mr. Wilson and others that at no time has Governor Allen in any way excused or justified the operators who have been making unwarranted profits out of their business.

The matter of settling the wage question was supposed to be in the hands of the authorities at Washington. The one thing that Governor Allen was concerned about was supplying so far as that was possible, the people of Kansas with coal. He urged the miners to return to work, assuring them that this should in no way militate against them when the settlement was finally made, but that their advanced wages should be counted from the time they resumed work. It certainly would have been better for the miners and the citizens of Kansas generally, if that proposition made by Governor Allen had been accepted by the miners.

"Thru the Kansas Farmer and Mail and Breeze you often have mentioned 'State Insurance' for growing wheat, and it has seemed to me to be an excellent idea," writes John P. Ruppenthal, cashier Farmers' State bank, Russell, Kan. "It occurs to me that you had it figured that this insurance could be carried at 10 to 15 cents an acre if every acre was assessed to meet the hail losses. I do not have any figures for this, nor do I have any of your articles on this subject at hand. Now that the legislature is to be in session, would it not be a good plan to have some bill presented embodying your ideas? I should like to see some way around the present hold-up methods of hail insurance. It seems little short of highway robbery to charge a farmer 8 per cent to 10 per cent for hail insurance, and he needs protection against hail. I hope you have not given up hopes of getting some such legislation and that we may have an effort in the coming legislative session to protect the wheat growers against the insurance graft."

Last season if there had been collected 10 cents an acre for the 11 million acres of wheat sown in Kansas, it would have created a fund of \$1,100,000, which would have been more than ample to pay all the losses suffered from hail. The year before was a bad hail year and 10 cents an acre would not have yielded enough to pay the losses, but it is my opinion that in a series of years, say ten years, if the state were to collect regularly a hail insurance tax of 10 cents an acre, it would create a fund sufficient to cover the losses, but in order to take care of the bad years, it would, perhaps, be better to fix the tax for each acre at 15 cents.

Clearing Land With Dynamite

The Space Occupied by Stumps Causes Considerable Waste But This is Only a Small Part of the Trouble They Cause

By R. I. Throckmorton

ON MANY farms in Eastern Kansas, Eastern Oklahoma and Missouri there are fields that are difficult to cultivate because of numerous stumps. Some of these fields, altho quite fertile and otherwise valuable for cultivated crops, remain in pasture because of the difficulties encountered in cultivating around the stumps. Anyone who has attempted to cultivate a field which is spotted with stumps will not question the difficulties. The land occupied by the stumps causes considerable waste, but this is small compared to the vacant strips left near the stumps when plowing and to the added expense of cultivating around them. The danger of breaking machinery is also great.

When to Use Explosives

Stumps that are too large to be pulled can be removed readily by the use of explosives. Explosives are of special value in removing stumps from heavy, tight soil where they are difficult to pull. Dynamite is most effective when the soil is wet or at least quite damp. The charge of dynamite must be placed under the stump but the exact location will depend on the nature of the root system. Stumps with spreading root systems should have the charges so placed as to tear the roots out of the ground while stumps with tap roots should have the charge so placed as to break them off below plow depth. The depth of the charge depends somewhat on the nature of the soil. Heavy, wet soils hold the gases developed by the explosion better than do sandy soils and therefore, the charge does not need to be placed so deep in them. If the

charge is too deep a part of the energy will be wasted in moving an excess amount of soil while if it is placed too shallow, the top will be blown off the stumps or they will be split and remain firmly fixed in the ground. Usually the charges should be placed just under the roots except in loose, sandy soil where they should be placed

about 1 foot below the roots. Long rooted stumps require deeper placing of the charge than do short rooted ones. In dynamiting stumps with tap roots the charge should be placed in the root at a depth of about 2 feet. Large stumps usually require more than one charge. In this case the different charges should be placed under the

larger roots and one charge under the center of the stump. The charges under the roots should be placed from 12 to 18 inches from the stump.

Holes for charges should be made at an angle so as to place the charge in the proper position. The holes may be made with a soil auger or steel rod and sledge. A spade may be used successfully if care is taken in replacing the earth. In preparing charges for tap roots, the soil may be removed as described and then a hole made in the root by means of a wood auger with an extension stem. The holes, whether they be under the stump or under the roots, should be about 2 inches in diameter. After the charge is placed in the hole, it should be firmly tamped and if several sticks of dynamite are used the wrappers should be split and the sticks tamped sufficiently to decrease their length and bring them in closer contact.

The Size of the Charge

The size of the charge will, of course, depend on the size of the stump and whether or not it is green. The nature of the soil will also influence the amount of explosive to use, sandy soils requiring more than heavy soils. The proper amount of explosive will give a dull muffled report and will lift the stump from the ground. An excessive charge will give a loud report while insufficient explosive will not lift the stump from the ground and will leave tight roots. The amount of explosive to use must be determined largely by experience, but it usually requires about 1 pound of 20 per cent dynamite for dead oak stumps, 10 inches in diameter, when the soil is heavy.



Evidently the Charge of Dynamite Did a Good Job. Here's All That Was Left, When a Proper Charge of Dynamite was Put Under a Big Stump.

Making the Pigs Comfortable

Good Winter Shelter With Proper Feed and Care Will Change Heavy Losses on Swine into Profits That are Worth While

By R. W. Kiser

HOGS as well as other classes of livestock need shelter in winter. An erroneous belief is held by many farmers and hog feeders and breeders, that a hog can do as well out of doors as when well sheltered. It has been amply demonstrated by many of our best feeders and breeders that shelter is not only profitable as an investment but is essential to the success of the hog breeding and feeding business.

Three Types of Houses

Shelters for hogs may be divided into three general classes for our consideration: First, shelter for brood sows; second, shelter for the growing pig, and third, shelter for the fattening hog.

In considering the proposition of shelter for the brood sow, it is well to keep in mind the fact that the purpose of a brood sow is to raise large, healthy, vigorous, uniform litters of pigs. To be sure, proper feeding is just as essential to the hog business as proper housing, but what is the use of raising good pigs if a large percentage are permitted to die after farrowing due to lack of adequate shelter?

Whether the "colony house" or the individual house is used, there are several essential details of construction which must be considered. A warm dry bed is, perhaps, of greatest importance to both the sow and the litter. The bedding can be kept warm and dry by the use of proper flooring material and good floor drainage. Too little attention is paid to floors in farrowing pens. Much of the troubles experienced by breeders especially in late fall or winter farrowings are due to poorly constructed floors, improper floor drainage or lack of bedding. Pigs that become chilled have a big handicap and seldom fully recover.

Ventilation is necessary for the health of the sow and pigs. It is of such importance that it should never be overlooked in the construction of buildings for any kind of livestock. With the monitor type of house, very satisfactory ventilation may be had by arranging the upper and lower windows in such manner that they can be opened easily or closed as desired.

Each pen should be fitted with a guard rail to prevent the sow lying upon the pigs. A two by four may be nailed to the side of the pen about 8

inches from the floor and about 6 inches from the inside of the rail to the wall. Many pigs can be saved with this simple device.

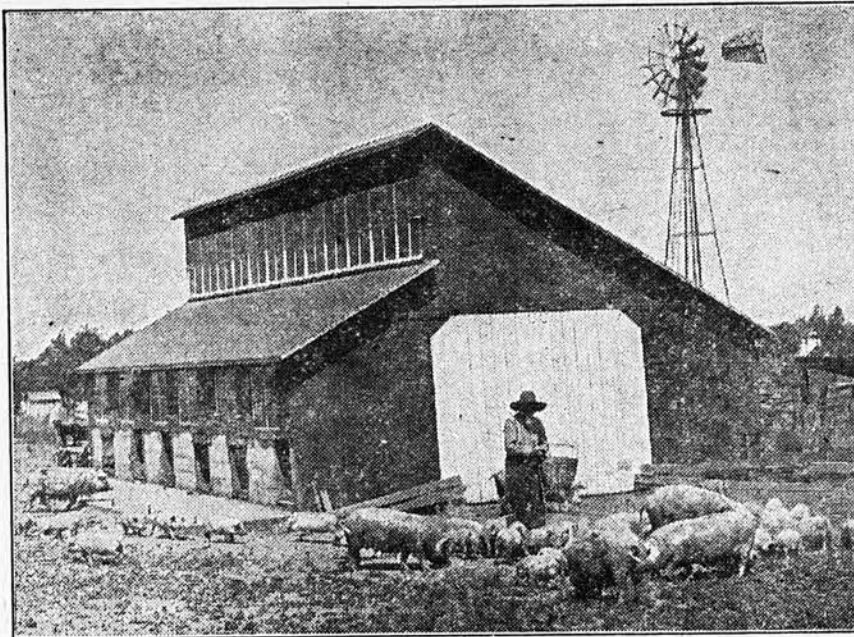
Hog houses should always be constructed with tight walls and roof to prevent leaking and drafts. No animal should be permitted to sleep in a draft and especially is this true of young animals.

Each sow and litter should have an outside pen opening direct from the house. After a few days from farrowing the outside pen can be used prac-

tically all day, especially is this true on warm sunny days. These pens can be used until the pigs are several weeks old after which they may be permitted to run together with other litters. The sows should be kept in their pens, thus assuring that the pigs will return to their own pen for the night. This prevents robbing and piling up. In the case of spring litters this would scarcely be true as both the sows and the pigs should be turned upon pasture as soon as possible after farrowing. Fall litters can easily sleep with the sow until weaning time. At weaning time the sow can be taken from the pigs and placed with the other sows in a well sheltered lot where they can be properly fed for the spring litter. The pigs are better off to remain in their old quarters until the house is again needed for spring farrowing at which time they are either ready for market or in the case of gilts or males that are to be further developed separate houses should have been provided at weaning time where they could be kept comfortably warm until warm weather.

Exposure Causes Disease

Hogs that are being fed for the market need comfortable quarters. There are some feeders who do not think it necessary to provide shelter for a fattening hog, believing that the fat hog does not get cold, that the layer of fat is thick enough to keep him warm even in the coldest weather. The best and most successful feeders in the state, however, believe that shelter is just as necessary to the development of a fat hog as it is to the development of the breeding hog. Many very elaborate feeding houses have been constructed in the last few years by our bigger commercial feeders. During the coming year many more of these well arranged feeding houses will be built.



Here is a Good Type of Hog House That is Warm, Dry and Well Ventilated. When Properly Constructed it is a Permanent Asset in Swine Raising.

What Kansas Hog Men Think

The Condition of the Swine Industry in this State is Critical—Let's Read the Other Fellow's Opinion on It

By Earle H. Whitman

PROBABLY no question holds a more prominent place in the consideration of farmers than the present status of the swine industry. A drop of \$9 or \$10 in the price of hogs from the high point last August left a very large question mark in the minds of hog raisers. "The packers are doing it; farmers might just as well get out of the hog business, with low prices for hogs and high prices for grain," often summed up the sentiment of Kansas producers. Practically every man has his own particular reason for the drop in hog prices, and it is by no means true that all are agreed upon the problem.

Despite the doubts which persist in our minds sometimes, and with reason, as to the value of free speech and the rule of the majority, most of us are willing to agree that free discussion of a problem and its remedy is vitally important. Too often we are swayed by exaggerated and misleading reports which are brought closely to our attention. At such times an opportunity for a heart-to-heart talk about a problem is the best action to take.

For four years Kansas boys have been growing into the swine industry thru the Capper Pig club. These years have seen excellent and ever-increasing average profits for the boys. The tremendous drop in the hog market hit some members of the club for 1919 very seriously, and more and more the boys were becoming in need of some impartial, authoritative counsel and advice on the swine industry and its future. Countless others in the hog business, old as well as young, are desirous of the same assistance, and the management of the Capper Pig club felt that it could serve Kansas boys—and Kansas farmers in general—in no better way than to gather from the ranks of the well known and reputable hog breeders of the state their opinions on the vital questions relating to the swine industry. The response has been most gratifying, and we wish to thank the men who have replied, for their assistance at this critical time. The answers are not to be considered as arguments for or against any proposition, but simply are the opinions of individual men. Taken as a whole, they are submitted to the farmers of this state in general and to the present and future members of the Capper Pig club in particular.

Five questions were chosen for the questionnaire which went to 125 Kansas breeders. Undoubtedly anyone could think of a dozen more questions to ask, but these seemed to embrace the basic points at issue. These were the questions:

1. Do you consider the decline in prices the natural return from abnormal to normal prices, or a result of packer manipulation?
2. Have you any forecast to make, as to the probable trend of the hog market, and its effect on the price of breeding stock?
3. As a farmer, would you consider it good policy to go out of the hog business, for the time being?
4. With the usual good care and feed given club entries, do you consider the chance of club members favorable or unfavorable for showing a profit from their work in 1920?
5. Can you give helpful facts and figures in regard to rations and methods of feeding which you have found valuable during this period of high-priced feeds?

Taking these questions in order, the question of whether the drop in hog prices was due to packer manipulation or to the return from abnormal to normal prices, comes first. A wide variation of opinion is found, altho a careful checking of the returns shows that 66 per cent of the breeders replying believe that the packers are responsible. The remaining 34 per cent give replies that vary from making the packers and the government's effort to lower the high cost of living jointly culpable to absolving the packer from all blame

and placing the responsibility entirely on the fact that prices were abnormally high and certain to decline. Thru practically all replies, however, runs the sentiment that if prices of feedstuffs had followed the price of hogs downhill, farmers would have no fault to find with the existing order of things. Another opinion advanced, and one well worth careful consideration, is that the present method of marketing the great bulk of the hogs during November and December is fundamentally wrong.

"I feel that the unsettled conditions of distribution, especially in foreign countries, have had much to do with the present market situation," says E. M. Reckards of Shawnee County. "I also feel," continues Mr. Reckards, "that the packers have used their influence to keep pork prices down, which is human nature, if done honorably. The wide fluctuation in prices of pork products the last few months, tho, considered with the big slump in the pork market, would rather indicate that something mighty rotten was being pulled off."

"Present price of hogs is the result of one of the packers' old games," is the opinion of Walter Shaw of Sedgwick County. "They know this is the

that took very much of a drop, so far as I could notice. If we were getting back to normal, I should think other things would drop in proportion."—William Hamblin, Wabaunsee County.

"Both natural decline and packer manipulation. I don't expect to see hogs go back to pre-war prices, but I think we have seen the high dollar for hogs."—J. S. Davis, Franklin County.

A large group of replies indicate that farmers feel the government is somewhat to blame for present conditions. "We consider the decline partly due to governmental activity to reduce the high cost of living and partly to packer manipulation," writes W. E. Ross & Son, Smith County, while others agree.

"I do not believe the packers looked out for anyone except themselves. I believe Congress is more to blame, for prolonging the League of Nations discussion and failing to do anything about the foreign exchange situation."—B. W. Conyers, Marion County.

"Possibly both packer manipulation and return to normal prices. The government's fight on the high cost of living has given the packers opportunity to lower the price of stock. However, it is not so much the price of hogs if feed could be bought accordingly. In this part of the county we have been

feeds."—J. R. Adams, Saline County.

The note of optimism in the replies of several men is worth noting. "I think prices of hogs will adjust themselves to prices of feed," writes R. C. Watson, Wilson County.

"I consider the decline in prices a natural return from abnormal to normal, altho possibly a result of packer manipulation to a certain degree."—R. P. Wells, Jewell County.

"A return to normal conditions."—Thomas Weddle, Sedgwick County.

"After carefully considering the subject, I believe this is a natural condition and in no way due to the packers."—Harold B. Woodlief, Franklin County.

That Kansas hog men have studied the matter from every angle and hold some firm ideas as to the future of both market hogs and breeding stock is shown by the answers obtained to the second question, "Have you any forecast to make as to the probable trend of the hog market, and its effect on the price of breeding stock?" Many breeders believe the market is normal now, while those who think otherwise are confident that the future holds just cause for optimism. Judging by the testimony of these men, the market for breeding stock has been and continues fairly strong, not having declined along with the price of market stock. Practically every man sees an unusual demand for breeding stock in the future, because of the extraordinary depletion of the herds of the state.

"In my opinion, the price of hogs is about normal at present, and I think the price of breeding stock will remain about the same for some time in this section on account of so many sows going to market when prices dropped."—Fred E. Webb, Sedgwick County.

"I think market hogs will be selling at a good profit during the summer and fall of 1920. If so, breeding stock will be in great demand, for many breeding herds have been depleted."—B. R. Anderson, McPherson County.

"Am looking for a steady rise in 1920, and expect to see good fat hogs reach \$20 a hundred in May at Kansas City."—D. O. Bancroft, Osborne County.

"The effect of the decline in the market was to decrease the amount of breeding stock, so that I think the market will trend higher than it ever was next spring."—W. H. Fulks, Reno County.

"Let farm product prices go as they may, hogs will more than hold their own as they already have taken more than their share of the drop."—Johnson Workman, Russell County.

"In my travels this fall I have not found one hog where there were 50 four or five years ago. I think 1920 will bring the highest prices ever known for fat hogs, and a big demand for breeding stock."—Frank L. Downie, Sedgwick County.

"I think the price of hogs next fall will depend largely on the corn crop, but that the price will remain around \$15. I don't think it will have a great deal of effect on breeding stock."—W. D. McComas, Sedgwick County.

Only one breeder expresses himself as entirely pessimistic over the future of the swine industry. "I haven't any hopes for a better market," declares W. H. Lynch of Neosho County. "As to breeding stock, the more of it one has the more money he will lose."

With this compare the assertion of G. B. Wooddell of Cowley County, "I look for brood sows to be higher next summer than any previous year." And William Hamblin remarks: "I don't think we shall have much cheaper hog prices for some time, and I really don't think they will ever be as cheap, as a rule, as they were before the war. I think there always will be sale for good breeding stock at profitable prices." "I consider this is a good time to stay with the game," says Thomas Weddle, "and am breeding more sows than usual."

Swine Shortage is Certain

THE SWINE industry in Kansas is perhaps at its lowest ebb since the early '80s," states J. C. Mohler, secretary of the state board of agriculture. "The 1,303,460 head on hand March 1, last, is less than has been reported for that date for any year since 1882. The present canvass shows that the number on the farms now is 25 per cent less than for March 1. It is estimated that the total number of hogs on Kansas farms now is 1,038,875, which shows that numbers considerably in excess of the spring pig crop have been marketed, and suggests that fewer fat hogs than usual may be expected from Kansas during the coming winter. Correspondents report a decrease of about 24 per cent in sows bred for the crop of spring pigs for 1920, as compared with the number bred last year."

"To make a success in hog raising a farmer should continue to raise what hogs he can take good care of right along one year after another," remarks an Atchison county breeder. "The packer should be regulated if possible. But to stop raising hogs while that is being done, or until hog raising is more profitable, would be like having no spoon when it is raining soup. We would not have any hogs to sell."

Between the discouragement reflected by Secretary Mohler's report and the optimism shown by many Kansas breeders probably lies the true course of action for the majority of the farmers of this state. In the Kansas Farmer and Mail and Breeze for next week will appear the answers given by Kansas breeders to the question, "As a farmer, would you consider it good policy to go out of the hog business, for the time being?" These answers contain much of interest to every Capper Pig Club member and to older hog raisers as well.

heaviest marketing season. I think when they get this run of hogs in, prices will be high again."

If the decline in hog prices had not taken place in such a short time, many breeders feel that it might have been regarded as a natural return to lower prices. "The present price of hogs is the result of packer manipulation. If the decline in prices had been more gradual, it might have looked different. Hog products are a luxury today in almost every home," writes William Hunt, Miami County. And here are the opinions of other men along this line:

"I think the packer is to blame for the decline in the price of hogs. They would not have declined so fast if it were the natural return from abnormal to normal prices."—William C. Mueller, Washington County.

"Prices were not abnormal, considering the price of feed. Feed has not declined in proportion to the price of hogs. The administration and packers are to blame."—Henry Murr, Leavenworth County.

"Packer manipulation, as farmers have fewer breeding and stock hogs than at this time last year."—F. J. Moser, Nemaha County.

"I think it mostly the work of packers, as meat was about the only thing

unable to produce our grain because of unfavorable seasons, and grain shipped in has been produced at a big expense. I feel sure, tho, that the hog business will be on a paying basis when war prices have been generally adjusted."—J. B. Sheridan, Ellsworth County.

"Caused by threatened prosecution of packers and difference in exchange rate with foreign countries."—Arthur Mosse, Leavenworth County.

Some replies indicate the firm opinion that the packers are entirely to blame. "Packer manipulation," asserts George W. Ela of Jefferson County, and he continues, "When have hogs been 'abnormal' in price as compared with other commodities? If anything except hogs, and possibly cattle, has declined in price, please advise. Everything I buy is still going up."

"If all other articles were reduced accordingly, I should say it is a natural return from abnormal to normal prices. Since all things are not equal in that way, I consider it is the result of packer manipulation."—William Hilbert, Nemaha County.

"I think that the recent decline in hog prices is the result of packer manipulation to a great extent. Corn prices have declined some, but hog prices have come down out of proportion, while there has been no great decline in mill

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Rural Letters Fresh from the Farmstead

THE KANSAS Farmer and Mail and Breeze desires to have as many of its readers as possible write about their experiences in farming during the past year. Short letters will meet our requirements best. All farmers who have had successful experience in using tractors are requested to enter our tractor contest. In your letter give the size and horsepower of the tractor purchased, mention the kinds of work done by the machine, and state what advantages you gained thru its use. All letters for this contest should reach us on or before January 15, 1920. For the best letter a prize of \$10 will be given, and for the next best a prize of \$5. All other letters accepted will be published at our regular rates. Address all communications to John W. Wilkinson, Farm Letter Department, Kansas Farmer and Mail and Breeze, Topeka, Kan.

Hog Feeders Lose Heavily

Unless the farmers of Kansas, Iowa and Missouri get government assistance at once they will lose millions of dollars on the large number of hogs produced this year. I hope Congress will give us some kind of law at once that will protect us since this is the season of large hog marketing. I have kept a record of cost on eight pigs that I believe will be of interest. I bought eight pigs August 1 for \$100 and have had the following expenses: 20 bushels of corn at \$1.75 a bushel, total \$35; 50 bushels of corn at \$1.50 a bushel, total \$75; shorts and tankage, \$18; medicine, \$5; pasture, \$6.75; labor, \$12. This makes a total cost of \$251.75 for the 18 pigs at the present time.

These pigs now weigh 1,360 pounds or an average of 170 pounds each. Now at 11½ cents a pound, the selling price in Ottawa, Kan., these pigs are worth only \$156.40 which will leave a loss of \$95.35 for my efforts in producing more pork for Uncle Sam. I have kept a close record on costs and know that my figures are correct.

Ottawa, Kan. J. R. Seneff.

Health Saving Device

A simple but helpful insurance, when scrubbing, against house maid's knee, is a piece of carpet folded three or four times. Make a pad large enough to kneel on comfortably. Whip down the sides and sew a piece of tape to one corner in order to hang up after use and that it may thoroughly dry. Old carpet usually makes the best pad on account of its thickness and the present day housekeeping calls for efficiency in both time and labor saving, health saving devices. Inez B. Bliss.

Kansas City, Mo.

Western Ranchers Favor Capper

It seems rather too mature to talk about the next President of the United States of America, but it is being done every day. If I were asked who is the most popular man, I would say Senator Capper is by far, especially among the Western ranchmen. They will vote for him regardless of politics. His platform is just the thing—nothing more solid. I do not know what the feeling is in the East—but I hope I will hear of his popularity thru the papers every now and then.

Castle Rock, Colo. H. B. Moseley.

Farmers are Treated Unfairly

Farmers in this locality in a business way are between a hawk and a buzzard. We can't touch any kind of stock, horses, hogs, cattle, without going broke. Wheat is the only crop that we have any season for or that our land is adapted to. When we speak of wheat and think how the government has treated us, it simply makes us furious. A year ago last fall we had official notice we might as well turn our wheat, that we wouldn't get any better price, so nearly all of us sold our wheat early in the fall at a shade below the \$2 mark. When the wheat was about all out of the farmers' hand they turned it loose and those that held their wheat got \$2.74 at the ele-

vator. Remember it was our splendid, honorable government that did this. No doubt you will think this is a grouchy letter but it is the way I feel. Now don't think because we don't write to Senator Capper we don't appreciate what he is doing. We are looking on with great interest. Wm. Whitby.

Goddard, Kan.

Compulsory Military Training

I heartily approve of Senator Capper's stand on compulsory military training. I find our returned soldiers and our farmers here to a man opposed to this piece of, or rather relic of Prussian deviltry, that the army clique is trying to fasten on us. Having first destroyed militarism in Germany is it reasonable and consistent that we now plant the same seed that will make us, instead of Prussia, the bully of the civilized world?

If ever there was a time when we should set a pattern for old military ridden Europe it is now. To follow in their footsteps will discredit us—"The land of freedom"—in the eyes of the whole world, and in the end would prove our own undoing. Yours for more common sense in the governmental affairs. J. G. Schindler.

Marysville, Kan.

Livestock Men Lose Money

I would like to ask you a question or so. What are we going to do with our hogs that we are feeding this high price corn to? I have about 50 hogs which must sell soon. If the market on hogs keeps going down I had just as well quit feeding mine as I am losing money every day. If I sell my hogs for 15 cents a pound I still would lose money.

Now, what I wish to ask you is, cannot we have a set price on our hogs and cattle just as we have on wheat, a price I mean which will net us a little profit above our expenses. I am not a profit hog, I only ask a very small profit so that we keep from going down hill and make enough to keep from starving. I also have another question to ask. What are we to get for our 1920 crop of wheat? Is there going to be a set price on it or must we take just what the miller will give us?

Emporia, Kan.

Spreading Straw Saves Crops

Those who predicted a warm winter missed their guess this time. A great deal of cold weather came in November and it has continued right thru December without a break and most of the winter season is yet to come. Farmers who top dressed their wheat, alfalfa and pasture crops with straw early in November will find themselves well repaid for their efforts next year when these crops are harvested. The severe freezing weather that is sure to come in January, February and March will kill out a great deal of wheat, alfalfa and pasture crops that are unprotected. This will result in poor stands and poor yields.

It is never safe to depend on having snow at the right time and enough of it to protect the wheat all thru the winter. The best plan is to top dress the wheat with straw before the severe freezing weather comes. Farmers in all of the Western states report very satisfactory results from top dressing alfalfa with straw. In every instance it prevented winter killing and greatly increased the yield of alfalfa the following year. Of course the straw should be spread thinly and uniformly to be effective. This can be best accomplished thru the use of a good straw spreader. It will prove a good investment on any farm and will soon pay for itself. Every farm should have a straw spreader and also a manure spreader and both should be kept busy. In the fall and winter months especially will this be true. Not only will the straw protect the crops on which it is spread but it will also add to the supply of humus. This increases the moisture holding power of the soil and improves its fertility.

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Senator Capper's Washington Comment

ECONOMY, or rather the lack of it, is still the dominant note in affairs of government here at Washington. Everywhere one turns, into whatever subject one probes, he bumps into some sort of government extravagance. The House by unanimous vote the other day requested the War Department to dispose of all its surplus motor vehicles immediately. Any motor equipment requisitioned by the Department of Agriculture for road building work is to be transferred at once under the resolution passed by the House.

War Department Wastes Money

The surplus of these motor vehicles now is about 80,000. Representative Reavis, author of the resolution, said no efforts had been made to dispose of the equipment until the House committee started its investigation. In the year since the armistice, 70,130 vehicles have been delivered to the War Department. Of this number 35,993 were sent to France. Why this was done no one seems to know. As a result about 310 million dollars' worth of motor transportation equipment—much of it sent over after the signing of the armistice—was sold to France at about 20 cents on the dollar, and the French profiteers, who are almost as numerous as American profiteers, enriched themselves as a result of this War Department blunder.

The War Department wishes to keep 53,000 motor vehicles, which would be one motor car for every 10 men on the basis of an army of 500,000, but as Congress is likely to cut the army to not more than 200,000, doubtless the War Department will be required to dispose of a much greater number of its surplus motor vehicles.

Huge Profiteering in Shipping

Another illustration of the hugeness of the figures involved in this war comes from the United States Shipping Board. Profits made by shipowners during the war were "fabulous" and "unbelievable," according to the testimony of John H. Rosseter, former Director of Operations of the Shipping Board, in a hearing held by the Senate Committee on Commerce. One ship earned in one voyage of 110 days more than \$800,000. This netted the Shipping Board, under whose direction the ship operated, approximately \$750,000, more than the compensation allowed the owners and the other expenses.

The Quistconck, first ship built at Hog Island, on a voyage of 92 days, under arrangements with the Italian government, earned \$597,622. Net profits were \$461,151, after taking care of \$37,800 in depreciation, and \$18,900 in interest. These earnings were exceptional, Mr. Rosseter said, but the shipping business prospered mightily during the war. The United States fixed a rate during the war of \$66 a ton to Europe, while the British rate was \$88. Losses of the shipping board due to sinkings amounted to about 27 million dollars. If the United States stays in the shipping business, the earnings will continue to be large, or else it will be possible to force ocean carriage rates down so that American products ought to find ready sale in foreign markets.

The attempt to put the government into the shipping business permanently will fail, as it should. This country is not for government ownership of either railroads or merchant marine.

Americans Killed in Russia

Bodies of 113 American soldiers killed in Russia—a country with which we are not and never have been at war—arrived at the Hoboken pier the other day. Sorrowing mothers and other relatives were there to receive back the bodies of their boys. How many more such cargoes will be received, no one can say, for we still have soldiers in Siberia, sent there and kept there, altho no declaration of war against Russia has ever been made by this country. Appeals of our citizens for the return of these soldiers, voiced thru the speeches of many Senators and Congressmen, fall on deaf ears at the War Department. Whether there shall be a reversal of this policy before a

change of National Administration, I am not, of course, able to say, but I believe the people will make known in no uncertain manner their demand for a return of the soldiers from Siberia in the national election next year.

It has come to my attention that many soldiers, sailors and marines are still having trouble with their claims against the government. I hope that any service man who reads this or to whose attention it is directed by a friend or relative will write to me and I will be glad to help him get an adjustment of War Risk Allotment or Allowance, Quartermaster or Navy Allotment, Compensation, Insurance, Liberty Bonds, Bonus, Travel Pay, Back Pay, or any other matter that may be giving him trouble. I already have been able to give assistance to a large number of former service men and I shall be glad to perform similar service for all others needing such help.

House Approves the Edge Bill

The House has just passed in modified form the Bill introduced in the Senate by Senator Edge of New Jersey and passed by that body, providing for the incorporation of foreign trade banks. I think it will be helpful to the producers of the West. It is expected to build up under this legislation a number of financial institutions, dealing exclusively in foreign securities, which will be a great aid in the marketing of American grain, livestock and other farm products, as well as American manufactures, in foreign countries. During the war trade with the European countries was made possible thru the subsidizing of exports by direct government loans and credits. It is generally agreed that this method of extending credit must cease with the coming of peace. The new international banking corporations are expected to provide a new system of credits. Thru these financial institutions, when a consignment of American farm or other products is sold abroad, the purchaser will provide the bank thru which the deal is negotiated with bonds or other collateral security, and the bank will advance the money to pay the American shipper in much the same manner as trade is carried on between the different sections of this country. Foreign exchange rates are very much out of line now, due to the depreciation of all European money, and it is hoped that these institutions will be instrumental in establishing a system of international credit that will stabilize rates of exchange, and stimulate American exports to European countries. This is necessary if the price level of farm products is to experience a rise during the coming year.

Big Sugar Steal

Failure of the government two months ago to purchase the Cuban sugar crop has resulted in one of the greatest steals of recent years by the sugar trust. Raw sugar is quoted in New York for December delivery at 10½ cents, or just twice the price of last year. Owing to the zone system prevailing in the sale of sugar, the Louisiana planters are getting much more than this for their sugar, most of the crop having been sold to the jobber at 17½ cents. The belated effort thru the McNary Bill to continue the Sugar Equalization Board for another year may result, thru the purchase of what remains unsold of the Cuban sugar crop, in a considerable saving to the people, but it will not be surprising if the sugar bill of the American people during 1920 may be between a half billion and a billion more than during the year just closing. Every time sugar advances a cent a pound it takes out of the pockets of the people an additional 80 million dollars. If the 10 cent advance over normal continues thruout the coming year it would mean a robbery of the people in excess profits by the sugar interests of 800 million dollars.

Arthur Capper

Washington, D. C.



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Rural Engineering Hints

BY C. E. JABLOW

ENGINES in which combustion takes place within the engine cylinder presents problems in lubrication that should receive attention of automobile and tractor operators. I have had many troubles with internal combustion engines, and in a surprisingly large number the difficulty was due to faulty lubrication. This point cannot be readily understood by many for it is too commonly believed that an oil satisfactory with one engine should be equally well adapted to another make and type of internal combustion engine. Nothing can be further from the truth.

While many engine troubles originate at some other source, the ultimate failure is apparent in poor lubrication. It is not to be understood that we imply that all engine trouble is due to bad lubrication, but it is a fact that improper timing of ignition can make itself apparent in the cylinder lubrication. The same can be said of poor carburetor adjustment, leaky valves, defects in the cooling system and improper handling of engines. It should therefore be apparent that one is not immune to lubrication troubles even after purchasing and using correct lubricant.

Grades of Lubricants

Most of the lubricants offered on the market for internal combustion engine lubrication are of mineral origin resulting from the distillation of crude petroleum. Most of us are familiar with this product and it will be remembered that certain of its constituents are highly combustible with no lubrication properties. Others on the other hand are slow to kindle and have good lubrication properties. One method of grading lubricating oil is the temperature to which it can be raised before the vapors that are given off, form in sufficient quantity to produce an explosive mixture with air. This is spoken of as the flash point. The burning point is somewhat above the flash point and represents the temperature at which the vapor given off burns continuously when ignited. Another important property of lubricating oil is its viscosity or body. A highly viscous oil is suitable for some machines while a lighter oil is better under other circumstances. It also should be remembered that an oil when cold has a higher viscosity than when heated.

Friction between the molecules of the oil itself is also very important and if the proper oil is not used, excessive power wastes may result.

There are quite a few other tests that are frequently applied to oil, but enough has been said to indicate that scientific study and a great amount of experience is necessary to determine the correct lubrication.

Lubrication for Different Engines

There are engines operating on the two or four cycle principle. In the first, an explosion occurs at every stroke is a working stroke. Since it is estimated that 85 per cent of all automobile engines operate on the four cycle principle, the discussion will be limited to this type. With proper operating conditions temperatures of 2,700 degrees Fahrenheit may be obtained, when the charge is ignited. Since no oils have a flash point anywhere near this temperature, some of the oil is sure to be burned off of the cylinder walls during the stroke. How-

ever, if the burning has not completely consumed the entire thickness of the oil film, lubrication may still be affected. Air and water cooled cylinders each require a different oil as the temperature of the walls in each case is different. The speed of the engine, not the rotative speed, but the speed with which the piston travels over the walls of the cylinder greatly influences the character of the lubricant required.

The fuel that is to be used, whether gasoline, kerosene or a fuel oil also affects the qualities necessary in the lubricant as different fuels make use of different compressive pressures and aside from the higher temperatures resulting, requires a heavier oil to collect on the advancing head of the piston and hold the compression. Many have thought that the rings alone did this.

Other Difficulties

If a full force feed system is used for putting the oil where it is necessary a different viscosity would be used than when the natural flow of the oil is depended upon. Enough has been said to cause any intelligent user of an automobile truck or tractor to give ear to the recommendations of the manufacturer when he says that a certain oil of a certain grade is desirable when using his make of engine.

At the beginning of this article, it was stated that troubles at some other source may affect lubrication. With the preceding explanations this can be made clear. With ignition at some other than at the correct point, prolonged burning occurs within the cylinder, burning of the film of oil during the expansion stroke leaving little lubrication for the following stroke. It may be stated here that too much oil in the combustion space not only will result in excessive burning of the oil but may also result in leaving carbon behind with its attendant difficulties. It is of course remembered that the oil is composed of hydrogen and carbon.

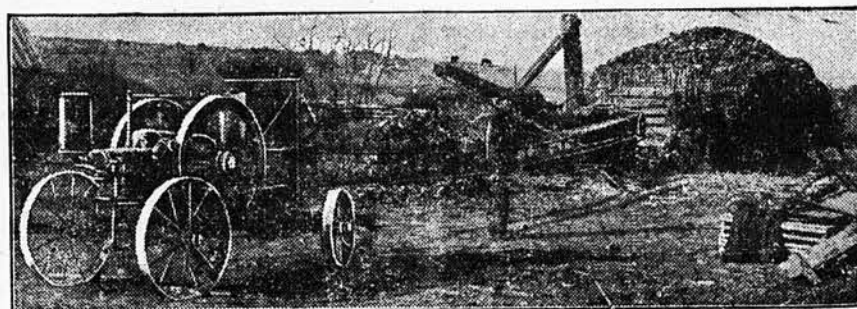
Leaky piston rings may give lubricating troubles not only because oil can get past easier but on account of leaking compression, slower combustion will result, exposing the oil film to more severe conditions. Leaky valves will result in somewhat similar troubles.

If the cooling system is not maintained at a proper temperature, that is, if the temperature is permitted to get too high, thinning down of the oil will result, permitting some perhaps to find its way into the combustion space, causing carbon deposits or else permitting the blowing of some of the charge past the piston during the compression and resulting in poorer economy.

