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The FARMERS MAIL AND BREEZE

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Raise Pigs and be Prosperous

By W. L. Blizzard
Animal Husbandman

THIS COUNTRY today is facing the highest prices in the way of foodstuffs that have been known for many years. Meat is one of our most substantial articles of diet and the demand for it will always be strong. In view of these conditions it behooves every farmer to study the matter of pork production thoroly.

There may be some objections to going into the pork business. A few years ago the most serious objection was the frequent ravages of hog cholera. At the same time shipping facilities were bad, prices were low and all these conditions had a tendency to discourage pork production. Most of these objections have been removed and many other problems have presented themselves during the past year. The man who is successful in these times must make a thoro study of the hog business. All will agree that it takes some real thinking and figuring to make the hog business profitable. Haphazard, careless methods will not spell profit to the hog raiser. The man who contemplates producing pork during the next year will find it necessary to give consideration to some of the following things: Kind of hogs, feed, care, and marketing.

All will agree that there is a right kind and a wrong kind. I do not mean by this that any one breed is best. It is not a question of breeds; it is a question of individuality.

We will assume that a man wants to raise hogs entirely for the market. This being the case it will be necessary for him to keep a herd of brood sows which in these times seems to be the logical thing to do. In the open market, breed makes no difference, but if you will watch the packers buy hogs for a short time you will soon discover that he likes uniformity. The buyer likes a carload of fully developed, even, well fattened hogs all of the same type. A carload lot of lard and bacon hogs mixed, or even worse, crossed in breeding, will not sell as well as the uniform lot. A carload of even size, the same color, smooth and of practically the same mold in form will bring a premium every time. If you were to take the same bunch and add a half dozen or more different colored hogs or put in three or four thin sows it would change the evenness and attractiveness of the bunch at once. You simply add a discount instead of a premium. Many men make a living around the stockyards by sorting and evening up bunches of hogs.

In producing market hogs that are uniform it will be necessary to lay emphasis on the following things: First, select sows that are of good form, prolific, and easy feeders; second, choose the right kind of a boar.

The sow that has good form will have size, length of body, an arched back, broad and roomy full hams, full around the heart, rather light in the neck, and should be supported with legs that have the bone pastern and foot. The sow should have 10 perfect teats or more. The sow that makes no show of udder is seldom a good milker and should be rejected. Many swine raisers feel that the reason small litters prevail is because no attention is given to prolificacy. Surely a sow that raises eight pigs is more profitable than the sow that raises only four and five.

It is profitable to retain year after year the large motherly sow that has proved herself a reliable breeder, that is dependable to produce a large litter of pigs of good size regularly and raise them well with quick growth and early development. Select the sows from good growing ancestry that have the tendency to make the best of all they eat.

The progressive farmer has shown time and again the advantages from a money point of view, in improving his stock of pork hogs by introducing a good boar and a few good sows. Have your boar the same type you would have in the feeding pen. If you wish to get the best results remember the old saying is still true, "Like begets like," the same in a boar as in a bull. Select for the right type because there must be some definite type fixed. As someone has said, "Think well into the market values of your ideas, and then go ahead." Use nothing but registered boars in your herd because each cross of pure blood will increase their market value. Not long ago at Sni-A-Bar Farm, Grain Valley, Mo., a lot of Shorthorn steers which had two crosses of purebred were valued at $3 a hundred above those which had only one cross. Both lots of steers had received identically the same feed and care. If this is true of cattle it is just as true of hogs.



Feeding is a necessary factor towards making a success in the swine industry. There are a number of feeding problems which present themselves in producing pork at this time:

First, a combination of feeds seem to be the most desirable. Some combinations that are advisable at this time are corn and ground barley together with tankage or skimmilk, ground barley and tankage, ground kafir and ground barley with tankage, ground corn and ground oats with tankage or skimmilk, and corn and tankage. Where wheat shorts are available they can be used as a substitute in many of these rations. Remember the profit of feeding depends upon the cost of the feed given them. Therefore, anything that cheapens the feed increases the profit.

Second, rye, wheat pasture or alfalfa pasture are especially desirable to cheapen the cost of producing pork.

Third, the self-feeder has an advantage in feeding hogs for the market.

Fourth, regularity of feeding, watering, and housing, all have their part in bringing large and economical gains.

Fifth, the feeding pig and the brood sow should be kept free from lice, as they cause unthriftiness, rough coats, bad skins and poor gains.

The marketing situation during the past two months has not been altogether satisfactory. Many feeders have been afraid to hold their hogs for January and December markets lest the close of the European War might cause a sharp decline in prices. Anticipating this fear the Food Administration and the Packers' Committee have already announced a minimum price of $17.50 for December in order to stabilize the market.

The exports of 130 million pounds of pork products for October, compared with about 52 million pounds in October a year ago, and the export orders placeable by the Food Administration for November amount to 170 million, contrasted with the lesser exports of 98 million for November, 1917. The increased demands of the allies are continuing and are in themselves proof of the necessity for the large production for which the Food Administration asked. The increase in export demands appears to be amply sufficient to take up the increase in hog production, but unfavorable market conditions that existed in October afford no fair index of the aggregate supply and demand.

It must be evident to all that the enormous shortage in fats in Austria, Germany, Bulgaria, Russia, Turkey and other countries of the Old World, now since peace has come, will result in great additional demands for pork products which will tend materially to increase the American exports. In fact, it seems quite likely that the present prospective supplies will be entirely inadequate to meet the demand of the world now that it has returned to a peace basis. The Food Administration declares that so far as it is possible to interpret this situation, it seems that there will be even a stronger demand for pork products after the war, and therefore any alarm of hog producers as to the effect of the peace that has just been arranged is entirely unwarranted by the present outlook. The ability of the packers to maintain the minimum price of $17.50 a hundred for hogs put on the November and December markets will depend of course on there being a normal marketing of hogs based upon the proportionate increase over the receipts of last year.

The increase in production this year is estimated to be a maximum of approximately 15 per cent, and the packers state that they can handle such an increase without any great difficulty.



The Buyer Likes a Carload of fully Developed and well Fattened Hogs all of the Same Uniform Size and Type.



If We Had to Go Back to It

Suppose we had to go back to the horse.

Suppose at the stroke of midnight every automotive vehicle in the United States was put out of commission.

Can you picture what would happen next morning?

Think of the confusion in the city among lawyers, doctors, merchants and skilled workmen. Think of the waste of time right on your own farm if you had to do without your motor car, truck and tractor!

The motor car has become the car of the workers on the farm, just as it has in the city—it conserves time and energy, it extends the owner's sphere of usefulness—it is a more and more essential factor in transportation.

For that very reason, sound construction and reasonable cost of maintenance have been of increasing interest to car-owners.

Buyers differ in opinion as to body-lines, seating capacity, number of cylinders and so on, but all demand performance.

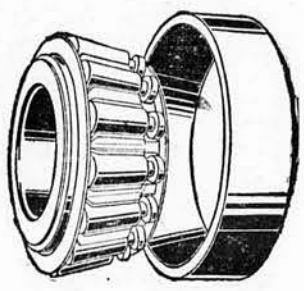
From the beginning of the industry to the present day, the service of Timken Bearings in standing up to their own job and in also safeguarding the important power transmitting units from the effects of unnecessary wear, has been more and more widely recognized.

There are this year more motor cars and tractors in use with Timken Bearings than ever before, and the number is rapidly increasing.

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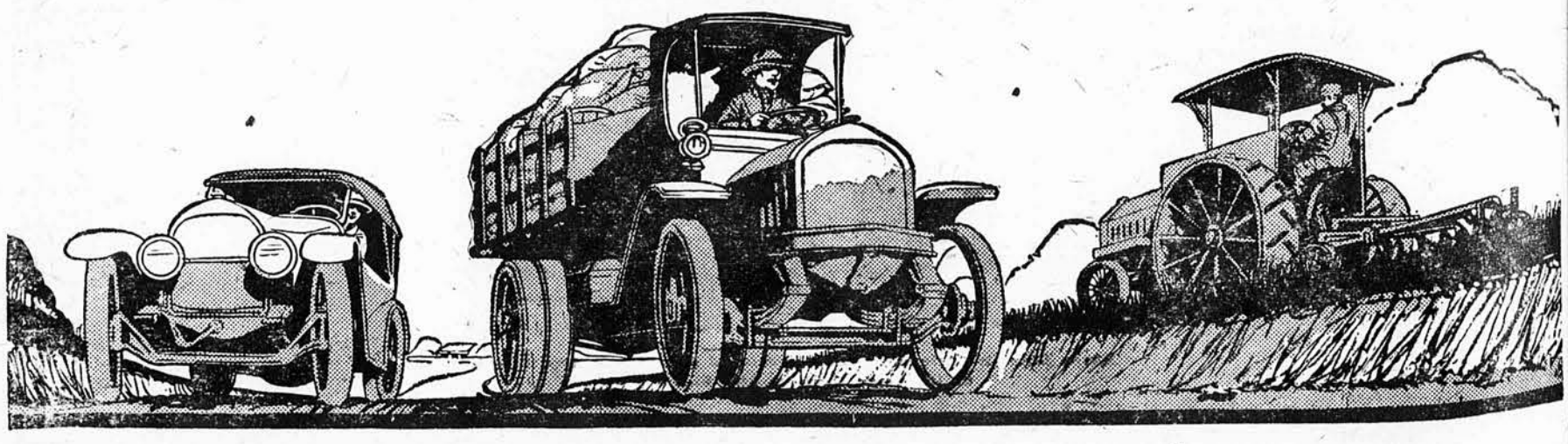
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FOR MOTOR CAR, TRUCK & TRACTOR



Country Talks Fresh from the Farm

Rural Folks Discuss High Cost of Living, Raising Poultry, Growing Alfalfa, and Trapping as a Means of Increasing the Income During Winter

Arranged by John W. Wilkinson
Associate Editor

READERS of the Farmers Mail and Breeze are requested to make free use of its columns to express their views on any subject that they consider of interest to the public. Next month we would like to have our farmer readers give us a heart to heart talk on their farm experiences this year. The subjects recommended for discussion are: "My Most Useful Farm Implement," and "My Most Profitable Crop in 1918." We don't ask you to do this work for nothing but we will pay you for all the letters we accept and publish. Address all letters to John W. Wilkinson, Associate Editor, the Farmers Mail and Breeze, Topeka, Kan.

My Experience With Alfalfa

I have 240 acres of alfalfa on the fertile bottom of the Verdigris River which makes 4 to 5 tons an acre in any ordinary year. It is the best of feed for nearly every kind of livestock. My hogs do exceptionally well on alfalfa hay in the winter.

Almost any deep, black land will grow good alfalfa. Of course it often does quite well on upland, but it does not prove as profitable as it does on bottom land. I find that alfalfa is the best fertilizer that can be had for the soil.

It takes about 10 men and five teams to handle my hay crop, and it certainly gives you all the work you want for a long time. Nearly every year it keeps us busy harvesting from April 5 to November 1. We never have any idle days, but we never have found it necessary to work on Sunday.

Independence, Kan. C. C. Romig.

Wants a Rat Killing Day

Altho I now am a resident of Missouri, I formerly lived in Kansas. I still own a good farm in Nemaha county and I am sorry to say that not only this county but the whole state of Kansas is being over-run with rats. While I think Governor Capper has done more for Kansas than any other man, I think he could add another good deed to his excellent record by setting aside a day or a week for killing rats thruout the state.

At the same time I think it would be a good plan to offer suggestions in regard to the best method of exterminating these pests which cause the loss of thousands and thousands of dollars.

St. Joseph, Mo. F. P. Halsey.

Makes Money With Poultry

We have just had a good rain and the thousands of acres of wheatfields of Southern Kansas are all looking fresh and green. Butler county certainly has 4 acres of wheat sown this year to every acre it had last year.

Corn and kafir made light yields, but small grains were very good this year in our county. However, we are very short on poultry and many are saying that it doesn't pay to keep chickens when feeds are so high. However, it seems that we are fortunate in having a breed which does not impose upon us in that way. Our flock has shown a good profit above all the high cost of feed.

We have the finest flock of Single Comb Buff Leghorns in Kansas. At present we have 75 cockerels that are fully matured and the best we ever had. They are the cream of 1,200 that were hatched this year. We have found the year as a whole a very profitable one in poultry raising. Our favorite Buff Leghorn rooster and our little boy are great friends. Their favorite pose is "The First Call for Lunch."

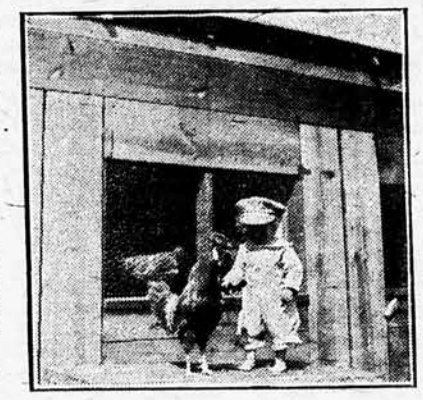
Mrs. H. A. Haines.

Rosalia, Kan.

The High Cost of Living

In order to reduce living expenses we try to produce as much as possible of our living from the farm. We raise our own wheat for flour, corn for our meal, and we also raise cattle, hogs and poultry and butcher them for our meat.

We feel that we are being forced to pay exorbitant prices for our clothing and think that there ought to be better methods of price control. All the members of my family wear respectable clothes on Sunday, but we lose no time in getting into our old clothes when we get ready to do our work or our chores. Cotton overalls and blouses are the farmers' work clothes. Their present high price is caused by the high price of raw cotton which the Food Administration refused to regulate when it fixed the price of wheat. We feel that we are paying at least 25 per cent too much for our clothing. We do not consider a profit of 10 per cent enough for the retailer, but think that a 15 per cent margin would be fair for dry goods. We think that the grocer should have a somewhat larger profit than 10 per cent on account of the perishable nature of some of his goods, but this does not justify him in charging 30 cents a peck for turnips that he bought at 35 cents a bushel. It is plain to be seen that if the National Food Administration would regulate clothing, shoes, hats, dress goods and everything just as it fixed the price of wheat it would be the best for the consumer and all concerned.



First Call for Lunch.

Valley Falls, Kan. M.M.Maxwell.

How to Get Gophers

I find the entrance to their tunnel or runway, and then take a knife and cut a hole large enough in the tunnel to hold the trap. When the trap has been set, cover the top of the hole with a piece of cardboard having a small opening in it about the size of a half dollar. Cover the outside edges of the cardboard with plenty of dirt and then stake the trap securely. I usually have very good luck with a No. 1 steel trap.

Edward Schroeder.

Kinsley, Kan.

To Catch the Muskrat

When I desire to catch a muskrat I set a No. 1 trap at the foot of the slide, and slightly cover it with water-soaked leaves usually found in the bed of the creek, or set a trap in the entrance of the den.

If you use bait, pieces of ear corn, carrots, or apples are good. Put the bait on a stick about 10 inches above the trap.

L. J. Barnes.

Palmer, Kan.

Trapping Increases Farm Profits

A very good way to help your country and also yourself is to do as much trapping this season as possible. It is interesting not only for the money that you get out of it, but for the real sport that it affords.

One of the most common fur-bearing animals is the skunk. A very good set for the skunk is to make a wall of stones about 10 to 12 inches high and from 2½ to 3 feet in circumference. This wall should be in the shape of a ring with a small opening or passway on one side. Put the bait in the center of the ring and place a No. 1½ trap in the passway. Another set easily arranged is to place a dead hen about 18 to 24 inches above the ground on supports and put a No. 1½ trap below the hen, and cover the trap lightly with leaves.

To skin a skunk begin by cutting the fur off the hind legs and tail. Then pull the fur off with your hands. Be careful not to pull too fast or you will ruin the fur. Pull the skin from the head in the same careful way. After skinning the animal stretch the hide carefully on a thin board. Be sure to scrape all the flesh from the hide. There is always a good demand for this kind of fur. The money made from this work will help you to buy War Savings Stamps and Liberty Bonds.

Roy C. Holt.

Bridgeport, Kan.

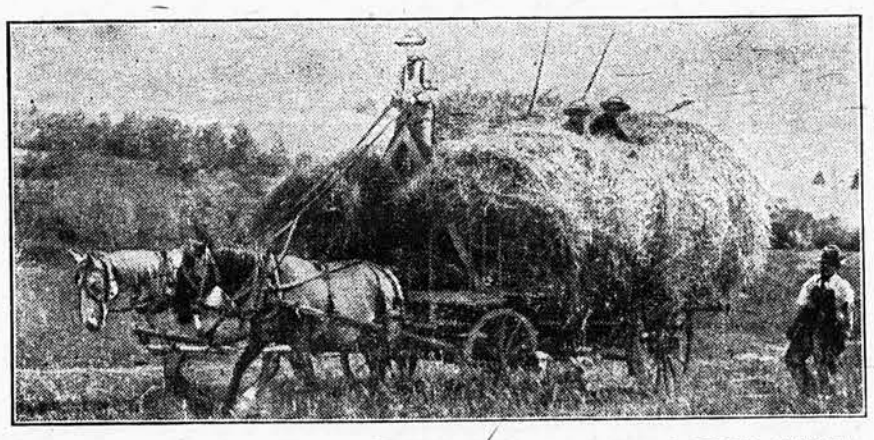
The Mink is Crafty

The mink is the wisest and craftiest animal that I have trapped and it takes an experienced trapper to catch very many of them. The best plan is to go along the water's edge of some stream until you come to a steep place in the bank. When such a place is found dig a little pocket in the steep bank about 8 inches in diameter and about a foot back. Then get a piece of some kind of fresh meat and peg it securely to the end of the pocket. Next set a No. 1½ trap on each side of the pocket and make everything look as natural as possible.

When the mink comes out at night and tries to get the meat he will be sure to get caught. Gloves should be used for setting traps so that the smell of the human hand will not be left on the trap when it is set.

J. H. Blasius.

Idaho Falls, Idaho.



Bringing in the Last Load of the Season. A Mow Full of Alfalfa Will be Worth More This Winter Than Ever Before.

Look for Badgers in Burrows

The trapping season is here again, and the war prices for pelts make easy pocket money for those who like to roam the woods along the creeks and rivers. A few good steel traps and necessary trapping supplies will insure success and plenty of ready money.

Some skins should be taken off, some should be cased, and some should be open. The mink, skunk, opossum, muskrat, white weasel, and civet cat should be cased. The coyote, badger and raccoon skins should be taken off open. All furs should be stretched and dried in a cool shady place. Heat and sunlight spoil them.

Badgers usually live in burrows which they dig for themselves. Traps should be set at the entrance of their dens. Stake the trap down securely, as badgers are strong and put up a stiff fight. Cover the trap loosely with leaves or small pieces of rotten wood.

Agra, Kan. Alfred J. Willis.

Raccoons Stay Along Creeks

Raccoons stay along creeks and walk along the water's edge at night. Stake your trap well and set it 3 or 4 inches under the water. Place a piece of tinfoil, glass or anything else that is bright and shiny upon the pan of the trap.

The raccoon is full of curiosity and when he comes along he will investigate the shining object in the water and falls an easy victim to your trap. As he is strong and hard to hold you should use a No. 1½ trap. Boil the trap well in lye water before using. Put on gloves when setting the trap in order to leave no scent of the human hand on the metal.

Pleasanton, Kan. Zack Whinery.

My Plan for Coyotes

The first important thing is the bait. Nothing is so good as an old dead horse if one can be found. Drag the animal to some protected ravine frequented by coyotes. Cut off the legs and head, and use them for baits for five traps which should be set around the body of the dead horse. Dig holes for the traps and fasten the traps with wire and chains to strong pegs or iron pins.

Pieces of chicken, turkey, duck or rabbit meat also may be used for bait. Cover the trap lightly with loose dry leaves, dead grass or trash. It is not necessary to change baits every day as some persons imagine. My advice to beginners is to send to some fur and hide company for trappers' guides. Get several of them and study them carefully, and if you follow their directions faithfully you are sure to be successful.

Ned Boles.

Kersey, Colo.

Best Method for Opossums

The best method for catching the opossum is to set your trap on a drift or in a hollow log, or sometimes in an old hollow tree. Cover the trap with old drift wood, dry leaves or dead grass. Use rabbit meat or chicken for bait on the trap.

R. E. Pearce.

Garland, Kan.

Civets Like Straw Stacks

Civets usually may be found around straw stacks. Take an old box about 4 feet long, 1½ feet wide and 1½ feet high and remove both ends. Set the box near the edge of the straw stack and drive stakes into the ground to which the traps can be fastened. Make a runway at each end of the box wide enough to hold a No. 1 trap. On both sides of the runway pile straw so that the civet will have to go right thru the narrow runway where you have set your trap.

Put pieces of raw chicken or rabbit meat in the center of the box to attract the civet. Sprinkle civet scent bait in the middle of the box and also at each end in the runway. Set the traps and cover them lightly with a thin covering of straw. They may be caught almost any time with this arrangement, but when a light snow is falling is the best time. Skunks also may be caught with this arrangement as they frequent the same places and have similar habits of living.

Marysville, Kan. Wm. Knodel.

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Passing Comment—*By T. A. McNeal*

Thanksgiving

IN ACCORDANCE with a long established custom the people of the United States will celebrate Thanksgiving, next Thursday, November 28. Whether a majority of them will actually and seriously consider what they have to be thankful for is a question. It is probable that to most persons Thanksgiving means something extra in the way of a dinner, and that is about all. Only a minority of them even go so far as to attend church on that day.

Well, it is not my purpose to do any preaching on this occasion. The candid fact is that my own observance of Thanksgiving as a rule is only perfunctory, so I have no right to read any lessons to anybody. However, if there ever was a time when the people of the United States had a special reason for feeling thankful it is now. The greatest and most destructive of wars has ended, and with it the overthrow of the most brutal and dangerous autocracy in the world. That this happy finish has been brought about by the timely intervention of the United States is acknowledged freely by our allies. Fortunately it has been brought about without the sacrifice of a great number of American lives. True a good many American homes have been saddened, but the loss has been so much less than was generally expected that we have reason to rejoice and be thankful. Within a comparatively few months we have reason to hope the boys will be coming home again, and that is enough reason in itself for being glad and thankful. While most fortunately their period of actual service on the fighting line has not been so long as we had reason to fear, it has been so glorious that the heart of every loyal American must swell with pride. That record of the boys is plenty, just considered alone, to justify a day or a week of special thanksgiving. It isn't just because the young men have shown that they are brave and resourceful that we have reason to feel thankful; but their general conduct has shown that the fate of the republic is safe in their keeping. And in my opinion it will be in their keeping for several years to come. I rather think that these young men when they come back to civil life will have a large part in shaping the policies of this nation. We at home have suffered practically none of the privations and none at all of the horrors of war. When we read of what the people who have been caught in the awful maelstrom of war have had to suffer we certainly ought not only to feel profoundly thankful ourselves but we ought to feel a renewed obligation to help those who have been the innocent victims.

The truth is that our people generally have been prosperous, and perhaps more than ordinarily comfortable. Crops generally have been excellent and prices far above the ordinary. We have occasion to rejoice and be exceeding glad. The eyes of the world are on the United States today. The people of every land are looking to us to help them and show the way toward permanent peace and a higher order of human liberty and opportunity than ever before, so that while more than any other people we have reason to be thankful we ought to be sobered by the weight of responsibility that has been placed upon us.

A Better Civilization Needed

"We were much interested," says D. H. Johnston, of Clayton, N. M., "in your recent article in Passing Comment, entitled, 'What of the Future.' In it you lay down the proposition that the prime cause of the ills which afflict the world is exaggerated human selfishness, which would have been entirely true, understandable, and irrefutable if you had added to the sentence the words, 'enacted into laws that govern the inhabitants thereof.'

"The proud civilizations of Babylon, Assyria, Egypt, Greece, and Rome were built on the sufferings and wrongs of the great mass of common people, upon chattel slavery, exaggerated human selfishness enacted into laws that governed and regulated those civilizations. The privileged few who controlled their destinies either did not understand what was fundamentally wrong, or understanding, would not permit the lawful and orderly changes necessary to promote the welfare and happiness of the human race, consequently when the human race arrived at a certain stage on its journey of progress, it destroyed those civilizations.

"It is now becoming clear to all that our present day civilization is a system of legal exploitation and regardless of whether we are selfish or not, it gives by law its greatest rewards, not to the producer, but to those who take without compensation the results of human effort. If we are ambitious regardless of whether we are selfish or not, the incentive is not to produce but under the name of profit, interest, and rent to take lawfully without compensation the result of the efforts of those who do. When our civilization no longer compels us to devote our time and energies to both the resisting of exploitation and the exploitation of others; when it is no longer possible to take legally the results of others' efforts without compensation, under the name of profit; when the prosperity of one is no longer lawfully built on the misery of others; when our civilization legally guarantees to all the use and enjoyment of human effort; then our selfishness will spur us to produce, invent and create that we may have to enjoy and use. Then also all that was worth while of those ancient civilizations which only the few enjoyed, together with all that has been gained by toil and suffering since, will be in reach and at the command of all mankind and our civilization resting on social justice enacted into law will be secure."