Don't Race Engine in Starting

Poor carburetor adjustment may either cause a slow burning mixture with the difficulties previously explained or if too much gasoline is fed into the cylinder, some may condense on the walls causing the complete destruction of the lubricating qualities of the oil.

When starting, the temperature of the walls and surrounding metal is gradually increased up to a definite point. The oil when starting is more viscous than after a short period of operation, due to the difference of temperature. Now it can be seen that if the oil is proper during normal operation, it is likely to be too heavy when starting. Under such conditions it is very likely that the various parts will suffer for want of lubrication until the oil is thinned sufficiently to reach all points readily.



The Selection of the Right Kind of Lubricant and the Proper Use of It Control in a Large Measure the Efficiency of the Engine

Jayhawker's Farm Notes

BY HARLEY HATCH

ON ACCOUNT of the coal strike the talk of the last 10 days has been of fuel. No one here so far as can be learned has suffered with the cold. It would have been strange if they had, in a country that produces four such valuable kinds of fuel, as coal, wood, oil and natural gas. The coal veins under this locality are thin but they have been worked in the past when coal was only one-fourth the price it is today. Few of us who live in the country have natural gas but it is used in many of the nearby towns and it has been a wonderful help to them in the last month of coal shortage.

Other Sources of Fuel

In naming the different kinds of fuel mentioned in the foregoing paragraph, do not think I have exhausted the list. There are a number of others which might be named which are plentiful here but to use them would make the fire a costly affair. For instance, there is hay, a fuel on which we cooked and kept warm for two years some 35 or more years ago in the much colder climate of Northern Nebraska. In those days hay cost \$1 a ton in the stack but no one ever bought hay as the lower grounds were covered with slough grass which made the best fuel of all the wild grasses. One of our nightly chores was to bring several big armfuls of this hay into the stable where we made it into "twists" each about the size of a stick of stovewood. It kept one busy tending the fire; a twist had to be put in and then, when it had burned off the outside, it had to be pried open so that the remainder might burn. Two big armfuls of slough hay made into twists were required to keep us warm. Of course a house in which hay was burned resembled a barn to some extent for it was littered with hay all about the stove. The smoke from the hay penetrated everywhere in the house and even the clothes which hung in the little garret smelt like a prairie fire. It was easy to spot the man from a hay-burning household. Even in town the hay smoke on his clothes could be smelled across the street. No smoke has so loud a smell as that of hay if we except the smoke of the pipe of the man who used "homestead" tobacco.

Burning Corn Stalks

Another fuel which we used during the first winter we lived in Nebraska was cornstalks. As we arrived rather late in the season in our new home we did not have time to put up much hay. To make good fuel, hay should be of good quality. As a rule the better the hay was to feed, the better fuel it made. So, not having good fuel hay, we burned cornstalks and in addition had to go to the nearest cornfield for them which was 2 miles away. We cut them with a hatchet and piled them in a wagon box. If the weather was warm, one load would last two days; if it was cold, as it seemed to be most of the time, one load was used every day. I can distinctly recall the deep snow of that time which made that 2-mile trip a long one on the days when the mercury was 20 below zero. We had no overshoes, nothing but hard leather boots, and tho our feet were often frosted nothing more serious than chilblains resulted. I did not mind that experience much at that time but I would feel considerably aggrieved if I had to go thru it again today, even in the milder climate of Kansas.

Pioneer Aristocrats

There were aristocrats even in those hay-burning days of 40 years ago. They were those who later had hay burners and did not have to twist their hay to burn and who saved, to a great extent, the litter of the twists. And let me say here, that there were some too lazy even to twist the hay. They brought it in loose and poked it into the stove that way. So there were three grades or groups of hay burners: those who burned loose hay, those who burned hay twists and those who had hay burners. These burners were made of sheet iron and were almost the size and shape of a big wash boiler. The

man who was well fixed had two of these and when one had burned out the other was ready to clap on the stove. To use them, all three of the front covers of the stove were taken off and the burner full of hay turned upside down over the space. One of these burners when in full blast would make a tremendously hot fire but it took a lot of hay to keep it going. They were taken to the haystack to be filled, where they were tramped full of loose hay. I can recall that some of them were in use among our north Nebraska neighbors as late as 1887. I can distinctly remember that these burners cost \$1.75 each and the man well enough off to have two of them was thought to be fortunate, indeed.

No Cars for Hay

And now from the subject of hay burning, let me turn to that of hay selling. I have, during the last two weeks, received a number of letters from persons living in Western Kansas who wish to buy hay. They write, asking what our price will be on a car of good prairie hay. Now I would like wonderfully well to fill those orders. Our barn is still so full of hay that we have not the room in it we would like and there is some stored in another place and the most of this hay is for sale. But it is out of the question to think of getting cars in which to ship just now. With the car shortage and the coal shortage, the railroads will not talk hay shipments, for hay is about the last commodity to be moved aside from scrap iron. Perhaps, a little later we can supply our Western Kansas friends with some good prairie hay at a price much below that which would be charged them in Kansas City but just now we cannot get the hay moved. I hope that a number who have written me in regard to this matter will take this as their answer.

I note that The Topeka Capital, in a recent article on construction, remarks that building costs in the city have increased 400 per cent during the last few years. No doubt this is true; the wonder is, that under such conditions the price of city property has not risen in like proportion. But it has not. Only in a few instances is the price of the older constructed city houses any greater than it was 10 years ago. Modern houses sell high, of course, but it seems that few desire the old style house. While city construction costs have been increasing by 400 per cent, country construction costs have been largely increasing also and it would astonish many readers if they knew the amount it would take to replace their buildings. It would be well to take every precaution against fire and also to keep all buildings repaired and painted. It would also be a good plan to increase all insurance in force. We don't think of such matters enough. It is only when we are compelled to rebuild that we note how much the increased cost is. I believe that every farm building which has been insured for more than three years is under insured by at least 75 per cent.

Farmers' Course January 5

The farmers' short course of the Kansas State Agricultural college will open Monday, January 5, and continue until February 28. It attracts from 100 to 200 young farmers annually, and plans for the maximum number are being made this year.

Within the limitations of the program offered for this short course, the students are allowed to select exactly the subjects they most desire. The subjects to be selected deal with livestock production, dairying, soil and farm management, mechanics, including blacksmithing and carpentry, poultry and bee keeping; in fact every subject of vital interest to the farmer. A similar course is offered in dairying.

It was Henry Drummond who said: "There is no happiness in having and getting, but only in giving; half the world is on the wrong scent in the pursuit of happiness."

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FURNACE—is 15 in. deep, 6 feet long. Made of black range steel. Has heavy angle iron legs and is ironed off around top on inside with angle iron on which vat sets. Equipped with heavy door having draft regulator. 4 ft. smoke stack and removable grate for burning coal.

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With the Homemakers

Stella Gertrude Nash, Editor

After Many Years of Farm Life Mr. and Mrs. Brooks Now Enjoy the Comforts Electricity Brings



Mr. and Mrs. Brooks of McCune.

MY FATHER, who was a minister, prepared all of his sermons and did all of his studying by the light of the fireplace. Fifty-two years ago my wife and I started housekeeping by candle light. After awhile along came the coal oil lamp and how we did enjoy it! But see what we have now! And with that, F. W. Brooks, who lives on a farm in Cherokee county, snapped on an electric light.

The Brooks home, which is 7 miles from McCune, Kan., is one of those delightful farm homes governed by wholesome hospitality. The living room covered with that "ever homelike" rag carpet with its bright and well mingled colors and furnished with great chairs that one knows have made comfortable and happy a group of sturdy boys and girls, now has in it the modern means of lighting.

As the number of years which Mr. and Mrs. Brooks have been married would indicate, they are getting well along in years. This last fall they felt they were not physically able to do the heavy work about the house, and so they installed an independent electric light plant, and now electricity does the work for them. Mr. Brooks enjoys attending to the plant and takes full charge of making necessary connections of motor to equipment.

When installing the lights in the house all the little conveniences that would make work easier for Mrs. Brooks and the daughter were put in. The light in the living room has a long extension cord so it is possible to carry the light about in case one wishes to do so. Mr. Brooks says he often desires to hunt for something in a box or dresser drawer and so he just takes his light with him. This extension cord proved an aid the other night that really had not been planned for. During the night Mrs. Brooks was taken suddenly ill and it was necessary to administer heat at once. Mary Brooks remembered the electric light and the extension cord and thought she would use that means of securing quick heat. The heat from the bulb soon brought relief to the mother, and now an electric pad is to be added to the new equipment for, of course, the family realizes there is an element of danger in using the light bulb for such purposes.

Lights were placed in all of the barns and sheds and Mr. Brooks proudly said: "I can go about the barns at night as well as I can the house for they are all lighted the same, just as bright as day any time of night."

A plug was placed in the kitchen wall for the attachment of the iron. This was a thoughtful arrangement for now if it is necessary to iron at night or on a dark day, artificial light can be used. This would be impossible if the iron were attached to the light socket. The iron which is used in the Brooks home is a very powerful, heavy one. It heats easily in 3 minutes, the

current being so strong that the company who installed the plant advised them to keep the engine running while they were using the iron.

"I do not even have to turn the cream separator any more. I have resigned in favor of this," said Mr. Brooks as he pointed to a small and easily moved motor which not only operates the cream separator but also turns the washing machine. It was possible to attach the motor to the washing machine that has been in use on the Brooks farm for many, many years. This fact is not a small item at this time of high prices. The cost of the electric current for lighting and for power is not any greater than the cost of fuel used before the plant was installed.

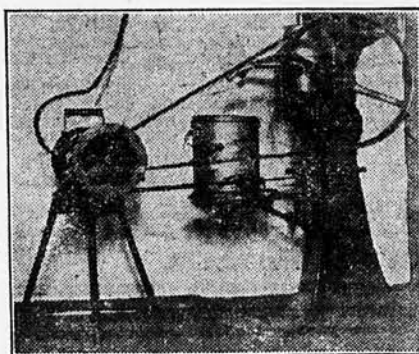
It is remarkable that power can be installed on farms to lift the burden of heavy work from all homemakers, but when such conveniences can come within the reach of those who have toiled thru the long hard years and who so deservedly have earned the comforts of life, and should have things made easy for them during their old age, it is then we appreciate what modern invention is doing.

Mrs. Ida Migliario.

Children Need Warm Food

With the arrival of winter comes the perplexing problem of the school lunch. Where the rural teachers have arranged for the preparation of one hot dish for the noon lunch, much of the burden of preparing some nourishing dish for the children has been lifted from the mother's shoulders. Many of the rural schools have successfully arranged for the cookery of some one simple hot dish to be served with the lunch the children bring from home. Where it has not been possible to arrange for a simple course in domestic science that would give the instructor an opportunity to teach cookery, it has been found that by using the top of the heating stove, a few cooking utensils and dishes donated by the children, and supplies furnished by the parents by turns, it has been possible to prepare a hot soup, or cook some vegetables as potatoes or rice, or make a bowl of cornmeal mush to be served with milk, or a cup of good nourishing cocoa or chocolate.

Nothing has a greater influence on



Electricity Turns the Separator.

the child's health than food. Results of the physical examinations of school children show that at least one-third are underweight, and since the child is in school from seven to nine months of the year, during the ages of 5 to 14 and in many cases longer, it is necessary that the preparation of the lunch be given the greatest thought and consideration.

If it is impossible for the teacher to arrange for the cookery of a hot dish in school, it is possible for every child to carry a thermos bottle with the lunch kit. A standard quart and pint thermos bottle will keep a liquid hot 24 hours, a half pint bottle 10 hours, so there is ample opportunity for the mother to prepare some good nourishing soup each morning, pour it into the thermos bottle and the

child can enjoy the hot dish with the other foods at noon. Hot cocoa carried in the thermos bottle and taken just after the long walk or ride to school in the morning will aid greatly in starting circulation, thus helping the child to get his mind settled down to his books; then there will still be hot cocoa for the lunch at noon.

Cleanliness in connection with the thermos bottle cannot be too strongly emphasized. Air can enter only thru the opening for the cork at the top, and if air is not allowed to enter the bottle, it will become foul as will the air in a room which is not properly ventilated. Accordingly, after using the bottle it should be washed as any glass bottle, using care to prevent leakage. The cork should be scalded, especially if milk has been in the bottle. The cup, bottle and cork should then be placed where air can get to it and allowed to remain until the bottle

is again in use. It is well when using different liquids to have extra corks to change occasionally.



This is the Brooks Home.

It is to be hoped that the time is not far distant when every rural school will have made the cookery of a hot dish to be served with the noon lunch as much a part of its daily schedule as the study and recitation classes for arithmetic, but until that time comes every mother should feel it her responsibility to make it possible for her children to be provided with some means of carrying with them a hot dish for their noon lunch.

Mrs. Ida Migliario.

About Cleaning Powders

The great natural cleaning agents are air, sunshine and water, but the homemaker finds that a little muscular energy must be added to these to produce the best results. It is frequently necessary to use chemical aids in restoring the bright luster of dining room and kitchen equipment.

When young married folk begin housekeeping and their silver and kitchen utensils are bright and shiny, they often are heard to say, "Oh! if everything would just stay bright and not lose the new look!" They do not realize that if they would supply their kitchen shelves with cleaning powders suitable for their equipment, they could keep the first brightness on their silverware and utensils.

The trouble with the most of us is that we do not think of using these cleaning powders until the articles have become so discolored that it is almost impossible to remove the stain. If we would use these agents frequently and thus keep the stain from getting "set" we would save ourselves work and at the same time prolong the life of the utensil.

We need to use a great deal of thought in planning the kind of cleaning powder our particular equipment must have.

We should remember that scraping and scouring scratch metal and chip glaze and because of this we must use a powder which will remove the foreign substance and not injure the material. Constant use is the best cleaning agent for silver, but even then it is necessary to use a powder on it frequently.

Silver which is not in constant use tarnishes quickly. For cleaning silver a powder must be chosen which does not contain grit. Silver scratches easily and the smallest particle of grit in the powder will mar the surface.

We do not see much brass or copper in the utensils of the kitchens of today but often some of the fixtures about the house are of brass and they are usually rather difficult to keep brightened. There are some acids which make excellent cleaning agents for these two materials as well as some of the powders of fine texture.

Almost every household nowadays has its aluminum ware, which always darkens with use. Some weak acids bring back to this ware its original luster, as do the soft, fine textured powders and some of the finer scouring wools.

Mrs. Ida Migliario.

Know How You Stand?

The plan I have used for keeping accounts has proved a satisfaction and encouragement in our household. The method is simple. A page in a notebook for each month indicates each day's produce such as eggs, butter, fruits and vegetables. Sales of any of these also are recorded. We also put down the time when various seeds were planted and prices paid for them, and the number of chickens hatched, sold or used, with expenses for hired help.

The summary for each month makes it easy at the end of the year to know what produce was profitable. We found that it pays to plow potatoes early, but chickens hatched July 28 took less care and paid almost as well as the early hatched ones. While this is not a complete record of household accounts which would include expenses for groceries and so forth, still it has paid us.

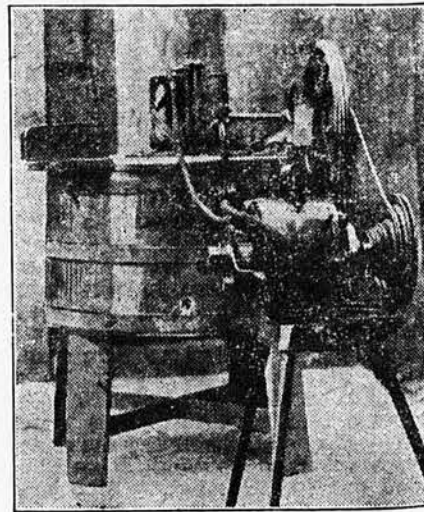
Mrs. J. T. Spriggs.

Rice Co., Kansas.

Cranberries are Healthful

The cranberry for lack of proper cooking, is the most abused and condemned of domestic fruits. Healthful, appetizing and economical, it should be a daily relish rather than an adjunct to Thanksgiving turkey. It is economy to buy good berries. They may easily be made into preserves and jellies, or they may be kept uncooked by storing, after cleaning, in glass or stoneware under cold water (previously boiled), airtight.

More sauce with less sugar proportionately can be made from a quart of cranberries than from a quart of any other berry. Don't cook in tin or iron ware; don't use cold water; don't cook long. A beautiful red jellied sauce may be made as follows: To 1 quart of cleaned berries add 1 pint of granulated sugar and 1 pint of boiling water. Place immediately over a brisk fire,



Motor Attached to Washing Machine.

stirring to mix the sugar with the water and coat the berries, then cover. When the berries begin to pop, mash until every berry is broken, continuing boiling during the operation. Remove from the fire after boiling 15 minutes.

For cranberry pie, line a deep plate with paste. Mix 1 tablespoon of cornstarch with 2 tablespoons of cold water, add to 1 cup of boiling water, bring to the boiling point and let boil 3 minutes. Add 2 cups of cranberries previously cut in halves and soaked in cold water for 2 hours to remove the seeds. $\frac{1}{2}$ cup of seeded raisins put thru the fine chopper, 1 cup of sugar, 2 teaspoons of vanilla, and a few grains of salt. Turn into a plate, cover with a crust and bake 45 minutes. This is a good imitation of cherry pie.

Shortcake made of cranberries will compare favorably with a strawberry shortcake. Try using the sauce described here in combination with your favorite shortcake dough.

Mrs. Vestal O. Hays.
Wabaunsee Co., Kansas.

An Envelope Clipping Plan

A scrap-book in the kitchen is very handy, but if you do not wish to bother with pasting your clippings in a book, try the envelope plan, each with a separate label, indicating its contents thus: Cakes, bread, pies, meats, vegetables, canning, laundry, household, sewing, fancywork, medical, personal, garden, poultry, dairy, children, recreation, and so on.

It takes only a moment to cut out a recipe and drop it into its place in an envelope. When I use a recipe for the first time, I mark it with the date on which I tried it, if I consider it worth repeating; otherwise it is discarded.

Zella Lewis Heald.

Ottawa Co., Kansas.

Wide Hip Effects are Worn

9480—Ladies' Waist. The front panel is joined to the sides with a deep tuck. The shoulder edges of the back extend over the gathered fronts in yoke effect. Sizes 36, 38, 40, 42 and 44 inches bust measure.

9502—Girls' or Boys' Bathrobe. Heavy Turkish toweling or woolen bathrobing can be used for a robe like this. Neatly stitched pockets and a



turn-over collar are applied. Sizes 2, 4, 6, 8, 10, 12 and 14 years.

9509—Ladies' and Misses' Long-Waisted Dress. If one wishes to obtain the popular wide effect at the hips and has a slender figure, this frock will be welcome. The dress slips on over the head. Sizes 16, 18 years and 36, 38 and 40 inches bust measure.

These patterns may be ordered from the Pattern Department of the Kansas Farmer and Mail and Breeze, Topeka, Kan. Price 12 cents each. State size and number of pattern.

WOMEN'S SERVICE CORNER

Readers are invited to make use of this department. When you have a perplexing problem you cannot solve, send it to the Women's Service Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan., then look for the answer in this column. There will be no charge.

Make Soap Without Boiling

Please print a recipe for making soap out of cracklings or waste fat without boiling. —Mrs. G. L. F., Osage City, Kan.

Empty a can of lye into a jug containing $2\frac{1}{2}$ pints of cold water. By stirring, it will dissolve immediately and get hot; let it stand until cold. In a basin, melt $5\frac{1}{2}$ pounds of any kind of fat or melted grease, only it must not contain any salt. Let it stand until it is just warm, then pour the liquid lye into the melted fat, in a continuous stream. This should take but a few minutes' time until the consistency of sirup is obtained. Pour the mixture into a square wooden box, lined with a damp piece of muslin to prevent sticking to the sides and bottom. Cover up with a blanket and set in a corner of the kitchen until the next day. You will then have a block of pure soap, weighing about 10 pounds.

To Can Mutton

I would like a recipe for canning mutton. —Mrs. J. F., Cawker City, Kan.

You may can mutton raw or cook it first as preferred. If you can it raw, cut into pieces, put in glass jars and add $1\frac{1}{2}$ teaspoons of salt to every quart. See that there is some fat meat in every jar so the meat will not be too dry as no water is added. Adjust the lids and sterilize 3 hours in a hot-water bath, 2 hours under 5 pounds steam pressure or 1 hour under 15 pounds steam pressure.

If you wish to cook the meat before canning, fry, roast, bake or stew as for immediate use. Season the meat to taste and cook until thoroughly heated thru but not until tender. Put in jars and sterilize $1\frac{1}{2}$ hours in a hot-water bath, 40 minutes under 5 pounds steam pressure or 30 minutes under 15 pounds steam pressure.

Removing Mildew and Ink

Please tell me what will take mildew out of white linen or colored goods. Is there anything that will remove ink? —Mrs. G. W. B., Colorado.

To remove mildew, dissolve 1 ounce of chloride of lime in 1 pint of boiling water; then add 3 pints of cold water. Soak the article in this from 3 to 12 hours. Remove, rinse thoroughly, and launder. If the chloride of lime is not thoroughly washed out the fabric may be injured.

Another method of removing mildew is to rub the spot with good yellow soap, wash, and while wet rub powdered chalk into it and cover with a layer of chalk. Lay the article on the grass in the sun and sprinkle clear water over it. Repeat this treatment until the mildew is removed.

Ink may usually be removed from cloth by soaking the spot in melted tallow. After the stain disappears remove the tallow by boiling in hot soap-suds. Another treatment is to wet the spot with milk and apply dry salt until it comes out. Ink stains also often are removed by soaking them in sour milk over night.

Interesting the Children

I have two boys and two girls all small. I wish to teach them that they have a part in making the home a merry, happy place, but I scarcely know how to go about it. Can you help me? —Mother.

Interest the children in the house itself by letting them make small repairs. They may not do perfect work, but they will have a certain pride in their work and a screw which has been tightened by them once never will have the chance to loosen again if they feel it their responsibility to do that repairing. When rearranging the furniture in the room ask their likes and dislikes and follow their suggestions in as many instances as possible. Let them feel that you value their ideas and they will soon come to know that that home is being planned for them, and they will have a vital interest in making it a happy place.

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1904

Health in the Family

Contagious Diseases Require Very Close Attention

BY DR. CHARLES H. LERRIGO

IN EVERY issue of this paper our readers are invited to avail themselves of the services of Dr. Lerrigo thru the columns of his department. No charge is made for this, but when a personal answer is desired postage should be enclosed for reply to each inquiry.

Experiences with Diphtheria

Personal performance is away ahead of any amount of theory. You know that, of course. I thought I knew almost all there was to know about diphtheria. I have attended dozens of cases. I have waited upon a single family of which six members were afflicted. I have given antitoxin to any number of patients. In the old days I have treated it without antitoxin. I have seen patients apparently get well, only to die of heart failure. I have seen some who never gave the least sign of getting well from the very start of the trouble. I have seen mild cases. I have seen severe cases. I have seen enough of diphtheria to make me feel myself rather familiar with it.

A Recent Case

But recently I had a case of diphtheria in my very own family, a case with which I was quarantined, and I learned several new things that are worth telling. In the first place I renewed an old piece of knowledge, that you can't say a sore throat is not diphtheritic because the patient is not very ill. My little chap did not seem very ill, but, when I swabbed his throat and sent the specimen to the bacteriologist she discovered, after giving the germs a chance to grow a little, that there was every evidence of diphtheria.

I suppose one reason why we cannot stamp diphtheria out of existence altogether is because it is so often of mild type, the patient neither acts nor feels very sick, mingles with others, and so spreads the disease. I think that bad cases scarcely spread the disease so much as mild ones. The only way to say whether a suspicious sore throat is or is not diphtheritic is to have a swab taken, a culture made, and a microscopical examination for bacteria.

It is well to remember that diphtheria may work a great deal of damage without making the patient feel very bad. I knew of a case in which a young lady who had the disease was in good spirits the whole time, complained of no pain, but did have a rather obstinate membrane. In spite of her lack of distress, when that membrane did disappear it took the soft palate with it.

The patient with diphtheria who is very ill is often too stupid to complain or make much trouble about anything. If this is accompanied by delirium it is a very dangerous symptom. I much prefer diphtheria patients who are lively enough to demand attention.

Laryngeal Form

In the case of my boy the membrane was not heavy at any time and at no time did it appear anywhere excepting upon the tonsils. Yet it would have been a grave mistake to call it tonsillitis. As a matter of fact diphtheria may develop upon any membrane of the body. It has been found to come, in some very bad cases, so low down in the throat that it could not be seen at all. This laryngeal diphtheria is the most dangerous type, altho it is close run by the nasal type. The laryngeal type is dangerous because it attacks a region very rich in blood supply and therefore poisons the whole system. Diphtheria that appears only on the tonsils and pharynx is mild as compared to the other types.

In the old days diphtheria used to be treated by sprays and gargles with the object of getting rid of the membrane. This was very hard treatment for both patient and doctor and did very little good. Nowadays neither sprays nor gargles are used to any extent, it being pretty generally understood that they do no good. External

applications are worse than useless.

Now as to antitoxin treatment. The evidence in its favor is that it cures the patients. When given early one dose is sufficient. Inside of 24 hours the membrane is seen to curl up at the edges, and soon separates and is cleared away. Antitoxin as a cure for diphtheria is one of the outstanding, definite triumphs of medicine.

The Use of Antitoxin

But I want to tell you a point that came to me with new force in this case of my very own. I have given antitoxin many times and of course I knew that it is not an agreeable medicine to give, at the very best. If the patient is a child there is sure to be a complaint and some slight struggle about its administration, since it cannot be given any other way than by hypodermic injection. I knew, too, that there is always some soreness and stiffness of the muscles for 24 hours after administration.

But I did not attach much importance to this feature. You know how it is with a doctor. He gives his treatment, goes away, and sees no more of the patient for a day or more. When he comes again there are so many important things to see about, that the little things are overlooked.

In this case the doctor remained on the job. I gave 10,000 units of antitoxin to my boy about noon. He had been feeling fine, so well that it was hard to keep him in bed. He fussed a good deal about having the serum injected but got over it in a few minutes, ate his dinner and continued to feel all right.

About the middle of the afternoon he began to complain of pain at the site of the injection. This made him very restless. He cried and moaned, his temperature went up 2 degrees and he was very miserable, for the first time in his illness.

This made me think: "Supposing I were not a doctor. I had called the doctor for my child. He had given him this medicine. In a few hours the child is apparently in more distress than before. How should I feel?"

It brings home the fact that your family doctor must be a man in whom you can have confidence. You must be quite sure that he knows what he is doing. He may have to do things to you or your children that will seem quite harsh for a time.

As a matter of fact the boy began to feel easier by evening. He had a difficult time finding a comfortable position to lie down but when he did get settled he slept well all night. He was still sore on waking but his throat was clearing. The soreness left him as the day went on and by the next morning he was feeling all right and his diphtheria had vanished.

If this had been a case that I saw in my practice, the soreness would have been reported to me, but since the boy got along so well no one would have made much of it. But I think it is as well for you to know that the muscular soreness that an injection of antitoxin produces is no light matter, but may be very distressing for 24 hours. However, in comparison with the good that it does in overcoming the dreadful poison of diphtheria the muscular distress that it gives is indeed a slight matter. I am telling you about it so that you won't consider it strange or alarming in case such an experience should come to you.

Does antitoxin have a bad effect upon the heart? No. It relieves the heart by counteracting the poison of diphtheria. It is true that patients sometimes die of heart failure after being given antitoxin. But that is not because of the serum but for other reasons that would cause death anyhow.

Diphtheria is a disease that is very hard on the heart. I kept my boy in bed a full week after recovery. Don't forget that the way to avoid heart disease in adult life is to maintain quiet and rest in children for a goodly period after their various illnesses.

For Our Young Readers

This Little Girl is Mother's Helper and Father's Standby

BY MRS. IDA MIGLIARIO

VIRGINIA HULBERT, who is only 6 years old, is her father's "right hand man," when it comes to taking care of the cattle. Virginia and her parents and her little sister, Joy, live on an 8,000-acre ranch, 20 miles from Meade, Kan.

When Virginia was 4 years old her father bought for her a Shetland pony, saddle and bridle, and she learned to ride, always in company with her father when he was not going too far across the range. The Shetland finally grew too strong for Virginia; he was very small and he was very tough mouthed. If he took a notion to go under, thru or over a fence he would do so without asking Virginia anything about it. As Virginia's arms were not strong enough to pull the reins hard enough for him to feel them, Mr. and Mrs. Hulbert decided they had better sell the Shetland and buy a horse for their daughter. So now Virginia has a pony just as large as the one her father rides and she can lead her father a merry chase as they gallop across the range.



Virginia and Joy.

During the day when it is time for the calves to be watered, Mr. Hulbert says, "Get ready, Virginia. We will have to go over to the pasture 2 miles south and round up those Herefords and water them." At once Virginia goes upstairs and her father goes out to the barn. She is gone but a few minutes when she appears wearing a small pair of brown unionalls, chaps, spurs, and cow-boy hat with a leather chin strap. If one questions the reason for the tiny but ferocious spurs, Virginia says with a smile, "That old horse is getting too lazy for me." Upon going to the door one sees slowly walking up to the house from the barn a horse all saddled and bridled, and one cannot help wonder how so small a girl ever can mount so tall a horse. The problem soon is solved for when the horse stops one sees hanging from the saddle a little rope ladder with wooden rungs, and Virginia climbing the ladder as a squirrel climbs a tree. On the last rung which is near the saddle, Virginia puts her knee and not her foot, this places her in the right position for swinging her free foot over the saddle. She then fastens the ladder over the saddle horn and away she goes to join her father who is waiting for her.

When the specified pasture is reached Mr. Hulbert says, "All right, Virginia, you go after that bunch and I'll take these." There is no time wasted, neither are there any calves missed, for Virginia knows the pretty little animals as most girls her age know their dolls. Can you imagine a more

attractive picture than a little 6-year-old girl, dressed in typical cow-boy clothes taking a bunch of 100 calves almost of one size, and with their white eager faces all turned toward a stream of water that seems to be skimming along on the very top of the earth, for there are no banks, and no trees or shrubs on the 6 miles of creek that flows thru the Hulbert ranch.

Virginia lolls in the saddle with as much ease as if she were rocking in one of the big chairs in front of the fireplace in her home.

Virginia is a little lady of the cattle range and she is also a little woman of the home. She has in her home all the modern conveniences of a home in the city, and she feels it as much her duty to help her mother entertain guests as it is her responsibility to help her father round up the cattle. When guests arrive at the home Virginia and her mother meet them at the door, but it is Virginia who shows the guests to their room, and stands outside the door and waits until they remove their wraps and make themselves ready to go down to the living room to join the family. Then this little woman of the home takes them to the living room and turns them over to her mother.

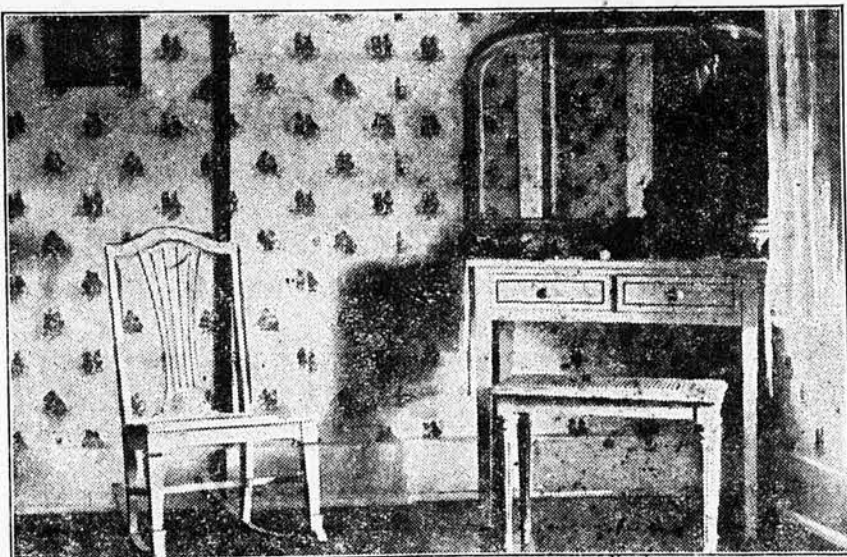
Virginia's favorite pastime in the house is the entertainment of her little sister, Joy; and she loves to get a pillow and sit in front of the fireplace watching the flickering of the flames. It gives one a new inspiration to stand unnoticed by Virginia while she is thus sitting and to study her, for one just knows from the thoughtful expression on her face that her motherly little heart is wondering whether or not the cattle and the calves out on the range are as comfortable and warm as she.

The Children's Bedroom

Virginia and her sister have a beautiful bedroom. The color scheme is cream and rose; the wall paper is designed in nursery rhymes, worked out in tones of these colors. Even older persons find great pleasure in going into this room for they are reminded of the story of Jack and Jill, Little Boy Blue, and so on. The pictures on the wall are such as children enjoy, "The Madonna and Child," "Little Red Riding Hood," and kitty pictures. There is a book shelf in their room filled with picture books, for the little girls are not old enough for story books. The room is furnished with a bed, dressing table, a bench, and a small rocker, all in old ivory.

Virginia is learning to keep house along with her other accomplishments, for in her clothes closet are little hangers and on these hangers are kept the little dresses of the two sisters. Virginia is a great deal of help to her mother in the kitchen.

When Virginia was asked if she would prefer living in town to out on the ranch she quickly replied, "Well, of course, I would have more little girls to play with, but I wouldn't have my horse to play with any more."



This is a Corner in Virginia's and Joy's Beautiful Bedroom. The Wall Paper is Designed in Nursery Rhymes. The Furniture is Ivory Color.

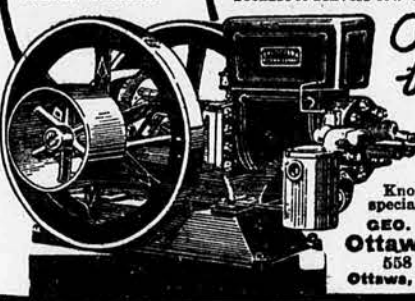
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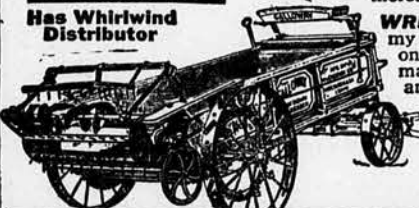
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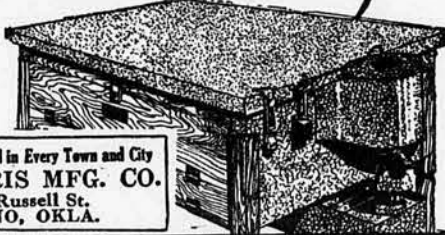
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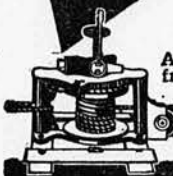


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Capper Poultry Club

We Take a Look Over the Past and into the Future

BY BERTHA G. SCHMIDT
Club Secretary

Here's a bright new year for me,
Every page of it unsoiled;
Here's a book in which shall be
Records of the way I've toiled.

WHEN I came across those lines of Edgar A. Guest in a copy of The American Boy a few days ago they impressed me as carrying exactly the message which I wish to give to Capper Poultry club girls at the beginning of this new year and at the end of the old. The message is for the girls who are entering Capper Club work for the first time as well as for those who are continuing in it.

As we are closing our book for the year that is passing—the imaginary book I mean in which we view the mental pictures of our achievements—we recall the work that we have done well. Club girls see the records of the way they've toiled, not only in raising

the help of those at the office would soon lose its attraction.

"I want to say that I think the system that you have worked out for deciding the contest is a very fair one and I think it would be well to adopt it permanently, with any changes that may be needed. If the girls knew that the same plan would be used next year, they would know how to work more systematically for the prize."

My desk has been deluged with letters during the last few days, from club girls and from members of the mothers' division, telling me that the blanks for the annual reports have not arrived and that they are getting nervous about not having their reports in on time. And I want to tell you that I was getting nervous about it, too. The delay was due to overwork in the department in which the blanks were multigraphed. When the blanks and the letters to go with them finally arrived, you of course noticed that I had added a paragraph explaining the delay and extended the date when annual reports were due from December 20 to 24. I feel sure that this has given even the girls living at a distance ample time to get the reports to me. The eagerness of the girls and the mothers to send the reports speaks well for the work of the club. In quite a number of instances the club stories and reports arrived before the 20th notwithstanding the fact that the report blanks had not been sent out.

I am giving you the pep standing of the clubs as it is at the present writing. The winner of the pep trophy and the county leader prize winners will be announced as soon as possible.



Rose Etta Fowler of Douglass County.

chickens but in making their monthly meetings a success and in working in accord with their team mates. Mr. Guest's poem continues:

Just before I leave the old
To adventure in the new,
I resolve with faith to hold
To the work I have to do.

Those are good lines for club girls to remember, too, but best of all are the final stanzas:

Let me then resolve to be
Faithful to the trust I find;
Good in others I must see,
Honest I must be and kind.

And at last when this year ends,
I shall find that every test
Brought me happiness and friends,
If I've always done my best.