Maybe the ideal state will sometime come when the prospect of profit will no longer be necessary to spur human endeavor, as Mr. Johnston seems to think, but in the language of the Scotchman, "I ha me doots" about it.

Price Fixing

It seems that the question of price fixing provokes interminable argument like the question of baptism. I am now receiving about as many letters on one side as on the other and if I had the space to print all of them they would not settle the question. The man who feels that he could have sold his wheat for a higher price if there had been no government regulation will not be satisfied by any argument to the effect that price fixing was a good thing.

I also note among the letters received, just before the election that politics was being injected into the question. A most ardent Democrat from the southern part of the state deemed it to be his duty to assert in substance that whatever the Democratic party does is right and then as he imagines, clinches his argument with the assertion that he takes an "unbiased" view of the situation.

To my mind the most amusing cuss on earth is the hide-bound partisan. One of his pet obsessions nearly always is that he is absolutely fair-minded, and that the man who opposes him is either a fool, an ignoramus or a designing rascal.

Really there is not much to be gained by a further discussion of the price fixing question. Personally I have seen no reason to change my mind since the action was taken. I thought then and still think that in the long run the wheat raisers were benefited by the price fixing. I also thought then and still think that the price fixed was high enough. I also thought then and still think that the same rule should apply to other necessities as to wheat. I thought then and still think that politics hindered the bringing of that about and that it was unfair. Nevertheless, I would not advocate doing away with the price on wheat. As I write this I am convinced that the Great War is nearly over and that it is quite possible the price of wheat may fall below $2 a bushel next year if there was no government guaranty. I do not know this of course but that is my belief. Therefore, I think fixing the price to cover the next year's crop will prove to be a benefit to the wheat raisers. In fixing the price of hogs I am of the opinion that the minimum is too low, but if the price of corn should drop to a normal figure then the minimum is high enough. Experienced hog raisers agree that 13 bushels of good corn fed with good judgment to good hogs will produce at least 100 pounds of pork and, perhaps, a little more, so that multiplying the price of a bushel of corn by 13 and making that the price of 100 pounds of pork would give the hog raiser a good profit. At the time this is written corn is selling on the Kansas City market at from $1.42 to $1.50, an average, perhaps, of about $1.46 a bushel. On that basis the price of hogs ought to be fixed at $18.38 a hundred. Outside of the Kaw Valley and a few other favored localities, Kansas this year raised one of the lightest corn crops in her history, so that most of the Kansas farmers who undertake to fatten hogs this fall must either substitute some other kind of feed or buy the corn they use. It is certain that they cannot buy corn at present prices and fatten hogs without losing money. It may be a patriotic thing to raise hogs at this time but the farmer ought not to be asked to raise them at a loss.

Dynamite in the Situation

Every day it is more evident that the allies have a job ahead of them almost as serious as the war itself. The situation is full of dynamite. The old evil, autocratic governments of Germany and Austria have been swept away, but there is a possibility that they may be succeeded by anarchy. The specter of hunger and desperation stalks in Europe. There is a possibility that the very forces of militarism and autocracy may make common cause with the forces of Bolshevism. The junkers and military chieftains probably dread the kind of democracy we have here in the United States more than they dread the Lenines and Trotzkys. It is not improbable that they would prefer to see anarchy rather than to see their own rule superseded by the rule of a peace-loving and war-hating democracy. The greatest breeder of anarchy is hunger, and most all of Europe now is hungry. There is however no use to grow pessimistic over the situation. Of course it contains possibilities for disaster. There is dynamite in it which may explode if not carefully handled, but on the other hand the people of the world, that is a vast majority of them, are longing for peace. They want no more war and bloodshed. It is this almost universal longing that will prove the most potent influence to prevent anarchy, for the people know there can be no peace with anarchy.

So without minimizing the difficulties that lie in the way of the peace conference, I am feeling hopeful about it; hopeful that there will be so much wisdom and moderation displayed that the danger may be averted. After awhile there will be a readjustment of the means of distribution. The hungry will be fed, and let us hope people will settle down to their regular avocations, and orderly government will be established. Then let us hope will be developed the league of nations to prevent war, to establish world-wide justice and freedom of opportunity. At any rate pessimism will not help the situation but make it worse.

Plant Orchards

One of the discouraging sights in Kansas, so frequently encountered, is the neglected orchard. It is true that the series of dry years Kansas has experienced has been hard on trees of all kinds, the apple trees being no exception; but dry weather is not the only cause for the dying out of the orchards. Very few have any particular care. The borer and other insect enemies have been permitted to do their work unhindered.

There are, perhaps, several reasons for the neglect of orchards in Kansas. Most of the farmers are short of help, crowded with their regular farm work, and without time to care properly for their orchards. In the second place the orchards have not generally paid well, and the impression seems to be common that an orchard is unprofitable. I believe an orchard if properly cared for is a profitable investment, but even if it were not I should still urge Kansas farmers to plant and care for their orchards.

About the pleasantest recollection of my boyhood on the farm is the old orchard. It wasn't as good an orchard as it might have been either. When my Irish grandfather came out into the wilderness of Central Ohio he brought with him from Pennsylvania a peck or maybe a half-bushel of apple seeds and planted them as soon as he could get the ground cleared of the dense woods. I do not know whether the seeds came from poor varieties of apples, but their product was not very good. Some of this natural fruit was so sour that the cider made from it did not need to ferment to become vinegar. The apples were so sour they would

pucker the mouth of the eater like an unripe persimmon, and he whistled when he breathed. There are others which were a bitter sweet and they were worse than the sour apples. But there was one thing to be said for these trees grown from the apple seeds of grandfather's planting. They were hardy and vigorous growers. Finally a man came along who understood the art of grafting and grandfather turned him loose in that orchard. He put in some of the best varieties of apples ever grown. There were the delicious Rambo apples which ripened in the fall and filled the air in the Indian summer with the delicate and delightful perfume that goes with that fruit. There were the Gate apples, the Golden Pippins, the Russets, the Rhode Island Greenings and the Winesaps all of them my favorites. The grafter seemed to have been possessed of a queer sense of humor. On some of the trees he grafted three or four kinds of fruit, so that in the fall a tree was a curious medley of Rambos, Winesaps, Golden Russets, Gate apples and maybe one or two other varieties.

A pleasant time of year was apple picking time, and one of the delights of the year was going to the neighborhood cider mill with a load of apples. So far as profit was concerned I do not think that was taken into consideration. I do not know whether, if accurate accounts had been kept, that orchard would have shown a profit or a deficit in dollars and cents, but in another way it was one of the best investments ever made on that old farm. There was the delight of apple blossom time when the air was filled with sweet perfume and the droning melody of bees. There was the tree with its early harvest apples. What country lad does not recall that old tree into which he climbed long before the apples were really ripe enough to eat with safety? He ate 'em just the same, however.

I do not know how it is now, but I know that in my boyhood if we had not raised the apples in our own orchard we would have had no apples, and I imagine that is true of a good many farmers' families now. Not having the home grown fruit they do without. I am satisfied that even if an orchard never showed a dollar of profit, if it supplies the family with enough apples for home consumption it is a bully investment.

If you do not care to go into orchard growing as a money making business, it is not necessary to have a large orchard. Two acres set with well selected varieties and these well cared for will provide an ample supply of fruit for any ordinary family. It is possible on almost any farm in Central or Western Kansas to put in a reservoir and wells operated by wind pumps and irrigate two acres. The trees must be cared for at the proper time to kill the moths which sting the fruit, and the bodies of the trees must be kept clear of borers. With proper care the finest of apples can be grown anywhere in Kansas. The best apples I have ever seen in the Topeka market were grown west of Hutchinson.

In the time which I hope is coming when the great corporation and co-operative farm will take the place of the present individual farms, great orchards will be planted and scientifically cared for, but in the meantime plant your small orchards and care for them as a matter of pleasure and health rather than as a matter of money making.

A Corporation Farm Experiment

Referring to your editorials in the Farmers Mail and Breeze in regard to corporation farming I wish to say that the idea has always appealed to me very strongly, and that your articles on the plan were quite interesting.

After carefully watching the remarkable growth of one centralized community I am more thoroly convinced than ever that the plan is entirely practicable, and that rural life can be made both attractive and profitable—more than ordinarily so.

Believing you to be interested in the study of any plans along this line I will submit the following for your consideration, and would be pleased to have your opinion as to its probable practicability.

I am organizing a "farms company" as the basis of a centralized co-operative community. Then we will select a large tract in a desirable locality and organize a colonization company for the purchase and development of the tract. Our aim will then be to organize a group of community-owned companies or associations for the development and maintenance of the business interests of a highly efficient, refined and restricted centralized community.

I have taken a course in agriculture with the American Farmers' school and am now taking a course in business administration with the La Salle university. I have been studying along these lines with the one purpose of devoting my energies to the development of this community plan.

The first of these organizations will be the "Liberty Farms company." Besides the usual officials the company will have an advisory board composed of a group of men who are specialists in their respective lines. The stockholders will be sent a monthly bulletin which will keep them informed on the progress of the company and the community plan. They will be allowed to purchase anything (livestock and seeds) offered for sale by the company at 5 per cent discount. From the first dividends the company will pay $10 for every stockholder to the publishing company which will be organized before that time. For this amount every stockholder will be classed as a registered member of the community or association; he will receive the community magazine for life; also a dividend-sharing certificate which will entitle the holder to an equal share in one-half of the declared dividends of the publishing company; he will also receive a like dividend-sharing certificate in the colonization company; he will be entitled to buy one liberty farm at cost, and if he does this, will be entitled to free consultation service of the farm company's advisory board, or if he becomes a resident member in the community this will be the service of the agricultural agent. The publishing company will lend the amount of all the $10 subscriptions to the colonization company to be used in purchasing and developing the community tract. For the same purpose the farm company will lend to the colonization company one-half of its net income for three years. The colonization company will set aside on the community tract enough land for the townsite, including parks; then it will reserve for sale to honorably discharged returning soldiers and sailors one-third of the tract, one-third for sale to the registered members. This will all be sold at cost. The cost of good roads and all community public utilities to be added to the original cost, of course, in order to determine the complete cost. The remaining one-third of the land will be held by the company or a subsidiary farm company. This will constitute the community corporation farm and will be operated by the company and the profits divided as above mentioned. The company will also farm the remaining two-thirds of the land until it is all sold. The total net income from this will be credited on the price of the land, lessening the "cost price" to the purchasers. Then the company will apply one-half of this amount to the community college fund and one-half to the community bank. The bank will lend this money to subsidiary business organizations and to home builders. The interest paid on the college fund will be used for free scholarships. All local business enterprises will be controlled by a board of directors, one to be elected by the resident members, one to be appointed by the company and one by the bank. After all expenses are paid and 10 per cent allowed the company, then the profits will be divided among the resident members in proportion to the amount of business done by them.

This is merely a brief outline of the plan. If you can suggest any improvements or care to give any advice or criticisms, will be pleased to hear from you.

WM. O. CRACRAFT.

Eckley, Colo.

I am not certain that I understand the plan Mr. Cracraft has in mind, but I am publishing his letter so that any readers of the Farmers Mail and Breeze who are sufficiently interested can write Mr. Cracraft for further particulars. If I have the correct understanding of the plan, it contemplates non-resident stockholders. I am of the opinion that this will not be satisfactory. I believe that every stockholder in the corporation farm should be a resident, and to the extent of his or her ability, a helper in the industries of the corporation. As I have just said, however, I may not and probably do not comprehend Mr. Cracraft's plan. At any rate I am glad to know that the idea is spreading.

There are certain things which must be carefully guarded against if the corporation farm idea is to be made a success. First, there is the selfish grafter who wishes to exploit his fellow men under the guise of an altruistic experiment. Secondly, there is the featherbrained crank who imagines that human nature can be made over in the course of a few months by the framing of certain laws and regulations. The same business sense must be applied to the corporation farm that has made other great corporations successful. It is entirely practical in my judgment, but if the project falls into the control either of grafters or cranks it will fail.

From a Cotton Raiser

In your paper of October 19 I notice some extracts from a letter written by one Adam Yakel, in which the gentleman claims that the wheat raiser is not getting a fair deal. From the tone of his letter I am led to believe that the writer thinks that crushing the kaiser, freeing the world from the menace of autocracy and militarism, and righting the wrongs of the people of Belgium and France, and sustaining the honor of our own great republic are all secondary to his personal interest in raising the price of wheat. He seems to think that some great injustice has been done to himself and the wheat raisers of Kansas because the price of wheat has been fixed and the price of cotton has not. The truth is, as has often been explained, our government had to buy great quantities of wheat, not only to feed our own armies in the field but also to provide wheat for all of our allies in Europe. The United States government is the one great wheat buyer of the world, and it was necessary not only for it to fix the price it would pay for the crop but also the price we should charge France and our other allies for their bread. To raise the price now to our poor struggling allies in France, England and Belgium would be to the everlasting disgrace of our country. It would be to take advantage of our own friends in this great emergency to increase our war profits. It would be coining the blood and soul of France to put more gold dollars into the pockets of the selfish profiteers.

But back to wheat and cotton: The writer of this letter raises both wheat and cotton, and wheat and cotton are the two great crops that we grow in this section of Oklahoma. Notwithstanding the fact that the government has fixed a definite price on wheat and has not fixed a price on cotton, there has been, and will be sown the greatest wheat acreage ever planted in the Southwest. Nearly all the cotton land that is not too sandy for small grain is being seeded to wheat. Ordinarily in this Washita valley country we can raise as much cotton to the acre as they raise anywhere in Texas. Then, why are we planting our country to wheat? Because we are assured a good price for our wheat and we have no assurance of the price we will receive for the cotton crop next year. As a cotton grower, while I am not criticising the government in this emergency, I would be glad if the price of the next season's cotton crop should be fixed, even if at 5 cents a pound lower than quoted at present on the market. If this was done now there would be less wheat sown this fall and more cotton planted next year. In 1914 we raised in the United States a very large cotton crop: the war came on and the foreign demand was cut and the shipping was almost stopped on account of the high insurance, and the price fell below the cost of production. Good cotton sold for from 5 to 6 cents (less than it would take to gather it now). The cotton raisers were up against it hard and there was much suffering among the tenant farmers of the South. Everywhere the people were urged to "buy a bale," yet the government never came to their relief nor bought up their surplus at a living price, nor at any price. The wheat raisers have no reason whatever to complain at their treatment by the government, nor to complain that the cotton raisers of the South are getting the best of it.

Now we shall turn to page 10 of the same copy of the Mail and Breeze. Here we find that a scientific agricultural expert has figured it out that a farmer is losing money when he sells his wheat at 1 cent less than $2 a bushel. If the figures presented by the gentleman are correct, then Kansas is hopelessly insolvent. But is this true—is Kansas hard up financially? No; the wheat growers of Kansas and of Northern Oklahoma are more prosperous than ever before. I note that Kansas farmers have big bank deposits and have no trouble in meeting their quota in the Liberty Loan drives. The fact is that Kansas has grown to be one of the richest agricultural states in the Union, and wheat has contributed more to its wealth than any other crop; perhaps more than all other crops combined, and the people are now getting a much greater price for their wheat than they have ever gotten before. It is a real pleasure to travel thru Kansas and to see the beautiful farm homes and fine barns, green fields and fine stock. Most of the farmers are happy and contented, but now comes their agricultural college president and presents statistics to prove that it is all a delusion, and the facts are that the farmers are on the eve of bankruptcy caused by raising wheat at $2 a bushel. The writer of the article referred to says: "It is of the utmost importance to the wheat growers to have definite figures to present to the government."

Then here are my figures: The professor estimates that the average yield of wheat is only 13 bushels an acre and I will make my figures on that estimate, altho we all expect to make 25 or 30 bushels when we plant. I propose to rent my acre at the average cash rental paid in this country and to hire every "lick" of the work done.

Plowing, and dragging, harrowing after tractor, 1 acre	$ 2.00
Cash rent for the acre	3.00
Seed wheat (¾ bushel)	1.50
Drilling the wheat	1.25
Harvesting (cutting and shocking)	2.25
Threshing out of the shock (13 bushels at 22 cents)	2.86
Hauling to market (average price 5 cents a bushel, 13 bushels)	.65
Total expense raising and marketing	$13.51
13 bushels wheat at $2	$26.00
Net profit on 1 acre	$12.49

As I rent the land for cash and hire all the work done I eliminate many of the professor's figures. I perhaps could not raise a single acre at the figures quoted, but I can raise and harvest 20 acres at these figures an acre and have pasture for the cows all winter and a good straw stack "to boot." Perhaps some of these figures do not exactly correspond to the prices for similar service in Kansas, but make any reasonable change and yet there is a big profit in raising only 13 bushels an acre and selling at $2 a bushel. The wheat raiser ought to be glad that the price has been fixed, for if the war should close soon there is no reason to believe that wheat would be as high as the price fixed now by the government. Let us all quit nagging and complaining and go on and do our bit.

Carnegie, Okla. DAN W. PEERY.

THANKSGIVING PROCLAMATION

BY GOVERNOR CAPPER

From the hearts of the American people there is rising unbidden, a mighty hymn of thanksgiving. We should be poor in thanks and poorer still in spirit, if America's annual day of Thanksgiving did not this year find us truly a happy and a grateful nation.

We have again been found fit to fulfill the high purposes of Americanism in the greatest crisis hour in world history. Our young men have faced death with smiling faces. They have made the supreme sacrifice, asking one question and only one, with their last breath—"Are we still advancing?" The name of America shines with brighter, holier luster before all the world because of the perfection and nobility of their manhood and the mercies of our bounty. The world never has seen finer fighting men. God grant we may seal their sacrifices with a League of Peace.

Now, Therefore, I, Arthur Capper, Governor of the State of Kansas, in accordance with a gracious and honored custom, do hereby proclaim

THURSDAY, NOVEMBER 28

as

THANKSGIVING DAY,

and call upon our people, in their usual places of worship, or wherever they may be, to offer up a prayer to Almighty God for the victory which has come to our cause and for the many blessings we have enjoyed as a people during this momentous year in our history. Let us lift up our hearts in community singing with thanksgiving and praise that violence and might cannot in this world overcome the moral forces that are the foundation of our national government and political faith.

Let us render thanks to the God of justice who overrules wicked rulers, and who has again made America his instrument in hurling back the forces of autocracy and oppression, greed and cruelty.

Let us observe our national Day of Thanksgiving not in the spirit of boasting and of vanity and pride, but of gratitude that we have been found fit to fulfill the purposes of Americanism in the world's crisis hour and that in this gathering up of our forces we have had a larger and a deeper vision of our unity and our invincible power when called forth by a cause worthy of America.

Let us give thanks to the Giver of all good that the example of America is being looked up to and followed in all parts of the world, and in this time of testing that Americanism and democracy are being extended as at no former time in history.

In Testimony Whereof, I have hereunto subscribed my name and caused to be affixed the Great Seal of the State of Kansas. Done at Topeka, the capital, this 19th day of November A. D. 1918.

Arthur Capper.

Light and Power

The Standard Belt Type Electric Lighting Plant

The Standard 4 H. P. All-Purpose Power Plant

The Cushman "Does-More" Light Plant is equipped with the Cushman Self-Starter, which permits the Cushman Plant to be started, stopped and operated by a woman or child. It is the only starter that automatically releases engine compression, chokes the carburetor and turns on and off oil. Engine started from switchboard, by pushing a button.



Clear, Steady Lights

Cushman Steady Power gives clear, steady lights. This is very important, for engine vibration damages generator and storage batteries and soon causes trouble. Cushman Engines are very satisfactory for electric lighting outfits, because they run so steadily and quietly.

CUSHMAN "Does More" Light Plant

The Cushman Does More Because —



Unit Belted Type

Engine on skids may easily be detached from Light Plant and used for other jobs.

1. It gives you both portable Light and portable Power in one plant, in the most compact, efficient and convenient form ever devised.
2. There is less vibration with a belted outfit like the Cushman, and consequently less adjustments, repairs and service required.
3. Every part is get-at-able. It is not necessary to "tear down" the plant to correct any trouble.
4. The same engine—the 4 H. P. Cushman All-Purpose Engine—may be used for work all over the farm, or be attached to binder, potato digger, corn binder or other machines.
5. Other machinery may be run from clutch pulley of engine at the same time batteries are being charged by belt over fly-wheel. It is the most flexible outfit. Write for Catalog No. 52.

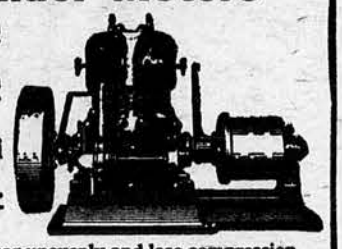
Cushman Double Cylinder Motors

give a service the tractor cannot give, and no other farm engines compare with them in equipment and satisfactory operation. Sizes 8 to 20 H. P.

8 H. P. weighs only 320 lbs. Used for all medium farm jobs, also may be attached to hay presses, corn pickers, saw rigs, etc.

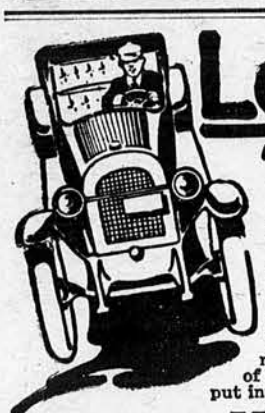
16 H. P. weighs only 780 lbs. For heavier jobs, such as 6-hole corn shellers, ensilage cutters, large feed grinders, small threshers, etc.

20 H. P. weighs only 1200 lbs. For heavy duty jobs, such as shredders, shellers, grain separators, heavy sawing, etc.



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Farm Engineering

BY K. J. T. EKBLAW

ALL OWNERS of motor cars, motor trucks, and tractors who have trouble in operating them, and desire any advice or information on the subject may send their inquiries to this department and have them answered free of charge.

The Farmers Mail and Breeze desires to have a number of letters from its readers giving their experiences in the use of tractors and motor trucks, and the adaptability of these machines for farm work in Kansas. Address all letters to the Farm Engineering Editor, the Farmers Mail and Breeze, Topeka, Kan.

The Air Cleaner

Please explain to me fully the use of an air-cleaner on a tractor. E. L. E.
Onaga, Kan.

It is of much value. The tractor is almost always working where there is a great deal of dust, and were it not for the cleaning device, much dust would be drawn into the carburetor, where it would be likely to choke up this device and impair its action. Some of the dust would be carried into the inner parts of the engine, there to help form carbon deposits, which will get on valve seats so the valves have to be ground and get around the piston rings to make them stick. Every good tractor should have an efficient air-cleaner—enough dirt gets into the workings of a tractor anyhow so that it would be folly to leave anything off that would help in keeping it out.

Carbon in the Cylinder

What makes carbon form in the cylinder of a gas engine and where does it come from? How can it be gotten rid of?

Carbon is mainly the result of the incomplete combustion of the fuel. Some of it comes from the carbon and ash of oil that slips up along the piston and the cylinder walls, and is burned in the combustion chamber. In tractors it is found that much of the carbon deposit is silica, indicating that it was brought in as dust thru the air intake.

If a carbon deposit has appeared the only thing to do is to remove it, or trouble may result. It may be scraped out, or it may be burned out with an oxygen flame from a blow pipe, or it may be loosened by putting in a little kerosene in each cylinder and letting it stand over night, after which it may be blown out thru the exhaust.

The best plan is to prevent its formation as far as possible. Be sure that the ignition system gives a good hot spark. Adjust the carburetor so that the proper mixture is being supplied. See that the piston rings are working freely in their grooves, or replace them with new ones if necessary, to get good compression. Examine the oiling system to see that too much oil is not being supplied. With these precautions, there should be practically no trouble from carbon.

Maintaining the Tractor

When a farmer buys a tractor, the first question which he asks is: "Will the purchase of this tractor be a profitable investment for me?" Most farmers give careful consideration to this very important phase of the purchase, but unfortunately there are some who apparently do not give this much thought. The farmer who weighs the advantages and the disadvantages of the use of the tractor very carefully, is the one who usually has the best success with it. On the other hand the purchase of a tractor, without due regard for its limitations in the field in which it is to work, very often leads to failure. I know of several instances where the purchase of a tractor was a costly failure, simply because the purchaser, seeing the success with which his neighbor employed his machine, immediately decided that he should have one, too.

To give a straightforward and definite reply to the question as to whether it will pay to buy a tractor or not is practically impossible because there are so many things entering into the consideration of the proposition. Some of the things that we might mention are the size of the farm; the kind of farming that is carried on on this farm; the size of the tractor outfit that is purchased; the mechanical operations which can be conducted with the aid of a tractor; and the mechanical ability of the person who is going to be responsible for the operation of the tractor. All of these things are exceedingly important and a favorable decision on one point alone will not be sufficient to justify the rather heavy investment. Every one of them must be considered so favorably that the purchase of a tractor is justifiable from that particular standpoint.