Not long ago a mother of a county leader wrote to me thus:

"Naturally my own little girl is first to me, but I always think of the other two little girls who are near the top. I tell my little daughter that some two little girls are going to be disappointed. If she doesn't win, I feel that the club work has done wonders for her in so many ways and was time well spent. We realize that you can give none of the leaders help, yet we wonder if you were to make suggestions to them just what you would tell our girls to do that they haven't already done. If you were not impartial, the girls would not value your decisions as they do and a trophy cup that was won by

County	Leader	Points
1. Linn	Hazel Horton	8197
2. Atchison	Lillian Brun	7919
3. Johnson	Helen Andrew	6128 1/2
4. Crawford	Letha Emery	5550 1/2
5. Coffey	Ruth Wheeler	4737
6. Cloud	Laree Rolph	3485
7. Dickinson	Hazel Patton	3226 1/2
8. Rice	Marjorie Smith	3121 1/2
9. Reno	Roena Love	2785
10. Clay	Lenore Rosiska	2527
11. Butler	Myrtle Dirks	1748 1/2
12. Stafford	Naomi Moore	1507
13. Douglas	Lillian Milburn	1035
14. Shawnee	Gwendolyn White	761 1/2
15. Rooks	Elma Evans	608 1/2
16. Jackson	Vera Brown	547
17. Republic	Agnes Neubauer	392 1/2
18. Gove	Anna Cooper	349
19. Ford	Wilma McKee	183 1/2
20. Elk	Clara Schneider	178
21. Greenwood	Anna Greenwood	184 1/2
22. Osage	Edith Ingersoll	146

Girls who wish to join the club should fill out the application blank and mail it at once. Recommendation blanks will be sent without delay. As soon as a girl has filed satisfactory recommendations she becomes a member of the club, provided membership has not already been completed.

Here's a picture of Rose Etta Fowler of Douglas county. Rose Etta's chickens are White Wyandottes.

Our Three Best Offers

One old subscriber and one new subscriber, if sent together, can get The Kansas Farmer and Mail and Breeze one year for \$1.50. A club of three yearly subscriptions, if sent together, all for \$2; or one three-year subscription \$2.00.

Capper Pig and Poultry Clubs

Capper Building, Topeka, Kan.

Earle H. Whitman, Club Manager; Bertha G. Schmidt, Secretary. Send Pig Club applications to Mr. Whitman; Poultry Club to Miss Schmidt. I hereby make application for selection as one of the representatives

of.....county in the Capper

.....Club.

(Write pig or poultry club)
I will try to get 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 club work in the Kansas Farmer and Mail and Breeze and will make every effort to acquire information about care and feeding of my contest entry.

Signed Age

Approved Parent or Guardian

Postoffice R. F. D. Date

Age Limit: Boys, 12 to 18; Girls, 10 to 18.

The Adventures of the Hoovers

*Buddy's Next Trapping Run Proves Interesting in Value and Also in Trouble.
Farmer Jones Demands Damages and Gets More Than He Expected*



4 BIG PICTURES BEAUTIFUL -GIVEN SOLVE THIS PUZZLE

**\$1500.00
IN
PRIZES**

19-5-14-4 6-15-21-18
2-9-7 16-9-3-20-21-18-
5-19 6-18-5-5

This is a very interesting puzzle. It is not hard either—just requires a little ingenuity and skill. The above figures represent 4 words. We have used figures instead of letters in spelling the words. For instance, there are 26 letters in the alphabet, letter A is 1, B is 2, C is 3, etc. If you can spell out the 4 words, write them on a piece of paper and mail to me at once and I will send you POSTPAID 4 big beautiful pictures. See offer below. But you must HURRY. Do it TODAY. A post card will do—just write the 4 words on a post card and mail it NOW.



This is the most wonderful series of pictures on the market. Very newest and appropriate designs. Beautifully colored and 12x16 inches in size. Elegant to frame. You can't realize the real beauty and value of them until you have received them. Everyone is wild about these pictures and they go like wild-fire. Solve puzzle and write TODAY—QUICK. See offer below.

A Total of 15 Grand Prizes

1. FORD AUTO.
2. \$250 Culver Auto.
3. \$200 American Flyer Auto.
4. \$100 Shetland Pony.
5. 17-Jewel Elgin Watch 20 year case
6. 17-Jewel Elgin Watch 20 year case
7. 15-Jewel Elgin Watch 20 year case
8. 15-Jewel Elgin Watch 20 year case
9. 7-Jewel Elgin Watch 20 year case
10. 7-Jewel Elgin Watch 20 year case
11. 3 1/2 x 4 1/2 Folding Eastman Kodak.
12. 3 1/2 x 4 1/2 Folding Eastman Kodak.
13. 3 1/2 x 4 1/2 Folding Eastman Kodak.
14. Ladies' or Gents' Fine Wrist Watch
15. \$5.00 in Gold.



NOTICE!

**Every Club Member Rewarded
HOW TO JOIN**



This is a wonderful bargain in a Gold Filled Signet Ring. Beautifully designed and engraved and suitable for either man, woman, girl or boy. It is given for promptness only and is in addition to the 15 grand prizes.

I am conducting this puzzle in connection with a big introductory campaign, whereby we will give away 15 grand prizes as listed in this advertisement. When I receive your solution to the puzzle, I will send you the 4 beautiful pictures to distribute on my wonderful fast selling 25c offer. When distributed you will be an Honorable Member of my club and receive as a reward the beautiful Signet Ring POSTPAID, and 10,000 votes towards the grand prizes. Many do it in an hour's time. But you must be prompt. The first thing to do is to solve the puzzle and send the 4 words on a post card. Attend to it NOW. Don't miss this wonderful opportunity.

M. House, Mgr., 609 Capper Building Topeka, Kan.

Snow Benefited the Wheat

Many Farmers Top Dressed Crops With Straw

BY JOHN W. WILKINSON

SNOW may have its disadvantages but it also is often a blessing in disguise. During the severe freezing weather of December the ground was covered with 2 to 10 inches of snow which blanketed and protected the wheat, the alfalfa and other pasture crops against winter killing. During the past week most of the snow has melted and farmers report that the wheat has a good color and seems to be in good condition. However, if another extremely cold spell should come before another snow falls there is no doubt but that a great deal of wheat and alfalfa would be winter-killed.

A Good Use for Straw

A number of farmers have top dressed their crops with straw and indications now are that this will be one of the seasons when such work will prove highly profitable. The cost of a good straw spreader is small when compared with the benefits that result from top dressing wheat and pasture crops with straw. Not only does it afford protection against winter killing, but the straw when it decays adds to the humus of the soil and this improves both its fertility and its moisture-holding power. Present indications are that next year will be one of the seasons when wheat will bring a good price as the nations of Europe will have to depend on us for a large part of their wheat for some time to come. Hence it is all the more important that farmers do everything possible to increase their yields on this valuable crop. Late estimates show the following yields of wheat in the world's leading wheat producing nations: United States, 918,471,000 bushels; British India, 278,021,000 bushels; Canada, 199,240,000 bushels; Italy, 154 million bushels; Spain, 133,939,000 bushels; Japan, 29,800,000 bushels, and Tunis, 6,600,000 bushels. These are the estimates made by the International Institute of Agriculture at Rome, Italy.

Kansas Livestock Worth Millions

The livestock situation still continues unsatisfactory in many ways, but there have been increases in the numbers of all kinds of livestock in Kansas except mules and beef cattle, according to a report just issued by J. C. Mohler, secretary of the Kansas State Board of Agriculture. On March 1, 1918, there were 4,300 more horses, 103,000 more milk cows, 70,000 more sheep, and 110,000 more swine on hand than a year previous. The values of all livestock except horses have increased over those of last year as follows: Mules, \$5 higher, or \$140 a head; milk cows, \$7 higher, or \$82 a head; other cattle, \$4 higher, or \$54 a head; sheep, \$1.50 higher, or \$12.50 a head; swine, \$2 higher, or \$22.50 a head. Horses have decreased an average of \$9 a head and are now valued at \$111. The aggregate value of Kansas livestock increased \$9,204,000 over that of 1917, despite the unsatisfactory prices paid for cattle and hogs. A study of the hog market for the period of 10 years shows that the two high points in the hog market come in September and April in nearly every instance while November, December, January, February are the months when the lowest prices are paid. So it would seem that one way to get better prices would be to market more hogs in April and September and not so many in the months when low prices prevail. Local conditions of crops and farm work of the state are shown in the following county reports:

Barton—Farmers who have wood are cutting it. Roads are bad but weather is pleasant. Butter is 65c.—Elmer J. Bird, Dec. 20.

Brown—Snow which fell Thanksgiving is still on wheat, but farmers believe that it has not been damaged. There is plenty of feed in the county. Horses sell very low at sales. Everything is selling for less than a year ago. Wheat is \$2.42; corn, \$1.32; cream, 72c; eggs, 60c; hens, 18c; hogs, \$12.—A. C. Dannenberg, Dec. 19.

Butler—The snow which fell November 27 lasted more than two weeks. Wheat and rye are in excellent condition. Livestock is doing well considering the cold weather. A few sales have been held recently and healthy livestock brought satisfactory prices. Feed and grain are high. Alfalfa is \$28; bran, \$2.25; corn, \$1.60; eggs, 80c; butter, 70c.—Mrs. Charles Geer, Dec. 20.

Chautauqua—We are having cold weather and wheat is in very poor condition. A great deal of it has been frozen out. Live-

stock is doing fairly well. Feed is high and farmers are getting along with as little as possible. All livestock is cheap except good milk cows. Farmers are not satisfied with conditions. Corn is \$1.75; corn chops, \$3.50; shorts, \$3; bran, \$2.25; cotton seed meal and cake, \$4.50; flour, \$7; hogs, 9c to 12c.—A. A. Nance, Dec. 13.

Cherokee—We are having winter weather but no snow has fallen. Prospects for wheat are good but the new wheat acreage is only about 40 per cent of the usual acreage. Livestock is in good condition but farmers are selling, and not buying it. Wheat is \$2.33; corn, \$1.50 to \$1.75; bran, \$2.60; shorts, \$3; chickens, 20c; hogs, \$13.—L. Smyers, Dec. 20.

Cheyenne—We have had fair weather the past week and the snow is almost gone. Fields are soft for husking corn but farmers are taking advantage of the good weather. Wheat still is in good condition. Livestock is doing well, and some has been turned on grass to feed. The new wheat acreage is estimated at 125,000 acres, about 15 per cent less than last year. Elevators are full and some are dumping wheat on ground.—F. M. Hurlock, Dec. 20.

Clay—A week of ideal weather has given many farmers a chance to put up ice, which is of a good quality. Hauling wood and pumping water for livestock has kept farmers busy. Snow is melting and roads are becoming heavy. Wheat is in good condition. Livestock is wintering well. No. 2 wheat is selling for \$2.55; corn, \$1.45 to \$1.65; flour, \$3.30 a 48-pound sack; hogs, \$13; fat cattle, \$11 to \$12; potatoes, \$2.30; hens and springs, 20c; turkeys, 31c; ducks, and geese, 12c; rabbits, 8c and 12c; butterfat, 75c; eggs, 65c.—P. R. Forslund, Dec. 20.

Cowley—We have had some zero weather in the past 10 days, with sleet but no snow. Wheat is in all stages of growth. A few fields are large enough to show green and some are not up yet. Corn is yielding from 10 to 25 bushels an acre. Kafir crop is poor. Feed is scarce. Milk cows bring satisfactory prices at sales but other livestock sells low. Butterfat is worth 78c; milk, \$4.20 a cwt.; potatoes, \$2.50; hens, 20c; hogs, \$12.50.—L. Thurber, Dec. 20.

Douglas—The snow is nearly all melted, but it looks as if more would fall soon. Wheat is in good condition. Corn has been gathered. Some farmers are butchering, and many are chopping and sawing wood. A great many fat hogs will be marketed, and prices are low according to the price of corn which is \$1.45. Horses are very cheap but mules bring a little higher prices. Wheat, \$2.10 to \$2.35; hogs, \$12.50 to \$13.—O. L. Cox, Dec. 20.

Edwards—Weather has been unusually mild during the past week. Cows are not giving much milk because they are on dry feed. Some wheat is going to market but the car shortage still is serious. Wheat stood the severe cold spell very well.—L. A. Spitz, Dec. 20.

Elk—The past few days of mild weather were very welcome. Roads are smoothing down. Wheat is backward. Many farmers are getting up wood. Eggs are 72c; cream, 72c; corn, \$1.65, shipped in.—Charles Grant, Dec. 19.

Ellis—We had zero weather from December 1 to 13 which was hard on livestock. Weather now is warm and snow is almost melted. East and west roads are impassable. Some farmers have put up ice for next summer. The ice is from 10 to 12 inches thick. Wheat is worth \$2.25 to \$2.60; corn, \$1.45; shorts, \$3; flour, \$7.—C. F. Erbert, Dec. 21.

Ford—Weather is warm and fields are dry. All snow has disappeared except a few drifts. Some fields of wheat are in good condition, but others do not seem to do so well. Livestock came thru the storm satisfactorily. We have plenty of feed. Horses and hogs sell cheap. Butterfat is 72c; eggs, 68c; wheat, \$2.60; corn, \$1.25.—John Zurbuchen, Dec. 19.

Hamilton—First half of December was very cold. The temperature was 16 degrees below zero and several light snows fell. Many cattle have been shipped out and farmers are prepared to feed those that are left. Many wells froze up and many pumps burst during the cold spell. Weather has been pleasant for the past week and the snow has melted. Horses are cheap but mules bring satisfactory prices. Many sheep are being shipped here. Cream is 68c; country butter, 65c; head maize, \$1.75; shed maize, \$2; corn, \$1.70; eggs, 60c.—W. H. Brown, Dec. 20.

Johnson—Weather is warmer and it now is thawing after two and one-half weeks of severe winter weather with ice and snow covering all vegetation. Farmers are chopping, hauling and sawing wood. Livestock is in good condition. A few public sales will be held.—L. E. Douglas, Dec. 18.

Leavenworth—Snow and ice are melting. Late plowed and late sown wheat isn't doing well. There still is grass in some pastures. Livestock is in good condition but required much feed and care during the zero weather. Many farm sales have been held. Some farmers are selling grade cattle and buying purebreds. There are not many hogs on feed.—George Marshall, Dec. 18.

Linn—Weather is cold and no more farm work than is necessary is being done. Coal is scarce. Farmers are chopping, and hauling wood to town at \$5.50 a cord. Some anxiety is felt for late planted wheat on account of the recent sleet. Corn is \$1.38; eggs, 60c; cream, 69c.—Mrs. O. J. Mitchell, Dec. 20.

Meade—It is very cold but we have had very little snow. Good spring crops of maize, kafir and cane have been threshed. There is some volunteer wheat pasture in west and northwest part of county. Some wheat is not up yet. The usual number of acres were sown. Not many eggs are being sold. A milk testing association has been started. Very few hogs are for sale. Livestock is doing well.—W. A. Harvey, Dec. 13.

Osborne—We have had the most severe weather the past 15 days that I ever saw for this time of year. Temperature was 10 to 21 below zero. Roads are filled with snow. Roughness will be scarce before spring if weather doesn't turn warmer. A great deal of wheat is yet to be threshed.—W. F. Arnold, Dec. 15.

Norton—There is a great deal of snow on the ground and roads are drifted badly. Weather is warmer now. Livestock has re-

quired much extra feed because of cold weather. Hog men are not very enthusiastic with hogs at \$11 and corn at \$25. Big mules are selling at good prices. Not much land is changing hands now. Cold weather has caused hens to strike while eggs are selling at 60c.—Sam Teaford, Dec. 19.

Phillips—Weather is very cold and very little corn has been husked. About one-half of the crop is in the field. Livestock is doing well. Some losses of horses and cattle have been reported from stalk poisoning. A few public sales are to be held this month. Elevators are paying \$1.58 for corn; \$2 to \$2.50 for wheat and \$1.15 for barley.—A. D. Sutley, Dec. 19.

Pottawatomie—Wheat is covered with ice from the thaw of December 18 which was followed by a freeze. It will be a few days before it can be determined whether wheat has been injured. Roads are very icy for travel. Farmers are selling pigs and brood sows. Many stockmen are quitting the hog business.—F. E. Austin, Dec. 20.

Rawlins—Five inches of snow fell in the north part of county November 26 and 27, and 4 inches fell December 8. Weather has been very cold, and it was 25 degrees below zero December 9. Some livestock has suffered. Weather now is warmer and farmers are hauling feed. Elevators are full again, and there still is a shortage of cars.—J. S. Skolant, Dec. 11.

Saline—We have had thawing weather nearly all week and the snow is almost gone. Roads are very bad. Some coal and feed have been received but not nearly enough to supply the demand. Much wood is being cut. Not many farmers are fattening cattle or hogs. A great deal of wheat has been marketed during past week. Wheat is \$2.60; butterfat, 74c; potatoes, \$2.25 to \$3; corn, \$1.60 to \$1.75.—J. P. Nelson, Dec. 20.

Sheridan—Weather is warm after two weeks of very cold weather during which the temperature ranged from 6 to 21 degrees below zero. A few threshing machines and gas engines are running but coal is scarce for threshing. Wheat at the local market is \$1.80 to \$2.40; bran, 76c; eggs, 75c.—R. E. Patterson, Dec. 19.

Sherman—The ground was covered with snow last week and temperature was as low as 25 degrees below zero. Livestock required a great deal of feed. This week the snow is melted and livestock is grazing. Some winter wheat has been sown. The fuel board has been discharged. The days predicted for the big storms were the most pleasant we have had for some time. Elevators are full again.—J. B. Moore, Dec. 20.

Stafford—Weather has moderated some since the recent cold spell of the first part of December. Livestock is doing well and but few losses have been reported. Wheat is in satisfactory condition. Corn husking is nearly completed. Only a few public sales have been held recently. Wheat is \$2.50 and up; corn, \$1.50; hogs, \$12.50.—H. A. Kachelman, Dec. 20.

Sumner—Weather is cold. Livestock is doing well as there is plenty of good straw and other roughness. Many silos supply much good feed. The snow and ice covering on wheat is firm. Some families have not much coal, but no suffering has been reported. Wheat is \$2.65; corn, 75c; eggs, \$1.60; butter, 65c; butterfat, 77c.—E. L. Stocking, Dec. 13.

Trego—The weather has moderated some, and most of the snow has melted. Growing wheat is in good condition. There is some old wheat to be threshed. It is selling for \$2 to \$2.60. Corn is worth \$1.68 and oats 87 cents a bushel.—C. C. Cross, Dec. 20.

Wichita—Roads are in bad condition. Stock is doing well. We have plenty of feed in the county. Real estate is changing hands often. Butter is selling at 72 cents a pound, eggs at 75 cents a dozen, and turkeys at 25 cents a pound. Much corn is in the field yet and has not been harvested. Corn is selling at \$1.20 a bushel.—Edwin White, Dec. 20.

Wilson—A few days of sunshine have followed weeks of sleet and very cold weather. Many farmers are buying grain to feed. The corn on the market is of a very good quality. Local showers favored a few localities. Very few cattle and hogs are on the market. Corn is \$1.50; wheat, \$2.10 to \$2.25; hay, \$14 to \$18.—S. Canty, Dec. 20.

Woodson—Weather is warm and ice and snow are gone from the ground and trees. Ice is 6 inches deep on the creek. There is not much coal on hand and a rush is being made for the timbers. Roads are very rough, but much hay, wheat and wood are being moved with shod horses. Corn husking is nearly completed but some kafir threshing is yet to be done. No sales have been held recently but some land is changing hands at satisfactory prices.—E. F. Opperman, Dec. 20.

Higher Rates for Recording

We have had some inquiries about changes in registration rates for Duroc Jersey hogs. The most recent change of which we know was announced by the American association to take effect August 1, 1919. Under the new order a fee of \$3 was charged for recording animals if they were 2 years old. This rate applies to both members and non-members. For animals under 2 years old, the rate to members is \$1 and to non-members \$1.50.

Thru the efforts of the management of the Capper Pig clubs, the same rate has been made to all pig club members as that enjoyed by members of the American association.

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If the date after your name on the label on the cover of this issue is '19 it means your subscription has expired and will run out before January 1, 1920. Send in your renewal right away so as not to miss an issue of Kansas Farmer and Mail and Breeze.

How To Save a Dollar

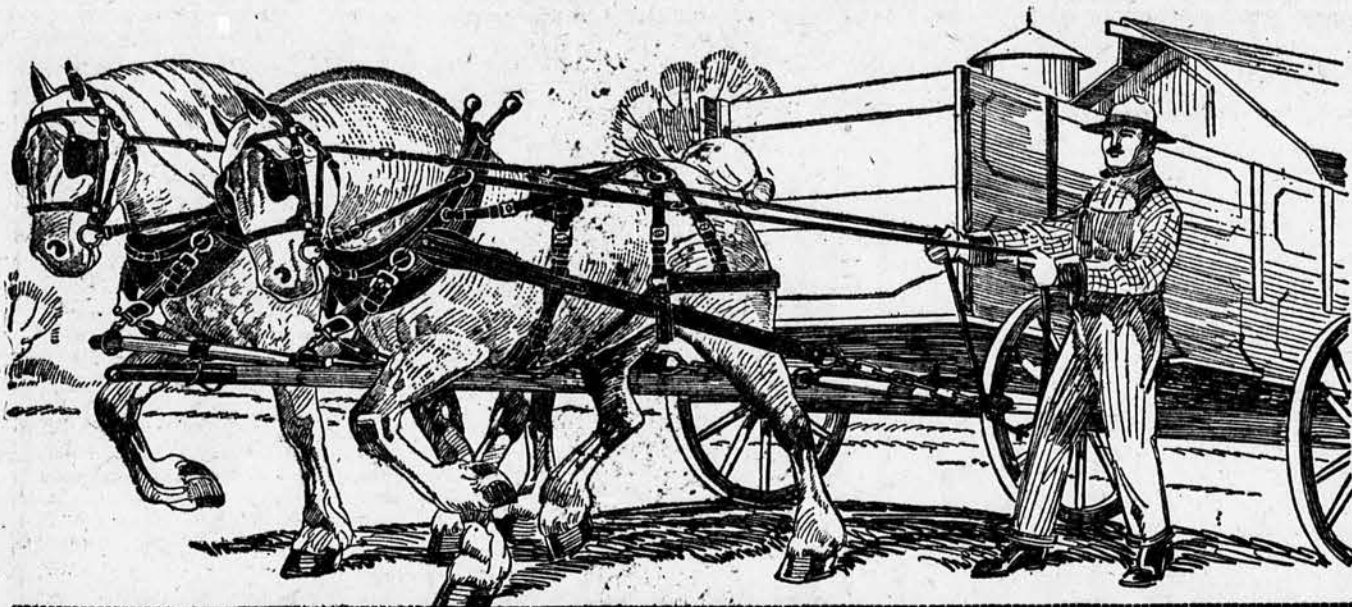
The regular subscription price of Kansas Farmer and Mail and Breeze is \$1.00 a year. You can save \$1.00 by sending us your order for a three-year subscription at \$2.00. Or you can send us two yearly subscriptions at \$1.00 each and get your own subscription free.

SAVES TIME TROUBLE AND EXPENSE

Kansas Farmer and Mail and Breeze
Topeka, Kansas

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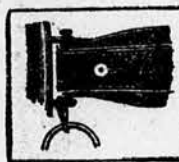
Farmers--Here's a Better Work Harness



1. Crown is heavy flat strap, no buckles. 2. All bearings in bridle flat. 3. Winker brace is heavy flat strap attached to blind with solid brass rivet through iron. 4. Side rein flat 1/4-inch strap; stronger than old style round rein.



Breast and pole straps connected with combination snap and slide. No need to let down breeching straps when unhitching. Fastened to neck-yoke with one snap. Pole strap lined and stitched on the front to prevent wear around collar.



Traces are extra heavy selected stock, made extra long and extra wide. Heavily stitched and held fast with solid brass rivet at both ends where it is turned back. Fender prevents wear on collar and chafing. Hames are of fine tubular steel, light and strong.



The lazy strap is made in two sections. It can be let down extra long to hold the trace when hitched to low-hitch implements. The upper strap can be used for a hame strap in time of emergency. Reins are riveted as well as stitched at laps.

You get better leather, better workmanship and better service in this harness and the price is no more than you will be asked to pay for harness not so good.

During the war we had to produce quality harness in large quantities for Uncle Sam. We are doing that now and are giving you this unbeatable harness at a price made possible only by the manufacture of a standard harness in large quantities. We are able to save you \$15 to \$20 because we give you the benefit of our experience in making thousands of sets of high grade ordnance harness for the government.

THE BOYT HARNESS

RETAILS AT \$100 PER SET

THE BOYT HARNESS is made to give a lifetime of service. Bronze hardware throughout at points where bronze adds to life of the harness. Check reins, throat latch, temple straps, hame straps, so designed as to be easily repaired by owner. Breeching and back pads solid leather—not stuffed with scraps. All laps, where needed, are caught with brass rivet as well as heavily stitched. Hames are solid steel tubing, light and strong. Traces extra long. Entire harness oversized.

THE BOYT HARNESS has no frills, no innovations to puzzle you or get out of repair. It is the same style harness you have used for years. It is the style harness Uncle Sam and millions of farmers have tested and found best. It is made better than the ordinary harness and still moderately priced.

Send For Circular

Identify this better harness at your dealers by the BOYT trademark on the bronze buckles. If you do not see it at your dealers, order it direct or write us for interesting descriptive circular.

WALTER BOYT COMPANY, (Inc.)
230 Court Ave., DES MOINES, IOWA

Walter Boyt Co., Inc., 230 Court Ave., Des Moines, Ia.

Please send me your circular descriptive of the Boyt

Harness. My harness dealer is..... Name

of..... Town

My name.....

Town.....

R. F. D..... State.....



Great for Udder Troubles

This liberal 60c package of soothing, healing ointment will keep your cows' udders soft, smooth and free from all conditions that make milking unpleasant and reduce the milk yield.

Bag Balm is known and used wherever cows are raised. It is perfect insurance against losses resulting from Caked Bag, Cow Pox, Chapping, Inflammation, Chafing, etc. It penetrates and heals quickly, restoring the injured tissues. Cows give milk freely and in full quantity from healthy udders.

Druggists, feed dealers and general stores sell Bag Balm. Free booklet, "Dairy Wrinkles," sent on request.

DAIRY ASSOCIATION CO.,
Lyndonville, Vt.

BAG BALM
MADE BY THE "HOW-KURE" PEOPLE

Panama Canal Book 10c

A story of the building of this great canal; 36 pages; profusely illustrated; will be sent postpaid for 10 cents, stamps or silver. Novelty House, Dept. 2, Topeka, Kan.

"I Don't Need to Tell You" says the Good Judge



Why so many men are going to the *small chew* of this good tobacco.

You get real tobacco satisfaction out of this small chew. The rich taste lasts and lasts. You don't need a fresh chew so often. Any man who uses the Real Tobacco Chew will tell you that.

Put Up In Two Styles

RIGHT CUT is a short-cut tobacco

W-B CUT is a long fine-cut tobacco

Weyman-Bruton Company, 1107 Broadway, New York City

WHEN WRITING ADVERTISERS MENTION KANSAS FARMER AND MAIL AND BREEZE

Balanced Ration for Dairy Cows

Most dairy cows are not producing as well as they should because their feed is not balanced properly. Protein and energy (carbohydrates and fat) are the principal things to be considered in a balanced ration. They must be in the right proportion in order to feed most economically. The ordinary farm roughages are lacking in protein. This protein must be supplied in the grain, unless the dairyman has plenty of clover, alfalfa, soybean, or cowpea hay and even then some protein must be supplied with grain.

Protein is therefore the main consideration in buying grain for dairy cows. Buy the feed which supplies the most protein for the least money. Cottonseed meal, even at its present high price supplies the cheapest protein. Next in order come linseed oil meal, gluten feed, dried brewer's grains and wheat bran. These are the feeds to buy and mix with the home-grown grains.

For a 1000-pound cow producing 20 pounds of 4 per cent milk a day, the following balanced ration will be found good. It will keep up the milk flow. It is also economical. It provides the required food nutrients in just the right proportions:

Thirty pounds corn silage, 8 pounds clover hay, 2 pounds wheat bran, 1 pound corn meal, 2 pounds cottonseed meal.

Silage and clover or alfalfa hay is the best and cheapest roughage. It should be the aim of every dairyman to grow an abundance of these feeds on his farm. If he does not have these roughages, but does have silage, timothy hay, mixed hay, corn fodder, or a combination of them, he must vary his grain mixture to supply more protein. A good grain mixture to supplement such roughages would be corn meal, cottonseed meal or oil meal, and wheat bran mixed in equal parts by weight. Another mixture might be made up of 100 pounds each of corn meal and ground oats, and 200 pounds each of cottonseed meal and wheat bran.

If the roughage is entirely of clover, alfalfa, soybean or cowpea hay, reduce the protein in the grain mixture somewhat as follows: 300 pounds cornmeal, 200 pounds ground oats, 100 pounds each of cottonseed meal and wheat bran. There are other mixtures easily prepared and your county agent will be glad to help you solve your feeding problems. In buying cottonseed meal for feeding, see that the analysis on the sack shows 36 to 41 per cent protein.

Feeding Dairy Cows

Too many cows are underfed. A cow weighing 1,000 pounds needs each day, for the maintenance of her body, an amount of food equivalent to that supplied in 8 pounds of clover hay and 20 pounds of good corn silage, according to M. H. Keeney of the University of Missouri. She must have this food regardless of whether she produces any milk. Food used for milk production must be in addition to that required to keep the cow's body. A 1,000-pound cow producing 20 pounds of 4 per cent milk a day, if properly fed, devotes about half of her feed to maintenance and half to milk production. Obviously when a dairyman has gone to the expense of supplying that half of the food required for maintaining the cow's body, it is poor economy to withhold any of the other half, all of which goes to produce milk. A cow then requires feed in accordance to the amount of milk she is able to produce. The heavy producer needs the most feed.

Farm grown roughages such as silage and hay provide the cheapest food nutrients. However, a good dairy cow cannot eat enough roughage to supply her needs for milk production. She must have some grain. Therefore, to feed with the most economy the following rules must be observed:

1. Feed all the roughage a cow will eat. She will eat more if fed three times a day instead of twice.

2. Feed grain in proportion to the pounds of milk produced.

To a Jersey or Guernsey cow feed 1 pound of grain for each 3 to 3 1/2 pounds of milk produced. To a Holstein, Ayrshire, or Shorthorn feed 1 pound of grain for each 4 to 4 1/2 pounds of milk produced.

Week's Financial News

BY SANDERS SOSLAND

Financial markets are giving greatest attention to the measures being taken to effect improvement in foreign exchange rates in the United States. Renewed interest has developed in this tremendously important subject because of the final passage of the Edge bill, which will become a law as soon as signed by President Wilson. The Edge bill is really the first official measure adopted at Washington for the purpose of bringing an end to the chaotic conditions which surround America's business interests in Europe. It is felt that the Edge bill will help, but it is only one of many measures which must be adopted to improve the outlook for foreign trade in farm, range and other products of the United States.

Provisions of Edge Bill

It is probable that coming months will find offerings of securities issued by Edge bill corporations being made in Kansas and in other states. There is a probability, too, that Edge corporations will be formed to finance export trade in cotton, wheat, pork and other products in which farmers are most vitally interested. Steel, copper, lumber and petroleum are among the other products which will be financed for export under the provisions of the Edge bill. It is therefore desirable that Kansas agricultural interests possess a general idea of the provisions of the measure.

Briefly, the Edge bill permits banks to participate in the organization of corporations with not less than 2 million dollars of capital for the purpose of acquiring foreign credits in the form of merchandise bills or other obligations of the same character. After acquiring these bills, the Edge corporations will be permitted to issue debenture bonds against their purchases for sale to American investors. The debenture bonds are the securities which will be sold to investors in Kansas and other states by these corporations. The corporations will operate under the supervision of the Federal Reserve Board at Washington.

Rediscount Rates Advance

As strongly indicated recently, the Federal Reserve Bank of Kansas City has made another increase in its rediscount rates on loans secured by Liberty or Victory Bonds and United States Treasury Certificates of Indebtedness. The advances make the rates to member banks of the Federal Reserve system in borrowing money from the Federal Reserve Bank on Liberty or Victory Bonds 5 per cent, compared with 4½ per cent up to November 3, when the first advance to 4½ per cent was made. The same banks must now pay 4½ per cent on loans secured by Treasury Certificates of Indebtedness, which consist of loans made by the government at 4¼ and 4½ per cent from banks and individuals. The rates of the Federal Reserve Bank of Kansas City on commercial and agricultural or livestock paper are unchanged, being principally 5 per cent, with the loans running 91 days to six months at 5½ per cent.

An item of some importance to Kansas is the declaration by the National Bank of Commerce of Kansas City, which has a capital of 4 million dollars of an extra dividend of 3 per cent on its stock, this distribution to be made January 1, 1920. National Bank of Commerce shares in Kansas City pay 12 per cent regularly each year. Some of its stock is owned in Kansas. It is well for Kansas and the Southwest that this bank has prospered the past year as never before.

Foreign exchange rates continue erratic, with a weak tone prevailing. The passage of the Edge bill brought a temporary rally. The adoption of the Paris Peace Treaty by the United States may bring another rally. The government has arranged to recognize the depressed European money by assessing import duties not on the par of marks, francs, lire or the British pound sterling, but on the basis of the market values of these European standards. This will reduce import duty payments, serve to increase imports into the United States and in time help foreign exchange. But this help will be at the expense of more competition from foreign goods in the United States.

GOOD LIVE STOCK

The Enduring Basis of Permanently Profitable Farming

War-born booms with accompanying fancy prices for grain may tempt us to put the plow through rich blue-grass sods that represent the work of many years.

Don't do it. FEED the land—don't rob or STARVE it. It is in the midst of surroundings that indicate the presence of knowledge—which is power—in the handling of farm problems that you will invariably find THE BREEDER'S GAZETTE.

To be a member of a "BREEDER'S GAZETTE CLUB" in any community is to establish at once the fact that you are studying your business and keeping yourself—and your books—posted right up to date. If you do not belong to one, why not join now? The "dues" are but \$1.50 a year, \$2.50 for two years, \$3.25 for three years, or \$5 for five years.

See local agent or write for a sample copy and a catalog of the best books for the farmer's reading table. Address THE BREEDER'S GAZETTE, Room 1137, 542 So. Dearborn St., Chicago.

Orders received before Jan. 1 can be commenced with our issue of Dec. 11 containing report of International Live Stock Exposition and includes the beautiful 148-page Holiday Number as well.



6% Interest—Payable Semi-Annually
On Our Full Paid Certificates

Under State Supervision Bank Dept. Assets over \$400,000
First Mortgage Security
THE SOUTHWEST BLDG. & LOAN ASS'N
109 N. Topeka Ave., Wichita, Kansas



FARMERS MAIL & BREEZE
ENGRAVING DEPARTMENT
TOPEKA, KANSAS
CUTS OF YOUR LIVESTOCK FOR
LETTERHEADS & SALE CATALOGS

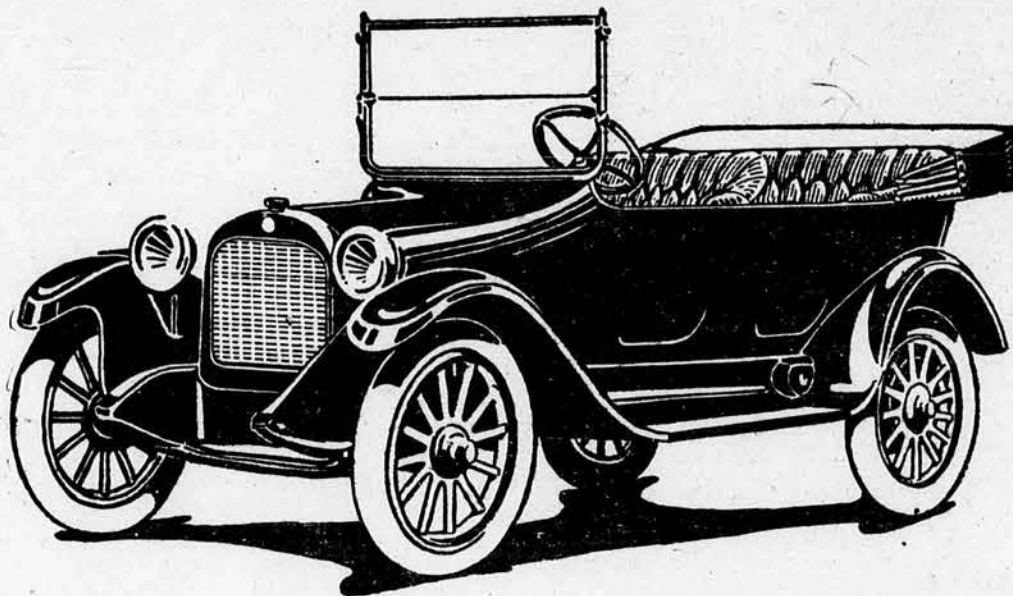


Gold Plated Flag Pin Free

Flag Pins are now being worn by all patriotic American Citizens. Get in line and show your patriotism by wearing one of our Gold Plated enameled pins which we send for only 10c to help pay advertising expenses. Jewelry House, 137 Eighth St., Topeka, Kan.

GIVEN AWAY

This New Dodge Can Be Yours



Won't Cost a Single Dollar

**Others Enjoy Big, Roomy Autos—Cars
We Have Given Them—Why
Shouldn't You?**

Other people—your friends, your neighbors, nearly all you see—are taking long, wonderful, enjoyable trips in autos of their own. Every day hundreds of happy car owners pass joyously by, gliding along at a rapid clip—living happily, healthful and content.