In general it may be said that the tractor does not have a justifiable position on the very small farm; however, there may be exceptions to this. In fact there are instances on record where a small tractor on a farm of 50 acres proved a good investment, simply because the owner was a good business man and saw that there was a variety of work to which the tractor could be put. He also took care to keep it busy a maximum of time and arranged the work so that the tractor could displace horses as far as was posible. Not long ago most tractor economists were agreed that the half section farm was the smallest upon which a tractor could be used successfully. Almost before this statement was made public it had to be modified; as it was shown that tractors already were being used profitably on much smaller farms. In 1916, the United States Department of Agriculture ascertained that the smallest corn belt farm that would be justified in using a tractor was a farm of 120 acres. Of course in the early days of tractor industry most manufacturers turned to the immense fields of the West and Northwest where large outfits could be sold readily, but now the average farmer is the one who is receiving the attention of the manufacturers. Judging from developments that have occurred from year to year, who can say what is the minimum size of farm upon which the tractor can operate with profit?

Cost of Tractor Repairs

The repair bills of a tractor are usually very low the first year. Often there are no repairs at all. In time, however, the repair costs will increase. Investigations indicate that under average conditions the repair cost the first year is about 1½ per cent, for the second about 3 per cent and for succeeding year 4 or 5 per cent. Probably during a 10 year period the total cost for repairs will run about one third of the original cost of the machine. The fuel and oil costs also will vary somewhat. Ordinarily it will require 2½ gallons of fuel to plow an acre of ground. Under average conditions the quantity of lubricating oil used will be a little less than 1 quart for every acre of ground plowed.

The value of the tractor is sometimes expressed in the number of horses it will replace. This is scarcely a fair basis upon which to make a comparison, for in times of emergency a tractor can be made to work night and day when minutes mean dollars. Then, too, the tractor usually does the work faster than horses will do it. On many farms a tractor is not used for more than 60 to 70 days during the year. This may seem to be a very low estimate, but a little figuring will show that horses are used, perhaps not more than 100 days on the same farm. When the farmer finds it possible to use his machine in doing work for his neighbor it is quite often the case that the total number of days that the tractor is employed will equal that for the horses. The possibility of this custom occurs as a result of being able to accomplish more work in less time with the tractor than with horses.

As a whole it may be said that the cost of maintenance will decrease as the tractor becomes more generally understood and as owners appear more intelligent in operating it. It is occupying a very important field, and its influence in American agriculture is so great that it is worthy of constant and careful attention.

Send us letters telling about your farm experiences with poultry, livestock, and raising farm crops.

Jayhawker's Farm Notes

BY HARLEY HATCH

Mowing Wheat to Check Growth.
Kafir not all Harvested.
Horses Like Alfalfa Hay.
Feeds are Scarce and High.
Sorghums as Grain Crops.
Good Use for Old Motor Car Engines.

AN ALL day rain which made more than 2 inches of water fell here during election week. After that rain the weather bureau said we were to have snow and cooler weather; instead came clearing skies and a day like spring. We did not need the snow as there is moisture in plenty to last all winter but many wheat growers would like to see cooler weather for the warmth and moisture are producing a great growth on wheat especially that on the river bottom. Some have already mowed their wheat to keep it from jointing while others intend to pasture it. The heavy fall of moisture will keep stock off the wheat for the next week, however, and if cold weather does not come it will grow without check.

Very little of the kafir had been cut when the rain came. In some fields the binders had started and those who have their kafir cut are wondering what effect so much rain will have on it. The frost killed the leaves but the stalks were full of sap. I do not think much harm will ensue if the weather remains fair. When the rest of the kafir can be cut is a question, for the fields were scarcely dry enough to provide traction for the binder wheel before the rain came.

On this farm the kafir made a small seed crop which ripened, stalk and all, in September. We cut our kafir then and no rain fell for 10 days after which we let it cure up in good shape. We have been feeding some of it which we find is well relished by both cattle and horses. We give the horses prairie hay in the morning and a bundle of kafir or corn fodder at night with a little alfalfa thrown on top. They much prefer the night's roughness to what they get in the morning. Of all animals I think the horse relishes alfalfa most and it seems to do him a great deal of good.

Ample moisture and warm weather keeps the grass along the creek growing and the stock spend their whole day there. We are feeding them but once a day, at night, when we give them a liberal feed of either corn or kafir fodder. The corn fodder has very little corn on it and the bundles are light in weight. I am afraid that if we have a hard winter there will not be any too much feed in this county for the stock on hand unless recourse is had to the hay. Prairie hay at $20 a ton will be pretty expensive feed for common stock cattle but if a man has hungry cattle and the hay, he must feed it to them regardless of what it is worth.

We have had a chance to sell our alfalfa hay but prefer to feed it, and sell the prairie hay instead. The prairie hay brings $20 a ton delivered in the bale at the railroad and we can get $20 a ton for loose alfalfa at the barn. For either horses or cattle I am convinced that alfalfa is worth almost two to one of prairie hay. When working our horses they will gain in weight if given a fair amount of alfalfa hay with their grain each day but if we work them on the same grain ration and give 50 per cent more in weight of prairie hay instead of alfalfa, they will lose weight. We tested this to our satisfaction this summer.

Many say they do not like to feed alfalfa hay to their horses. In such cases I think either poor musty hay has been fed, or else too much has been given. If a horse is given all the alfalfa hay he will eat he will stuff himself full so that he is uncomfortable either at work or on the road. For driving horses, perhaps, good prairie hay is better than alfalfa but for ordinary farm work the horse that is given alfalfa hay will keep in better condition than the horse fed prairie hay, and on 30 per cent less grain. Alfalfa hay is pretty high just now, to feed to common stock cattle but if one has no fodder and must buy either kind of hay for them, I think alfalfa much cheaper at $30 a ton than prairie hay at $20.

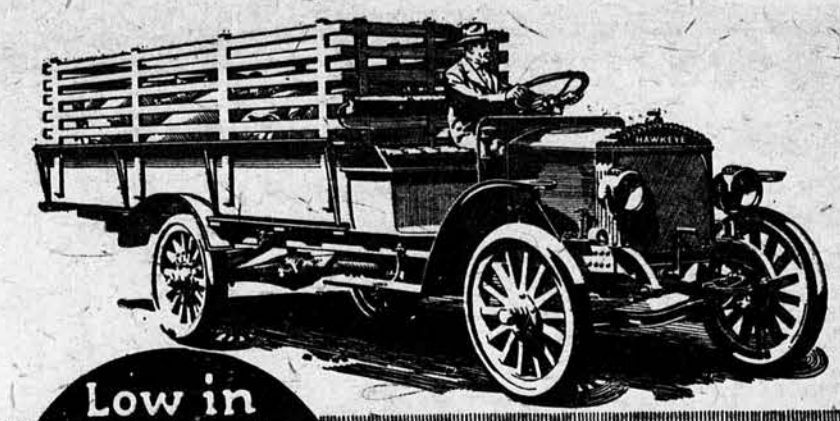
A reader who lives in Barber county where they depend on cisterns for their drinking water asks if the prepared asphalt roofing will have any bad effect on the water. He has to put a new roof on his house and would like information regarding this point before deciding on either shingles or the roofing. Can any of the readers of this column give the desired information? The cistern which supplies the water for house use on this farm is filled from a shingle covered roof; the other buildings which have the prepared roofing do not empty into cisterns so I do not know the effect they have on water. I should not think it would be much worse than new red cedar shingles however.

If I were dependent on cistern water for house use and were building a new house I never would use the common eave troughs either hung from the eaves or fastened to the roof just above the eaves. It costs but little more to have the gutters built-in and made a part of the roof. They are lined with tin which should be kept painted and they will then last as long as the house. A house with built-in gutters looks much better than one with eave troughs and the gutters will carry much more water and will last twice as long as the troughs.

A reader who lives at Aurora, Kan., wishes to know if Eastern Kansas raised much Sudan grass seed this year. He has raised a large crop of it and would like to know what the price prospects are to be. No, Eastern Kansas raised but little Sudan grass seed and if much is sown, seed will have to be bought from other parts. On the other hand, I do not think Sudan will be much grown in Eastern Kansas this coming season. The country is so largely sown in wheat and the planned oats acreage is so large that not more than 50 per cent of a normal acreage will be left for other crops. This small acreage will be planted either to corn or kafir; the strictly forage crops will not be much grown with us next year.

In common with most Eastern Kansas farmers we have concluded that a crop grown for forage alone is not profitable; rather the fodder used on the farm should be the by-product of some grain crop. Rather than plant or sow kafir for fodder alone we would plant it in rows and cultivate it for a grain crop; the incidental fodder crop would be almost as great and one would likely get a grain crop beside. Sudan grass would come under the head of a strictly forage crop here for we could not likely make a seed crop pay. And as I said at first, we will have to hunt to find land enough on which to raise corn and kafir next year if the wheat comes thru the winter all right.

A reader living at Elmont, Kan., wishes me to ask the Farmers Mail and Breeze readers whether they have had experience using an old motor car engine for other purposes. This reader has an old car which has a 4-cylinder, 40-horse engine in it, and he is thinking of fixing it up to use for power purposes on the farm, such as sawing wood, grinding and shelling corn and the like, but not to be used as a tractor. His plan is to leave the engine in the frame of the car, taking off everything not needed, then cut the shaft between the transmission and differential, leaving it about 3 feet long and put a belt wheel on it. This would give him three speeds on the belt wheel the same as on the original car. Has any reader had any experience with such an engine? If so, a favor would be conferred on many farmers if a description of how it was rigged could be sent to the Farmers Mail and Breeze. I never have had any experience with such an engine; in fact, have never seen one rigged as described.



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Plant Fruits in the Garden

Good Thrifty Trees Bring the Best Returns

BY LEWIS HILLARA
Practical Orchardist

FOR SEVERAL years I have been urging the planting of fruits in the gardens where they will receive good care and where they will make fruit on the table a certainty. If we have no orchard, we can at least have a few trees of plums, peaches, pears, and cherries to supply fresh fruit in season and enough to put up some for winter use. It does not take many trees, and when we have them where we give them good care we will get the fruit. Care is the great thing in producing fruit just as with any other crop. A salesman for a nursery that put fancy prices on its trees told me when I remonstrated with him for charging a dollar for a tree that I could sell my patrons from 35 cents, that his customers would be better satisfied with their trees than mine.

"Your customer," said he, "buys a tree cheap, and he treats it as such, but my customer has something he thinks is extra good, and he gives it the best of care. Your tree fails to do what is expected of it because of the neglect given it, and my tree does what is expected of it because it has the care. Now my dollar tree has been a boon to the man who bought it, for it caused him to make it succeed, where yours would have failed, but I admit that your tree is just as good as mine."

Orchard Pests

How does that argument strike you? I could not deny that it was true, altho I could not say I thought it excused falsely representing the tree. There is no doubt that thousands of trees are planted and lost every year just because the planters neglect them. One man told me he wasn't going to try to get an orchard, for he had had such a sorry experience with fruit trees. I asked him for particulars, and he said he had bought a bill of trees and planted them. The first winter the rabbits destroyed every tree. He set out another lot of trees and this time he wrapped them up 18 inches from the ground with corn stalks. A big snow fell and it was deep enough so the rabbits stood on top of it and ate the bark from his trees above the protection. That was enough for him. Now I considered that a mighty flimsy excuse for not having an orchard, for he could have purchased ready prepared protectors that would protect at a low cost, or he could have made his corn stalk protection high enough so no snow would enable the rabbits to reach the trees. Most of the excuses for not having orchards are just as flimsy.

By using dwarf pears, all the trees mentioned will be rather low in their growth, and this is an advantage in the garden. Made lower by judicious pruning they can be prepared for spraying and fruit picking without the disadvantages of the old high-topped standard trees. Apples can be had in dwarfs as well as pears and they will yield soon after planting and the fruit will be far superior to most of the fruit the old orchards have yielded.

There is no reason why garden vegetables cannot be grown in the garden right among the trees, and it will be an advantage to plant the trees so the space can be utilized for berries and other crops that will not interfere with the trees and their culture. A line of trees around the sides of the garden would be a good place for these fruits, far enough inside for the cultivator to run between them and the fence until they are well grown. Plums and cherries do exceptionally well in the chicken yards, and the hens will make short work of the curculio that ruins so many plums. I have grown plums in the chicken yard with the greatest success, and have had little bad fruit produced, while they would outyield outside trees, and with fruit that did not have to be sprayed.

Trying New Varieties

The small fruits can be planted in the rows that contain the fruit trees to advantage if the trees are set well apart, and this will make a permanent planting where a mulch can be used instead of regular cultivation if desired. I know of such a system on a large fruit farm near here. The owner plants all his blackberries and raspberries in his rows of fruit trees, and he had fine berries this year. He confines the briars to their rows and gives the space between good culture, and this makes it easy to pick both the berries and the fruits on the trees.

Now a word about new varieties from the traveling agents. In many cases they are not new at all, and then if they are it is best to let experiment stations and regular orchardists test such before investing in them. It takes time to get a tree to a bearing size and it is much safer to trust to old well established varieties that you know are good. I have yet to find an apple that will taste better to me than Grimes Golden, the Delicious, or the Jonathan. It is the same with all the old standard fruits of quality. Then I would not plant anything but a first class tree, the largest I could get of the age, and the age the youngest I could induce the nursery to sell me. Big trees 1 year old are worth double the same size in 2-year-old trees. It is the thrifty growing healthy tree you need instead of the large tree of doubtful age.

New Work on Rural Life

One of the most interesting books that we have had the pleasure of examining recently is a new work by Charles Josiah Galpin entitled "Rural Life." This book has just been issued from the press of the Century Publishing Company of New York City. The problems of rural life have more than passing interest to the student and reader of today. The world struggle which until recently enveloped us so completely brings constantly to our mind the fact that the farm with its family has been a most potent force in the winning of the Great War.

Rural life in the future will be far different from what it was in the past. Soldiers who come back from the war will not be satisfied to return to home conditions as they were before the opening of the Great War. Better conditions of working and better standards of living will be demanded everywhere, and they must be met in a spirit of fairness and justice to all concerned.

Happily, Prof. Galpin has been quick to anticipate these new conditions and he has very fortunately offered some very pertinent and tangible suggestions for the molding of country life that will be appreciated by every one. Rural Life is a book that should be in every home and public library. It is worth its weight in gold.

It is as much the duty of the consumer to eat less as it is the duty of the farmer to produce more.

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Take Care of Farm Poultry

Proper Feeds Will Increase the Egg Production

BY BERTHA G. SCHMIDT

AGRICULTURAL COLLEGE 25 NOV 1918

IN THESE days when feed is high priced and scarce, the non-productive hen in the flock should be regarded as unpatriotic. She is not to be tolerated. "Find out which are the non-producers and get rid of them early," R. M. Sherwood, extension specialist in poultry from the Kansas State Agricultural college at Manhattan, is urging at the first of a series of poultry meetings which he is giving to groups of farmers in various parts of the state.

A score of poultry producers heard Mr. Sherwood's lecture on feeds, poultry houses and culling at the home of R. C. Obrecht, near Topeka. The meeting was held in the poultry yard and hens from the flock were used in illustration of the various points which Mr. Sherwood made in regard to culling.

Suggested Feeds

Equal parts of bran and shorts with 20 per cent meat scrap was recommended by Mr. Sherwood as a good mash feed. Instead of meat scrap, milk may be used, giving all the milk the chickens can drink. Sour milk is preferable to sweet milk as it corrects bowel troubles. Condensed buttermilk may also be used as a substitute for meat scrap. It is best to dilute it as otherwise there is danger of feeding too much.

Grain feed may consist of 2 parts of corn, cracked corn or kafir, with 1 part of heavy oats. In case one can get barley, a good grain feed mixture would be 2 parts barley, 3 parts corn, and 1 part oats. If the oats are sprouted they will take the place of green feed, but chickens do not care for sprouted oats as for dry oats, or soaked oats. Mr. Sherwood stated that if an analysis were made of alfalfa hay it would be found that it was good not only as a green feed, but that it is also rich in protein.

Oyster shell should always be kept in the reach of the chickens as it produces egg shell. While it is true that some hens are good layers even if they do not obtain oyster shell they no doubt find plenty of limestone. Grit should be given to aid in digestion. Broken crockery takes the place of grit and not of oyster shell.

The Best Poultry House

The poultry house on the Obrecht farm was recommended by Mr. Sherwood as one of the best he has seen because it is both economical and serviceable. The nests are built on the walls and the dropping board protects the floor, thus giving ample scratching room. Where the nests, roosts and scratching room are each divided off into separate sections there is likely to be too little scratching room. When Mr. Obrecht suggested that he would add another curtain to the house this winter as the extreme cold of last winter resulted in some of his fowls having frozen combs, Mr. Sherwood stated that to do this would be a mistake. Freezing results from too high a moisture content of the air. To relieve this condition better ventilation should be afforded by leaving a small open strip just below the rafters. The roof projecting over this open space prevents snow and rain from entering. Farmers who have used a covered chimney for ventilating have found the draft too intense.

In culling out the non-productive hens, the late moulter should be saved rather than the early moulter, because she has laid eggs during a greater number of months. The abdomen of the good layer will be flexible and the pelvic bones far apart. Also select the hens with the greatest depth from the pelvic bone to the keel or back part of the breast bone. Lack of yellow color in the legs and bill denotes that hens have been good layers, the yellow having gone to the production of the yellow of the eggs. Redness of comb and the absence of white scales on it are indications of laying condition.

It is difficult to judge which pullets are the best. The chief point to be considered is general vigor. Some poultry raisers make the mistake of choosing the largest pullets, regardless of when they were hatched. Thus they may save poor ones of the first hatch and kill those which are hatched later altho they are stronger birds. Each hatch should have its mark so this may be avoided.

Select a Good Male Bird

In selecting good producers, the male bird is even more important than the female but there are fewer marks by which the best males can be selected. As with the pullets the chief of these is general vigor. The record of the mother bird for egg laying is a factor to be considered. Shortness of leg and bill and broadness in general are characters to be looked for in the productive male.

Inbreeding is not to be recommended to the farmer. It tends to intensify both good features and bad features.

Thruout the lecture and demonstration many questions were asked by the poultry raisers who attended the meeting and helpful answers were received. The second of the series of poultry demonstrations and lectures will be given in March and the other two later in the year. Such meetings as these bring home to the farmers the realization that if they cannot go to college, the college will come to them thru its extension lecturers who are eager to give them help on any phase of farming.



A Girls' Hike by Motor Cars Conducted in a Farm Bureau County for the Inspection of Farm Homes, Gardening and Poultry Raising.

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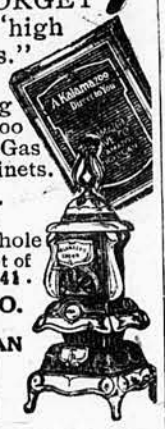


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With the Home Makers

Our List of Blessings is Longer than Usual This Year

BY MRS. C. A. CAPPS



Be Thankful for Good Food

THE FIRST Thanksgiving Day was set aside by our ancestors as a time for summing up and giving thanks for the blessings received during the year. They realized their dependence upon that Higher Power which controls the bestowal of all good things, even to the prime necessities of life.

But even with a special day set aside for the purpose of thanksgiving, it seems we were, with our ever-increasing prosperity, gradually allowing the true spirit of the day to be crowded out, and instead of really giving thanks to God, we were making the day one for extreme self-indulgence.

But the war came, and the stress and strain of it, and the hardships and sacrifices growing therefrom have brought us again to a realization of the value of simple things, and that after all, life is not all summed up in luxuries and "gold and lands and 10 per cent."

For us, this has not been a successful year. Many crops were failures. There has been a continual call upon us for money for the various war purposes. If we were to do a fair part by Uncle Sam and the allies, it was necessary that we cut out all unnecessary expenditure. As a result, we did without all outing and vacation trips this summer, denying ourselves numerous small pleasures besides.

We had planned to remodel the house before another winter, but that, too, is out of the question, now. Husband and I cannot have those new suits we had so generously promised ourselves; no new clothing, except such as is absolutely necessary for bodily comfort, will be purchased this winter. In fact, we shall be obliged to do on less of everything.

But there are no regrets. We have yet, a countless number of things for which to be thankful. In taking stock of the things for which I am especially thankful, I somehow, think first of family. So many homes have been broken by sorrow, within the last year. But I still have my little family.

Then there is health; I have a reasonable allowance of that. My family, too, is blessed with health. We each have the strength to work, and when it comes to eating, we have appetite, that sauce which savors the plainest fare. So I am thankful for health.

There's Good in Everything

Because some crops were failures, we shall not be able to realize much from the surplus of others; these must substitute the failures. But we have of good food, an ample supply for our own needs and a little to spare. I am thankful for that.

By practicing the strictest economy, we have managed to do a creditable part for our country each time we were called upon, and we are not ashamed of the size of our donations to the various causes of morale and relief. We can hold up our heads among our neighbors and before the world, as good loyal citizens. How thankful I am for that!

Our plans for making the home more pleasant to live in must fail, this year; but I am thankful that we have a good roof and comfortable beds and an abundance of fuel to keep us snug and warm.

The cellar, tho not so crowded with good things this year as last, will yet keep Jack Frost from what he have, and it will not be crowded at times with poor frightened humanity—children wild-eyed and trembling for fear of air raids. So I am thankful for the home, even as it is.

Our clothes are neither fine nor of the latest cut, but they are proof against old north wind, so I am thankful for them.

Not always have I possessed a spirit of self-denial and self-sacrifice. Once, it seemed to me that those who who gave most, merely robbed themselves most; that there might come a time when they would feel themselves deprived. But this is not so. Those who give most, have most; live most. I am thankful that I found this out, even tho it took a war time to teach me.

I am thankful that I live in America today; proud of her stand in this war for humanity; thankful and proud that I am able to do a share, small tho it be, and that my folks, both here and "over there" are back of Uncle Sam, and in the war with all their might and with the right spirit.

And I thank God for what I believe to be our last war-time Thanksgiving, and the sincerest Thanksgiving Day of my life.

For the Thanksgiving Dinner

For a centerpiece for the Thanksgiving dinner, cut the top out of a small pumpkin, scrape out the inside, line with white paper and fill with fruit and nuts.

The following menu is suggested for a good dinner on this great holiday:

Cream of Tomato Soup
Roast Fowl Oyster Stuffing
Cranberry Sauce
Mashed Potatoes Creamed Onions
Military Salad
Nut Bread
Pumpkin Pie Coffee

Oyster Stuffing—Mix 1 cup of oysters, 2 cups of mashed potatoes, 3 cups of bread crumbs or crackers, 2 eggs, 2 tablespoons of butter, 1 tablespoon of flour, 1 teaspoon of baking powder, 1 teaspoon of salt and a dash of pepper. Moisten with liquor from the oysters and a little hot water.

Military Salad—Dice pineapple, apples, celery and mix well. Place a small amount of the mixture on lettuce leaves, cover with mayonnaise and sprinkle with chopped walnut meats.

Nut Bread—Beat 2 eggs well, add ½ cup of sirup, ½ teaspoon of salt, 2 cups of sweet milk, 4 cups of flour, 4 teaspoons of baking powder and 1 cup of chopped walnut meats. Put in tins, let rise 20 minutes and bake in a moderate oven.

Cranberry Sauce—Boil 10 minutes 1 quart of cranberries and 1 cup of water, strain thru a colander, put back on the stove, add 1 cup of sugar and 1 cup of white sirup, stir until it comes to a boil, then put in a dish or molds.

Pumpkin Pie—Mix well 1 can of pumpkin, 3 eggs, ½ teaspoon of salt, 1 teaspoon each of ginger and cinnamon, ½ teaspoon of cloves and nutmeg, 2 tablespoons of flour, 1½ cups of sirup, 1 cup of sugar, 3 cups of milk. This makes three large pies.

Mrs. B. B. King.

Neosho Co., Kansas.

Always Something to Do

MRS. DORA L. THOMPSON
Jefferson County

There are enough outdoor tasks at this time of the year that a woman can do, if she will, to take all of her time. We thought we were about thru with apples when we had all of them barreled except one pile by the old straw stack. Some calves took a notion to explore the orchard and to test the springiness of the apple pile. After they had marched over it, we found many bruised, more broken and the whole pile in need of another culling.

This gave us several bushels of Ben

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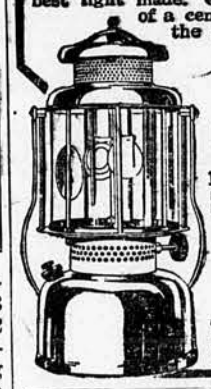


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The N. F. BOWSHER CO.
South Bend, Ind. F3.

Davis to work up into sauce of some kind. As we have an ample supply of apple butter, we have decided to make cider apple sauce of them. The most bruised and broken will furnish the cider. In it, we shall cook the better apples—pared, quartered and cored. Cooked in water, the Ben Davis is somewhat tasteless so we expect the cider to give the flavor.