Why not you? Today, tomorrow, and every day a steady stream of cars will be hurried from the factories to their new and happy owners. Write now—join that throng. We've given cars to others—we're going to give away more. Hurry while there's time.

**An Offer You Can't Afford to Miss—I
Pay All the Bills—Even
Pay the Freight.**

You can have a brand new Dodge like that above—a beautiful, powerful, touring car—absolutely without costing you a single dollar. Yes—an automobile FREE. Such a chance—such an opportunity will probably never come again. Hurry—write—don't pass this by.

These others saw my ads the same as you. They wrote—they're driving cars of their own today. Cars we gave them—big roomy autos. You can get a car—the same as they. Don't hesitate. It's time now. Send in your name—your address.

HURRY—Why Go Longer Without a Car—WRITE.

If You Want a Brand New Dodge

Clip This Off and Mail Today or a Postal Card Will Do

Dear Sir: I want a Dodge, and would like to hear of your wonderful offer; but filling out and mailing this coupon doesn't obligate me in any way.

Name Address
Street Number, Box or R. F. D.

Town State

EUGENE WOLFE, Manager
531 Capital Building Topeka, Kansas

FARMERS' CLASSIFIED ADVERTISING

Rate: 12 cents a word, each insertion, on orders for less than four insertions; four or more consecutive insertions the rate is 10 cents a word. Count as a word each abbreviation, initial or number in advertisement and signature. No display type or illustrations admitted. Remittances must accompany orders. Real estate and livestock advertising have separate departments and are not accepted for this department.

Beginning with the issue of January 3, 1920, our Classified Advertising rates will advance to 12 cents a word for a single insertion, and 10 cents a word for each insertion when the order is for four or more consecutive times. Advertisers will now have the advantage of 125,000 readers.

The old rate of 8 cents a word will apply to December issues but 4-time orders will not be accepted at that rate.

TABLE OF RATES

Words	One time	Four times	Words	One time	Four times
10.....	\$1.20	\$4.00	26.....	\$3.12	\$10.40
11.....	1.32	4.40	27.....	3.24	10.80
12.....	1.44	4.80	28.....	3.36	11.20
13.....	1.56	5.20	29.....	3.48	11.60
14.....	1.68	5.60	30.....	3.60	12.00
15.....	1.80	6.00	31.....	3.72	12.40
16.....	1.92	6.40	32.....	3.84	12.80
17.....	2.04	6.80	33.....	3.96	13.20
18.....	2.16	7.20	34.....	4.08	13.60
19.....	2.28	7.60	35.....	4.20	14.00
20.....	2.40	8.00	36.....	4.32	14.40
21.....	2.52	8.40	37.....	4.44	14.80
22.....	2.64	8.80	38.....	4.56	15.20
23.....	2.76	9.20	39.....	4.68	15.60
24.....	2.88	9.60	40.....	4.80	16.00
25.....	3.00	10.00			

EMPLOYMENT

WANTED—RAILWAY MAIL CLERKS. \$1300 begin. Write for list positions. Franklin Institute, Dept. N15, Rochester N. Y.

SINGLE FARM HANDS \$45 PER MONTH. board and room. Year round job. Increased pay March 1st and every three months thereafter to men making good. The Lakewood Farm, Belton, Mo.

MARRIED MAN, GERMAN, 36 YEARS OF AGE, wants work on ranch. Can run machinery as tractor, engine, hay baler, binder and other implements. Can also run automobile and trucks. Will work on share or cash wages. Furnish references. Willie Myers, R. 3, Neodesha, Kan.

AGENTS WANTED

AGENTS—MASON SOLD 18 SPRAYERS and auto washers one Saturday; profits \$2.50 each. Square deal. Particulars free. Rusler Company, Johnstown, Ohio.

MONEY MAKING OPPORTUNITIES; THE World War History and Life of Roosevelt; best books and terms. One outfit free. Lindberg & Co., 180 N. Dearborne, Chicago, Ill.

AGENTS MAKING \$200 WEEKLY; EVERY-one wants it. Formulas for 200 beverages to be made at home. Book form. Send \$1 for copy and territory proposition. Act quickly. Buyers' Export Agency, 437 Broadway, New York.

DON'T WASTE YOUR SPARE TIME—IT can be turned into money on our easy plan. We have a splendid offer for ambitious men or women who desire to add to their present income, and will give complete details on request. Simply say, "Tell me how to turn my spare time into dollars" and we will explain our plan completely. Address, Circulation Manager, Capper Publications, Topeka, Kan.

SALESMEN WANTED

WE ARE ANXIOUS TO PAY BIG salaries with liberal expense accounts to men with selling experience representing Capper Publications. Our offers have been made unusually attractive. Just a few territories in central Kansas open. Men with automobiles preferred. Write or wire application now. H. M. Van Dusen, Capital Bldg., Topeka, Kan.

SERVICES OFFERED

COMBINGS MADE INTO SWITCHES. E. Hohman, Caputa, S. D.

PLEATING—MRS. M. J. MERCER, 800 Topeka Ave., Topeka, Kan.

AUCTIONEERS MAKE BIG MONEY; 67 paged annual free. Mo. Auction School, Kansas City, Mo.

FREE—OUR NEW EIGHTY PAGE STYLE book. Ideal Button and Pleating Co., Dept. 27, Brown Bldg., Omaha, Neb.

TOBACCO OR SNUFF HABIT CURED OR no pay. \$1 if cured. Remedy sent on trial. Superba Co., Sy. Baltimore, Md.

LET US TAN YOUR HIDE. COW, HORSE, or calf skins for coat or robe. Catalog on request. The Crosby Frisian Fur Co., Rochester, N. Y.

KODAKERS—SEND ME TWO NEGATIVES for free samples and reduced prices on kodak finishing. 25 years experience. Saunders, Box M308, Boulder, Colo.

BE AN EXPERT PENMAN. WONDERFUL device guides your hand. Corrects your writing in few days. Complete outline free. Write C. J. Ozment, 40 St. Louis.

INVENTORS WRITE FOR OUR ILLU-strated book and evidence of conception blank. Send model or sketch for our opinion of its patentable nature. Highest references, prompt service. Reasonable terms. Victor J. Evans & Co., 325 Ninth, Washington, D. C.

HIGH PRICES PAID FOR FARM AND dairy products by city people. A small classified advertisement in the Topeka Daily Capital will sell your apples, potatoes, pears, tomatoes and other surplus farm produce at small cost—only one cent a word each insertion. Try it.

SHIP YOUR LIVE STOCK TO US—COMPE-tent men in all departments. Twenty years on this market. Write us about your stock. Stockers and feeders bought on orders, market information free. Ryan Robinson Commission Co., 425 Live Stock Exchange, Kansas City Stock Yards.

FAIRMOUNT MATERNITY HOSPITAL for confinement; private, prices reasonable, may work for board, babies adopted. Write for booklet. Mrs. T. B. Long, 4911 East 27th St., Kansas City, Mo.

BUSINESS CHANCES

RESTAURANT FOR SALE. WORTH \$4000, can get it for \$3500. C. Lovelace, Bethune, Colo.

FOR SALE—UNITS IN FURMAN AND Eystones Royalties. Two of the best in Ebbing Peabody oil field. Will consider stock or land in trade. R. A. Baker, Enterprise, Kan.

HANDLE MORE BUSINESS? ARE YOU getting all the business you can handle? If not get big results at small cost by running a classified ad in Capper's Weekly. The Great News Weekly of the Great West with more than a million and a quarter readers. Sample copy free for the asking. Only 8c a word each week. Send in a trial ad now while you are thinking about it. Capper's Weekly, Topeka, Kan.

FOR SALE

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

BOWSER'S COMBINATION FEED MILL. W. R. Huston, Americus, Kan.

SILAGE—300 TONS AT \$8. I DO THE feeding. E. N. Stites, Atlanta, Kan.

USED 600 EGG BUCKEYE INCUBATORS for sale, \$45. Bowell Hatchery, Abilene, Kan.

WRITE FOR DELIVERED PRICES ON cedar posts. Pay after unloading. J. B. Overton, Sagle, Idaho.

WHOLESALE PRICES ON BALE TIES, lumber delivered to any town in the state. Hall-McKee, Emporia, Kan.

ENCLOSE 35c IN COIN OR STAMPS AND we will mail you a one-piece electric welded fire shovel that will last a life time. Osage Shovel Co., Osage City, Kan.

STOP CRANKING YOUR FORD. M-Y (new) sub-starter complete \$1.50 (with 50 starts). Satisfaction guaranteed. Dealers wanted. State Supply Co., Cedar Rapids, Ia.

SANDWICH CYLINDER CORN SHELLER No. 1A. Used only a few days. Complete with 14 ft. swinging extension feeder. Shelled like new. Price \$275. Cost \$590. O. E. Reed, Blue Rapids, Kan.

SEEDS

BROOM CORN SEED—IF YOU WANT the best of dwarf, write Len Sanders, Atlanta, Kan.

SWEET POTATO SEEDS. WRITE FOR prices and list of varieties. Johnson Bros., Wamego, Kan.

FOR SALE—ALFALFA SEED, 95% PURE, good germination, \$13 per bushel my track. Geo. Bowman, Concordia, Kan.

FOR SALE—EIGHTY BUSHELS CLEANED feterita seed. Germination test 95.8. Write best offer. James Walmsley, Delphos, Kan.

CANE SEED—RED AND BLACK AMBER, 1919 crop, \$3.60 per cwt. F. O. B. Oberlin, Kan. Sudan grass, 12c per pound. White and yellow pop corn, 8c per pound for 50 pounds and over. F. E. Bakins, Oberlin, Kan.

RECLEANED SEEDS: ALFALFA \$9.50 BU. Clover \$18. Timothy \$7.50. Kaffir \$2.25. Caneseed \$2. Millet \$2. Sudan \$15 cwt. Snacks free. Satisfaction or money back. Order now and save a third. Meier Seed Co., Russell, Kan.

MACHINERY.

TYPE WRITER FOR SALE, CHEAP. Trial. Write J. Yotz, Shawnee, Kan.

ALMOST NEW FORDSON TRACTOR AND 2-bottom plows. Price \$900. "Tractor," Mail and Breeze.

NEW 9-18 MOLINE UNIVERSAL TRAC-tor with plows complete. Will sacrifice for quick sale. Have no land. Hugh Taylor, Enterprise, Kan.

ATTENTION! FARMERS AND TRACTOR owners. For sale—Ford one ton Dearborn tank trucks, equipped with 300 gallon 3 compartment tanks, complete. National Refining Co., Kansas City, Mo.

FOR SALE—ONE RUMELY OIL PULL 30-60. One Rumely, Ideal separator, 36 inch cylinder with Langdon Favorite feeder, Clements weigher and Reeves gear blower. One Crocker pitching machine; one cook shack; 14 bottom Emerson disk plow. All in good running order. Call on or address F. D. Helmke, No. 426, Pratt, Kan.

FOR THE TABLE.

CLEAR EXTRACTED HONEY—60-POUND can, 18c a pound. L. Gorsuch, Lazear, Colo.

PINTO BEANS, RECLEANED \$6 PER cwt. F. O. B. Stratton, Colo. Thomas Siegrist.

PURE EXTRACTED HONEY, 120 LBS., \$22.80. W. P. Morley, Producer, Las Animas, Colo.

HONEY OF SUPERIOR QUALITY. ALSO Green county's cheese. Price list free. E. N. Rosa, Monroe, Wis.

PINTO BEANS—100 POUNDS, \$7. F. O. B. Stratton. Quality guaranteed. W. A. Hooper, Stratton, Colo.

CHOICE WHITE ALFALFA HONEY VERY fine, 120 lbs. \$25. Sixty lbs. \$13. Bert W. Hopper, Rocky Ford, Colo.

COUNTRY DRIED PRUNES, 50 POUND box \$9. Direct from dealer to consumer. Garfield Fruit and Produce Co., Garfield, Wash.

OLD FASHION "CUBAN MOLASSES." SPE-cial price for a few weeks. Guaranteed to keep all summer. 60-gallon barrels, 25c a gal. Cash with order. Winston Grain Co., Winston, N. C.

GUARANTEED PURE WHITE EXTRACTED honey two 60-pound cans, \$24. Dark strained, \$20. Free on cars here. Single cans, \$12.50 and \$10.50. Frank H. Drexel, Crawford, Colo.

A MOST ACCEPTABLE CHRISTMAS GIFT. The Best Rocky Mountain Honey, fine flavor, thick and of light color. Per can, five pounds net, postpaid, anywhere west of Ohio river, \$1.50. Send remittance with order. The Colorado Honey Producers Association, Denver, Colo.

TOBACCO.

HAVANA CIGARS, DIRECT FROM FAC-tory, \$3 per box of 50. Maximo Gonzales & Co., Box 936, Tampa, Fla.

TOBACCO—NATURAL LEAF SMOKING, lb., 45 cents; chewing, lb., 50 cents, postage prepaid. Chas. Goff, Tarboro, Ky.

LEAF TOBACCO—THE "CREAM OF KEN-tucky's Best Crops." A "bully smoke or chew." 5 lbs. \$3; 10 lbs. \$5, postpaid. Kentucky Tobacco Association, Hawesville, Ky.

LEAF TOBACCO—WE ARE GROWERS OF Tennessee Red Leaf chewing and smoking, aged in bulk. Only a limited supply. 3 pounds \$1.80; 6 pounds \$3.30; 10 pounds, \$5. Postpaid. Address Murphy Co., Martin, Tenn. Reference Peoples Bank.

WANTED

WANTED. POWER SHEEP SHEARING machine. Harry Payne, Axtell, Kansas.

SANDWICH HAY BALER OF LATE model in good condition. Col. Warren Russell, Winfield, Kan.

WANTED—ALFALFA HAY, EAR CORN, and oats. Get our prices before selling. England Milling Co., England, Ark.

WANTED—ALFALFA. CAR LOTS. STATE lowest price and grade in first letter. J. M. Brown, Route 1, Van Buren, Ark.

WANTED TO BUY, RED AND BLACK Amber cane seed in car lots. What have you to offer? Sharp Grain Co., Healy, Kan.

I WANT TO BUY CANE, ALFALFA, sweet clover and millet seed direct from producer. Advise quantity and lowest price, first letter. Box 635, Grand Island, Neb.

PLANTS

STRAWBERRY PLANTS, \$4 to \$5 PER 1000. List free. J. Sterling, Judsonia, Ark.

PET STOCK.

SINGING CANARIES. MRS. ED SHRECK, Colony, Kan.

REGISTERED COLLIE PUPPIES, \$15 each. Lewis's Kennel, Lebo, Kan.

TWO COON, SKUNK, OPOSSUM HOUNDS for sale. Horn Bros., Garnett, Kan.

COON, SKUNK, OPOSSUM AND WOLF hounds. T. C. Rice, Garnett, Kansas.

FOR SALE—REAL RAT DOG, TWO YEARS old, \$10. R. A. Gregg, Yates Center, Kan.

FEMALE GREYHOUND, TWO YEARS old, fine one, \$15. A. Millington, Kincaid, Kan.

PURE BRED FOX TERRIER PUPS, WELL marked, \$10 each. W. P. Hamilton, Belle Plaine, Kan.

FOR SALE—HIGH CLASS COON, OPO-sum and skunk hounds. J. M. Horn, Cassidy, Mo.

CORN—WRITE OR WIRE FOR PRICES when in the market for good shelled corn in car lots. Weights and grades guaranteed. Powell Higginbottom, Eads, Colo.

SHEPHERD PUPPIES, BEST ALL PUR-pose dog yet. Males, \$12.50; females \$7.50. Also greyhounds from 8 months to 2 years old, \$25 each. H. W. Chestnut, Kincaid, Kan.

MONEY IN POULTRY AND RABBITS. WE show you where to market all you raise at a good profit. 62 page, illustrated book, 50c. None free. Co-operative Supply Co., Dept. 17, St. Francis, Wis.

SPORTSMEN—TRAINED BEAGLES, RAB-bit, fox, coon, skunk, squirrel and opossum dogs, bird dogs, pet and farm dogs, swine, rabbits, pigeons, pheasants, goats—100 varieties blooded stock. Circulars 10c. Violet Hill Kennels, York, Pa.

AIREDALES, COLLIES AND OLD ENGL-ish Shepherd dogs. Trained male dogs, brood matrons, pups, all ages. Flemish Giant, New Zealand and Rufus Red Belgian rabbits. Send 6c for large instructive list of what you want. W. R. Watson, Box 128, Oakland, Iowa.

POULTRY

So many elements enter into the shipping of eggs by our advertisers and the hatching of same by our subscribers that the publishers of this paper cannot guarantee that eggs shipped shall reach the buyer unbroken, nor can they guarantee the hatching of eggs. Neither can we guarantee that fowls or baby chicks will reach destination alive, nor that they will be satisfactory because opinion varies as to value of poultry that is sold for more than market price. We shall continue to exercise the greatest care in allowing poultry and egg advertisers to use this paper, but our responsibility must end with that.

ANDALUSIAN

PURE BRED BLUE ANDALUSIAN COCK-erels \$3 up. S. F. Pierce, Boulder, Colo.

THOROBRED BLUE ANDALUSIAN COCK-erels for \$3. Single Comb Mottled Andalusians, cockerels \$2. Mrs. C. W. Parks, Eureka, Kan.

ANCONAS.

GOOD DARK ANCONA COCKERELS \$2 each. Mrs. Will Torgeson, White City, Kan.

GOOD LAYING STRAIN ANCONA HENS and pullets, \$2 each. Pullets late hatch, \$1.50 each. Shem Yoder, Yoder, Kan.

BRAHMAS

CHOICE LIGHT BRAHMA COCKERELS \$3 each. Hilary Borne, Bushton, Kan.

BANTAMS.

BUFF, WHITE AND BLACK COCHINS, also Seabrights, cheap. Bare Poultry Co., Box 870, Hampton, Ia.

CORNISH

DARK CORNISH COCKERELS \$2.50 EACH. Homer Hastings, Sun City, Kan.

DUCKS.

ROUEN AND MAMMOTH WHITE PEKIN ducks, cheap. W. H. Koell, Hampton, Ia.

BUFF DUCKS. PRIZE WINNERS, EITH-er sex, \$2.50. Mrs. F. Doty, Rose, Kan.

300 DUCKS, ROUEN, BUFF ORPINGTON and Muscovy. Fred Kucera, Clarkson, Neb.

DUCKS—BUFF MUSCOVEYS, PEKINS, Buff and Rouens, cheap. Bare Poultry Co., Box 870, Hampton, Ia.

FOR SALE—PURE BRED FAWN AND White Runner drakes and ducks, \$1.25 each. Mrs. Abbie Brush, Burr Oak, Kan.

GUINEAS.

PEARL AND WHITE AFRICAN GUINEAS, cheap. Bare Poultry Co., Box 870, Hampton, Ia.

GEESE.

PURE BRED TOULOUSE GESE, \$4. MRS. Everett Hardman, Erie, Kan.

GESE—AFRICAN CHINA TOULOUSE and White Embdens cheap. Bare Poultry Co., Box 870, Hampton, Ia.

LANGSHANS.

EXTRA LANGSHANS. CATALOG READY. John Lovette, Mullinville, Kan.

GOOD BLACK LANGSHAN COCKERELS \$3. Mrs. G. W. Kling, Solomon, Kan.

GOOD SCORING BLACK LANGSHANS, guaranteed. Osterfoss, Hedrick, Ia.

BLACK LANGSHANS, OLD AND YOUNG. From blue ribbon winners. Mrs. D. A. Swank, Blue Mound, Kan.

BLACK LANGSHANS, WON BLUE AT Kansas City, Leavenworth, Topeka, \$3; 6 for \$15. Guaranteed. Roller Farm, Soldier, Kan.

LEGHORNS.

ROSE COMB WHITE LEGHORN COCKER-els \$1.50. Ethel Miller, Agra, Kan.

SINGLE COMB WHITE LEGHORN PUL-lets, \$1.75 each. Elmer Jones, McLouth, Kan.

PURE ROSE COMB BROWN LEGHORN cockerels \$1.50 each. Belle Larabee, Hadam, Kan.

PURE BRED ROSE COMB WHITE LEG-horn cockerels, \$1.25 each. C. Nesselroad, Attica, Kan.

PURE ROSE COMB BROWN LEGHORN cockerels \$1.50 each. Grover Cummins, Clifton, Kan.

CHOICE S. C. WHITE LEGHORN COCKS and cockerels for sale. Mrs. W. R. Hildreth, Oswego, Kan.

VERIBEST ENGLISH WHITE LEGHORN cockerels, 280 egg strain. J. O. Silverwood, Mulvane, Kan.

ROSE COMB BUFF LEGHORN COCKER-els, extra good laying strain, \$2. Martin D. Strube, Baker, Kan.

PURE BRED SINGLE COMB BROWN Leghorn cockerels, \$1.25 each for 30 days. Ike Inel, Montezuma, Kan.

SINGLE COMB WHITE LEGHORNS, BAR-ron strain, cockerels \$2 to \$5 taken now. Sadie Lunceford, Mapleton, Kan.

PURE BRED R. C. BROWN LEGHORN cockerels from heavy winter layers, \$2 each. Mrs. J. B. Wagner, Fowler, Kan.

EXTRA LARGE VARIETY PURE BRED Single Comb White Leghorn cockerels from heavy laying strain, \$2. Geo. D. Gamble, Holton, Kan.

FOR SALE UNTIL JANUARY 1ST, 1920, large, vigorous, snow white, low tailed S. C. White Leghorn cockerels, \$3 to \$5 each. E. L. M. Benfer, Leona, Kan.

PURE BRED SINGLE COMB BROWN LEG-horn cockerels, early May hatch. The right color and size. \$1.50 each if taken soon. Mrs. Roy C. Paul, Mildred, Kan.

SINGLE COMB WHITE LEGHORN COCK-erels from the Pennsylvania Poultry Farm, foremost American breeders of the English Baron 297 egg record, \$3 and up. J. S. Cantwell, Sterling, Kan.

EGG BRED BUFF LEGHORN COCK-erels, same blood lines as my world champion hen exhibition quality. Shipped on approval. Order from this ad, \$5, \$7.50, \$10. Herb Wilson, Holton, Kan.

SINGLE COMB WHITE LEGHORN COCK-erels. Fine ones, extra early hatched. \$1.50 if taken in 2 weeks. H. W. Chestnut, Kincaid, Kan.

MINORCAS.

WHITE MINORCA COCKERELS. WRITE for prices. Chas. Genter, Anthony, Kan.

CHOICE SINGLE COMB BLACK MINORCA cockerels \$3, Furman Porter, Richmond, Kan.

ORPINGTONS.

ORPINGTON COCKERELS \$2.50 AND \$3 each. Mrs. John Thelmer, Hooker, Okla.

BUFF ORPINGTON COCKERELS. SIZE, color and quality. Andy Scherman, Paola, Kan.

SINGLE COMB BUFF ORPINGTON COCK-erels, \$2 each. Mrs. Geo. McAdam, Holton, Kan.

EARLY THOROBRED BUFF ORPINGTON cockerels, \$3 each. Mrs. C. Thissen, Kingman, Kan.

ORPINGTONS.

FINE BUFF ORPINGTONS AND RHODE Island White cockerels, \$2.50 each. Mrs. Jake Ayers, Sabetha, Kan.

WHITE ORPINGTONS, PULLETS, COCK-erels. Standard laying strain. (Hines Poultry Farm, Parsons, Kan.)

PURE BRED BUFF ORPINGTON COCK-erels, good strain, large and good color, guaranteed, \$3 to \$5 each. Mrs. Chas. Hill, Trousdale, Kan.

WHITE ORPINGTON TRIOS FOR SALE. Description and price, matter of corre-spondence. E. A. Sherburne, 1107 N. Jack-son St., N. Topeka, Kan.

SINGLE COMB BUFF ORPINGTON COCK-erels of size and quality. Sired by first cockerel Arkansas Valley show, Hutchinson, January, 1918. \$5 each. Earl Sledd, Lyons, Kan.

SINGLE COMB BUFF ORPINGTON COCK-erels. March hatch, weighing to ten pounds. Sired by first prize cockerel 1917 Heart of America Show. Best in the West; \$5 and \$10 each; 40 pullets laying now, \$2.50 each. Satisfaction guaranteed. Sun-flower Ranch, Ottawa, Kan.

PIGEONS

1,000 COMMON PIGEONS WANTED. AD-dress R. S. Elliott, 7500 Independence Ave., Kansas City, Mo.

PLYMOUTH ROCKS.

WHITE ROCK COCKERELS \$2 TO \$5. Wesley Wise, St. John, Kan.

BUFF ROCK COCKERELS, EXTRA FINE, \$3. Jesse Lee, Wheaton, Kan.

BARRED ROCK COCKERELS \$2 TO \$3. Oliver Jackson, Hazelton, Kan.

WHITE ROCK COCKERELS, FARM raised, \$3. R. B. Gyger, Leon, Kan.

WHITE ROCK COCKERELS, FISHER strain. H. C. Hays, Manhattan, Kan.

PURE BRED BARRED ROCK HENS, ONE year old, \$1.50 each. Kenneth Fry, Sedg-wick, Kan.

BUFF ROCK COCKERELS. PRIZE WIN-ning strain, 3 dollars each. Mrs. Robt. Hall, Neodesha, Kan.

PURE BRED BARRED ROCK COCKERELS from trapnested ancestors, \$3 to \$5. Gem Poultry Farm, Haven, Kan.

100 BARRED ROCK COCKERELS, LARGE and vigorous, 28 years a breeder. \$3 to \$5. W. H. Hanson, Abilene, Kan.

PREMIUM STOCK BARRED ROCK COCK-erels, \$3 each; \$2.50 for two or more. Mrs. A. M. Markley, Mound City, Kan.

VIGOROUS BARRED ROCK COCKERELS, good bone, fine quality, \$3 to \$5. Wm. C. Mueller, Route 4, Hanover, Kan.

ARISTOCRAT AND THOMPSON STRAIN Ringlet barred Rock cockerels \$3 each. Mrs. Lawrence Platt, Gridley, Kansas.

"RINGLET" BARRED ROCK COCKERELS, big boned vigorous birds, \$4; 6 for \$20. Guaranteed. Hiram Patten, Hutchinson, Kan.

PURE BRED WHITE ROCK COCKERELS from prize winning trapnested stock (fishel strain direct), \$4 and \$5. J. S. Cantwell, Sterling, Kan.

BARRED PLYMOUTH ROCK COCKERELS from high-grade E. B. Thompson hens and pure Thompson males, \$2 and \$3 each. Emma Mueller, Humboldt, Kan., Route 2.

SEVERAL FINE EARLY HATCHED White Rock and S. C. Minnerca cockerels \$2 to \$3, or would trade for mature White Rock pullets. Mildred N. Botkin, Burden, Kan.

BARRED ROCK COCKERELS, CHOICE birds, fine dark barings. Also few light ones, yellow legs. Prize winning strain. Satisfaction guaranteed. Dradle Dunbar, Columbus, Kan.

BRED-TO-LAY. FINE BARRED ROCK cockerels, early, large, hen hatched. Vig-orous, well barred, free range birds from heaviest winter layers, \$3 to \$5. Satisfac-tion guaranteed. Belmont Farm, Topeka, Kan.

RHODE ISLAND REDS.

SINGLE COMB RED COCKERELS, \$2.50 and \$3. Chas. Olsen, Alta Vista, Kan.

EXTRA FINE S. C. RHODE ISLAND RED cockerels \$3 to \$5. Mrs. O. C. Duprey, R. 5, Clyde, Kan.

SPLENDID ROSE COMB RED COCKER-els \$2.50, \$5. Lucy Ruppenthal, Lucas, Kan.

VERY DARK RHODE ISLAND RED roosters, either combs, \$4.25. Freda Peck-enpugh, Lake City, Kan.

LUNCEFORD'S SINGLE COMB QUALITY Reds, cockerels \$2 to \$5 taken now. Sadie Lunceford, Mapleton, Kan.

FINE S. C. R. I. RED COCKERELS, tested by Judge Scott of Abilene, \$3 and \$5 each. B. N. Wells, Rice, Kan.

FINE VARIETY ROSE COMB RHODE IS-land Red cockerels, \$2.50 up; pullets, \$1.50. H. I. Friedline, Alden, Kan.

BIG BONED, LONG, DARK, VELVET red rose comb cockerels, pullets, bargains. Sunnyside Farm, Havensville, Kan.

ROSE COMB RHODE ISLAND RED COCK-erels, Bean's Strain. Blue Ribbon stock. \$3 to \$5 each. John McCrory, Sterling, Kan.

RHODE ISLAND RED COCKERELS, RICK-er strain. Extra heavy laying strain. \$2.50. Mrs. Nell Kimball, Carbondale, Kan.

FOR SALE—PURE BRED RHODE ISLAND red cockerels \$2.50 each if taken before Jan. 1, 1920. Wm. Ringen, Summerfield, Kan.

PURE BRED SINGLE COMB RHODE Island Red cockerels. The laying strain, \$3 each until January 1. W. A. Lanterman, R. 1, Ellinwood, Kan.

LARGE, DARK, VELVET RED COCKER-els, rose combs, \$2, \$3, \$5 each. Fine Bourbon Red turkey toms, \$6; hens, \$5. Mrs. T. A. Hawkins, Wakeeney, Kansas.

FINE SINGLE COMB RHODE ISLAND Reds; cockerels \$2.50; pullets \$18 per dozen. Mrs. Henry Williams, White City, Kan.

EXTRA FANCY SINGLE COMB RED cockerels. From prize winning stock. Write me your wants. Chas. Stickler, Lan-caster, Kan.

HARRISON'S FAMOUS "EXHIBITION EGG Strains." Single and Rose Comb Reds. Show-winning, non-sitting, developed layers. "Red Breeding Bulletins" and mating lists now ready. Robert Harrison, "The Red-man," Lincoln, Neb., Station C.

RHODE ISLAND REDS.

PURE BRED S. C. RHODE ISLAND RED Cockerels, good type, color, and vigor. Some real show birds. Geo. J. Dirks, Greensburg, Kansas.

FOR SALE—SOME GOOD DARK RED Rose Comb Rhode Island Red cockerels. Also some good old roosters. F. C. Beeler, Route 5, Burlingame, Kan.

ROSE COMB RHODE ISLAND RED COCK-erels that will improve the size, color and laying qualities of your flock. \$4, \$6 and up. A. J. Turinsky, Barnes, Kan.

DARK ROSE COMB RED HEN HATCHED cockerels, two year ancestry from Meyers and Tompkins laying and exhibition strains, \$3.50. Oscar Erickson, Leonardville, Kan.

LIVE RED BREEDERS—A LIMITED number of extra quality Rose Comb cock-erels. World's leading strain. Absolutely guaranteed. Two to five dollars. Mrs. S. H. Nash, Kinsley, Kan.

WYANDOTTES.

WHITE WYANDOTTE COCKERELS \$2.50 and \$5. Nora Elliott, Haviland, Kan.

GOLDEN WYANDOTTE COCKERELS, \$2.50, \$5. Mrs. Ida Hodge, Phillipsburg, Kan.

"BEAUTIFUL" SILVER WYANDOTTES, \$3 up. Mrs. Edwin Shuff, Plevna, Kan.

ROSE COMB WHITE WYANDOTTE COCK-erels \$2. Angle Archer, Grenola, Kan.

PURE BRED PARTRIDGE WYANDOTTE cockerels. Mrs. Will Peffly, Melvern, Kan.

ROSE COMB BUFF WYANDOTTE COCK-erels \$2. E. A. Schweizer, Kickapoo, Kan.

SILVER LACED WYANDOTTE COCK-erels. Mrs. C. W. Tumbleson, Concordia, Kan.

GOOD GOLDEN WYANDOTTE COCK-erels, \$2.50. Mrs. Geo. Effland, Victor, Kan.

HAVE SOLD ALL MY ROSE COMB WHITE Wyandotte cockerels. J. W. Heinrichs-meler, Columbus, Kan.

SILVER WYANDOTTE COCKERELS, large bone, \$2.75. Immediate sale. J. B. Timm, Chapman, Kan.

PURE BRED WHITE WYANDOTTE COCK-erels and cockerels. Very fine \$2 to \$5 until Jan. 1. Mrs. S. M. Wynkoop, Troy, Kan.

FLOCK'S WHITE WYANDOTTE FARM, Clay Center, Kan. The home of the Hen-riettas, cocks and cockerels \$5, \$8 and \$10. Yearling hens, \$3 and \$5.

WHITE WYANDOTTE COCKERELS, STEV-ens' American and Barron's English lay-ing strains, \$3 to \$6 each. Satisfaction guar-anteed. H. A. Dressler, Pinedale Stock Farm, Lebo, Kan.

TURKEYS.

WHITE HOLLAND TOMS \$7. HENS \$4. W. C. Parsons, Barnard, Kan.

WHITE HOLLAND TOMS \$7; HENS \$5. Jerry Brack, Havensville, Kan.

BOURBON TURKEYS, TOMS \$7, HENS \$5. Joseph Wagner, Towner, Colo.

NARRAGANSETT TURKEY TOMS \$8. Large strain, Nora Harvey, Wheaton, Kan.

PURE BRED BOURBON RED TURKEYS for sale. H. Croft, Medicine Lodge, Kan.

BRONZE TURKEYS FOR SALE. WHITE Stone, the Bronze turkey man, Columbia, Mo.

PURE BRED BOURBON RED TOMS \$8; hens \$5. Elizabeth Leonard, Effingham, Kan.

LARGE BONED WHITE HOLLAND TUR-keys; toms, \$7. Mrs. Laura Shupe, Coates, Kan.

MAMMOTH BRONZE TOMS, \$9; HENS, \$5.50. Freda Peckenpugh, Lake City, Kan.

MAMMOTH BRONZE TURKEYS SENT ON approval. M. E. Kavanaugh, Belleville, Kansas.

PURE BRED BOURBON RED TURKEYS, toms, early hatch, \$5.50. Mrs. S. E. Pearl, Lydia, Kan.

FOR EXTRA FINE YOUNG MAMMOTH bronze turkeys, write to R. L. Parrott, Osborne, Kansas.

EXTRA FINE PURE BRED NARRAGAN-setts, toms \$12; hens \$10. Fred C. Sack-hoff, Downs, Kan.

BOURBON RED, MAMMOTH BRONZE and Hollands, cheap. Bare Poultry Co., Box 870, Hampton, Ia.

WELL MARKED BOURBON RED TUR-keys; hens, \$5; toms, \$10. Mrs. Frank O'Connor, Hartford, Kan.

BRONZE TURKEYS—TOMS, GOOD ONES, Goldbank strain. Prices reasonable. E. Bidleman, Kinsley, Kan.

FULL BLOOD MAMMOTH BRONZE TUR-keys, Goldbank strain, toms \$15; hens \$7. E. Gaughan, Earleton, Kan.

LARGE THOROBRED BOURBON REDS, from prize winning stock, toms \$7. Hens \$5. Mary Stielow, Russell, Kan.

BOURBON REDS, LARGE FINELY marked birds, white tips, toms, \$7 and \$8; hens, \$5. Hattie Blackhart, Zeandale, Kan.

PURE BRED NARRAGANSETT TURKEYS, Well marked, big boned. Old and young hens \$7. Toms \$10. J. A. Lahman, Bluff City, Kan.

ONE HUNDRED FINE MAMMOTH Bronze turkeys. Gold Bank strain from prize winning stock. Toms \$10; hens \$7.50. Mrs. A. Burg, Lakin, Kan.

MAMMOTH BRONZE TOMS, PURE BRED, big bone, beautifully marked, from prize winning stock. May hatch, 25 pounds, \$10. Maude E. Henry, Sun City, Kan.

PURE BRED MAMMOTH BRONZE TUR-keys, toms \$10; pullets \$8. Old tom weighed 40 lbs., mothers 25 at 18 months. W. A. Newberry, Freeport, Kan.

50 LARGE MAMMOTH BRONZE; PARENT toms, 40 pounds; hens, 22 pounds. May toms, 24-30 pounds. Toms coming two, 34 pounds, \$15; 15 pound pullets, \$8; 20 pound hens, \$15. Can furnish unrelated stock. Laura Ulom, Lamar, Colo.

MAMMOTH BRONZE TURKEYS—CHAM-pion gold standard strain. Sired by 50 lb. tom, 20-35 lb. hens. From first prize winning stock. Pullets \$7, \$10. Toms \$8, \$25 f. o. b. Dighton. Satisfaction guaranteed. W. H. Streeter, Dighton, Kan.

POULTRY SUPPLIES

POULTRY BREEDERS—SEND 4 CENTS stamps for names, reliable formulas. Cigresia Products, 216 West 4th, Topeka, Kansas.

SEVERAL VARIETIES.

1949 COCKERELS, 49 VARIETIES. FREE book. Aye Bros., Blair, Neb., Box 5.

MAMMOTH TOULOUSE GESE, BOURBON turkeys, Buff Orpington and Partridge Rock cockerels. Mrs. Frank Neel, Beverly, Kan.

BREEDERS CHEAP. ALL VARIETIES chickens, ducks, geese, guineas, turkeys and bantams; catalog free. Bare Poultry Co., Box 870, Hampton, Ia.

WHITE PLYMOUTH ROCK COCKERELS, White African Guineas, Large White Hol-land turkey toms. Chenoweth's White Feather Farm, Gove, Kan.

POULTRY WANTED.

POULTRY PRICES GENERALLY HIGHER. Write for offers and coops which are loaned free. The Copes, Topeka.

"THE COPES," TOPEKA, WANT YOUR Guineas, turkeys, other poultry for New Years. Write for prices and coops.

POULTRY—WE ARE BUYERS FOR ALL kinds of poultry and eggs. Get our quo-tations before selling. Highest references furnished. Witchey Poultry and Egg Co., Topeka, Kan.

THE STRAY LIST.

TAKEN UP—BY HARRY SCHLEHUBER, of Durham, Marion county, Kansas, on the first day of May, 1919, one heifer, red with white face, V on left ear, weight 250 pounds, O. V. Heinsohn, County Clerk.

TAKEN UP BY WM. H. GINGLES, OF Clifton, Sheridan Township, Washington County, Kansas, on the 17th day of Oct., 1919, one heifer, red, height, 3 ft. 2 inches, branded dark red, appraised at \$20. L. E. Sawin, County Clerk.

TAKEN UP ON THE 1ST DAY OF JULY, 1919, by Cecil Van Meter, of Garden City, Finney Co., Kan., one small, brown mare mule, branded "C. J." about 14½ hands high. Appraised value \$80. F. H. Laher-teaux, county clerk.

TAKEN UP—BY L. O. HUNT, OF RAGO, Valley Township, Kingman County, Kan-sas, on the 4th day of November, 1919, two Holstein steer calves, color black and white, a silt on both ears of each. Appraised at \$18 each. Geo. A. Howe, County Clerk.

TAKEN UP—BY MILTON A. MOREY OF Edson, Washington township, Sherman county, Kansas, on the 29th day of October, 1919, One gelding, brown, spot on face, weight 900 pounds, appraised at \$40; one mare bay, spot in face, white right hind foot, weight 800 pounds, appraised at \$40; one horse, bay bald face, white right hind foot, weight 500 pounds, appraised at \$20. Doris Soden, County Clerk.

Measuring a Trap's Worth

"A trap is of value to a trapper only in proportion to the power of the trap to hold the game when caught. This holding power of the trap is governed not only by the design of the trap, but by the methods of fastening used in setting the trap," says Walter S. Chanler, in a recent issue of the Hun-ter-Trapper.

"A strong trap when fastened to a tree or log by the use of staples, not infrequently will fail to hold animals no stronger than the skunk or the muskrat. A weak trap, if fastened to a brush drag of suitable size will hold either of those animals.

"One of the best methods of fasten-ing traps is by the brush drag. Fasten the chain of the trap near the heavy end of the pile of brush so that the drag of brush will not likely become mixed up among the brushes. Its object is to encumber the actions of the animal without entirely restraining its efforts of motion. Short poles and rocks are as effectual as the brush.

Use only good methods of fastening traps. It pays and pays big. Did you ever notice a miserly person bargaining with a street vender? This reminds me of a trapper friend of mine who haggles with fur dealers for half an hour over a difference of 50 cents over a bunch of furs worth from \$25 to \$30. The very next morning he will come in from a trap line and tell of losing a raccoon, a skunk, or a muskrat in a trap which was fastened by driving a stake into the ground thru the ring of the trap chain, the worst method of fastening a trap one could use.

Advertisements Guaranteed

We guarantee that every display ad-vertiser in this issue is reliable. Should any advertiser herein deal dishonestly with any subscriber, we will make good the amount of your loss, provided such transaction occurs within one month from date of this issue, that it is re-ported to us promptly, and that we find the facts to be as stated. It is a condition of this contract that in writing to advertisers you state: "I saw your advertisement in the Kansas Farmer and Mail and Breeze."

Prizes for Tractor Letters

The Kansas Farmer and Mail and Breeze desires to get letters from all farmers who have had successful ex-perience in the use of tractors for power farming and will give a prize of \$10 for the best letter and \$5 for the second best letter on that subject. All other letters accepted and used will be published at our regular rates. Short stories will suit our purpose best. All letters should be received on

or before January 15, 1920. You may discuss tractor farming in any way that appeals to you, but we would sug-gest that you mention the kind of trac-tor you have, when it was purchased, how much it costs you to operate the machine, the kind of work for which the tractor has been found most serv-iceable, what advantages you have found in its use, what winter work you do with your tractor, and add any-thing else that you think would be of interest. Address all letters to the Spe-cial Tractor Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan.

Gun Etiquette

Gun etiquette is strictly regarded by the good sportsman and hunter. The following rules should be observed:

Never carry a gun cocked. It is a dan-gerous practice.

Never point a gun, loaded or unloaded at anyone.

Never climb thru a fence and pull the gun after you. Put the gun thru first.

Never leave a gun lying around loaded.

Do not use cheap oil or grease on a gun. It only takes a little to keep the action working smoothly all the time.

Do not fail to keep a gun dry. Oil it if it becomes wet to keep it from rusting. Clean it after it has been used.

Everyone should know how to use a gun and if one is taught right in the beginning, it will never be forgotten.

Kansas Blood in a Championship

This season's winnings by the great Shorthorn 2-year-old, Lespedeza Col-lynie, call renewed attention to what a real blood cow can do. Two years ago Imperial Mistletoe was mentioned as the greatest bull the season had brought out, and was one of the high-est, if not quite the highest priced bull sold at auction that year. Both Im-perial Mistletoe and Lespedeza Col-lynie (champion of the recent Inter-national) are out of the Kansas bred cow, Sweet Mistletoe by Imp. Collynie. She was bred by S. C. Hanna and sold by him to H. M. Hill who raised from her for himself the herd bull Mistletoe Archer before selling Sweet Mistletoe to Lespedeza farm, where she now is turning out champions.

Spare the Quail

Do not try to get the last bird in the covey when you are out after quail. There is no honor in such a feat. The last few birds are no harder to hit than the first ones. This not only demon-strates poor sportsmanship, but lack of forethought. If the hunter intends to hunt the same country next year, it is a wise plan to leave five or six quail to a covey. Remember, when the hunter has finished, the hawks, foxes and other roaming animals will get their share. Think of all these things, and remember that at least one pair of birds must be left for next spring.

SOMETHING DIFFERENT

A Farm Paper Edited on a Farm

Capper's Farmer, published by United States Senator Arthur Capper of Kansas, is a farm paper that is dif-ferent. It is edited on the farm by a farmer and for the farmer. It is pub-lished in the heart of the greatest agri-cultural country in the world. It stands for a square deal for the consumer and fair profits for the producer thru elim-inating grain gamblers, market jugglers, and other trusts and combines. For that great body of American Farmers who live with ideals, who want to be pro-gressive, there is no such favorite as Capper's Farmer. There is a depart-ment for the women folks, boys and girls, marketing, livestock, poultry, dairy, field crops, farm machinery, horticulture, health, etc. In addition to the regular editorials, Senator Cap-per's Washington Comment is one of the most interesting and instructive.

In order to introduce this bright and breezy farm paper to readers of the Kansas Farmer and Mail and Breeze, the publisher agrees to send the paper six months for ten cents. This is a special offer, good for ten days only. You should send in your dime today. Address, Capper's Farmer, 507 Capper Bldg., Topeka, Kansas. You can't af-ford to miss a single copy.

More Egg Mash

Poehler Mercantile Co. Distributors—Adv.

All of the money in the world will not hurt a man if he keeps it in the right place; but two copper cents will blind him if he puts them over his eyes.

Real Estate Market Place

Real estate advertisements on this page (in the small type, set solid and classified by states) cost 65 cents per line per issue. Send check, money order or draft with your advertisement. After studying the other advertisements you can write a good one and figure the cost. About six and a half words make an agate line. Count initials and numbers as words.

There are 7 Capper Publications totaling over a million and a quarter circulation and widely used in this advertising. Ask us about them.

Special Notice

All advertising copy must be received by the Real Estate Department not later than 10 o'clock Saturday morning, one week in advance of publication.

KANSAS

BEST FARM BARGAINS for sale in S. E. Kansas by G. W. Meyer, Fredonia, Kan.

WELL IMPROVED FARMS, \$85 to \$125 per acre. I. N. Compton, Valley Falls, Kan.

203 ACRES, imp., 40 wheat goes, \$112.50 a. Terms. Bert W. Booth, Valley Falls, Kan.

BARGAINS in farms and ranches. Write for list. Klingberg & Skinner, Osage City, Kan.

BARGAINS. Bargains in wheat farms and stock ranches. Write for list. W. E. McAdams, Brewster, Kansas.

FOR SALE—Good farms from \$80 to \$125 per acre. Call on, or address, O. C. Paxson, Meriden, Kansas.

EASTERN KANSAS FARMS. Large list Lyon and Coffey counties, for sale by Ed F. Milner, Hartford, Kan.

FOR SALE—200 acre river bottom farm all under plow, well improved. Write, Hunt & Still, Manhattan, Kansas.

CARY & HOARD, Real Estate Exchange and Loan Agent. Ranches a specialty, sold on commission. Phone 13, Anthony, Kansas.

WE HAVE a good list of Kaw bottom and upland farms that are worth the money. Wilson & Clawson, Lawrence, Kansas.

WE DON'T OWN THE WORLD, we sell it. Write for farm list and pictures. Kansas Land Company, Ottawa, Kansas.

FOR SALE—All kinds of farms in N. E. Kan. Send for printed list. Silas D. Warner, 727 1/2 Commercial St., Atchison, Kan.

FOR SALE—Well improved eighty acres suburban home. On rock road, no waste land. Write Box 235, Humboldt, Kansas.

WRITE for our free list of eastern Kansas farms and ranches for sale. The Eastern Kansas Land Co., Quenemo, Kan.

HAMILTON AND STANTON county lands, \$8 up. Write me your wants. Tomson, Syracuse, Kansas.

160 ACRES, 4 miles from town, good house, 7 rooms, good barn, other outbuildings, 90 acres wheat, balance grass. Price \$85 per acre. LeRoy Realty Co., LeRoy, Kan.

320 ACRES smooth upland, 6 miles town, on good road, 160 plow, 160 pasture, 100 acres wheat. Good buildings. \$55 per acre. T. B. Godsey, Emporia, Kansas.

NICE CLEAN STOCK of hardware doing business in a good town; invoice about \$12,000. Will exchange for farm. W. J. Polre, Westphalia, Kansas.

96 ACRES, imp., 20 alfalfa bottom land, bal. timothy and plow land. Living water; some timber; 3 mi. town. Good buy. Box 54, Colony, Kansas.

1,400 ACRES, mile town, 3 dwellings, large barns, creek water, plenty grass, lots of bottom alfalfa land, for sale cheap. Box 72, Colony, Kansas.

FOR SALE—Two good farms and a new blacksmith shop fully equipped and a money maker. C. E. Francis, Neosho Falls, Kansas.

200 A. 2 miles Westphalia, Kan. Good house, large barn, 80 a. cultivation, 20 A. wheat, rest pasture and mow land, terms. W. G. Beissel, Westphalia, Kansas.

2 A. LOT, alfalfa, 5 room house, cellar, barn, chicken houses, good well, 1/2 mi. from Climburne, high school, \$1600. 33 a. for sale joining. E. H. Erickson, Olsburg, Kansas.

560 ACRES, adjoining county seat, well improved, 400 acres of fine wheat. Price seventy-five dollars per acre, good terms. Will accept part trade. Justin T. Avery, Traer, Decatur County, Kansas.

80 ACRES, good improvements, all Kaw valley bottom land, 30 acres alfalfa, 18 acres wheat, 1/2 goes; balance for corn. Near St. Marys. Price \$250 per acre. Write J. M. Conlan, St. Marys, Kan.

GOOD SOUTHEASTERN KANSAS FARMS For sale on payments of \$1,000 to \$2,000 down. Also to exchange for clear city property. Address The Allen County Investment Co., Iola, Kan.

A WHEAT FARM BARGAIN—160 acres all under cultivation, close to market, only \$4000. Also 600 acre farm, 450 acres under cultivation. \$25 an acre. Write Jas. H. Little, La Crosse, Kansas.

I WOULD rather invest in Wallace county, Kansas, land right now than anywhere I know of. Come and see for yourselves. Live agents bring your men. I show good stuff. A. H. Wilson, Sharon Springs, Kan.

IMPROVED 160 ACRES—\$3,250, only \$750 cash, bal. easy terms. Small house, barn, well, fence, half in crop, 11 miles from Liberal. No trades. Write owners, Griffith & Baughman, Liberal, Kansas.

RENO CO. IMPROVED SECTION FOR TRADE. 630 acres, 200 acres in cultivation, balance pasture and mow land, all fenced and cross fenced, 5 room house, new barn 40x50 with large mow, other good imp. The price is only \$50 per acre. Will take 1/2 of the price in trade and balance must be cash or mortgage. Here is a real opportunity. Write to Jay V. E. West, 402 First National Bldg., Hutchinson, Kansas.

KANSAS

A FINE RANCH—600 acres near town, 200 plowed, 160 Neosho River bottom, 400 acres best blue stem pasture, 60 alfalfa, 60 wheat. Modern 8 room house, large barn, \$80 per acre. T. B. Godsey, Emporia, Kansas.

53 ACRE dairy farm for sale by owner, 1/2 in alfalfa, 1/2 mile Simpson, a good town with fine high school. Good improvements, with silo, plenty of water. Price \$200 per acre. W. S. Clark, Simpson, Kansas.

WE HAVE well improved, highly productive farm land, laying nicely, and in thickly settled neighborhood, at \$50 to \$75 per acre. Also some good ranches. Write us what you are interested in. Couch Land Company, Anthony, Harper County, Kansas.

320 ACRES, 75 ml. S. W. of K. C. in Linn County, Kansas. Well improved 160 A. pasture, 125 A. cultivation, 30 A. mow land, 3 ml. to R. R. town, no waste land. \$75.00 per acre. Reasonable terms. J. F. Rosell, Owner, Selma, Kansas.

320 ACRES Improved, shallow water land, 100 acres will grow alfalfa without irrigation. Price \$35 an acre. Write for complete description, also list of bargains. The King Realty Co., Scott City, Kansas.

THE BEST LAND to be found anywhere for the money. Farms from 40 acres up to 640, creek and river bottom and upland at prices cheaper than anywhere in the world for same kind of land. Come and see for yourself or write. E. E. Johnson, Hartford, Kansas.

50 ACRES, 7 miles Ottawa, 6 room house, with furnace, barn, other outbuildings, fruit, all tillable, some bottom, \$150 acre. Write for list of farms. Bridwell-Gilley, Ottawa, Kansas.

FOR SALE—160 acres of land; 35 acres fenced and watered pasture and hay; balance in fine crop of wheat; two miles from Lindsay, Ottawa Co., Kansas, four miles from Minneapolis, county seat. For price and terms address, M. E. Richard, Gettysburg, Pa.

NESS COUNTY, KANSAS, LANDS Good wheat, alfalfa and ranch lands at bargain prices. Several excellent ranches. Write for price list, county map and literature. FLOYD & FLOYD, Ness City, Kan.

120 ACRES, 4 miles to town, Rural High school, 6 room house, new and good, small barn, good water. Land lays well, 80 acres cultivation. Immediate possession. \$100 per acre. Write for list of other good farms. Dickey Land Co., Ottawa, Kansas.

LANE COUNTY Choice little dairy and alfalfa farm, extra good improvements, all stock and farm improvements go with the place, terms on part, \$10,000. Good wheat farms from \$10 to \$25 an acre. Ask about them. C. N. Owen, Dighton, Kansas.

FOR SPRING DELIVERY A large assortment of good improved ranches, ranging from 1,000 to 15,000 acres, plenty of farm land, hay land and running water. Write for descriptions, prices and terms. McFarland Realty Co., Ashland, Kansas.

FOR RENT FOR CASH. 800 acres, 12 miles from Ashland in Clark Co., Kansas, about 200 acres cultivated and 600 in grass, improved, fenced and cross fenced, water and mill, good one man stock proposition. \$1000 per year beginning in the spring. G. C. Eby, Ashland, Kan.

BANNER CORN COUNTY OF KANSAS. Norton County, Kansas, corn making 40 to 65 bushels to the acre. Good farm land selling at \$40 to \$65 per acre. Special bargain in 240 acre farm, improved, 4 miles out at \$30 per acre. Write today for bargain land list. E. E. Jeter, Land Merchant, Lenora, Kan.

80 ACRES OSAGE CO., Kan., 2 miles town on county road, 1/2 mi. school, 2 mi. high school, 42 acres farm land, 18 acres alfalfa, 30 a. pasture, deep black loam soil. Plenty water, good 6 room house, barn 30x50, other buildings. Price \$9500. Terms 150 acres Osage Co., 5 miles town, 70 acres farm land, 30 acres alfalfa, balance pasture, 50 acres wheat, plenty water, 6 room house, barn 36x42, other bldgs. Price \$85 per acre. Terms. The Eastern Kansas Land Co., Quenemo, Kan.

240 ACRES, 6 miles Burlington, 19 miles Topeka, extra good soil, in high state of fertility and tillage, lays well, 60 acres bottom, 100 acres cult., 30 acres fine alfalfa, balance good meadow and pasture, good fences, good house of 8 rooms, fine cave, barns, cribs, poultry houses, sheds, etc., 4 good wells, lots of all kinds of fruit, 35 acres fine wheat, all goes, is an extra good grain and dairy farm and a money maker, priced for a quick sale at only \$85 an acre. Phone or write. E. B. Miller, Admire, Kansas.

REAL BARGAINS—That's what you want to see when looking for land. We have them in all sizes, all prices, any kind of terms, nice 160 all smooth, all in wheat planted to Kan Red, rented 1/2, one and half mile town, 5000 cash down and 5000 yearly at 6% handles it. Nice 160 out 7 miles, all in grass, graded road, school, only \$3,400 with \$600 down, balance easy. Half section 2 miles town, small improvements, fine water, 100 in wheat, rented half, 200 smooth, price \$7,500 and \$4,000 runs four years with no interest, \$1,000 down, balance crop payments. Send for illustrated list of best snaps in Kansas, where land can be bought cheaper for what it produces than any place in Kansas, Colorado or Nebraska. Buxton Whitmer Land Co., Ransom, Ness Co., Kansas.

160 ACRES, Franklin county, 1 1/2 miles good railroad station with high school and elevator. Good house; barn and other necessary outbuildings; abundance of water; nice shade; 60 acres hog tight; 100 acres cultivation; remainder pasture and timber. Priced cheap for short time. \$4,000 will handle. L. Geiger, Ottawa, Kansas.

KANSAS FARM HOME 320 acres, all smooth rich black land but 40 acres, 200 acres wheat, all goes; 80 pasture, balance for corn and oats, good improvements, 3 miles town, fine home. Only \$30 acre for quick sale. Come at once while the weather is nice. Write for Kansas map and list. Mansfield Investment & Realty Company, Healy, Kansas.

4,500 ACRE RANCH, Harper and Barber Co. Six miles of running water, 100 never failing springs, good grass, never been overstocked, owner's house, 3 farm houses, granaries, barns, sheds, garage shop, windmills, fenced, hog lots and houses, corrals, etc. A bargain at \$30 per acre.

1,440 acres Comanche county, 7 1/2 miles from Sun City. 900 acres in cultivation, two sets of good improvements, fenced, heavy black loam soil. Windmills, tanks, etc. Price only \$50 per acre. John Forster, Wichita, Kan.

240 ACRES, near Fort Scott, all tillable, no rocks; 30 meadow; 15 pasture; 8 room house; good barn, well and windmill; gas district; \$18,000.

158 acres, 1 mile from Fort Scott, 140 tillable, fine grain and stock farm; two veins of coal; good small improvements; price \$17,380.

47 acres, 1 mile from station, 8 miles Ft. Scott, all tillable; mostly black soil; only 1/2 improvements; cheap at \$5,000, half cash. Depue & Slaughter, Fort Scott, Kan.

CHASE COUNTY 200 ACRES

at bargain price, 156 a. in cultivation, 60 a. alfalfa, 60 a. wheat, small improvements. Box 770, Hymers, Kansas.

LYON and CHASE CO.

is the place to buy farms. The best land for the money to be had anywhere. Farms from 80 to 1,440 acres. Plenty of creek and spring water, and bluestem grass. Alfalfa, wheat and corn land. Will Albin, Saffordville, Kan.

The Bargain Counter

Right here at Winona is the high spot in value and the low spot in price. Come and see. Improved farms and ranches, grain, alfalfa and grass lands. We own or control our bargains. THE BROOKE LAND & TRUST COMPANY, Winona, Kansas.

Wilson County Choice Valley Farm

160 acre choice valley farm, deep black alfalfa, wheat and corn soil equal to creek and river bottom land, but does not overflow; 40 acres in alfalfa; over four thousand dollars in improvements including large hay and cattle barn. \$100 per acre for quick sale. Address, Frank H. Burnett, Benedict, Kansas.

Why Rent?

160 acres, 120 acres in cultivation; good 8 room house, fair barn, 2 miles from town of 1,000 people with good churches, high school, in a good neighborhood. First class farm. Price \$67.50 an acre; \$15,000 cash, balance on long time, easy terms. Possession at any time. Come and see it at once. Address, THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

Fine 80 Acre Farm

3 miles Ottawa, Kan., 56 miles Kansas City, all fine tillable land; 15 acres blue grass; 25 acres wheat; 7 room house; natural gas; good barn; never failing water; County Highway; R. F. D. telephone. Possession at once. Good terms if wanted.

80 acre farm 4 miles Princeton, Kansas, 12 miles Ottawa. Brand new improvements; all fine land; price \$125 per acre; \$2500 or more cash, remainder good terms, if wanted. CASIDA & CLARK LAND CO., Ottawa, Kansas.

Ranch for Sale

2,000 acres deeded, 5,000 leased. Will handle 500 cattle. Good, new improvements, modern house, tenant house, barn, big stone shed, 4 corrals, dipping tank and chute, 2 windmills and abundance water at 12 ft. Leases and fences go with deeded land. Best and cheapest cattle proposition in Kansas. Great crops this year. Price \$38,000, one-half cash, rest at 6%. Write if once if you want a ranch. Owners reside on ranch and it is a money making proposition, but must sell on account of other business. Allen & Jones, Russell Springs, Kansas.

For Sale Stock Farm

501 acres 7 miles Lawrence, 3 1/2 station Santa Fe. 120 acres cultivation, 50 acres wheat, 1/2 delivered at station, 380 acres pasture, 20 acres alfalfa, some timber. 7 room house, new barn 60x60, buildings No. 2, 4 room house, hay barn 24x60, shed attached 20x60.

120 acres 6 1/2 Lawrence, 1 1/2 station main line U. P. 30 cultivated, 15 alfalfa, 55 pasture, 20 meadow, 4 room house, barn 30x40, other outbuildings. Price \$64 per acre. Hesford Investment & Mortgage Co., Lawrence, Kansas.

Stock or Dairy

Farm 3 1/2 miles Hutchinson, 240 acres, no waste land, 50 a. hog tight, 15 a. alfalfa, 150 acres good alfalfa land, 30 a. pasture, fine 8 room house, cow barn 39x62, with 34 stanchions, cement floors, horse and hay barn 64x76, barns Lowden equipped. 125 ton cement silo. One of the finest farms in Reno county. J. N. BAILEY & SON, Hutchinson, Kan.

KANSAS

5 SMOOTH QUARTERS. BEST OF SOIL. Abundance of sheet water. Splendid investment. \$17.50 per acre. Terms. Live agents wanted. Carter Realty & Abstract Co., Leoti, Kansas.

100 ACRES, near Ottawa. 7 room house; good barn; 50 acres fenced hog tight, 15 timber; 50 in cultivation. 15 tame grass. Watered by well and creek. 1 mile school and church. \$125 per acre. 80 acres, near Ottawa, 6 room house; barn; other improvements. Special price \$10,000. Write for full description, booklet and list No. 456. Mansfield Land & Loan Co., Ottawa, Kan.

BEST BUY IN JEFFERSON COUNTY 320 acres, 8 room modern house, large barn, garage, double granary, etc. 140 acres clover and bluegrass, 12 acres alfalfa, 40 acres in corn, balance in small grain. Watered by springs, 4 miles from town on R. F. D. 40 miles from Kansas City. Price is only \$150 per acre. If you want to buy a farm of any size come and see me. Benj. J. Griffin, Valley Falls, Kan. Phone 34.

CHOICE ALFALFA LANDS. Alfalfa is the money making crop. 320 acres mostly bottom improved at \$85 per a. 160 acres all tillable, well improved at \$75 a. 200 acres, 140 acres choice alfalfa land at \$75 per acre. 360 acres part alfalfa land at \$40. You should buy one of these bargains before they are gone. Farms all sizes and prices. Write me your wants. I can supply the farm that will suit you. M. T. Spong, Fredonia, Kansas.

ARKANSAS

WRITE TOM TETER, SHERIDAN, ARK., for bargains in good farms.

DOWELL LAND CO., Walnut Ridge, Ark. Fine corn lands, easy terms, plenty rainfall.

WRITE TOM BLODGETT, Pine Bluff, Ark., for land bargains that will double in value.

OZARK Cream-Stock Farms, Fruit Farms, Berry and Vegetable Tracts. Hunsaker, Decatur, Ark.

FOSTER REAL ESTATE COMPANY, Gravette, Arkansas. Leaders in farm and town property.

ARKANSAS—For sale, fruit farms that produce \$1,600 per acre of apples and \$1,000 per acre of strawberries. Lock Box 141, Springdale, Ark.

I OWN TWO improved farms, 160 and 120 near town, good roads, mail route, all smooth and tillable, \$30 and \$40 per acre. J. Oswalt, Gravette, Ark.

BUY A FARM in the great fruit and farming country of northwest Arkansas where land is cheap and terms are reasonable. For free literature and list of farms, write J. M. Doyel, Mountainburg, Ark.

SOUTHWEST ARKANSAS—Unusual bargains in low priced farms with comfortable buildings for \$10 to \$50 per acre on good terms. Send at once for copy of our large farm bulletin with complete descriptions of farm bargains. Stuart Land Co., DeQueen, Ark.

FREE illustrated booklet of No. Arkansas now ready. Great stock and fruit section. Spring water everywhere. Grow everything but tropical fruits. Healthful. Lowest priced productive lands left in U. S. Address, Loba & Seward, Mountain Home, Ark., Immigrant Agents for Baxter County.

COLORADO

LARGE YIELDS; wheat and corn land, \$15 to \$20 per a. Earl M. Terry, Two Buttes, Colo.

EASTERN COLORADO farms and ranches, all sizes. For further information, write, J. W. Triplett & Son, Yuma, Colo.

1,120 ACRES, 450 cultivation, two sets imps. Will sell any part, \$17 a. easy terms. John Slagle, Yuma, Colo.

WRITE THE ERWIN LAND COMPANY, Burlington, Colorado, for information and prices on Kit Carson, Cheyenne and Kiowa county lands.

20 IMPROVED eastern Colorado farms for sale at bargain prices; terms; information and literature on request. Frank Sutton, Akron, Colo.

EASTERN COLORADO. Irrigated farms. Any size, ranches and upland farms. Write for list. C. A. Quimby, Granada, Colorado.

IRRIGATED small tracts and farms produce sure and paying crops. We have them at Rocky Ford, Colo. Write. Wm. C. Steele, Rocky Ford, Colorado.

320 ACRES, imp., 120 cult., bal. pasture. Plenty good water; 14 miles from town. \$22 a., \$1,000 cash, \$2,000 March 1st, balance 3 years at 6%. Lamb Realty Co., Vona, Colo.

EASTERN COLORADO and Western Kansas land. Farms, ranches and investments. Tracts of 160 to 2500 acres. Our prices from \$12.50 to \$30 per acre. Barnes & Doty, Tower, Colo.

FARMS AND UNIMPROVED land for sale. Do you want a home of your own, where you can grow good crops of corn, wheat, milo and other forage plants? Write to The Western Realty Company, Eads, Colo., for information. H. A. Long, Manager.

HASWELL DISTRICT of eastern Colorado, the garden spot of the state. We own our own land and guarantee delivery. If you have never seen this district, which is largely shallow water, by all means look it over before buying elsewhere. Write us. CHARLTON-HOPWELL LAND CO., Haswell, Colorado.

LANDS ARE rapidly advancing here. No other district has such a future ahead of it. A farm bought now, will be worth double in a few years. Let us show you what we do for those who buy from us. Let us show you the experience of those who have been here a few years. We sell our own lands, and can offer good farms with or without growing wheat. For further particulars write, Wagner Realty Co., Akron, Colo.

COLORADO

640 ACRES partly imp. good wheat land, good pasture, running water, timber, near station. \$17.50. J. G. Dick, Marnel, Colo.

THE CUCARAS LAND AND WATER CORPORATION.

Opera House Block, Pueblo, Colorado. Offers for sale five thousand of its twenty thousand acres of the choicest farming lands in Colorado, located within a few miles of Pueblo, the second largest city in the state, affording good markets. These lands are covered and irrigated by a fine irrigation system, securing its water supply from direct flow and from large storage reservoirs. Seven thousand acres under this irrigation system now being profitably farmed. Prices: \$135 per acre for lands in growing alfalfa; \$115 for cultivated lands; \$105 for sod lands. Terms: One-fifth cash, balance easy.

Best Lands

The best closest priced lands in Kiowa and Cheyenne counties, Colo. 160 to 5,000 acre tracts, raw and improved, \$17 to \$35 per acre. Best climate, soil. Do not pay three or four commissions to be brought here. Own most of what I offer. Write or come now. R. T. Cline & Sons, Brandon, Colo.

Read This

If you want some of this Eastern Colorado land now is the time to buy, your opportunity for getting in on these cheap prices is fast passing, better grab some of it now while the getting is good. Write for folders and terms.

WOLF LAND COMPANY,

Yuma, Colo.

Offices at Burlington and Stratton.

A Real Bargain in Irrigated Land

Just one of the many farms we are offering on the Costilla Estates in Southern Colorado. 315 acres, 2 miles south San Acacio. Smooth land with permanent water right. Good 6-room house, electric lights in house and outbuildings; fine barn, well and windmill, good outbuildings, feed corral, tenant house. 95 acres in alfalfa. Substantial cash payment; balance on long time. \$110 per acre. Write for further information to Costilla Estates Dev. Co., San Acacio, Colorado.

FLORIDA

CHEAPEST GOOD LANDS IN AMERICA

Your chance to select from thousands of acres in south-central Florida, highlands, splendid orange, garden, general farming, cattle and hog lands, wholesale prices, terms or exchange. Florida Good Homes Co., Searritt Bldg., Kansas City, Mo.

MISSISSIPPI

WRITE for free Mississippi map and land list. Land Market, Box 843, Meridian, Miss.

NORTH MISS. DELTA FARMS FOR SALE. Have 5 plantations for sale. 160 acres to 722 acres. Prices right. Write or wire M. Jamison Marks, Miss.

MISSOURI

OUR BIG new list for the asking. Amoret Realty Co. Amoret, Mo.

VALLEY FARMS—Fruit and berry farms. Write. Chambliss & Son, Anderson, Mo.

FOR BIG FARM LIST, just out, write. Baker Investment Co. Mountain Grove, Mo.

DO YOU WANT a home in South Mo.? Write Stephens & Perry Mountain Grove, Mo.

LISTEN dandy level 210 acres, \$60; well imp 120 \$4,000 McGrath Mtn. View Mo.

CITY PROPERTY, farms, ranches, sale or exchange. Write. Roy & Stephens Mansfield, Mo.

FREE—All about the Ozark country, map and list of cheap lands. Durnell Land Company, Cabool, Mo.

IF YOU WANT a large or small prairie or timber farm pure spring water, no crop failures write J. E. Loy, Flemington, Mo.

3,700 ACRES, good timber, plenty water, \$7.50 per acre. Farms of all sizes. Douglas Co. Abst. Co., Ava, Mo.

POOR MAN'S Chance—\$5 down, \$5 monthly, buys 40 acres productive land, near town, some timber, healthy location. Price \$200. Other bargains. Box 425-O, Carthage, Mo.

LET ME KNOW what you want in farms or town property, phone lines or merchandise and I will let you know what I have. S. S. Tillery Realty Co., Humansville, Mo.

304 ACRES 2 1/2 MI OF R. R. town; Vernon Co., Mo. Three sets of improvements, 85 acres creek bottom; no overflow. Terms to suit. \$48 per acre. W. H. Hunt, Schell City, Missouri.

READ THIS—Have bargains in large and small farms. Also city property. Farm land, \$35 per acre and up. Information on request. F. G. Thornton, 824 Oak Ave., Aurora, Missouri.

TWO SPLENDID FARMS 325 acres, 75 valley, all fenced—large barn, good dwelling, running water, \$14,000, cash \$5000, annual payments. 125 acres, 70 valley, 25 wheat included, very fair imp., running water. Our best, \$6750, terms. For particulars Chambliss & Son, Anderson, Missouri.

Good Bottom Farm

210 acres, near Fortescue, extreme Northwest Missouri. New house and barn. This land is choice corn and alfalfa land. Price \$112.50 per acre. Long time on part. Address M. W. Connelly, White Cloud, Kan.

MISSOURI

IMPROVED FARMS—40, 80, up 300 acres; prices \$20 to \$65; write your wants. Fellers Realty Co., Flemington, Polk County, Mo.

154 ACRES, all fenced, 5 room house, barn, 80 acres bottom, fine land, price \$5,500, only, \$1,000 down. Tom King, Weaubleau, Mo.

GET OUR SPECIAL bargain list on small homes. Have desirable farms any size. Houston Realty Co., Houston, Mo.

REAL BARGAINS in Mo. farms; write for illustrated booklet and list. R. L. Presson, Bolivar, Mo.

ATTENTION FARMERS—Improved farms in southwest Missouri, \$25 to \$50 per acre. Write, Frank M. Hamel, Marshfield, Mo.

NEBRASKA

HITCHCOCK COUNTY, Nebraska, lands are the best buy in the United States today. Ask A. R. Smith, the Land Man, of Culbertson, Nebraska, about them.

LINCOLN COUNTY ranch lands, 9 miles from Sutherland. One to five sections solid blocked, partially tilled. Priced right. Terms easy. Some trade. Write the owner. John W. Baughman, Liberal, Kansas.

OKLAHOMA

GET MY NEW LIST of farm home bargains in Dewey and Blaine counties, Oklahoma. L. Pennington, Oakwood, Okla.

WRITE US for prices on good wheat, alfalfa and ranch land, 80 a. to 3,000 a. E. M. Dempsey, 124 1/2 West Randolph, Enid, Okla.

\$20 TO \$60 PER ACRE. Fine wheat, oats, alfalfa, corn and cotton lands. Write for free illustrated folder. E. G. Eby, Wagoner, Okla.

20 ACRES, 2 miles business center McAlester, city, 18,000 all dry black bottom land. 16 acres tillable 12 in cult. Fine for poultry, fruit and vegetables. \$75 per acre. Southern Realty Co., McAlester, Okla.

160 ACRES 6 miles out, on state road. R. F. D., 1/2 mile of school. 120 acres in cult., 100 acres to wheat, 40 acres prairie pasture, rich dark soil, grows best of wheat and corn, lies well, all fenced, 3 room house, barn, granary and other buildings, pure soft water. Price \$8000, half cash. Free list and map of Oklahoma. De Ford & Cronkhite, Watonga, Oklahoma.

EASTERN OKLAHOMA improved lands, \$50 to \$150. Raw or grazing lands at less. Lots of farms produced crops this year worth \$50 to \$100 an acre. According to U. S. Department of Agriculture, Oklahoma leads the United States in composite crop conditions for 1919. Land prices are sure to increase. Write us what kind of farm you want and how much you have to invest. We will tell you who has the farm for sale and will send you a handsomely illustrated United States government booklet that tells the facts about Oklahoma farming. Farm Bureau, Care of Industrial Department, M. K. & T. Railway, Room 318, Dallas, Texas.

One Thousand Farms

In all parts of Oklahoma, wonderful opportunities and bargains in farms, ranches, oil lands and business properties. Oklahoma farm lands will advance fifty per cent in next two years. Time to buy now. Information on return mail.

Bonded Securities Company

702 Oil Exchange Bldg., Oklahoma City, Okla.

TEXAS

LIFETIME OPPORTUNITY, get your money working. Panhandle bargains. Bumper crops, and recent oil possibilities are all great. Write today. J. N. Johnson Land Co. Dalhart, Texas.

IRRIGATED LANDS in the famous Rio Grande valley. We grow 3 crops a year. Now planting cabbages, onions and many other things. Coming citrus fruit country of the United States. No winters, no drought, no richer soil. We reserve 3-7 of oil rights on our tract. Write us now for full particulars. C. A. Christensen & Sons, Box 200, Donna, Texas.

SALE OR EXCHANGE

WANT TO HEAR from party having farm for sale. Give particulars and lowest price. John J. Black, Copper St., Chippewa Falls, Wis.

TO RENT OR LEASE

WANTED TO RENT—A farm of 160 acres or more, preferably with some alfalfa on it and also with fair improvements. Must be good corn ground. F. O. Benson, Sedgwick, Kansas.

FOR RENT, grain and stock farm, near the mountains, prefer for tenant to furnish stock, but will furnish stock and let tenant take half interest. Been here 6 years and no failure. P. E. Welborn, Graneros, Colo.

MISCELLANEOUS

FARM WANTED. Send description. C. C. Shepard, Minneapolis, Minn.

I HAVE cash buyers for salable farms. Will deal with owners only. Give description, location and cash price. James P. White, New Franklin, Mo.

EASTERN COLORADO and western Kansas land. Buy direct. Prices from \$10 to \$30 on easy terms. Agents wanted. Write for my confidential proposition. F. L. Hammitt, Towner, Colo.