This work with the apples interrupts the banding of trees. Last spring we set out cherry trees and Winesap apple trees. About half the cherry trees lived; most of the apple trees did. Unless we protect the young trees from rabbits, they will probably chew off the bark. There are better methods of protecting young trees than the one we shall use this time. Screen wire or paper-mache tubes would be better. As neither may be had at our local market, we shall use the heavy tar paper that was left from the covering of silo doors. This sort of wrapping is a good cover for borers if left for any length of time. Rabbits do not like the tar paper and will probably let the trees alone.

Another task that conditions have thrust upon us is the care of some large pumpkins. Some seed of the 50-pound variety of pumpkins was planted early last summer around the old straw stack. The vines grew all summer. The roots were beneath the straw mulch so the dry weather had little effect unless it was in delaying the starting of pumpkins. These did not develop until late—so late that many were green when frost came. The ripe ones are all good-sized pumpkins—some are unusually large. They seem little inclined to keep and we are canning a few of them. These are not so fine grained as pie pumpkins, but otherwise we can see little difference.

There may not be many more "drives" for war funds of the various sorts. The results of these drives in the organization of the work by rural school districts may be permanent. There are few persons missed when each school district is thoroly canvassed. If there has been any one fault with the system in this part of the county, it has been in the use of the same workers for most of the work. People are interested in that for which they are responsible and to interest many, many should have a chance to work.

We read that the old time, all-wheat flour is again to be milled. Personally we would as soon have the flour we are now getting. The only objection is the price of that and substitutes. So far we have been unable to get a sack of flour and the accompanying substitutes for less than $3.60.

Making a good suit for a boy is not so easy a task as one might think. It is especially tiresome when one must leave the work so often for other jobs. We have only half finished the suit begun some time ago. One delay was caused by lack of suitable lining. We believe that a good suit should have a good lining. Light, stretchy material always gives trouble. We found what we wished in an extra good grade of lining sateen.

To get this lining, shoes, overshoes and many other things needed for the children, we took a cross-country trip to Topeka, Monday, November 11. When we reached town we found we had only 1 hour in which to do our trading as the afternoon was given over to the peace celebration. Tho the festivities had not been the attraction that took us to town, we felt when all was over that we ought to have planned to go for that reason. "The more, the merrier" is certainly true in a noisy celebration. In the country we know how to work, but we don't always know how or take the trouble to have a good time.

Original Potato Cake Recipe

Cream 1½ cups of sugar and 1 cup of butter substitute. Add 1 cup of sirup, then the beaten yolks of 4 eggs and 1 cup of warm mashed potatoes. Stir in ½ cup of sour milk in which has been dissolved 1 level teaspoon of soda. Sift 2½ cups of flour and 2 level teaspoons of baking powder and beat well into the other mixture. Add ½ cup of melted chocolate or dry cocoa, 1 cup of nut meats and 1 teaspoon each of cloves, cinnamon, allspice and vanilla. Beat in lightly the stiffly beaten whites of the 4 eggs last. Bake in two medium-sized loaf tins in a moderate oven 45 minutes.

A Reader.

Dresses You Will Like

A pretty girlish model is dress 9042. A very narrow shawl collar of flesh-colored satin brightens the waist. Sizes, 16, 18 years, and 36, 38, 40 and 42 inches bust measure.

Misses' dress 9017 may be made with the high neck or with the low round one. Sizes, 16, 18 and 20 years.



Child's one-piece box plaited dress 9015 has a square yoke at the front and back, and the fastening is to be found on the left shoulder. Sizes, 2, 4, 6 and 8 years. These patterns may be ordered from the Pattern Department of the Farmers Mail and Breeze, Topeka, Kan. Price 10 cents each. Be sure to state size and number of pattern when ordering.



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For Our Young Readers

Miriam Entertains the Misery Company

BY MINERVA HUNTER

"OH," SIGHED Miriam, "I am so unhappy! It is just one week until Thanksgiving Day and I am afraid I shall not be thankful."

"That does sound discouraging," said her mother. "Suppose you name the things for which you are not thankful."

"There are plenty of them," said Miriam, beginning to enumerate: "Here I am in bed with this plaster cast; father has gone to war and I miss him so much; I am flat on my back and have to look at this old faded wall paper. We are not going to have a turkey this Thanksgiving. What more do I need to make me miserable, mother?"

"They tell me that misery loves company," said Miriam's mother. "Suppose we invite some more people who have miseries like yours to spend Thanksgiving Day with you."

"Why, mother, where would you find them?" asked Miriam in surprise.

"They can be found," assured her mother. "Wait until I go down town this afternoon."

When Miriam's mother returned from town she brought a roll of wall paper samples. "Mother," exclaimed Miriam, "you are not going to paper this room! I do not mind the faded spots. I would rather spend all the extra money for War Saving Stamps. Honest I would, mother."

"A sensible thing to do," agreed her mother. "Mr. Well, the wall paper man, gave me this roll when I told him you were not well and would like to have some of his old samples to entertain yourself while in bed."

"I do not know what I shall do with them," sighed Miriam.

"I have sawed off the legs of your old blackboard and will pin pieces of solid brown and green paper on the board, then you can cut out your Misery Company and paste them on the paper," explained Miriam's mother. "As you finish each piece, I shall tack it to the wall where you can see it. You will like the pictures so well that you will not notice that your wall paper is faded."

"How fine, mother, but where is the Misery Company?"

Before her mother could answer the door bell rang and Aunt Elizabeth came in with a bundle. "I have brought you some Misery Company," she explained and proceeded to open the bundle which proved to be well illustrated magazines. "I am sure the soldiers will be glad to spare these few to a little sick girl."

"The first misery is that you are sick," reminded Miriam's mother as she handed her the scissors. "See if you can find any sick people in the magazines and paste them on the piece of wall paper."

It was a surprise to Miriam how many sick people were to be found in the magazines. There were sick soldiers, some badly maimed, there were sick babies, crippled children and sick old folks. By night Miriam had filled two pieces of wall paper with these pictures. "My Misery Company has grown rapidly," she remarked as she directed her mother where to place them on the wall.

The next morning Miriam's mother arranged the blackboard, paste, pictures and scissors conveniently. Miriam looked up into her mother's face with a smile of understanding. "Father has gone to war and cannot do the nice things for me that fathers like to do for their children, so today I shall find other little children whose fathers cannot make them as comfortable as they wish."

When Thanksgiving Day came, the walls of Miriam's room were decorated with pictures of the Misery Company. There were the hungry children and the demolished homes of the war zone, the helpless poor of the large cities, the crippled and diseased. Miriam looked at them, and as her mother brought in a tray of nourishing food, Miriam pointed toward the Misery Company. "Mother," she said, "you and the Misery Company have shown me that I am a really, truly thankful little girl."

Tell the Story of the Picture

This picture tells the most interesting story you ever heard. Study it and then sit down and write the story.



You should be able to tell it in 250 or 300 words. It's a Christmas story and we're going to use the three best letters which boys and girls send about the picture in the Christmas number of the Farmers Mail and Breeze. The prizes will be: first, $1; second, 50 cents; third, 25 cents.

Address the Children's Editor, Farmers Mail and Breeze, Topeka, Kan. Give your name, age and complete address.

Home Remedy for Pneumonia

This is a valuable home remedy for pneumonia. Chop fine 6 to 10 onions, according to size, put in a large spider over a hot fire and when hot, add the same quantity of rye meal, and vinegar enough to make a thick paste. Stir it thoroly and let it simmer for 5 to 10 minutes. Then put the mixture in a cotton bag large enough to cover the lungs and apply to the chest as hot as the patient can bear. In about 10 minutes have another bag of the same ready and change. Continue applying by repeating the poultices until the perspiration starts freely from the chest, and in a few hours the patient will usually be out of danger. Afterwards apply lard, turpentine, and camphor heated together to the chest and be very careful that the patient doesn't take more cold. This remedy has seldom failed. Mrs. E. Preston.

Adrian, Mich.

Can You Guess This?

This puzzle picture represents a kind of bird. If you can guess the answer send it to the Puzzle Editor, Farmers Mail and Breeze, Topeka, Kan. There will be packages of postcards for the first five boys and girls sending correct answers. Give your name, age, county and complete address.

Solution November 9 Puzzle—A vegetable: Spinach. The prize winners: Dean Callahan, Abilene, Kan.; Joe Pray, Abilene, Kan.; Josephine Hunt, Natoma, Kan.; Florence E. Huston, Ellsworth, Kan.; Forrest W. Williams, Haviland, Kan.



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Farmers Mail and Breeze	$1.00
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People's Popular Monthly	.25
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Farmers Mail and Breeze	$1.00
People's Home Journal	.75
People's Popular Monthly	.25
Gentlewoman	.20
Total Value	$2.20
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Club No. 6

Farmers Mail and Breeze	$1.00
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Capper's Weekly	1.00
Household	.25
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Farmers Mail and Breeze	$1.00
McCall's Magazine	1.00
Household	.25
Gentlewoman	.20
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Farmers Mail and Breeze	$1.00
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Nov. 22 the Last Day

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Enclosed find $ — for which please send me all the periodicals named in Club No. for the term of one year.

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To Build Good Dairy Barns

Cows Must be Sheltered from Winter Winds and Rains

BY JOHN W. WILKINSON
Associate Editor

FARMERS in the West are fast realizing that in order for a dairy cow to be a profitable producer she must be well fed during the entire year, and that she must be kept comfortable. These conditions can be maintained only when proper provision is made for the storage of hay and grain and when the cows are sheltered from the winter winds or rains and snows. Those who buy milk and butter from farmers are demanding now that all such dairy products shall be produced under sanitary conditions. Standards are being raised constantly making it necessary for barns to be built so that they can be kept clean and sanitary. The general type of barn that would be desirable under conditions existing on one farm or in one community may not be advisable in another, but the essential requirements for location, ventilation, amount of air space for each cow, the proper amount of light, and the best floor arrangement will be practically the same everywhere.

Suitable Location

The dairy barn should be conveniently located on high and well drained ground in order to insure perfect drainage, both from the surface and underground in order that the drain pipes may be laid to the best advantage. When this is not possible the floors should be set as high as possible, and enough dry dirt should be placed within the space enclosed by the foundation walls to prevent water from entering from the outside. It also will be a good plan to grade up around the outside of the barn. It should be located where a good supply of lots can be had for the cows, calves and the herd bull.

In this part of the West it is not necessary to have the costly buildings that farmers in the North and East must have. Almost any building that is wind-proof and rain-proof will meet the requirements of shelter. It is a great mistake, however, to think that dairy cows can be hardened to the weather so that a barn will not be needed. The efficiency of a cow is reduced very much by being exposed to storms or cold winds in winter. Of course feed may be used to keep up the heat and energy of animals, but it is expensive and poor policy to use it for that purpose.

Whatever type of building is planned, permanent construction always will be found the most economical. Concrete should be used for making the floors and the foundation and it will prove the cheapest in the end. When laying cement floors, the gutters should be laid first with a slight fall to one end. They should be 4 to 6 inches deep and 15 to 18 inches wide. The distance from gutter to stanchion should be about 4 feet and 6 inches for ordinary cows. The passage behind the cows should be at least 8 feet wide in order to let the cows pass without crowding. The surface of the floor should be finished rough.

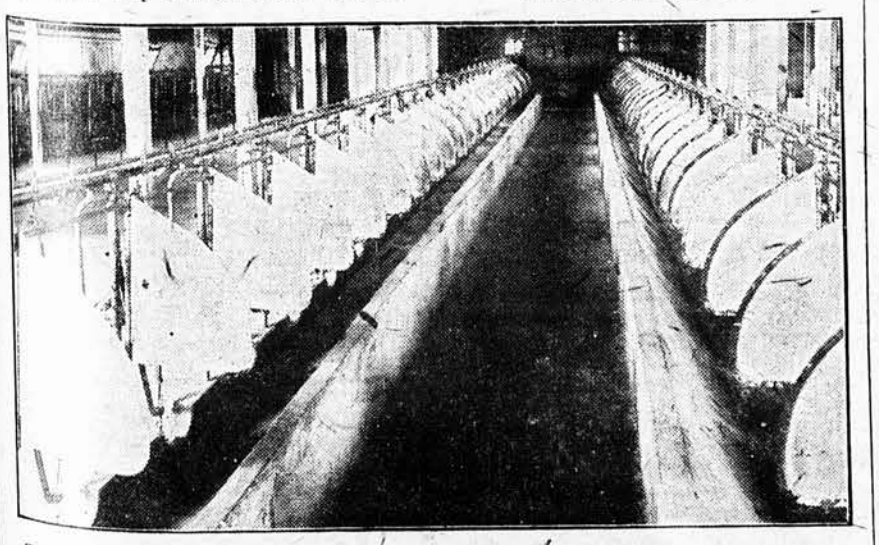
The stalls for cows of medium size should be about 3½ feet wide, but for large cows they should be at least 4 feet wide. In fastening cows in their stalls a method should be selected that will insure security, ease of fastening and unfastening, comfort of the cow, and the proper alignment of the cow with the gutter. The swinging stanchion meets these conditions and will be found very satisfactory.