PRODUCTIVE LANDS—Crop payment on easy terms. Along the Northern Pac. Ry. in Minnesota, North Dakota, Montana, Idaho, Washington, Oregon. Free literature. Say what states interest you. L. J. Bricker, 81 Northern Pacific Ry., St. Paul, Minn.

Bearish Outlook for Bran

Sharp Upturns in Rye; Oats Still Strong

BY SANDERS SOSLAND

AS IS TRUE of alfalfa hay, cottonseed feed and other commodities used in the rations for dairy stock, bran is selling at an extraordinary level, practically the highest on the crop. Shorts, the other by-product feed in the manufacture of flour, is not enjoying the volume of business noted in bran in Kansas City or on other large markets, and while the price is comparatively high, it is far under the level which prevailed earlier in the year.

Heavy Flour Production

It is significant to note production of bran thus far on the crop has been enormous. Figures of the United States Grain Corporation show that mills have produced around 70 million barrels of flour since the opening of the crop

ing by the Northwest has been in evidence the past week.

Because of prospects for a heavy movement of corn to market and lower prices for the coarse grain, buyers of shorts display a lack of interest in the trade. The brown grade is on practically a nominal basis, with occasional sales around \$43 to \$44 a ton. A moderate inquiry prevails for gray shorts, and for the occasional offerings of fancy middlings a good demand is in evidence. The gray variety is selling around \$47 to \$50 a ton, generally around \$47 to \$48, sacked, Kansas City.

Wheat Prices Advance

A top-heavy condition developed in the wheat market last week, resulting from the uninterrupted advance in prices to practically the \$3-mark, with the result that many buyers dropped out of the market for a time. Values eased off around 5 to 8 cents a bushel, but the market then rebounded. Sales at the close last week showed net price changes of as much as 3 cents lower to as much as 7 cents higher on hard winter varieties. Actual sales ranged up to \$2.90, paid for No. 3 hard winter, or a premium of 78 cents over the government basis.

Ear Corn at \$1.47

Increased offerings of corn in Kansas City last week caused a downturn of 1 to 4 cents a bushel in the cash market, while additional gains were scored in the future trade, amounting to more than 4 cents on the December option, about 3 cents on the January, and about 2 1/2 cents on the May and July deliveries. Because of the failure of new corn to move marketward in large volume, "short" interests in the speculative trade are being squeezed, and in an effort to dispose of their short holdings, they are forcing the market up.

Bullishness in oats was influenced by dwindling visible supplies, light movement to market, moderate sales for export and sympathetic strength with corn. Carlots advanced 4 cents a bushel, selling at 82 to 86 cents, while futures gained 4 1/2 on the December and about 3 cents on the May, the latter delivery closing at 83 3/4 cents. The undertone of the market continues unusually strong, but it is possible that a reaction may develop, owing to the continued advancing tendency of prices.

Prairie hay is weakening because of slightly freer offerings from the country, but alfalfa continues on an upward scale. The market gained \$1 a ton the past week, with the choice grade up to \$38 a ton, a new record mark for the crop year. Prairie sold up to \$26.50 for choice, with the cheaper grades down to \$19. No. 3 alfalfa is worth \$25 to \$28. Timothy and clover mixed sells up to \$28.50, while straight clover is eagerly sought around \$30 a ton.

Movie Aids Tractor School

Moving picture enthusiasts should enroll in the K. S. A. C. traction short course next term if they would like to get credit and at the same time enjoy themselves. Several of the large tractor concerns have promised Prof. W. H. Sanders to show industrial films of their factories.

These films will enable the students to see exactly how tractors and tractor parts are made and examined before being placed before the public in the form of a finished tractor ready to help the farmer reduce the high cost of living.

To Tractor Farmers

We would like to have 500 Kansas farmers write us about their experiences in using tractors for farm work of all kinds. For the best short letter of all kinds. For the best short letter a prize of \$10 will be given, and for the second best letter a prize of \$5 will be awarded. Address all letters to the Tractor Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan.

Do you know, my complaining friends, that relating all your pains and aches and misfortunes to everybody who will listen to you is a bad mistake?

Shorts Prices Should Narrow

The present position of bran and shorts, the by-products of flour mills, makes heavy purchases by feeders undesirable. Instead, buyers should hold off, for the market gives signs of easing. Millers of the Southwest and of the country as a whole have produced enormous quantities of bran and shorts, and it is not believed that consumption has kept pace with increased grinding of mills. Some in the trade predict that shorts will work down to within \$4 a ton of the level of bran, compared with the present premium of about \$9 a ton and a margin earlier in the season of around \$18 a ton. Rye is following the footsteps of wheat. In the past week prices gained 20 cents a bushel, and \$2 may be paid for the grain within the next few months.

year, which total indicates an output of about 2 3/4 million tons of bran and shorts. Flour production in the United States is more than 11 million barrels above the corresponding period in 1918, with the increase in feed production about 430,000 tons.

Bran is selling on the Kansas City market for spot shipment around \$41 a ton, sacked. Some softness is evident in the market for bran for January and February shipment, and in the past week orders have been booked around \$40 a ton. One of the largest handlers in Kansas City sought buyers for bran to be delivered in January, February, March and April at a figure slightly under \$40 a ton, but was unsuccessful. The few purchases being made by retail country dealers are almost entirely for prompt shipment, with the trade unwilling to take hold for later delivery. Jobbers of the East are the principal buyers, and some speculative buy-

MISCELLANEOUS

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It is a good idea to keep in touch with your territory manager as much as possible. His judgment, experience and constant travel and observation always will prove valuable to you. Inquiries and instructions to headquarters can be addressed:

Livestock Service of the Capper Farm Press, Topeka, Kan.

T. W. MORSE, DIRECTOR AND LIVESTOCK EDITOR

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Erratic Livestock Market

BY SAMUEL SOSLAND.

Demand for range cattle for grazing purposes next year is not active, however. Kansas in particular is interested in this demand because many range cattle in Texas a year ago were under contract for delivery the following spring to be sent to the Flint Hills pastures. Practically no contracts are reported today. Besides, range cattle prices are irregular as compared with a year ago in Texas. Four-year-old steers, which are extremely scarce, are quoted at \$100 to \$120 in Texas. Three-year-olds are quoted at \$80 to \$100. Two's are held between \$60 and \$75. Yearlings rule between \$40 and \$55. The 3-year-olds are as much as \$10 to \$20 a head lower than a year ago. The 4-year-olds are a shade lower. The younger cattle are the strongest, being a shade higher than a year ago in instances.

Fight Kansas Grass Rates

While trade in cattle as a whole has been depressed recently by the abundance of short-fed offerings in the Middle West, it is interesting to note that range interests have entered the winter with reduced holdings. Except for the readjustment in prices on fed cattle which is proceeding on markets, the outlook on ranges would be bullish. If the winter feeding season does not prove more favorable than the marketings from feedlots to date indicate, it will be difficult for range interests to advance prices despite the supply situation. A fight to reduce Kansas pasture leasing rates is indicated by the unwillingness of graziers to contract range cattle for spring delivery.

Trading on ranges between breeders is also inactive except in the instances where forced sales are necessary in the Northwest on account of drouth. The better grades of breeding cows of good ages are quoted on Southwest ranges at \$50 to \$65, with slight improvement in the demand and in the tone of prices in the past two months, due to growing realization that supplies have been reduced. The memory of drouth losses in Texas is still a restricting influence.

Cattle at \$19.50

While a top of \$19.50 was paid on cattle in Kansas City last week, the bulk of the good grades of fed steers brought less than \$16, with short-feds selling principally at \$11 to \$13. Plain steers went to packers at \$8.50 to \$10.50. Prices were 50 cents to \$1

lower. Chicago was credited with declines of \$1 to \$2. Butcher cattle declined 25 to 50 cents, with the best cows up to \$12, good grades largely at \$8.50 to \$10.50 and offerings of fair quality at \$6.50 to \$8. Common cows sold at \$5 to \$6. Bulls ruled between \$7 and \$8.50, veal calves up to \$17, and heavy calves went to packers at \$7.50 to \$9.50. Yearlings of choice quality sold to packers up to \$14.50. Stocker and feeder trade made a better showing being steady to 25 cents lower. Receipts showed little change.

With a small increase in receipts of hogs in Western markets, prices continued highly erratic last week. Declines were succeeded by advances, and the market closed with a small upturn, the best price paid being \$14.10. Reports showed larger exports of hog products. The advances as to domestic demand for provisions were favorable, and were undoubtedly a sustaining influence. Stock hogs ruled between \$11 and \$13. Secretary Mohler's report on the extremely light supplies of hogs in Kansas emphasized the shortage in the Southwest, but there are heavy holdings awaiting market in the largest corn states. At one time during the week the average cost of droves was as low as \$13.25. Increased receipts are still expected in January.

A good tone continues in the sheep and lamb trade. Kansas carried off honors in this trade last week when J. W. Shell of Vermillion sold 180

lambs, averaging 81 pounds, at \$16.80, the top of the week. The lambs were purchased in Omaha three months ago and showed a good profit on a ration of alfalfa and corn. The sale was the highest since last August. Bulk of good lambs sold at \$16 to \$16.25 and medium grades at \$15.25 to \$15.75, the market closing steady to 25 cents higher. Fat ewes sold up to \$10.25, Mr. Shell also making this sale on a small lot averaging 97 pounds. Wool markets continued to display strength.

Kansas Wins Steer Honors

Alex McGregor, Washington, Kan., took nine prizes on fat cattle at the recent International Livestock show. These were won on five car loads of fat steers. All were 2-year-olds and represented Shorthorns, Herefords and Angus. Following the show, the Shorthorns sold at \$26.50; the Herefords at \$25, and the Angus \$23.50. The average price received by Mr. McGregor for the string was \$24.80 against an average cost to him of \$11.50.

1920 Belgian Horse Show

The International Belgian Horse Show which will be held in connection with the Dairy Cattle Congress at Waterloo, Ia., September 18 to 25, 1920, will have 50 classes. Eight classes have been provided, limited to horses kept for public services.

Missouri Breeder to Kansas

Chas. S. Rice of Harrisonville, Mo., has obtained a fine place near Muscotah, Kan., where he will move before March 1. In his new location he will continue the breeding of Poland China hogs and Shorthorn cattle.

GIVES KANSAS FARMER AND MAIL AND BREEZE BEST CREDIT

Replying to yours—65 cows averaged \$325; 22 bulls averaged \$232; 87 animals averaged \$301. Inquiries credited to Kansas Farmer and Mail and Breeze were fully up to any other paper. The Breeders Gazette just about tied with it, but the Gazette men were mostly long distances and failed to show up. Am giving Kansas Farmer and Mail and Breeze best credit. G. A. Laude, Breeder of Shorthorn Cattle, Humboldt, Kansas.

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Shorthorn and Poland China sales a specialty.

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THE HOME OF UNEEDA HIGH ORION
Top Boar in The World's Record Litter of 1918; sire, High Orion; dam, Golden Uneeda. He was grand champion at Topeka 1919. Largest boar in Kansas of his age. Some real herd prospects sired by him. The highest priced boar going out of Kansas was sired by him. We guarantee to please.
ZINK STOCK FARMS, TURON, KANSAS

DUROC SPRING BOARS

the rugged, heavy boned kind by Great Wonder Model; 1 extra good type boar by Pathfinder Jr., \$50 to \$75.
HOMER DRAKE, R. 3, STERLING, KAN.

VALLEY SPRING DUROCS Choice fall and summer pigs, pairs and trios not related, immuned, registered, \$15 to \$20 each, a few bred sows and gilts, cheap.
E. J. BLISS, BLOOMINGTON, KANSAS.

BRED SOWS, Private Sale
Also a few choice spring boars. Everything by Highland Cherry King and King Joe. Special prices now.
RALPH P. WELLS, FORMOSO, KANSAS.

Special Prices for 30 Days
on bred sows and gilts for March and April farrow. Big type Durocs bred to a grandson of A. King Col.
R. C. WATSON, ALTOONA, KANSAS

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3 mo. old \$30 each. One grandson of A. Critic, 1 yr. old, \$55. **EDW. M. GREGORY, READING, KAN.**

DUROC JERSEYS
Ten weeks old; either sex; \$17.50 if taken before December 31. **NORMAN J. GROSS, RUSSELL, KAN.**

GARRETT'S DUROCS. March and April pigs in pairs or trios, not related, with up-to-date breeding. One great litter by Jr. Orion Cherry King. **E. T. & W. J. Garrett, Steele City, Neb.**

The "Day's" High Sensation

BRED SOW SALE OF 50 REAL BIG TYPE DUROCS

Nora, Neb., Jan. 7th

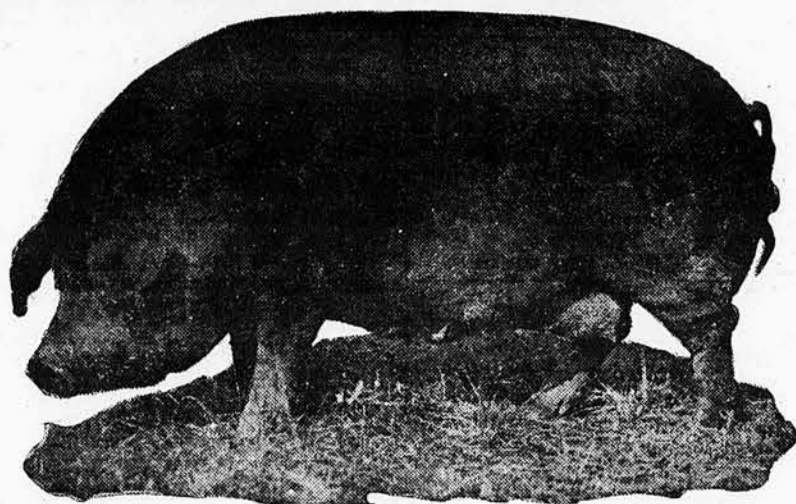
40 HEAD OF GREAT DUROC FEMALES SELL BRED TO HIGH SENSATION; 10 HEAD sired by High Sensation sell bred to Model Pathfinder 10 TRIED SOWS—15 SPRING AND FALL YEARLINGS—25 SPRING GILTS.

Among the real attractions of the sale: a tried sow by Botna Giant sells bred to High Sensation; a spring gilt by S. O. S.; 2 spring gilts and a yearling by Kern's Sensation Again; a fall gilt by Ideal Pathfinder. Other sires represented are Big Sensation; Pal's Giant; Willetta King 2nd; Illustrator 2nd; Uneeda Surprise; Critic B; Model Illustrator; Curtis' Orion; Joe Orion Jr.; and Joe Orion 5th.

These Sows are the Type That Will Make Good On Any Farm, in Any Herd. It Will Pay You to Attend This Sale and Take One or More Home, Whether You are a Breeder, Beginner or Progressive Farmer. Send for a catalog today, mentioning this paper.

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Carl Day, Nora, Nebr.

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You want him now. Don't wait to write. Don't send the money. Pay after you see him. Guaranteed immune and a breeder. Priced right.

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**Woody's Durocs**

Bred Gilts of March and April farrow sired by Pathfinders, Orions and Creators. Bred to Climax, Sensation for March farrow. Extra good ones at \$50 and \$60. A few fall yearlings and tried sows at \$70. A few good March boars at \$40. July pigs at \$20, all immune. Extra good.

HENRY WOODY, BARNARD, KANSAS
Lincoln County

JOHN'S ORION

boars of spring farrow, good ones and others by Pace Maker, Orion Cherry Col., Pathfinder, Ideal Pathfinder, and other noted sires. Priced to move them. Bred sow sale February 18.

GWIN BROS MORROWVILLE, KAN.

Prince of Pathfinders

Combines Size Blood and Type

FAIRVIEW ORION CHERRY KING yearling gilts bred to him as ATTRACTIVE in our BRED SOW SALE at Salina Kan., Feb. 5. Good spring boars at farmers' prices.

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Bred Durocs

We will sell 50 head of popularly bred Duroc sows and gilts on February 20. Send your name now to be put on our mailing list for catalog. Please mention this paper.

B. W. CONYERS R. 7 MARION, KAN.

Big Type Boars

Pathfinders, Colonels,
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And other popular Big Type strains from big mature sows. Immuned. Priced to sell.

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21 spring boars, 1 yearling boar, nearly all of them sired by Chief's Wonder, the boar that is breeding champions. These are good type boars, and am pricing them at farmer's prices in order to make room for my fall pigs. Write, wire or come for prices.

G. B. WOODDELL, WINFIELD, KANSAS.

Boars of Size and Quality

Large March and April boars, real herd boar prospects. Sired by Cherry King Orion, Reeds Gano, Potentates Orion; dams by Pathfinder, King the Col., and Crimson Wonder. Priced to sell.

JOHN A. REED & SONS, LYONS, KANSAS

Durocs Priced to Sell

Three fall yearling gilts bred; a choice yearling boar; three fall gilts bred spring yearling sow. All bred to good boars. A few good spring boars.

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Fulks' Large Type Durocs

Sired by Uneeda High Orion and Nebraska Col. Chief. Boars and gilts of March and April farrow. Immuned and guaranteed to please. Some real herd boar prospects. Bred sows after January 1.

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MUELLER'S DUROCS

A fancy lot of spring boars and gilts for sale. Sired by Uneeda King's Col and from splendid dams. Priced to sell.

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"Searle" Duroc Boars

make good. Sire big litters of husky pigs. Bred right. Priced right. Get choice by ordering now. Correspondence a pleasure.

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Choice March Boars \$40 to \$50

Choice March gilts, bred and safe in pig, \$65 each. 150 Sept. pigs, pairs and trios not akin, \$30 each. All stock guaranteed immune.

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Public Sales of Livestock

Holsteins.

Jan. 14—Jno. Gress, Leocompton, Kan.
Jan. 30—Kansas National Livestock Exposition Sale, Wichita, Kan. F. S. Kirk, Mgr.
Feb. 5—A. S. Neale, Manhattan, Kan.
Feb. 17—18—Iowa, Nebraska, Kansas combination sale. Dwight Williams, Mgr., Omaha, Neb.
Mch. 23-24—Annual sale Holstein-Friesian Association of Kansas at Topeka. W. H. Mott, Sales Mgr., Herington, Kan.

Hereford Cattle.

Jan. 28—Purple Ribbon Sale, Wichita, Kan. F. S. Kirk, Mgr.
Jan. 28—Kansas National Livestock Exposition Sale, Wichita, Kan. F. S. Kirk, Mgr.
Feb. 2—S. D. Seever, Smith Center, Kan.

Shorthorn Cattle.

Jan. 17—Jones Bros., Hiawatha, Kan.
Jan. 29—Purple Ribbon Sale, Wichita, Kan. F. S. Kirk, Mgr.
Jan. 29—Kansas National Livestock Exposition Sale, Wichita, Kan. F. S. Kirk, Mgr.
Mar. 16—Edw. F. Gehley, Orleans, Neb.
Apr. 28—Northwest Kansas Shorthorn Breeders' Ass'n.; Sale at Concordia. E. A. Corey, Sales Mgr., Talmo, Kan.

Polled Shorthorn Cattle.

Feb. 24—T. M. Willson, Lebanon, Kan.

Angus.

Jan. 30—Kansas National Livestock Exposition Sale, Wichita, Kan. F. S. Kirk, Mgr.

Percheron.

Jan. 31—Kansas National Livestock Exposition Sale, Wichita, Kan. F. S. Kirk, Mgr.

Jacks.

Jan. 30—Kansas National Livestock Exposition Sale, Wichita, Kan. F. S. Kirk, Mgr.
Feb. 24—D. E. Gill, Attica, Kan.

Poland China Hogs.

Jan. 14—H. T. Hayman, Formoso, Kan.
Jan. 16—J. J. Hartman, Elmo, Kan., at Abilene, Kan.
Jan. 20—Fred B. Caldwell, Topeka, Kan.
Jan. 22—George Morton, Oxford, Kansas.
Jan. 23—H. R. Wenrich, Oxford, Kansas.
Jan. 31—Jones Bros., Hiawatha, Kan.
Jan. 31—Kansas National Livestock Exposition Sale, Wichita, Kan. F. S. Kirk, Mgr.
Feb. 3—E. L. Dolan, Platte City, Mo.
Feb. 3—O. E. Wade, Rising City, Neb. Sale at David City.

Feb. 4—Clarence Dean, Weston, Mo., at Dearborn, Mo.

Feb. 4—Wm. McCurdy, Tobias, Neb.
Feb. 5—Adams & Mason, Gypsum, Kan.
Feb. 6—Peter J. Tisserat, York, Neb.
Feb. 7—Geo. Seltsman, Kingsley, Iowa.
Feb. 7—H. E. Myers, Gardner, Kan.
Feb. 10—A. J. Erhart & Sons, Oregon, Mo.
Feb. 11—Ross & Vincent, Sterling, Kan.
Feb. 14—C. S. Nevius & Sons, Chiles, Kan.
Feb. 14—R. B. Donham, Talmo, at Concordia, Kan.

Feb. 17—Otto Gloe, Martel, Neb.
Feb. 21—W. A. Prewett, Asherville, Kan.
Feb. 24—T. M. Willson, Lebanon, Kan.
Feb. 25—Harry Wales, Peculiar, Mo.
Feb. 27—C. B. Schrader, Clifton, Kan.

Mch. 3—Kincaid Poland China Breeders' Ass'n. Sale at Kincaid, Kan.

Apr. 28—Fred G. Laptad, Lawrence, Kan.

Spotted Poland China Hogs.

Jan. 12—Everman Stock Farm, Gallatin, Mo.

Duroc Jersey Hogs.

Jan. 1—Proett Brothers, Alexandria, Neb.
Jan. 5—C. W. Fosberg, Holdrege, Neb.
Jan. 6—Fred Lyden, Hildreth, Neb.
Jan. 7—Carl Day, Nora, Neb.
Jan. 8—Wm. Tabor, Inavale, Neb.
Jan. 9—J. C. Theobald, Ohio, Neb.
Jan. 10—D. M. Bindernagel, Beatrice, Neb.
Jan. 19—B. F. Preston, Lincoln, Neb.
Jan. 22—Sisco & Doerslag, Topeka, Kan.
Jan. 24—H. J. Nachtigall & Son, Deshler, Neb.

Jan. 27—H. C. Holt & Sons, Kearney, Neb.
Jan. 28—Smith & Swartsley, Kearney, Neb.
Jan. 28—McClelland Bros., Bondurant, Ia.
Jan. 28—H. E. Labert, Oertson, Neb.
Jan. 28—Milton Poland, Sabatha, Kan.
Jan. 28—H. D. Gelken, Cozad, Neb. Night sale.

Jan. 29—C. T. White, Lexington, Neb. Night sale.

Jan. 29—A. C. French, Lexington, Neb.
Jan. 30—R. E. Tyler, Lexington, Neb.
Jan. 30—L. B. Benson, Lexington, Neb.

Jan. 30—Kansas National Livestock Exposition Sale, Wichita, Kan. F. S. Kirk, Mgr.

Feb. 3—Col. Jesse Howell, Herkimer, Kan.

Feb. 4—A. J. Turinsky, Barnes, Kan.

Feb. 5—Rolla C. Brownlee, Holden, Mo.

Feb. 5—John W. Jones, Minneapolis, Kan., at Salina, Kan.

Feb. 6—Kansas Breeders' Association, Manhattan, Kan.

Feb. 7—O. E. Harmon, Fairmont, Neb.

Feb. 9—J. E. Reed, Hydro, Okla.

Feb. 10—A. Russell, Geneva, Neb.

Feb. 10—R. C. Smith, Sedgewick, Kan.

Feb. 11—A. L. Breeding, Home, Kan.

Feb. 11—John Pettford, Saffordville, Kan.

Feb. 11—W. A. Dugan, Coin, Ia.

Feb. 12—W. T. McBride, Parker, Kan.

Feb. 12—W. W. Otey, Winfield, Kan.

Feb. 13—Thelton Bros., Osmond, Neb.

Feb. 13—Zink Stock Farm, Turon, Kan.

Feb. 14—G. M. Shepherd, Lyons, Kansas.

Feb. 16—John C. Simon, Humboldt, Neb.

Feb. 17—Combination sale, Beloit, Kan. W. Jones, Mgr., Beloit, Kan.

Feb. 18—Fern J. Moser, Sabatha, Kan.

Feb. 19—Gwin Bros., Morrowville, Kan., at Washington, Kan.

Feb. 20—Isaac F. Tyson, Harrisonville, Mo.

Feb. 20—B. W. Conyers, Marion, Kan.

Feb. 21—W. R. Anderson, McPherson, Kan.

Feb. 21—W. L. Fogo, Burr Oak, Kan.

Feb. 23—John Loomis, Emporia, Kan.

Feb. 24—Gordon & Hamilton, Horton, Kan.

Feb. 25—Kempin Bros. and W. Hilbert, Corning, Kan.

Feb. 25—J. R. Grover, Sentinel, Okla.

Feb. 26—John W. Jones, Minneapolis, Kan., at Concordia, Kan.

Feb. 26—Adolph Anderson, Davenport, Neb.

Feb. 28—C. W. Johnston, Red Cloud, Neb.

Apr. 28—Fred G. Laptad, Lawrence, Kan.

Chester White Hogs.

Jan. 19—Henry Murr, Tonganoxie, Kan.

Jan. 20—Arthur Mosse, Leavenworth, Kan.

Sheep.

Jan. 2—O. A. Homan & Son, Peabody, Kan.

Jan. 27—Kansas National Livestock Exposition Sale, Wichita, Kan. F. S. Kirk, Mgr.

Percherons.

Feb. 17—M. H. Roller, Circleville, Kan.

Feb. 17—M. H. Roller, Circleville, Kan.

Jacks.

Feb. 17—M. H. Roller, Circleville, Kan.

Sale Reports

Blank Bros. & Kleen's Shorthorn Sale.

The Blank Bros. & Kleen Shorthorn sale at Franklin, Neb., had to combat bad

Demonstrator

2nd Prize Senior Boar In 1919's Greatest State Fairs
is the dominating factor in the Duroc Sale to be held at

Beatrice, Nebr., Saturday, Jan. 10

**40 Head, Including 38 Great Sows and Gilts**

sired by or bred to Demonstrator. Some of the attractions of the sale are 2 Kern Sensation sows; a Jack's Orion sow (a whizzer from every angle); an Illustrators 3rd sow (the dam of the C. R. White & Son \$2500 Pathfinder boar); and one by Joe Orion 5th. These are strictly high class ones of the 800-pound type and all bred to Demonstrator. Twelve spring gilts sired by Demonstrator and bred to Smooth Pathfinder.

A BIG BONE GIANT SOW PLUS DEMONSTRATOR
equals the great litter of 3 gilts and 2 boars which are included in the sale as a special attraction.

This sale will be a Demonstrator demonstration of real Duroc utility. Whether you are a breeder, progressive farmer or beginner you are invited to this sale. I will be glad to send you a catalog now and pleased to meet you at the sale. The sale will be held at the Beatrice Feed Yard; easy to get to, easy to find. Please mention this paper when asking for catalog.

Dave Bindernagel, Beatrice, Nebraska

J. C. Lamb represents The Capper Farm Press,
Auctioneer—Col. A. M. Putman.

The Breed's Best Blood

Thru Forty Richly Bred Durocs Bred to
Great Orion Sensation 2nd and Grand Model Chief
Ohio, Nebr., Friday, Jan. 9th

The Production of Profitable Pork is the Idea of every farmer or breeder. To realize this, individuality and character are needed but there is another essential. "The blood behind the individual" is what insures the stretch, hardiness, ability to make rapid gains and the prolificacy so necessary to real profit.

The 40 great females in this sale combine the choicest individuality with the blood behind them that will insure their ability to carry on. Three yearling sows are by High Orion; two yearlings are Defender bred sows; five fall yearlings of Crimson Wonder and Valley Chief breeding; 30 spring gilts carrying the blood of Pathfinder High Orion, Grand Model, Model Chief, Crimson Wonder and Valley Chief.

Choice Durocs themselves, the fact they are bred to
Great Orion Sensation 2nd

doubly insures the quality of their coming litters. Great Orion Sensation 2nd is a son of Great Orion Sensation and out of Big Sensation Lady. What more could you ask? He did not just "happen" to be a great boar; he has the "blood behind." The blood that enabled his litter mate to sell for \$8,300 in the Kern sale; the blood that enabled the litter, of which he is one, to make the record of highest priced litter ever sold in Nebraska. Some of the sows will be mated to Grand Model Chief. So mated because that is the cross of blood and type we would make were we going to retain these sows and their litters.

You Should Have One of These Sows Bred to One of These Great Boars. Popular blood? Yes, and justly so, for it means the ability to produce pork at the greatest profit. Breeders, Feeders, Farmers—this is your chance. You will find the type and the blood you know will make good for you. And You Set the Price. For a catalog write, mentioning this paper, to

J. C. Theobald, Ohio, Nebraska

(The sale will be held in heated garage in town.)

Col. H. S. Allen, Auct. J. C. Lamb represents Capper Farm Press.

You Want This Catalog

giving descriptions and measurements of the
45 Immuned Bred Sows and Gilts
 combining the most popular bloodlines with size and quality, to be sold at

Formoso, Kansas,
Wednesday, January 14th, 1920

(No postponement on account of weather.)

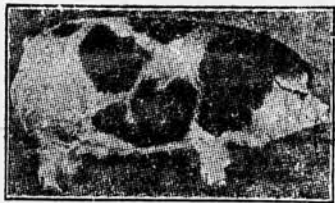
These great females are sired by or bred to **BLUE VALLEY-TIMM WONDER**, our prize winning boar at the 1919 State Fair.

Mouw's Gerstdale Jones **Col. Prospect**
 an outstanding son of Gerstdale Jones. a brother to Col. Jack.

These sows and gilts are sired by the leading boars of the corn belt. My herd is the home of the senior and reserve champion sow of the 1919 State Fair. You can get the same bloodlines here that you can get at the big eastern sales, but at less cost to you. This advertisement appears but once. Write for catalog, mentioning this paper.

H. T. Hayman, Formoso, Kansas

OLD ORIGINAL BIG BONED SPOTTED POLANDS



The kind our forefathers raised—grow as big as a cow. Why not get the stock? Spring boars ready for service at private sale. Will ship at once. Write for prices. Bred Sow and Fall Pig Sale—January 12. 350 head. Write for a catalog.

Everman Stock and Poultry Farm
 GALLATIN, MISSOURI.

POLAND CHINA HOGS.

Poland China Boars

Choice lot of big smooth spring and fall boars, also sows and gilts. We won first at the State Fair last year and first again this year. Won 7 ribbons at the last state fair. You will find size and quality combined in our herd.

PLAINVIEW HOG & SEED FARM,
 Frank J. Rist, Prop., Humboldt, Neb.

DEMING RANCH POLANDS

For the next thirty days we will make special prices on extra good spring boars. The first check for \$75 will buy the best of the lot, or \$50 will buy a good April pig. **Deming Ranch, Oswego, Kan.**
 H. O. Sheldon, Herd Manager

Big Type Poland China Boars

Three boar pigs of June farrow, wt. 150 lbs., \$40 each. Their sire, Mc Souvere, a full brother to The Pilot, champion of 1919 National Swine Show. Their dam by Ott's King, who won sixth place at the same show. If you want breeding that is in the limelight at a low price buy one of these immune boars.

Ward L. Martin, Route 2, Braddyville, Iowa

Poland Chinas Priced to Sell

Two fall yearling sows, bred; March and April gilts bred to a real herd boar. Two choice March boars. Up to date breeding and big type; farmers' prices.

T. CROWL, BARNARD, KANSAS

Big Type Poland

Have some very choice young boars for sale. Can also spare a few more gilts. Most of the pigs are by Captain Bob.

Frank L. Downie, R. 4, Hutchinson, Kansas

Prolific Big Type Poland

Big type spring gilts bred to Single's Big Jones for March and April farrow. A few choice August and Sept. boars and gilts. Prices very reasonable.

A. J. SWINGLE, LEONARDVILLE, KAN.

75 Big Type Poland China Fall Pigs

Can furnish pairs or trios not akin. The best of breeding. A few tried sows and gilts. Some good boars. Immune and guaranteed in every way.

ED SHEEHY, HUME, MISSOURI.

BIG TYPE POLAND CHINAS

Bred Gilts at \$35 each, weighing about 125 pounds. Summer sow pigs weighing about 75 pounds at \$20 each. Pedigrees furnished.

HENRY S. VOTH, R. 2, GOESSEL, KAN.

Boars For Sale at Private Treaty

Choice grandsons of Caldwell's Big Bob (grand champion of world) sired by Black Bob Wonder and by King Bob. Piggied in March, April and May. Immune.

W. C. HALL, COFFEYVILLE, KANSAS

FOR SALE

Choice lot of registered Poland China boars and gilts. Pleasant View Stock Farm, Halloran & Gambrell, Ottawa, Kansas.

POLAND CHINA HOGS.

Poland China Close Prices

March and April boars and gilts by Sheridan's Bob Wonder. Big fine ones. Extra good young tried sows bred or open. These are the bargains of the season. **J. B. SHERIDAN, CARNEIRO, KANSAS.**

CAPPER PIG CLUB BOYS!

10 dandy tried sows for sale, bred for the first week of April. 10 gilts, also a few good boars for sale. Can furnish trios not related. Good ones.

E. CASS, COLLYER, KANSAS.

PEDIGREED POLAND CHINA MALES

Best breeding, good individuals, \$25 each.

JOHN D. ZILLER, HIAWATHIA, KANSAS.

SPOTTED POLAND CHINA HOGS.

Big Boned Spotted Poland Chinas

Bred and raised by a breeder of 35 years experience. A strong line of gilts, either bred or open, especially selected from my large herd. They are beautiful, registered and ready to ship to you at attractive prices. Address **WM. HUNT, OSAWATOMIE, KANSAS**

SPOTTED POLAND CHINAS

(Pioneer Herd). The best spring boars I ever raised, sired by Budweiser Boy, priced to sell right now. Also a few tried sows, real brood sow must sell soon.

Thos. Weddle, R. F. D. 2, Wichita, Kansas

OLD ORIGINAL SPOTTED POLANDS

Sows bred and proved. Ready to ship. Young stock of all ages priced to sell. Write your wants to **CEDAR ROW STOCK FARM, A. S. Alexander, Prop., Burlington, Kansas.**

SPOTTED POLAND CHINA GILTS

For immediate sale bred or open. 15 nicely spotted and well grown. Out of big sows and sired by Spotted Wonder. **R. H. McCUNE, Clay County, Longford, Kan.**

SPOTTED POLAND CHINA GILTS.

Well spotted, well bred. Bred for spring farrow. Satisfaction. **Earl J. Matthews, Clearwater, Kan.**

BOARS well spotted, good breeding, \$25, ped-

grees furnished. **T. L. Curtis, Dunlap, Kan.**

HORSES AND JACK STOCK.

Mammoth Jacks, Percheron Stallions and Mares

A lot of big boned Jacks, 3 to 5 years old, weight up to 1200 pounds, 15 to 16 hands. Also a fine lot of Percheron stallions, blacks and greys, weight up to 2400 pounds. A lot of large mares, 3 and 4 year olds, showing colts. Will sell one or a carload. All stock guaranteed.

Al. E. Smith, R. 1, Lawrence, Kansas.

40 miles west of Kansas City.

22 Good Young Jacks

from yearlings to 4-year-olds. Will sell the bunch or any one of them at astonishingly low prices. They are the good kind—Missouri Jacks.

Oakland Stock Farm, Chillicothe, Missouri

Percherons—Belgians—Shires

My stallions have been again awarded premier honors at the State Fairs. Show horses and real herd-headers for sale. **Fred Chandler, Route 7, Chariton, Ia. Above Kansas City.**

REGISTERED PERCHERON MARE for sale,

bred, priced right. **Omer Pureault, Clyde, Kan.**

weather conditions. The roads were so drifted with snow that travel was difficult. So many trains had been discontinued on account of the fuel shortage that train service was badly crippled. But a crowd got to the sale in some way and those that made it thru were the live ones that make any sale they attend a good sale. The evening that those in attendance at the sale were forced to spend at Franklin, Neb., was made merry with several good wrestling matches and talks by Ex-Governor Shalenger, Col. H. S. Duncan, Wm. Pritchard of Iowa, Tom Andrews of Cambridge and several others. The heavy buyers at the sale were about evenly divided between Kansas, Colorado and Nebraska. The sixty head included in the sale made an average of \$248.50. Some of the representative sales follow:

Rosebud, 6 years, W. G. Barg, Long Island, Kan. \$675
 Lavender 7th, 3 years, Geo. Schnobel, Clayton, Kan. 500
 Village Rose 4th, 6 years, Geo. Schnobel 230
 Diamond 34th, 1 year, C. H. Fattig & Son, Cambridge, Neb. 395
 Beauty, 3 years, Mary Otter, Clayton, Kan. 700
 Lady March, 3 years, Elmer Gooder, Kensington, Kan. 550
 Missie 112th, Roger & Boicourt, Minden, Neb. 395
 Bride's Pippin, calf, Thos. Andrews, Cambridge, Neb. 275
 Bridal Day, 1 year, R. L. Haskin, Republican City, Neb. 310
 Bonnie Bell, calf, and Upperhill Goldie, calf, S. E. Larson, Watson, Mo. 390
 Village Beauty, 1 year, Don L. Versaw, Bloomington, Neb. 130
 Sultan's Diamond, 1 year, M. C. McIlrath, Ft. Morgan, Colo. 250
 Dora Lavender, calf, C. H. Harper, Benkelman, Neb. 180

Achenbach Polled Shorthorns Average \$640.

31 females averaged \$677
 9 bulls averaged 611
 40 cattle averaged 640

Achenbach Bros., Washington, Kan., sold 40 Polled Shorthorns at auction last Wednesday for \$25,590 with the above averages.

It was a great sale and five or six states were represented with men interested in Polled Shorthorns; many of them were buyers. J. H. Martz, Greenville, O., secretary of the Polled Shorthorn association, was present. The very bad weather probably kept many away who were going to attend. The Achenbachs had everything in readiness. The catalog stood approved without a single error. It was a great offering and fully appreciated. The big bargain of the sale very likely was Sunny Sultan, the great four-year-old son of Intense Sultan. He went to W. B. Gould, Jamestown, Kan., for \$875. The sale as a whole was good and the prices received were very satisfactory to Achenbach Bros. Below is a list of the buyers and the prices they paid:

FEMALES

Sultana, November 1912, A. B. Coulson, Aberdeen, S. Dak. \$700
 Fatima, September 1915, Ed Winger, Versailles, Mo. 1,515
 Fatima 2nd, March 1918, Walter Johnson, Dorchester, Neb. 850
 Cherry, April 1912, Geo. Felro, Attica, Kan. 500
 Sultana Cherry, November 1918, H. M. Richardson, Boyle, Kan. 325
 Florence, January 1908, F. E. Gwin, Washington 375
 Florentine, July 1917, Ed Winger, 1,250
 Flora 10th, March 1913, R. M. Taylor, Smith Center, Kan. 600
 Flora 13th, October 1918, H. J. Minor, Wayne, Neb. 475
 Sultana Martha, January 1916, Walter Johnson, Dorchester, Neb. 850
 Sultana Martha 2nd, June 1918, P. S. Wilson, Washington 425
 Junior Kora, January 1917, H. M. Richardson, Boyle, Kan. 1,000
 Acacia Kora 7th, August 1913, L. W. Thieman 500
 Kora 2nd, September 1917, D. B. Thieman, Higginsville, Mo. 1,000
 Lady In White, September 1917, Ed Stegell, Straight Creek, Kan. 1,000
 Baroness Sultana 2nd, September 1917, L. W. Thieman 1,575
 Cumberland's Lassie, June 1918, D. B. Thieman 525
 Sultana Francis, September 1915, W. B. Gould, Jamestown, Kan. 325
 Sultana Francis 3rd, September 1917, Clyde Miller, Mahaska, Kan. 400
 Sultana Felice, September 1915, Carl Taylor, Smith Center, Kan. 325
 Sultana Felice 2nd, October 1918, Walter Johnson 350
 Sultana Felice 3rd, November 1918, R. A. Coop & Son, Falls City, Neb. 800
 Sunshine, January 1918, F. E. Gwin 550
 Sunny Alba, May 1918, H. D. Brennan, Belvidere, Tenn. 425
 Sultana Minute 2nd, January 1915, A. C. Flemming, Orleans, Neb. 800
 Sultana Minute 3rd, September 1917, A. J. Howard 500
 Minute 6th, September 1917, R. A. Coop & Son 750
 Minute Cumberland, June 1918, J. H. Clark, Winchester, Tenn. 700
 Sultana Isabel 3rd, June 1918, J. H. Clark 400
 Thankful Cumberland, May 1918, Ed Winger 400
 Miss Myra, December 1915, Albert Hultine, Saronville, Neb. 800

BULLS

Sunny Sultan, October 1915, W. B. Gould, Jamestown, Kan. 875
 Sovereign Sultan, January 1917, H. A. Howard, Billings, Mo. 475
 Baron Cumberland, October 1918, H. A. Johnson, Red Cloud, Neb. 725
 Cumberland Sultan, May 1918, T. M. Willson, Lebanon, Kan. 300
 Robin, September 1918, Easter Bros., Abilene, Kan. 450
 Sunny Cup, November 1913, E. J. Richards, Belleville, Kan. 275
 Sultan Selim, January 1919, Joe Bruner, Marysville, Kan. 525
 Majestic Sultan, July 1918, Carl Smith, Gilliam, Mo. 600
 Sultan's Envoy, October 1918, Victor Dunn, Liberal, Kan. 375

Field Notes

BY JOHN W. JOHNSON

If you want to buy registered Shorthorns you have the opportunity in the dispersion at private sale which Warren Watts, Clay Center, Kan., is making. The entire herd goes including two splendid herd bulls. There are about 75 head in all. Write today for printed list and mention the Kansas Farmer and Mail and Breeze.—Advertisement.

Will Fogo, Burr Oak, Kan., Jewell county, will sell a draft of Duroc Jersey bred sows and gilts at that place Saturday, February

CHESTER WHITE OR O. I. C. HOGS.

Raise Chester Whites

Like This
 the original big producers

I HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from my great herd in every community where I am not already represented by these fine early developers—ready for market at six months old. Write for my plan—More Money from Hogs.
G. S. BENJAMIN, R. F. D. 1 Portland, Michigan

Arthur Mosse, Jan. 20

Kansas herd Chester Whites, 40 sows and gilts. Swine show and state fair winners of 122 ribbons in 1919. Big free catalog. Address

Arthur Mosse, Leavenworth, Kan.

MONDAY, JAN. 19, 1920, WILL BE A PRINCE TIP TOP DAY IN TONGANOXIE will sell 40 head of tuppy sows and gilts including first prize Champions and Grand Champions bred to Grand Champion boars, a real tip top offering. Catalog free. A few boars for sale.
HENRY MURR, TONGANOXIE, KANSAS

40 O. I. C. PIGS, BOARS AND SOWS

HARRY W. HAYNES, GRANTVILLE, KAN.

CHESTER WHITES

Choice fall boar pigs and a few bred gilts. **E. E. SMILEY, PERTH, KANSAS.**

CHESTER WHITE BOARS AND GILTS

For sale. Sired by Bob Tip Top. Best of breeding. **W. H. Lynch, Neosho Rapids, Kan.**

CHESTER WHITE BOARS and gilts for Sale

Popular breeding. **H. C. Nielson, Osborne, Ka.**

O. I. C. BRED AND OPEN GILTS, priced to sell.

E. S. Robertson, Republic, Missouri.

BERKSHIRE HOGS.

BERKSHIRES—CHOICE HERD BOAR

Good boars, bred sows and good fall pigs. Priced to sell. **E. D. KING, BURLINGTON, KANSAS.**

HAMPSHIRE HOGS.

MESSINGER BOY HAMPSHIRE

200 registered and immune hogs. Write **WALTER SHAW, R. 6, WICHITA, KANSAS**

ABERDEEN ANGUS CATTLE.

Angus Cattle
 15 bulls, 15 to 22 months old. Heifers of all ages. Some bred, others open. Cows with calves at side others bred. All at reasonable prices. Come or write **J. D. MARTIN & SONS, R. F. D. 2, LAWRENCE, KANSAS.**

Aberdeen Angus

For sale—40 two-year-old bulls and 30 yearlings, 25 two and three-year-old bred heifers. **SUTTON FARM, R. 6, LAWRENCE, KAN.**

Angus Cattle—Duroc Hogs
 For immediate sale: Car load of pure bred heifers. Young bulls of serviceable ages.
Johnson Workman, Russell, Kan.

Aberdeen Angus Cattle

Cows, heifers and calves; good strains, priced for quick sale. Write **H. L. Kniskely & Son, Talmage, Kansas.**

POLLED SHORTHORNS.

10 Polled SHORTHORN Bulls

Big husky reds and roans 12 to 20 mos. old. Priced to sell. Can spare a few females. **C. M. HOWARD, HAMMOND, KANSAS.**

SHEEP AND GOATS.

Doyle Park Stock Farms

First Annual Shropshire Bred Ewe Sale

To be held in the well heated sale pavilion in **Peabody, Kansas on Jan. 2**

100 Head of Home Bred and Imported Ewes

These ewes are bred to the following rams, Senator Bibby 17th (a son of Bibby Champion) and our Imported Buttar Ram. We also sell sixteen rams, three sons of Senator Bibby.

If you want high class Shropshires, you will find them in this sale. We are selling two well fitted show flocks, nothing reserved at this sale. Catalogs will be ready December 20. Mention this paper and address

Homan and Sons, Peabody, Kansas

Send mail bids in our care to Andy Patterson of the Agricultural College, Manhattan, Kan. Auctioneers, Newcom and Snyder.

SHEEP FOR SALE—Shropshires, Cotswolds, Lincoln. Some fine rams, bred ewes, ewe lambs. **L. R. Kuncy, Adrian, Michigan.**

21. The sale will be advertised in the Kansas Farmer and Mail and Breeze. There will be 50 head in the sale. We will have complete particulars about the offering soon.—Advertisement.

Kansas Breeders Buy New Herd Bulls.

Two Kansas breeders of Shorthorn cattle recently have bought new herd bulls of Tomson Brothers of Dover and Carbondale, Kan. One of these, Harry T. Forbes, secured Orange Barron, a Cruickshank Orange Blossom of the breeding of W. A. Betteridge. The other purchaser is Fremont Leidy who bought Village Viscount by Gregg's Villager and descended from the line of Victoria cows, famous for their production in the Tomson herds.—Advertisement.

An Annual Red Poll Event.

Hallgren & Gambrell, Ottawa, Kan., and C. O. Wilson, Rantoul, Kan., are Red Polled cattle breeders in Franklin county who are holding a combination sale at Ottawa in the fine sale pavilion at that place, Wednesday, January 14. The sale will be the first of the combination Red Poll sales that the breeders of this popular breed contemplate holding in Franklin county as annual events. In this sale, on January 14, 50 head will be sold consisting of choice registered Red Polled cows and heifers and young bulls from the best herds in the county. The sale will be advertised in the Kansas Farmer and Mail and Breeze. Write to John Hallgren, Ottawa, Kan., for the catalog and mention the Kansas Farmer and Mail and Breeze.—Advertisement.

The Jayhawk.

Fred B. Caldwell's new herd boar is named The Jayhawk. Recently he offered a prize for the most suitable name for him and the name Jayhawk was offered by Lucille Hayman, Formosa, Kan. She is the six-year-old daughter of H. T. Hayman, the well known Poland China breeder at that place. Jayhawk is by The Rainbow by The Yankee and is out of Belle Prospect by Smooth Prospect so you see he is an aristocrat. January 20 is the date of Fred B. Caldwell's big bred sow sale at his farm joining Topeka. This sale will be advertised in the Kansas Farmer and Mail and Breeze. You can ask him to look you for the catalog now. Mention Kansas Farmer and Mail and Breeze.—Advertisement.

J. A. Howell to Disperse Durocs.

We have just received notice that Col. J. A. Howell of Herkimer, Kan., will disperse his entire herd of Duroc Jerseys on February 3, 1920. This herd was established nearly twenty years ago by the Howell Bros. in Crawford county, Kan. In founding this herd they made selections from one of the leading Duroc herds of America, a herd that was rich in the blood of the St. Louis world's fair winners. To meet the requirements of their herd they from time to time added blood of the most popular strains. This with the splendid individuals that they bred themselves gave them one of the strongest herds in the country, which fact they have fully demonstrated by their winnings at the state fairs in recent years. The closing out of this splendid herd affords the admirers of the breed a rare opportunity to purchase individuals that have been held priceless. This event should be kept in mind. Further mention will be made in the future. In the meantime write your request for catalog.—Advertisement.

Producing, High Grade Holsteins.

The attention of Dairy breeders, or anyone in the market for very high class, high grade Holstein cows and heifers, is directed to the advertisement of John Gress, Leecompton, Kan. This is a dissolution sale, in which 60 head will be sold from 95 head. There are 30 cows that freshened late this fall and during the early winter. These cows are sired by registered bulls and are exceptionally well marked. They are very desirable cows that are giving from 45 to 65 pounds of milk per day. Everything in the sale is tuberculin tested and will be sold with a 60 day retest privilege. If you are interested be sure to write John Gress, Leecompton, Kan., for further information about the sale. If you really want to buy Holstein cows and heifers of the real producing type, you better go to Lawrence to the Eldridge hotel where you will find free transportation to and from the farm. You can leave Lawrence in and return in time for the evening train. Look up the advertisement in this issue of the Kansas Farmer and Mail and Breeze.—Advertisement.

Hayman's Poland Bred Sow Sale.

H. T. Hayman, Formosa, Kan. (Jewell Co.), is a Poland China breeder and exhibitor who holds his annual bred sow sale, in January each year, at his farm adjoining Formosa. It always gives me great pleasure to recommend Harry Hayman's Poland Chinas, especially his annual bred sow offerings. In this particular sale, which will be held at his farm, January 16, he will sell 45 immuned bred sows and gilts, that are of the most popular blood lines and combine size and quality to a remarkable degree. Many of them are by Blue Valley Timm Wonder and others bred to him. Blue Valley Timm Wonder is Mr. Hayman's prize winning boar of the 1919 state fair. Other herd boars of note in use in his herd are Mouw's Gerstale Jones, an outstanding son of Gerstale Jones; Colonel Prospect, a brother of the late Colonel Jack. Kansas breeders looking for something in Poland lines should get Mr. Hayman's catalog. At this sale you can buy the same class of individuals, and just as desirable blood lines, as you can in the eastern sales at a much smaller price than you would have to pay in the east. If you are at all interested in Poland, I wish you would turn to Mr. Hayman's modest advertisement in this issue of the Kansas Farmer and Mail and Breeze. Write him at once for his catalog, which is now ready to mail. Attend to this at once as this advertisement will not appear again.—Advertisement.

BY J. T. HUNTER

Zink Stock Farms, Turon, Kan., is the home of the top boar of the world's record Duroc litter of 1918, Unecda High Orion. He is the largest boar in Kansas of his age; the grand champion at Topeka 1919, the sire of the highest priced boar that has been sold out of Kansas and is the sire of some real herd boar prospects that the Zink Stock Farm now has for sale.—Advertisement.

Wilkie & Swinehart's Holsteins.

Eugene Swinehart, a Mulvane Holstein breeder and dairyman, moved last July to a farm adjoining another Holstein man, W. A. Wilkie, Derby, Kan. These men joined forces and it is now Wilkie & Swinehart, Derby, Kan. These men are members of

DISPERSION

45 Shorthorns, 25 Polands

My farm is sold; my purebred stock must find a new home; they will sell

At Auction, Franklin, Nebr., Jan. 16th

THE SHORTHORNS—Six cows sell with calves at foot; 10 good 2-year-old heifers; 5 yearling heifers; 16 cows; and 9 bulls. The bulls include the herd bull **Uppermill Victor**, twin, got by Bridegroom 2d (fifteen of the cows and heifers sell bred to his service); the 2-year-old **Royal Goods** by Grand Royal (bred by S. A. Nelson); and **Diamond Rex** by Scottish Rex, tracing to Imp. Beauty. Among the females are **Maple Rose Lady**, a 5-year-old by Red Duke and tracing to Imp. Ruby; and the 4-year-old **Evergreen Rose 2nd** by Lord Golden. Among the bulls represented in the sale are **Mysie's Archer**, **King of Diamonds**, **Florence Viceroy**, **Mastertpiece**, **White Peter**, **Duncan**, **Grand Sultan**, **Strowan Prince**, **Victor Wildwood**, **Sultan's Glos-ter** and **Orange Cup**.

THE POLANDS—Are mostly sows and gilts representing D. L.'s Big Fessy, Fessy's Timm, D. L.'s Big Jones and Big Problem. They are bred to Highness, by Hercules Hadley, the proven herd boar which goes in the sale.

The Sale is at Franklin, Neb., but for a catalog write, mentioning this paper, to

DON L. VERSAW, BLOOMINGTON, NEBRASKA

Col. A. W. Cies, Auctioneer. J. C. Lamb represents the Capper Farm Press.

SHORTHORN CATTLE.

SUNFLOWER SHORTHORNS

Herd headed by Golden Laddie. Some extra good young bulls and a few females for sale. No Sunday Business.

J. A. PRINGLE, ESKRIDGE, KAN.
R. R. Sta., Harveyville, 25 mi. S. W. Topeka.

HUNT BROS.' SHORTHORNS

We have some good young bulls for sale, from 6 to 20 months old. Also some cows, heifers and calves. Write your wants.

HUNT BROS. BLUE RAPIDS, KANSAS
3 BULL CALVES ALMOST PURE SCOTCH
1 roan serviceable age; 1 red 1 white, weaning age. By Cumberland Diamond out of Star Goods and Victor Orange cows. EARL J. MATTHEWS, Clearwater, Kan.

JERSEY CATTLE.



JERSEY COWS are adaptable to any climate. Hale in the North—hardy in the South.

Always efficient yielders of the richest quality milk—always dependable and gentle—always a pride to their owner.

JERSEYS

Jerseys consume less feed than any other breed. Every dollar you put into Jersey feed doubles its value in the milk pail. Her milk averages 5.37% butter fat. Butter and cheese made from Jersey Milk is the best obtainable. Let us mail you free some interesting data and information about the Jersey Breed.
The American Jersey Cattle Club
322 1 West 23rd Street, New York

DOWN SOUTH

TESSORO PLACE JERSEYS
R. of M. Interest-Finance-Owl blood, noted for PRODUCTION, TYPE and CONSTITUTION. Our tested cows average 500 lbs. butter, records made under 5 years old. We offer bulls 2 mos. to yearlings. Cows, bred heifers and heifer calves. Herd in Accredited List, which means 100 per cent clean of T. B. Correspondence and inspection invited.
R. A. GILLILAND, Mayetta, Kan.

Hillcroft Farms Jerseys headed by Queens' Fairy Boy, pronounced the best bred Jersey bull in Missouri, a Register of Meritson of Raleigh's Fairy Boy, the greatest bull ever imported, 54 tested daughters, 88 tested granddaughters and 34 producing sons. Choice bull calves for sale. Reference Bradstreet.
M. L. GOLLADAY, PROP., HOLDEN, MO.

REGISTERED JERSEYS FOR SALE
"Hood Farm Breeding." My herd bull Royal Misset's Torono, also three choice bulls by him, ready for service; a few females. Have rented my farm and want to sell.
S. S. SMITH, CLAY CENTER, KANSAS

REGISTERED JERSEY BULLS
Sired by Oakland's Sultan II, \$50 to \$100.
Percy Lill, Mt. Hope, Kansas

SHORTHORN CATTLE.

Shorthorn Dispersion Private Sale

My entire herd of 73 head of registered Shorthorns will be closed out at private sale. Write for descriptive private sale catalog just out.
TWO HERD BULLS—Brilliant Type, sired by Cumberland Type, and The Cardinal by Lancaster Lad.
18 HEIFERS, two and three years old, 15 bred to Brilliant Type. Nine open heifers. **17 YOUNG COWS**, bred to my herd bulls or with calves at foot. **13 BULL CALVES**, 8 to 10 months old. Also five heifer calves. I will be pleased to show you these cattle. Parties will be met at train when notified.
WARREN WATTS, Clay Center, Kan.

Shorthorn Registration Fee Increased



Beginning January 10, 1920, the charge for registering Shorthorns in the American Shorthorn Herd Book will be \$2.50 instead of \$1.25, as heretofore. The increase is necessary to meet present cost of operation and provide Shorthorn prize money and extension service.

American Shorthorn Breeders' Ass'n
18 Dexter Park Ave., Chicago, Ill.

SCOTCH and SCOTCH TOPS

Five yearling bulls, three pure Scotch, two Scotch topped.
Six spring bull calves, pure Scotch and Scotch topped.
Reds, whites, roans. Write for full descriptions and prices.
E. P. FLANAGAN, CHAPMAN, KANSAS
Dickinson County

Bulls Bulls Bulls

8 two-year-old bulls, by Secret's Sultan and Master Butterfly 5th, 12 yearling bulls. Reds and roans.
Can ship over Mo. P., U. P., Rock Island.
W. F. BLEAM & SONS, Bloomington, Kan.

PEARL SHORTHORNS

Bulls, Scotch and Scotch topped, six to 18 months, for sale. Reds and roans. Can ship over Rock Island, Santa Fe, Missouri Pacific and Union Pacific.
C. W. TAYLOR, ABILENE, KANSAS
DICKINSON COUNTY.

RICH ROAN SHORTHORN BULLS

One a growthy 9-month-old polled bull by Snowball and out of a Scotch cow. One low-set, sappy 14-month-old by True Sultan by Sultan of Anoka by Whitehall Sultan and out of Lady Waterloo by Matchless Dale by Avondale by Whitehall Sultan.
CLYDE W. MILLER, MAHASKA, KANSAS

Shorthorn Cattle

For Sale—Five young Scotch bulls and ten head of females, bred or calves at foot.
H. H. HOLMES, R. F. D. 28, Topeka, Kan.

GROSNICK FARM SHORTHORNS
Good husky bull at a low price. Herd headed by Color Bearer, grandson of Avondale. O. E. R. Scholz, Edsworth, Kansas.

SHORTHORN CATTLE.

Shorthorn Dispersion

Private Sale

- 65 cows with calves at foot and bred back.
- 60 cows bred.
- 55 heifers, two years old.
- 50 heifers, yearlings.
- 10 bulls, two years old.
- 20 bulls, yearlings.

Write for prices and descriptions.

C. G. Cochran & Sons
Hays, Kansas

Park Place Shorthorns

SHORTHORN BULLS, herd header prospects and rugged young fellows for the farmer. **SHORTHORN FEMALES**, foundation stock for the breeder and others suited to the farmer's needs. If you want cows, heifers or bulls, one to a carload, we can please you. Every animal guaranteed a breeder. Health certificates furnished. Write me when you will call.



Park E. Salter, Wichita, Kansas
Fourth National Bank Bldg.

Tomson Shorthorns

Chief Stock Bulls
Village Marshall; Beaver Creek Sultan.

200 High Class Cattle
Write us when you need a herd bull.

TOMSON BROTHERS

CARBONDALE, KAN. DOVER, KAN.
R. R. Station, Wakarusa on the Santa Fe R. R. Station, Willard on the Rock Island

4 Good Shorthorn Cows, Registered
bred to Orange Sultan 583799, four nice roan heifers 8 months old, 2 bulls six months old, one white, one roan; calves from Orange Sultan.
Charles Hothan & Son, Scranton, Kansas.

Saline Valley Shorthorns For Sale
Registered bulls, all reds, 6 to 20 months old. For descriptions and prices write O. O. Runyan, Ogallah, Kan.

Holstein Dissolution Sale

High grade Holstein cows and heifers you will buy if you see them. Sale at the John Gress farm, 10 miles west of Lawrence, 7 miles south of Leocompton, 16 miles east of Topeka.

**Leocompton, Kan.,
Wednesday, January 14, 1919**

60 High Grade Cows and Heifers

30 Cows that freshened this fall and winter; 12 2-year-old Heifers bred to Holson's Dutchland Lad; 8 3-year-old Heifers, now in milk; 10 yearling Heifers.

The cows are producing from 45 to 65 pounds milk per day and are splendid "Big Type" Holstein cows all by registered sires. They are exceptionally well marked.

Everything tuberculin tested and sold with a 60 day retest.

Free auto service from the Eldridge Hotel in Lawrence to the farm.

JOHN GRESS, Owner, LECOMPTON, KANSAS

C. M. Crews, Auctioneer.

The Greatest Holstein Sale of the Year 150 Head of Tops. Manhattan, Kan., Feb. 5-6

Remember this is an absolute dispersion of all the females in my herd. Show cattle with high production records. The tops of twelve years of breeding and selection. A. R. O. cows and sons and daughters of A. R. O. cows. Illustrated circular describing the herd is now ready for distribution. Write for it today.

A. S. NEALE, MANHATTAN, KANSAS

Jones Bros., Shorthorn Sale

**At Scott & Dickinson Sale Barn
Hiawatha, Kan., January 17, 1920**

24 COWS mostly with calves at foot and bred to drop calves early in spring to pure Scotch bulls, 15 reds and 9 roans, 6 two-year-old heifers—5 reds and 1 roan, all bred.

7 YOUNG BULLS coming two years old, splendid prospects—two white, 3 roans, two reds—all these cattle are a useful lot and are of choice Scotch and Scotch Topped breeding, all in good condition and will make money for any one who will give them a little care. We are selling some of our best cattle to reduce our herd.

Please send for catalog and come to our sale; we guarantee a good useful lot of cattle.

Jones Bros., Hiawatha, Kan.

Auctioneers: Cols. Boyd Newcomb, Scott & Dickinson, Moore.
O. W. Devine will represent this paper at sale.

Polled Shorthorns (POLLED DURHAM) at Plevna Farm



Over 175 Purebred Cattle in Herds, representing some of the best families of the Herd books.

IN SERVICE

ROAN ORANGE, weight over 2,500 in flesh. SULTAN'S PRIDE, winner at three state fairs. SCOTTISH ORANGE, choice in conformation. GRAND SULTAN, very richly bred.

25 MALES (for the season) reds, whites and roans; halter broke; 8 months old and upward; \$75 to \$1000 each. A few Shorthorns at very low prices.

All registration free—all transfers free—health certificate free—our guarantee free. If there is anything wrong write us.

Will meet trains at Plevna (Santa Fe) one mile east; Sylvia 1/2 mile west and 1/2 mile south; at our expense. NO BUSINESS ON SUNDAY.

J. C. BANBURY & SONS, PLEVNA, KANSAS

Choice Milking Shorthorn Heifers for Sale

Bred to very high class bull. They show their breeding, as the product of a herd bred for many years for milk and beef. A splendid opportunity to start with purebreds adapted to and profitable under average farm conditions. Few extra good bulls sired by Villager Magnet 468996. Considering quality prices are reasonable. Come and see them. Fred Ahlgaard, R. 6, Winfield, Kansas. Farm located 9 miles east on state road.

Amcoats Shorthorns

Scotch and Scotch Tops. Some choice females to sell. Bulls ready for service: Six, two pure Scotch, four Scotch topped.

S. B. Amcoats, Clay Center, Kan.
Visitors met at Rock Island or Union Pacific Depots.

the Mulvane Holstein Breeders' club and have 40 head of good registered Holsteins. Fifteen of them are now in milk and more coming fresh right along. Wilkie & Swinehart are doing official yearly testing and are developing some good cows. It was this firm that developed the cow that broke the state record. This cow was sold previous to her breaking the record to Stubbs Farm, Mulvane, Kan., for the highest price at private treaty that we have record of, \$1,000. Her record for seven days was 30.6 pounds. Wilkie & Swinehart's herd is headed by a brother of the bull that took first premium at the National Dairy Show at Chicago. They are running a card in Kansas Farmer and Mail and Breeze at the present time. They will have a consignment of five or more excellent Holsteins in the Holstein sale, January 30, at the National Livestock Sale at the Wichita forum. Look for their special advertisement in future issues concerning this consignment. Then look for their consignment when you go to the sale at the forum January 30.—Advertisement.

Spotted Polands and Shorthorns.

Earl J. Matthews, Clearwater, Kan., has on his farm a few more Spotted Polands and Shorthorns than he cares to keep. Those that he has for sale are not tailenders but the kind that a farmer need not be ashamed of after purchasing. Mr. Matthews will sell a few Spotted Poland China gilts that are due to farrow in the spring. These gilts in addition to being thrifty, good boned and well fleshed are from good families and bred to a good boar. As to the Shorthorns, Mr. Matthews has three bulls that are nearly pure Scotch. These bulls are by Ed Stunkel's Cumberland Diamond and out of Victor Orange and Star Goods cows. One bull (roan) is nearly ready for service and the other two, one white and the other red, are at weaning age. Here is an opportunity to buy a good bull sufficiently well bred to head a well bred herd of Shorthorn cows. Mr. Matthews starts an ad for each, gilts and bulls, in this issue of Kansas Farmer and Mail and Breeze. Please mention the Kansas Farmer and Mail and Breeze when you write him.—Advertisement.

The Kansas National Show and Sale

The Kansas National Live Stock Exposition, at Wichita is making more rapid growth than any institution of like character in the United States. The first exhibition was held in February 1917. At that time, temporary buildings were erected in the streets to stable the stock. Since then a million dollar fireproof live stock exposition building has been constructed, and the Kansas National show has the most modern home of any stock show in America. The Fourth Annual Kansas National will be held at Wichita, January 26th to 31st. The entries for the show do not close until January 10th, however enough breeders have already engaged stall and pen room to insure a show fully double the size of the last one, in fact the management is confident that the Kansas National will this year take second place among the many great live stock expositions of America, being second only to Chicago International. The Kansas National Sale is in a class by itself; no other sale of registered livestock held in America can approach the magnitude of the Kansas National. It is not only the greatest in numbers, but more grand champion blood has been assembled for this sale than was ever offered in one sale anywhere on the face of the earth. The greatest grand champion show animals of each breed are represented by their sons and daughters in the sales. In the Hereford sale no less than seven grand champion bulls at the Chicago International are represented by their get. The breeders will be given an opportunity to secure the blood of such famous grand champions as Ardmore, Bocaldo 6th, Repeater, Ft. Comfort, 14th, Gay Lad 6th, Prince Rupert 8th, Perfection Fairfax, Russell Fairfax, Gay Lad 9th, Baby Doll Fairfax, Gay Lad 16th, Beau Onward, Prince Perfection, Braemore, and Ruddy 1, etc. Also such noted sires of grand champions as Bonnie Lad 20th, Generous Schuck-nall, Monarch, Fred Real, Monarch, Young Gay Lad, Beau President, Beau Mischief, Beau Picture, Lord Briling, Domino, etc. Space forbids us to mention even the sires represented in the twelve separate sales, all of which are about filled with the best bred animals known to their breed. A total of 850 registered animals will be sold, including 100 Shropshire sheep, 175 Herefords, 175 Shorthorns, 75 Holstein-Friesians, 60 Aberdeen Angus, 100 Percherons, 25 Belgians, 30 jacks and jennets, 60 Polands, 50 Durocs. An illustrated booklet with about 75 cuts of famous animals represented in the sales has been compiled and printed, for advertising the show and sales. It is free, write for it at once.—Advertisement.

BY J. COOK LAMB

Theobald's Sale Date January 9.

In the December 13 issue of the Farmers Mail and Breeze a mistake was made in the field note concerning the J. C. Theobald Duroc sale to be held at Ohiowa, Neb. The date was given as January 8 when the sale will really be held January 9. Of course it will be better to be a day early than to miss this sale but you can plan on Friday, December 9, as the day on which Mr. Theobald will sell the 40 good Duroc bred sows. Look over the ad in this issue. This is a good offering and you will do well to get a catalog right now. A study of the offering will make you want to own some of them.—Advertisement.

Shorthorn and Poland Dispersion.

Don L. Versaw, Bloomington, Neb., has sold his farm and will disperse his purebred Shorthorns and Polands at Franklin, Neb., January 16. The offering includes a very good lineup of plain bred cattle that can be used in any herd or will make a good foundation for a new breeder. Six of the cows will sell with calves at foot and fifteen will sell bred to the good herd bull, Uppermill Victor by Bridegroom 2nd. There will be a good string of rich red and roan heifers sold. Nine young bulls that will make good. The Poland China hogs are good useful types that carry good blood lines and are well developed. One yearling by D. L.'s Big Fessy has six spring boars and a gilt sired by Fessy's Timm. They are good ones. Other gilts are by Big Problem and D. L.'s Big Jones. The females are bred to Hercules Hadley. This good herd boar will be sold in the sale. Write for a catalog today, mentioning this paper.—Advertisement.

Demonstrator Demonstrates.

Dave Bindernagel, Beatrice, Neb., will sell 40 Duroc sows and gilts January 10 at the Farmers Feed Yard, Beatrice. This will be one sale of unusual opportunities. There will be a great string of good females sired by and bred to real herd boars. Twelve gilts in the sale are sired by Demonstrator.

HEREFORD CATTLE

All My Herefords At Bargain Prices

20 bred cows at \$200 each.
10 heifers, 6 to 18 mo. old, \$85 to \$175 each.
22 bulls, 6 to 24 mo., \$75 to \$150 each. One herd bull at \$250.
These prices for immediate sales. Address,

**Fred O. Peterson,
Lawrence, Kansas**

Discriminating Hereford Buyers We Offer NOW

12 coming yearling bulls, Columbus, Anxiety strains. Bredy countenances, character and proper conformation. Un-pampered but in better than pasture condition. 7 registered, 5 unfortunately for me are unregistered but equally well bred. All high class farm bulls.

We Will Offer

At the Breeders' Sale, Kansas National, Wichita, Kan., Jan. 26-31, 4 bulls, 5 females: 1 magnificent herd bull, 3 senior yearlings, and 5 cows and heifers. Superior specimens. Look for my consignment at this sale. Meanwhile, if you want one or more of the 12 yearling bulls write now to
W. C. Cummings, Hesston, Kansas

Blue Ribbon Stock Farm HEREFORDS

200 cows, heifers and bulls—200. Chief herd sire, Don Balboa 14th 596021 by Don Carlos, a bull with over 40 Gudgell & Simpson crosses. Mated with 60 two-year-old heifers sired by Sir Dare 417529 by Paragon 12th. We have what you want and the prices are in line.

Lee Bros., Harveyville, Kan.
Wabaunsee County

A HEREFORD START With Turkey Money

Among the many orders received thru my mail order selling plan, one came from a lady who was starting her son in Herefords. She had \$250 from the sale of her turkeys. We picked out for her an Anxiety bred heifer with a Monarch calf at foot, such as would bring \$500 in almost any good sale. That is what I sold her boy for \$250, and that is the way I feel about getting the right kind of people started in a real business.

If you are the right kind you can't start too soon. Send for my new mail order plan of selling Monarch Herefords, and mention this paper.

J. O. Southard, Comiskey, Kan.

PLEASANT VIEW STOCK FARM

Herefords, Percherons, Durocs

For sale. Five bulls from 10 to 12 months old, by Dominor by Domino. A nice string bull calves and six bred cows. A nice young stallion. Address,

Mora E. Gideon, Emmett, Kan.
(Pottawatomie county)

Anxiety and Fairfax HEREFORDS

Females bred to sons of Bright Stanway and Perfection Fairfax. Herd header bulls ready for service. Open heifers. Write today to

J. R. GOODMAN, WHITE CITY, KAN.

HIGH GRADE HEREFORDS FOR SALE

250 head extra good 8 to 5-year-old high grade Hereford Colorado cows, bred to purebred bulls. These cows are on fine wheat pasture. Can be left as long as desired. Plenty of good feed in vicinity cheap.
S. M. WILSON, SALINA, KANSAS

GALLOWAY CATTLE.

Jno. P. Reilly & Sons Quality Galloways

For sale—10 bulls, coming two years old, 15 bull calves, six to eight months, 60 females to select from, 6 months old heifers to young cows. Address

Jno. P. Reilly & Sons, Emmett, Kan.
7 miles north of St. Marys, main line U. P.

AYRSHIRE CATTLE.

CAMPBELL'S AYRSHIRES

Young Ayrshires, both sex, bulls ready for service, heifers bred or open. Finlayston and Armour strains.

ROBERT P. CAMPBELL, ATTICA, KAN.

REGISTERED GALLOWAYS. Bulls, cows or heifers. Fashion Plate, Silver Lake, Kan.

a Premier Gano bred boar, second prize senior at both Iowa and Nebraska state fairs 1919. These will sell bred to Smith Pathfinder, a senior yearling out of a Proud Col. dam. There are few Pathfinders his equal in Nebraska. Gilts of the quality and breeding of these and bred to such a boar should command attention among all breeders of Durocs. Two sows in the sale are by Kern's Sensation; one by Joe Orion 5th; one by Jack's Orion and one Illustration 3rd sow, the dam of the C. R. White & Son \$2,500 Pathfinder boar. All are attractions of the 800-pound type and are bred to Demonstration. A late litter of five, three open gilts and two boars, out of a Big Bone Giant sow and sired by Demonstration are strictly high class.—Advertisement.

Straight Anxiety 4th Herefords.

Mousel Brothers, Cambridge, Neb., might well be termed "Preservers of Straight Anxiety 4th Herefords." Their sale, January 5, 6 and 7, at Cambridge, will consist of 190 head of straight bred ones. The Mousel boys say this is the greatest collection of Anxiety 4th cattle ever sold in one sale on the American continent, or in the world for that matter. There will be at least 50 high class herd bull prospects of exceptional merit. The females listed are of the best type and strongly Anxiety 4th bred. Many of them have calves at foot and are rebred to one of the six great herd bulls in use in the Mousel Brothers herd. This will be the year's greatest opportunity to secure Anxiety 4th blood. It comes at a time when the blood secured can start work for you almost at once. The breeder who adds some of this intense Anxiety 4th blood to his herd cannot help but add an improvement.—Advertisement.

Day's High Sensation Sale.

Carl Day, Nora, Neb., will sell fifty head of Duroc females bred to or sired by High Sensation at his farm, just out of Nora, Wednesday, January 7. High Sensation was a winner in the junior yearling class at the 1919 Nebraska State Fair. That he is proving a real sire will be evidenced by the 10 head of outstanding gilts by him that are included in the sale. These are bred to Model Pathfinder. The remaining 40 head of females are strictly high class sows and gilts bred to High Sensation. The sale is the first sale in a week's circuit. The breeders represented in the circuit are putting up a strong offering in quality and variety of breeding. Look up the ad in this issue for some of the attractions listed in this first sale. These hogs are the real type that will go out and make good in any herd and on any farm. Whether you are classed as breeder, beginner or progressive farmer you will make no mistake to attend this sale and ship home one or more of these good ones. Send for a catalog now, mentioning this paper.—Advertisement.

BY O. W. DEVINE.

Jones Bros.' Short-horns.

The Jones Bros. of Hiawatha, Kan., have announced January 17 for a reduction Short-horn sale. On this date they will offer seven head of choice young bulls old enough for service, 24 head of large mature cows mostly with calves at foot and bred again for early spring calves. Please look up ad in this issue and write for catalog.—Advertisement.

The New Home Sale.

One of the old reliable Poland China breeding firms, A. J. Erhart & Sons, have announced February 10 as the date of their first sale since moving to their new farm at Oregon, Mo. While this is their first sale at Oregon it is but a continuation of their annual bred sow sales. Erhart & Sons were formerly located at Ness City, Kan., from whence their reputation as breeders of the big type Poland spread throughout the land wherever big types are known. In 1918 they showed the great boar, Big Sensation, the largest boar of any bred ever shown on a Kansas fair ground. He was first in class and had many admirers. He has proved a sire of excellent sale offering will be bred to this great sire. Big Sensation is being assisted by two younger boars that are very promising prospects both as to individuality and blood lines. Tantalizer by Cook's Liberty and out of a Surprise Prospect dam, and Juneyator by Liberator out of Melba by the Giant by Dish's Giant. A number of these young boars for early March litters. Later mention of this sale will be made in this paper but all interested in the real big types should write for a catalog at once. Please mention this paper when writing.—Advertisement.

BY J. PARK BENNETT

Big Boned Spotted Poland Chinas.

Wm. Hunt, Oswatomie, Kan., who has been breeding Spotted Poland for the last 35 years is offering some extra good gilts for sale. These gilts have been selected from his large herd and will be sold either open or bred at very attractive prices. They are good ones, registered and ready to ship. Write Mr. Hunt your needs.—Advertisement.

BY S. T. MORSE

R. C. Watson, Altoona, Kan., is making a special price, for the next 30 days, on sows and gilts bred for March and April farrow. These sows and gilts are big type Durocs sired by Ideal Pathfinder and Crimson Orion King. They are bred to a grandson of A King Col.—Advertisement.

Holsteins for Sale.

Roy Johnston of Erie, Kan., is offering for immediate sale some choice Holstein bull calves. These calves are right in every way, and will be priced cheap if taken while young. Mr. Johnston also has some extra good cows for sale. Several of these cows are fresh and are good producers, several with good A. R. O. records. If you are in need of a good bull calf, bred heifer or a fresh cow write Mr. Johnston at Erie, Kan. Or better call on him at his farm near South Mound, Kan. When writing please mention the Mail and Breeze.—Advertisement.

Poland China Boars.

The Deming Ranch, Oswego, Kan., is offering some mighty good boars for sale, and at prices that will be a pleasant surprise to you. These are big, thrifty boars of the very best of breeding and individuality. Write H. O. Sheldon, Supt., for full particulars as to prices and breeding. If you want something choice in Poland, bred sows, gilts or young boars, you will always find them at the Deming Ranch. One of the best herds in the United States. Several hundred head to select from.—Advertisement.

Holsteins Are Making the West a Dairy Country And Cashing Farm Feeds for the Highest Dollar

Sunflower Herd Holsteins

The better class of females headed by a great sire. Stock for sale at all times. Write your wants and I will send particulars. F. J. Searle, Oskaloosa, Kan.

Harry Mollhagen, Bushton, Kan.

In our herd are 13 cows with an average of 23.77 pounds butter in seven days. Bull calves from dams with records from 22 to 23 pounds. Health of herd under federal control.

Ben Schneider, Nortonville, Kansas

Six Holstein bulls, 6 months old to yearlings; 1 from 25-pound, 1 from 21-pound cow; 1 from 17-pound 2 year old. Priced to sell. Duroc gilts priced right.

Chas. V. Sass, 409 Minn. Av., Kansas City, Ks.

10 registered cows and heifers, also 20 grade cows and heifers. 10 registered bulls, three months to three years old. Registered cows \$175 per head up. Grade bred heifers \$125 up. Bull calves \$100 and up.

Windmoor Farm Holsteins

For sale—Bull calves sired by 30-lb. son of Johanna McKinley Segis and out of good dams; \$50 and up. For particulars write CHAS. C. WILSON, MANAGER, EDNA, KANSAS.

David Coleman & Sons, Denison, Kan.

We have bull calves for sale from cows with semi-official yearly records.

Axtell & Hershey, Newton, Kan.

For sale—A beautiful, straight, almost white bull, whose dam gave 110.8 lbs. of milk in a day, and 730 lbs. of milk in seven days.

P. W. Enns & Son, Newton, Kan.

As we will keep purebreds only in future our high grade cows and 8 heifers will sell to first applicant. Dams of these grades made from 13,000 to 16,000 pounds milk.

R. E. Stuewe, Alma, Kan.

For sale—10 cows with A. R. O. records. Five bulls 10 months old, five two-year-old heifers and five yearlings.

Victor F. Stuewe, Alma, Kansas

BARGAIN—7 Holsteins at \$120 each; including 6 springing grade heifers, 2-year-olds, and one 8-month-old bull. Extra fine lot, plenty size, good milking families. Some calves in 2 months, 1 fresh with heifer calf, others due later.

W. J. O'Brien, Tonganoxie, Kansas

an experienced auctioneer, specializing in Holstein sales, and breeder of registered cattle.

Chas. H. Seifert, Leavenworth, R.D. 4

Sunnyside Dairy Farm For sale—Bull calf out of 26 pound dam and sired by my herd bull, Prince Wayne Skylark De Kol.

J. A. Jamison & Sons, R. D. 2 Leavenworth, Kan.

Southside Holstein-Friesian Farm For sale—A few very choice young bulls, out of A. R. O. dams, ready for service this fall.

W. E. Zoll & Son, R. D. 6, Leavenworth, Kan.

Two very well marked registered bulls for sale. Ready for light service. Priced right.

C. A. Treff, Bonner Springs, Kan.

I offer for sale my 30 pound herd bull, King Peter 18. He is nearly white, five years old and sold fully guaranteed. Write at once.

Dr. L. E. Shay, Atchison, Kansas

For Sale: Registered Holstein yearling heifers and 2 royally bred bulls from A. R. O. dams, and old enough for service.

Advertisers in this Department are Members of the Holstein-Friesian Association of Kansas.

G. B. APPLEMAN, Pres., Mulvane, Kan.

P. W. ENNS, Vice-Pres., Newton, Kan.

A. S. NEALE, Sec'y-Treas., Manhattan, Kan.

W. H. MOTT, Sale Mgr., Herington, Kan.

Annual meeting and two days' association sale, Topeka's big, modern sale pavilion, Topeka, Kan., March 23-24.

SAND SPRINGS FARM

Specialize in long time test—persistency means profit. Several young males from record cows. No grades. Herd sire Prince Ormsby Pontiac Merced from 32-lb. daughter of Sir Pletier Ormsby Merced, E. S. ENGLE & SON, ABILENE, KAN.

G. Regier, Whitewater, Kansas

Bulls ready for service by a 30 pound bull and out of A. R. O. dams. Correspondence cheerfully answered. Inspection invited.

Geo. L. Allgire, Clay Center, Kan., R. D. 8

Farm near town. Individual production rather than numbers. Something to offer later on.

Blue Ribbon Stock Farm Holsteins

When you want anything in the purebred line. Sons and daughters of Fairmount Johanna Futuris 78903, a 34½ pound bull. Write us or see LEE BROS., HARVEYVILLE, KANSAS

J. P. Mast, Scranton, Kansas

Ten cows and heifers, some just fresh; three bulls ready for light service; 32 to 35-pound breeding.

Dr. W. E. Bentley, Manhattan, Ks.

For sale—Seven cows and some heifers due to freshen this fall. Five cows (grades) to freshen this fall and winter. Two registered bulls old enough for service. Selling grades to make room for purebreds.

Ross' Holsteins

Bull calves by Hamilton Prilly 5th whose dam made a record of 26.49 lbs. butter in 7 days, 105.6 lbs. in 30 days. Pictures sent on application. S. E. ROSS, R. 4, IOLA, KANSAS

Hillcrest Farm

A few young bulls out of A. R. O. dams ready for service this fall. Inspection invited. FITZGERALD, PETERSON & WEDDLE, Jamestown, Kansas

Geo. Lenhart, Abilene, Kansas

It is poor grade judgment to use a grade bull when you can "swap" him for a purebred ready for service by December.

PERSISTENCY IN PRODUCTION

The dam of Vanderkamp Segis Pontiac, our herd sire, is one of only 19 cows in the world to make 30-pound records for 4 consecutive lactations. Young bulls for sale by this sire \$100 and up. Collins Farm Company, Sabetha, Kansas

A. S. Neale, Mahattan, Kan.

We have decided to sell a few yearling and two-year-old heifers and a few cows fresh early this fall. Act quick if you want them.

C. A. Branch, Marion, Kansas

Clear Creek Holsteins—Have a number of open and bred registered heifers to sell. Some young bull calves. Buy a good bull calf and raise your own sire.

Braeburn Holsteins

Bulls and bull calves. One sire has a world-record dam and sire's dam; the other averages 648-32.63 for dam and sire's dam. H. B. COWLES, 608 Kan. Ave., TOPEKA, KAN.

BULLS

We have 6 head now ready for service, purebred and registered, out of high testing dams. Prices \$100 to \$150.

LILAC FARM DAIRY, R. 2, TOPEKA, KANSAS

SHUNGA VALLEY HOLSTEINS

Cows and heifers, registered and high grade, granddaughters of King Segis Pontiac bred to son of King Segis Pontiac Konigen. Bulls ready for service. Must reduce our herd about 20 head soon. Ira Romig & Sons, Sta. B, Topeka, Kansas

Four Bulls for Sale

Two are young calves; others 7 months and 2½ years; the older ones by a 40-pound sire and the oldest out of a 22-pound dam. All registered. W. B. Van Horn & Sons, R. 1, Topeka, Kansas

T. M. Ewing, Independence, Ks.

King Segis Pontiac breeding. A few young cows for sale and bull calves ready for service this fall.

Albechar Holstein Farm

A few young bulls, of good breeding and individuality and of serviceable ages, for sale. Write for prices. Robinson & Shultz, Independence, Kansas

Mott Bros. & Branch, Herington, Kan.

Maplewood Farm 22 purebred two-year-old heifers coming fresh this fall. 22 yearlings, open. Write now if interested.

SOME GOOD BULL CALVES NOW

Will make attractive prices if taken while young. P. O., Erie, Kan. Roy Johnston, Blue Mound, Kan.

BULLS

We have some splendid bulls for sale at very reasonable prices; from a few weeks to 1 year old; dams' records from 16 lbs. (2-yr.-old) to over 30 lbs. Write us just what you need in bulls. Mark Abildgaard, Mgr., Mulvane, Kansas

Appleman Bros., Mulvane, Ks.

Young cows due to freshen soon all sold. Still have 2 or 3 young bulls old enough for service out of A. R. cows and 30-pound bull.

B. R. Gosney, Mulvane, Kan.

Coming 2-year-old heifer, heavy in calf to King Pontiac Beuchler; 5-month-old heifer calf, double cross of the Pontiacs breeding.

Al. Howard, Mulvane, Ks.

Bulls ready for service this fall. Write for descriptions and prices.

Wilkie & Swinehart, Derby, Kan.

Bull calf, evenly marked, out of the great show bull Johanna Bonheur Champion 2nd. Price \$100 F. O. B.

Bull Calves by Our Herd Sire

Dam has 28.65-784—in 7 days; has 1000 lb. sister, one 34, one 30 and 11 above 20. A few services for sale to approved cows. We have all A. R. O. Cows. GOODIN STOCK FARM, C. L. GOODIN, PROPRIETOR, DERBY, KANSAS.

Chas. P. High, Derby, Kansas

High's Highest quality Holsteins. Bull calves from A. R. O. dams. Always glad to see you.

D. E. Flower, Mulvane, Kansas

For sale—A few very choice A. R. O. cows and heifers to freshen in October and November. Also bulls of serviceable ages.

W. H. MOTT, HERINGTON, KANSAS

Sales Manager. A knowledge of public sale management enables me to render valuable assistance in conducting Holstein sales. Write for terms and dates.

Facts in BLACK & WHITE

Holstein-Friesian Sires

Will Improve Your Herd Increase Milk Production

Secure uniform and correct dairy type. Increase butter production. Insure greater net returns.

Send for Free Illustrated Booklets.

The Holstein-Friesian Association

292 Hudson Street Brattleboro, Vermont

Registered Holstein Bull for Sale

King Ludo Aggie 214067; born April 22, 1917; sire, King Pontiac Ormsby 53072; dam, Lucy Nannie Pontiac 350940. GLEN O. IREY, Powhattan, Kan.

CHOICE HIGHLY-BRED HOLSTEINS

Calves; 12 heifers and 8 bulls, 6 to 8 weeks old, nicely marked, from heavy producing dams, \$25 each. Safe delivery guaranteed. Fernwood Farms, Wauwatosa, Wis.

NEED A BULL? (Holstein of Course)

We have a splendid lot of young bulls that we want to move quickly and are pricing accordingly. They run in age from a few weeks to over 1 year; are splendid individuals, most of them light in color. Their dams have A. R. O. records of from 16 pounds, as 2-year-olds, up to over 30 pounds as mature cows. Some of them are sired by the great CANARY PAUL FOBES HOMESTEAD—the greatest bull in the bull line. We have it.

STUBBS FARM CO., Mark Abildgaard, Mgr. Mulvane, Kansas

REGISTERED HOLSTEINS

Serviceable bulls and a few females for sale. Valley Breeze Farm, Lawrence, Kan. ORIN R. BALES, PROP.

DAIRY FOR SALE

All or one-half interest in herd of high grade Holstein cows and heifers; 2 miles of Lawrence, Kan., concrete road. Possession now. H. A. Tuttle, R. 1, Lawrence, Kan.

HOLSTEIN AND GUERNSEY CALVES

31-32s pure, 7 weeks old, beautifully marked, \$25 each, crated for shipment anywhere. Bonds accepted. Edgewood Farms, Whitewater, Wisconsin

Grade Holstein Heifer Calves for Sale, well marked, nicely crated, satisfaction guaranteed, \$25 each. A. L. Rasche, Lake Mills, Wis.

HERD BULL FOR SALE: King Segis Pontiac Neko 208768. B. C. Day, Sibley, Kansas.

Persistency Production

Is one of the most desirable qualities a dairy animal can have. Vanderkamp Segis Pontiac is our herd sire. His dam is one of less than 20 cows in the world to produce over 30 pounds of butter in 4 consecutive lactation periods. Twenty-three of his nearest dams average over 27 pounds of butter in 7 days. We have several young bulls to offer sired by this remarkable bull. Prices \$100 and up. COLLINS FARM CO., SABETHA, KANSAS.

TWO REG. HOLSTEIN BULL CALVES for sale; good type, size and color; King Segis Pontiac breeding from good cows. H. L. WHITE, R. 6, INDEPENDENCE, KANSAS.

RED POLLED CATTLE.

FORT LARNED RANCH

200 HEAD OF REGISTERED RED POLL CATTLE

A number of choice one and two-year-old bulls and heifers from one to three years old. E. E. FRIZELL & SONS, FRIZELL, KAN.

18 HEAD OF CREMO HEIFERS

for 30 days at \$2000 for the bunch, as I have sold out the balance of my Red Polled cattle, 7 are bred and 7 are early calves. I also have 12 Cremo bulls from calves up to 2 years old; will sell cheap if taken at once. I must close these cattle out at once. ED. NICKELSON, LEONARDVILLE, KAN.

RED POLLS. Choice young bulls and heifers. Write for prices and descriptions. Chas. Morrison & Son, Phillipsburg, Kansas.

FOSTER'S RED POLLED CATTLE

Choice young bulls, priced reasonable. C. E. Foster, R. 4, Eldorado, Kansas



"The Farmers Working Day-How Long Shall It Be?"

The nation gasped when the soft-coal miners struck for a 30-hour week. Farmers who often work that long in two days, and are equally, if not more important in the scheme of things, began to ask questions.

In the January Farm Journal, T. N. Carver tells what will happen if farmers decide to regulate their hours of work by city standards. Eight lively drawings by E. W. Kemble. Don't fail to read this interesting article.



"Illinois Milk Producers Acquitted"
Collective bargaining by farmers won a smashing victory when the officers of the Milk Producers Association were acquitted in Chicago of a conspiracy and sabotage charge. Read about it in the January issue.



"Milking Machines Make Good"
A recent investigation of milking machines on farms shows 100 per cent satisfaction of owners — unusual, but a fact. Dairy men in doubt about buying a machine should read this article and apply the advice given to their own conditions.

January Is a Record Breaker

In all its 43 years, The Farm Journal has never printed such a splendid variety of well-written, interesting, and valuable reading as in the January issue, now out. Attractive illustrations, articles dealing with great basic principles of farming and with technical farm matters—"how to do things"—all are presented simply and clearly for your information. No matter what kind of farming you do, the Greatest National Farm Paper fills the bill. It suits over a million American farm homes. It will suit you. Read in January:—

"The \$100,000,000 Farmers' Trust"

While the Farmers' Union and the Missouri Farm Clubs and the Nonpartisan League are all big and active, not one of them compares in size or brilliant success with the giant of Western Canada, the strongest farmers' organization in the world. In January is a new study of this great co-operative success, by Earle W. Gage, full of information and ideas for everyone interested in any way in increasing profits through collective action.

"A Study of Hog, Corn and Wheat Markets"

As long as market prices are controlled by something else than production cost, we must do our best to figure out ahead what prices will be. This fine article will explain how statistics and charts are used for the purpose, so that stock and grain can be marketed with the highest possible probability of good prices. Shippers should read this.

"Cutting Cordwood Cheaply"

A new article shows how cordwood can be cut at a cost of about 20 cents per cord. The machinery, of course, includes a circular-saw and a drag-saw.



"Alfalfa Fits Corn Belt Farms"

This article shows how alfalfa can be made to work into a normal rotation system. A good many people think this cannot be done, but this article shows how and why.



The Farm Journal

Cream, Not Skim Milk

More January Articles

"Your Fire Insurance Policy Should Be Accurate"

"Sod Breaking By Tractor"

"Big Market for Railroad Cross-ties"

"Will Jack Frost Get Your Car?"

"Lengthening the Life of Fence Posts"

"Horse Meat for Human Food"

"Farm Accounting Increased Profits"

"Two Farm Essentials"

"Value and Choice of Grain Drill"

"Everbearing Strawberries"

"Is the 'RED' Spirit on Farms?"

"A Barrel - Stave Bob Sled"

"Blasting Stumps"

"Choosing a Grain Drill"

"Cutting the Cost of Living"

"Corn at Eight Cents a Bushel"

"Trap-Shy Minks and Water-Shy Weasels"

"Whipping Swamp Land Into Farms"

"Cabbage For Profit"

"The Land Boom Still On"

"Nests of Birds"

"Cho Cho and the Children"

"Legal Status of the Dog"

"Big Business and Farm Women"

"Shopping for 10,000,000 People"

"Preventing Garage Fires"

"What is an Ideal Woman?"

"Cooking Dried Vegetables"

—and many others'



Also in January, the second installment of the mystery story "The Seal of Secrecy"—a vivid story of a crime and its motive, a love story and a charming heroine. Be sure and read it.

Send 50 Cents Now!

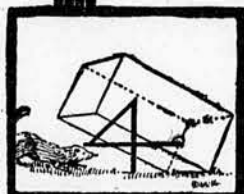
Just think! For less than 3 cents a month you can read this great magazine throughout 1920 and 1921—two full years. Neighbors all around you take it—why not you? Why not send \$2 for eight years, and dodge future subscription rate increases? Money back any time. Ask your nearest news dealer for the big January issue—5 cents.

The Farm Journal

125 Washington Square, Philadelphia

"How to Make Traps That Trap"

The figure 4 deadfall, stone deadfall, and all the other old reliable traps can be easily built at home if money or time is scarce. This excellent article by Brimmer gives exact directions and diagrams.



"Short-Time Credits for Farmers"

The North Carolina "Credit-Union" system clearly explained—how it fills a place not covered by banks or the Farm Loan system. Full details.



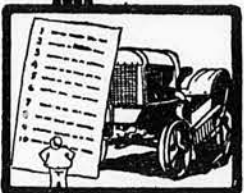
"\$1800 Net From 1-3 Acre"

No, not a coal mine nor a new poultry stunt, but a legitimate farm undertaking that pays just what is claimed.



"The Tractor Instruction Book"

Ten things you should know about your tractor, and eleven things you should do. Also a fine article headed "Two Big Tractor Foes."



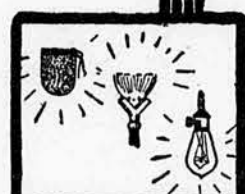
"A Cold Cellar in a Warm Cellar"

How to keep canned fruit, potatoes, apples and vegetables through the winter, in a convenient place in the cellar, even when the cellar is warm. By Walter E. Andrews, who knows what he is talking about.



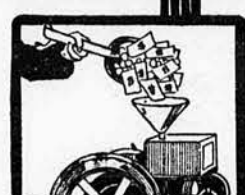
"3 Ways to Light the Farm"

An explanation and comparison of the three standard systems, using gasoline gas, acetylene gas, and electricity. Conditions under which one or the other should be chosen, are clearly pointed out.



"The Robber Gas Engine"

A fine illustrated article on gasoline engines accuses the engines of frequently robbing their owners and tells how the dishonest engine can be detected and its wicked designs thwarted.



"Table Manners and Good Breeding"

Many women will be interested—if not for themselves, then for the children—in an illustrated article which shows the correct position at the table, how to handle the napkin, holding and using knives, forks, etc.



"A Town That Woke Up"

A very interesting account of how town folks and the farmers got together and turned a half-dead community into a live center. Such practical illustrations are of the greatest importance at this time.



"Good Roads, Good Markets, Good Profits"

The value of good roads as an investment is shown conclusively in the above mentioned article. The subject is treated from a new angle and is well illustrated. Don't miss it.



The Kansas Association Holstein

In the forum, Wichita, Kan., Nov. 29-30, the Holstein-Friesian Association-Kansas will hold its semi-annual sale success and popularity of this big tion is known all over the country. Its success and popularity to the credit of these sales. In this sale 30 per cent of the breeders are consigning their herds and no such a sale was held in Kansas. The association manager, W. H. Mott, has insisted each spring that still better cattle must be signed if the association is to accomplish what it was organized for which popularize Kansas Holsteins. Elsewhere

Auctioneers—THE

KANSAS QUARTETTE—Mack, Newman, Dal. Wed. in the 2-11

TWO REGISTERED HOLSTEIN COWS
For sale, also one good yearling bull.
W. G. Wright, Overbrook, Kansas

Blue Valley Shorthorn Breeders First Annual Association Sale

50 Lots—Consignments from seven herds of the Association
In the sale pavilion

Blue Rapids, Kansas, Friday, November 19

40 Females and 10 Bulls

The Consignors, all members of the Blue Valley Shorthorn Breeders association are as follows:

G. F. Hart, Summerfield, Dan O. Cain, Beattie,
Griffie Bros., Marysville, J. M. Neilson, Marysville,
Hunt Bros., Blue Rapids, A. J. Turinsky, Barnes,
H. J. Bernhorst, Irving

Splendid Scotch families are represented. There will be cows with calves at foot and bred back, bred and open heifers and several Scotch herd bull prospects. It is a real Shorthorn offering in Shorthorn territory. Catalogs ready to mail. Address

Dan O. Cane, Sale Manager, Beattie, Kansas
Auctioneers: Burgess, Gordon and Kenney, J. W. Johnson, Feldman.
Mention Kansas Farmer and Mail and Breeze when you write for the catalog.

Get a Place Ready For a Few Shorthorns

You can buy them from an offering especially selected for foundation stock for practical farm herds, and sold on the basis of real values.

From Six Shawnee County Herds

Selections by Kansas' most experienced breeder have been made and are cataloged for a

Public Sale December 15 at Topeka

Feed, labor, every condition, make this a thing for thought and action by men who want to get ahead. For catalog or any particulars, address

Frank Blecha, Co. Agent, Court House, Topeka, Kan.

POLAND CHINA HOGS.

Plainview Polands

We sell all our stock at private sale and guarantee satisfaction. Liberator and Big Bob breeding.

PLAINVIEW HOG AND SEEL FARM
Frank J. Rist, Prop., Humboldt, Neb.

Cedardale Poland Chinas

No boar public sale but 20 March boars, well grown, type and Big Bob Wonder, Guerdale Jones and Big Timm breeding. Guaranteed to sell. Satisfaction guaranteed.

JESS E. RICE, ATHOL, KANSAS
(Smith County)

Big Type Polands

Spring boars and gilts by Black Buster, 1919 grand champion Kansas state fair, and by Columbus Wonder, 1920 grand champion Kansas and Texas state fairs. Fall pigs both sex by Columbus Wonder 2d, junior and reserve grand champion 1929 Kansas state fair. Pigs out of 600 to 800 pound sows. Write today.

Mark D. Lewis, Conway Springs, Kansas

FOR SALE AT PLEASANT HILL STOCK FARM

Big-type Poland China March boars sired by Orange Long Model, Iowa Rainbow and Black Giant Buster, out of 600 and 800-pound sows; good quality, plenty of bone; good arch back; price right; ship either on Rock Island or Missouri Pacific; guarantee satisfaction. Write today. The best is first.

HARRY SHEARER, LOGAN, KANSAS

Henry's Big Type Polands

Spring boars ready for service, sired by Big Orange, Smooth Prospect, and The Jayhawker. Also a few gilts.

JOHN D. HENRY, LECOMPTON, KAN.

The Lone Cedar Polands

Spring pigs either sex, by Big Chimes he by Big Hadley Jr. Also herd boar material in fall boars by The Yankee Jr. he by The Yankee and bred same as The Rainbow. Pigs out of Big Orange bred sows. Cholera immune. A. A. Meyer, McLouth, Kan. (Jefferson Co.)

SHERIDAN'S PROLIFIC POLANDS

March and April boars and gilts; grandsons and granddaughters of Big Bob Wonder, Giant Buster and Orange Model; one gilt by Jayhawker; dams weigh at maturity 600 to 800 pounds.

J. B. SHERIDAN, CARBIBO, KANSAS

POLAND CHINA HOGS

Big Bone, Stretchy Polands

Spring boars and gilts ready for service; fall gilts and tried sows; fine fall pigs, both sex; immune and recorded; priced to sell. Satisfaction guaranteed.

ED SHEEHY, HUME, MISSOURI

ROADSIDE FARM POLANDS

10 March boars, actual tops and a few choice gilts same age. The blood lines are popular and the prices are right.

R. Crowl, Barnard, Kansas, Lincoln County

BUELL'S POLAND CHINAS

I am now offering good spring boars, Orange Dishers Giant and Gerstale Jones breeding. Write for prices, description and breeding. Satisfaction guaranteed.

C. M. BUELL, PEABODY, KANSAS

Pretty View Polands

are getting popular. Try one. Four extra fine March boars, tippy sows and gilts. Priced reasonable. Satisfaction or money back.

BRUCE HUNTER, CASTLETON, KANSAS

Poland China Herd Boar for Sale

My herd boar, Captain Bob, from the Deming Ranch, age 2 1/2 years. Price \$125.

E. H. W. Hartman, Valley Center, Kansas

Morton's Big Type Poland Chinas

Spring boars by Big Buster, Big Liberator, Black Orange and others at \$50 while they last.

H. B. MORTON, BROOKLINE, MO.

POLAND CHINA BOARS

March pigs by Great Buster by Buster Over. Customers must be satisfied or money refunded.

JOHN S. HILL, MELVERN, KAN.

Reg. Poland China Boars

Serviceable age, \$25; also 1,000 lb. herd boar.

LLOYD L. MULLIN, WALNUT, KANSAS

POLAND CHINA BOARS

By A Wonder Hercules and A Longfellow. The real big kind.

JAMES NELSON, R. 1, Jamestown, Kan.

Poland China Pigs

The big smooth kind that will do you good. Priced to sell.

O. D. Close, Gorham, Kansas

Big Type Poland Chinas

Spring pigs by Caldwell's Big Bob and King Jumbo, \$25 if taken soon.

SOWERS BROS., DUNLAP, KANSAS

BIG TYPE POLANDS

Home of Aggie Buster; spring boars; Evolution-Gerstale, Big Bob Wonder breeding.

J. Rahe & Son, Waterville, Kansas

POLAND CHINA HOGS FOR SALE

Anything you want in blood lines of Big Hadley Jr. and Big Sensation.

C. S. WALKER, MACKSVILLE, KANSAS

IMMUNED REG. POLAND CHINA BOARS

Grandsons of Buster Over. Farmer's prices.

John Laws, Hartford, Kansas

this issue will be 10. advertisement which contains much valuable information about the sale. By looking it over you will readily see there is a world of merit in this big semi-annual sale at Wichita this time. Real rivalry of a good natured kind exists when it comes to consigning animals to these association sales and every member of the association that consigns feels like putting in something that will advertise his herd. It has got to the place where the sale manager needs hardly to insist on the good ones as he once did because the breeders are willing to consign good ones or lay out for this time and come in when they have something good that they can spare. There will not be a common individual in this sale. Look up the advertisement in this and preceding issues and better still get the association catalog which is now ready to mail. It is a great story this time and you will find it very interesting reading. Write for it at once and address, Sale Manager W. H. Mott, Herington, Kan.—Advertisement.

BY J. T. HUNTER

Buell's Polands.

C. M. Buell of Peabody, Kan., is offering a good lot of Poland China spring boars. They are of Orange, Dishers Giant and Gerstale Jones breeding. If in need of a good boar write Mr. Buell for description and prices. See his advertisement in this issue of Kansas Farmer and Mail and Breeze.—Advertisement.

Crocker Bros. Big Hereford Sale.

Crocker Bros. of Bazaar, Kan., have announced Nov. 30 as the date of their big sale of Hereford cattle. On that date they will offer 1,350 head of pure bred Hereford cattle at public auction. The offering will include 600 young cows, rebred and proven breeders, 350 yearling heifers, 200 early spring heifer calves, 140 early spring bull calves, 25 registered bulls ready for service, and 35 bulls coming two years old. The best blood lines of the Hereford breed will be found in this herd, and this will be the chance of a lifetime to buy high class pure-bred Hereford cattle. Look up their ad in Kansas Farmer and Mail and Breeze, and get ready to attend this big sale.—Advertisement.

Last Call for the Cherokee-Crawford County Shorthorn Sale.

Sixty-one head of Scotch and Scotch topped Shorthorns sell in this duo county sale at Columbus, Kan., Thursday, November 18. There will be 20 head of Scotch and 41 head of Scotch topped Shorthorns from fourteen of the best Shorthorn herds of the two counties and H. L. Burgess, Chelsea, Okla., consigns 11 Scotch cattle from his own herd. There will be 10 cows in the sale with calves at side. Don't forget the date. Look at the last two previous issues of the Kansas Farmer and Mail and Breeze for the display advertisement concerning this offering. There will be some real quality cattle in this offering. Ervin Evans, Columbus, Kan., manages the sale. If you have time write him for catalog. If you haven't time to write get on the train and go anyway because you will see an offering of good cattle.—Advertisement.

Geo. Appleman's Record Breaking Holsteins.

Geo. Appleman, Mulvane, Kan., owned the Holstein cow, Irene Sarcastic De Kol, that the past summer won grand championship at state fairs of Missouri, Iowa, Nebraska and Kansas and then went on to the national dairy show at Chicago and ranked next to the grand champion cow at that place. By many good judges of Holsteins she was considered the better cow of the two. Just recently one of Mr. Appleman's cows, Lettie Segis Clothilde, by King Segis Aagle Clothilde out of Princess Lettie De Kol 2d, established a new 7 day record for senior three-year-olds in Kansas. She produced 28.35 pounds of butter fat and 603 pounds of milk in that time. Mr. Appleman is one of the most responsible Holstein breeders in the country. He has good Holsteins and will consign a few to the Holstein sale at Wichita, November 29 and 30. Among these will be a daughter of the grand champion, Irene Sarcastic De Kol. Write him about this good cow. Please mention the Kansas Farmer and Mail and Breeze.—Advertisement.

Sid Replogle's Durocs.

During the past year and the year before that, the abnormal spread between cost of feed and market price of livestock forced farmers to sell their livestock to avoid financial loss. Livestock of all kinds especially hogs, is now very scarce in Kansas and the Southwest. Crops everywhere this year have been good and the abundance of feed is making itself felt in greatly reduced prices for feed. Any farmer might well buy a few bred sows or hogs of any kind and market his crop on the hoof and thereby get more out of his crop than he can any other way. At the present prices, purebred hogs would make a good buy and farmers should take advantage of this condition before they raise in price, as they certainly will before long. Read the card advertisements in this paper and see what is being offered. One of the advertisers, Sid Replogle, Cottonwood Falls, Kansas, has some good registered Durocs, spring boars and gilts, fall boars and weanling pigs for sale. That is an assortment from which you can get what you prefer. Replogle is a successful farmer who raises purebred Durocs along with farming and knows what farmers like and will make good under farmer conditions. He has sold lots of Durocs by mail order and sends his hogs on approval. If the buyer isn't satisfied, he may return the hog and Replogle pays transportation both ways. The old herd sire is Fancy's Victor by Fancy Col. out of Belle of Iowa. The younger herd sire is Jack's Great Orion by Jack's Orion King 2d, the 1917 national grand champion. The dam is a Great Wonder sow. The dams are popular bred also. A letter to Mr. Replogle will receive prompt reply. Please mention Kansas Farmer and Mail and Breeze when writing.—Advertisement.

Zink Stock Farms Durocs.

Altho the name "Zink" would stand near the foot of a list of names arranged alphabetically yet it would stand well nigh the top of a list of names arranged in order of importance in Duroedom in the West and Southwest. There are three men who own and manage the Zink Stock Farms near Turon, Kan. They are the father who has turned over to the two sons the active management of the farms and keeps pretty much out of the limelight, the older son, Willard, and the younger son, Virgil. Naturally, the older son is sort of king pin of the organization. He is especially good at breeding and developing hogs but notoriously poor as a showman at state fairs.

DUROC JERSEY HOGS.

Poland China Boars and Gilts

Spring farrow and big, well-grown kind. Farmers' prices. Also bargains in late summer and fall pigs, either sex. Papers right with the animal.

P. L. BAILOR, ONEIDA, KANSAS

GOOD BIG TYPE POLANDS

Herd boar, fall boar, spring boars and gilts. Prices reasonable.

C. H. KAYSER, BUSHONG, KANSAS

GUERNSEY CATTLE.

FOR SALE HIGH GRADE GUERNSEYS

Twenty-six high-grade cows and heifers; 16 in milk or fresh soon; also registered Guernsey bull 3 years old; Glenwood and Lord Mar breeding. Price for the 27 head, \$2,500.

Arthur A. Patterson, Ellsworth, Kansas

Guernsey Cattle For Sale

One registered Guernsey bull, past 1 year old; one registered bull calf; two high-grade bulls, serviceable age; five grade Guernsey heifers; six head of Jersey and Guernsey cows. Write for photos and prices.

Dr. E. G. L. Harbour, Box 113, Lawrence, Kan.

ONE REGISTERED GUERNSEY BULL

Two bull calves, sire Elroy, grandson of May Rima. Roy McNeal, Eldorado, Kan.

GALLOWAY CATTLE.

REGISTERED GALLOWAYS

Three young cows with calves, one bull.

Geo. Liston, Eudora, Kansas

REGISTERED GALLOWAYS

Bulls, cows and heifers. Fashion Plate, Silver Lake, Kan.

POLLED SHORTHORNS.



Polled Shorthorns

None better for the farm or ranch. One of the largest herds in the West. Some of the best of the breed. Forty males and females for sale. Prices cut \$25 to \$50 per head.

J. C. Banbury & Sons

Phone 2803, 1 mile west of Plevna, Kan.

10 POLLED SHORTHORN BULLS

Big husky reds and roans 12 to 20 mos. old. Priced to sell. Can spare a few females.

C. M. HOWARD, HAMMOND, KANSAS.

SHORTHORN CATTLE.

Amcoats Shorthorns

12 bulls, 7 to 13 months, including pure Scotch, Roans, red and white. Also Scotch and Scotch topped females. Write for descriptions and prices.

S. B. Amcoats, Clay Center, Kan.

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15 for sale by Choice Cumberland and other noted sires. They are of the right merit and of the richest ancestry. Good females in calf to Dale's Emblem, a great prize winning son of Dale Clarion.

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Strong in Villager and Maxwellton blood. Bulls for the farmer and breeder.

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Fifteen Shorthorn Bulls

All of breeding age, by Sultan by Village Beau. Reds, roans and whites, Scotch and Scotch topped. Also a few females.

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SUNFLOWER SHORTHORNS

Herd headed by Golden Laddie. Some extra good young bulls and a few females for sale. No Sunday Business.

J. A. PRINGLE, ESKRIDGE, KAN.

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FOR SHORTHORN BULLS

All ages. Address

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SHORTHORN BULLS

For sale, 10 Scotch and Scotch topped bulls 10 to 14 months old. Also my herd bull, King's Choice 452993. Write or come and see them. A. M. Markley, Mound City, Kan.