The manger must be sanitary and easily cleaned, and should be large enough to hold the feed so that the cows cannot throw it out. It should be built so that the cows cannot get into it with their forefeet, and so arranged that it will be convenient for feeding, and so that the refuse can be cleaned out easily. The manger will give the best satisfaction if built with cement bottom and the lower part of the sides of the same material, and with removable partitions. When so constructed it can be used for watering cattle in winter. In such cases the bottom should be finished smooth, and should slope slightly, but evenly toward one end, and should be provided with a drain to carry off the surplus water toward a concrete manure pit or cistern. For all of this work a 1:2:3 mix and one-course construction is recommended. Less cement may be used if desired, but under no circumstances should the mixture be leaner than 1:2:4. If there are two rows of cows it will make but little difference whether the cattle face each other or face the other way. If the cows face the windows and a driveway is made in the center of the building a truck can be driven thru the barn for hauling out manure and refuse. The cows also will get more fresh air than when they face a central feeding alley. The manger should be about 18 inches wide at the bottom, 24 at the top, and 6 inches deep. It will be best to have it separated from the floor of the stall with a 6 by 6-inch concrete curb. It will also be an excellent idea to have a feed alley 4 feet wide between the manger and the wall in order to give ample room to pass in front of the cows when feeding.

Have Plenty of Sunlight

A dairy barn to be satisfactory must have plenty of light and fresh air which may be provided by putting in windows on either side of the barn. Direct sunlight is a very valuable germicide. A dark, damp, filthy building is a good breeding place for disease germs of the most dangerous kind. The windows should provide not less than 4 square feet of unobstructed lighting area for every cow. These windows may be hinged at the bottom and arranged to swing inward so that plenty of air can be had without having a draft on the cows. In large barns of more than one story some system of automatic ventilation should be used. In some of the commercial devices for accomplishing this result, the cold air is admitted from the outside at the level of the floor and is carried thru pipes in the walls to the ceiling where it enters the stable. The foul air is collected at the level of the floor and carried off thru vents and pipes arranged for that purpose. An-

(Continued on Page 20.)



This is the Interior of a Large Dairy Barn in Which Concrete Floors and Sanitary Modern Equipment Have Been Installed.

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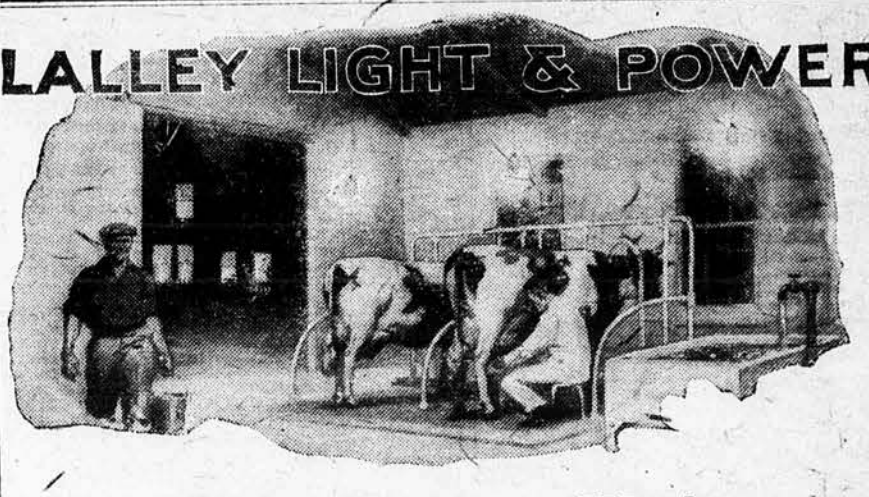
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Gold Letters for the Club

Poultry Scrap-book Has Valuable Information

BY BERTHA G. SCHMIDT
Club Secretary

ARE YOU making a scrap-book these days? Many Capper Poultry club girls are. Into them go all of the poultry club stories that appear in the Farmers Mail and Breeze and the letters they receive from their breed club friends. Of course, the girls paste the rules in a prominent place so that they can refer to them at any time. One girl wrote me that she is using an old copy of the Farmers Mail and Breeze as her scrap-book. The club stories are pasted even with the margins. Light weight black cover board or cardboard is used for the cover. On the front in large gold letters are the words Capper Poultry Club. Many of these scrap-books also include all the information the girls can find about poultry.

Making a scrap-book is a very good plan because then one has the information about the club all together in a convenient place and much of the necessity of asking questions is eliminated. You will notice that the last paragraph of the copy of the new rules is printed in capital letters and reads thus: "Keep this copy of the rules and prize offers for reference. Clip any additional rule or prize offer that may be printed in the Farmers Mail and Breeze and add to this copy."



Two Meade County Girls.

With the announcement of a new contest, both new members and old members have many questions to ask. I am going to answer those which give general information. Read the answers carefully and then it will not be necessary for you to ask them individually:

Q.—Should we second-year members enter pullets in the new contest or may we enter our contest hens?

A.—Paragraph 1 of the contest rules states: "Every member shall enter eight purebred pullets or hens and a cockerel or cock." Therefore the contest hens may be entered.

Q.—Will you kindly send me some information about the mothers' division of the club?

A.—Rules for the mothers' contest are given in the Capper Poultry club rules for the girls. All mothers who wish to belong to the club should make application by filling out an application blank. Mothers of girls who have been in the club this year must do this as well as the mothers of new members because all mothers are to be active members instead of associate members. It will not be necessary for mothers to give recommendations.

Q.—Should members of the club for 1918 send monthly reports for December?

A.—This will not be necessary but the report for the days of December which are in the contest should be included in the annual report. Every member of the present club will receive blanks for the annual reports at the close of the contest.

Q.—In a county's complete membership of 10 are the mothers included as a part of the 10?

A.—No; there may be 10 girls and 10 mothers, but for membership to be considered complete there need be only 10 girls. We are just as eager, however, to have the mothers line up for membership.

Q.—In the contest story, should members of the present club tell about how they cared for the little chickens or the contest pen or both?

A.—In your story you should tell about the care of both the contest pen and the young chickens. The story may be any length you desire, but it is best not to make it too long. I think you should be able to tell about the care you gave your chickens in 250 or 300 words.

Q.—May two girls in the same family be members of the club?

A.—Two sisters may not be active members of the club.

Here's a fine report of a monthly meeting written by Mrs. John Brun, who is the reporter for the Atchison county club:

"The Atchison county poultry club held its November meeting at Ethel Huff's. As the meeting was in part in celebration of Mrs. Bank's birthday we decided to have a dinner instead of just an afternoon meeting. The event was also in honor of Ethel's mother's birthday and in celebration of Governor Capper's election as senator.

"Our meeting was a little out of the ordinary. You know there are a number of boys 'over there' who have no one to send their Christmas coupons to and who had been instructed to send them to the Red Cross. The quota for Atchison county was 1,000; for Muscotah, 100. Each person is to send $1 to the Red Cross auxiliary and they are to fill the Christmas box and mail it to one of the boys who have no one to play Santa Claus to them. Our pig and poultry club boys and girls came to the front by taking 20. That was, indeed, a patriotic meeting as well as a poultry club meeting. The pig club boys were invited, too. And such a dinner! You know what that means in Atchison county. Our next meeting will be with Lillian and annual reports and stories will be talked over."

Many Applications Arriving

Many applications for membership in the Capper Poultry club continue to arrive in every mail. While it is a great pleasure to open the envelopes containing these, the recommendation blanks properly filled out give even greater assurance of the success of the new club. The girl who has the pep to obtain recommendations is the kind of girl who is fitted for Capper Poultry club membership. No new applicant is considered a member until recommendations have been filed.

"The minute I received your letter I went to the bank, the newspaper office and a neighbor and had my recommendation blank filled out," Myrtle Bell Lott of Russell county wrote. "I want to be prompt about my work. The neighbor that I wanted to sign the blank wasn't at home so I got another one to sign it."

When officers of the breed clubs were elected early in the present contest I told the assistant secretaries that the way in which they could boost their variety of chickens would be to write a short story for the club department about the good points of the kind of chickens they are raising. Here is the letter written by Ollie Osborn of Johnson county, assistant secretary of the Barred Plymouth Rock Breed club:

"The Barred Plymouth Rocks still are acknowledged to stand at the head of all the breeds as general purpose fowls. They have stood the test for many years and will continue to do so for years to come. I think the people of Kansas have begun to realize this fact as there are more than twice as many Barred Plymouth Rocks in the Capper Poultry club as any other breed. The reputation of the Plymouth Rocks as all around good fowls is firmly established. They mature early, are of good size, are hardy, and easy to raise, making them very desirable for broilers and roasters. They have clean, yellow legs and beautiful plumage and as winter layers they can't be surpassed. They are good sitters and mothers. This breed is also very desirable for caponizing as the male birds have lighter colored plumage and are easily distinguished from the females at an early age. The standard weight of the cocks is 9½ pounds and of the hens 7½ pounds."

Letters from girls who have been members of the club for one or two years, telling about the expense of their pen and hen house and how they are built, will be appreciated by the girls who are going into the new club. I shall be glad to use them in the weekly club story.

The picture this week shows Agnes Wells of Meade county and her friend, Mary Foote, holding two of their pet chickens.

Demand for Purebred Poultry

The demand for purebred stock for breeding purposes has been greater than the supply this year. Many persons who wanted to buy a dozen or more hens or pullets were unable to get them. Some of these persons, no doubt, would be glad to buy good purebred hens now. Hens can be sold for breeding purposes for more than the market price. Before sending any good, purebred hens to market, would it not be well first to make an effort to sell them for breeding purposes? I think I would.

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Ship to Brown

Time to Plan Your Reports

Don't Wait Too Long to Write Your Contest Story

BY EARLE H. WHITMAN
Club Manager

I HAVE a vivid recollection of how my school teacher used to take all the joy out of life by telling me on Friday that I must have an essay or theme ready to hand in by the last of the following week. The thought of that story would hang over me all thru Saturday and Sunday and bother me until at last I would become desperate and dig into my task. One time, tho, I became very ambitious and wrote the theme the evening after the subject was assigned to me. It made me feel so good to have that task out of the way that I solemnly resolved never again to put off such work until the last moment.

Well, fellows, Capper Pig Club reports and stories come only once a year, and they're a lot different from the tasks assigned by your school teacher. The boy who has kept a careful record of his contest work thruout the year is going to be able to sit down and write an interesting, high-grade story with little difficulty. The boy who has kept careless records and skimmed thru his contest work with as little attention as possible will regard his story with dislike and be only too likely to wait too long and then dig out a hurried, inferior story.



Ben Fridley of Wabaunsee County

Club members have much to consider when they make their reports and send in the stories of their year's work. Remember, a big pork production may not win a prize. That counts only a possible 35 points. You may score another possible 40 points on the cost of producing that pork. And then there are 25 points to score for your story. Those 25 points may be the difference between a big check in the mail some morning and being among the "also-rans." Give your story some thought right now.

One of the finest things about club work is the lesson of co-operation which is taught. United States and the allies could not have won the war if they had not pulled together. No county club is going to win the $100 county prize if every member does not have the neat records and well-written story ready by December 15.

I hope a copy of the sale catalog for 1918 is now in the hands of every club member. Many boys already are making sales, and they're finding no trouble in interesting prospective buyers in Capper Pig Club products. A sale that was of much interest to club members was that held recently by W. W. Jones of Clay Center. This sale was advertised as "The All-Star Duroc Jersey Boar Sale," and Capper Pig Club boys offered pigs. Edwin Snyder of Pottawatomie topped the sale with a boar that brought $107. A pig offered by Ted Tilson of Cloud county was sold for the second highest price.

The news of the victorious peace brought a thrill of pride and thankfulness to every good American. Naturally, the rejoicing was most heartfelt in homes from which loved ones have been called to the service, and Capper Pig Club boys have their full share of big brothers who are helping Uncle Sam. Club members may well feel that they have had a real share in winning the war, for not only have they produced many tons of pork, but they have shouldered heavy burdens in order to let older brothers go to fight. The Capper Pig Club may feel that it is personally represented in France by at least four boys who have gone from our ranks. Not long ago, tho, I had a letter from a boy who lined up for the club this year but later enlisted for service. John Cooper, Jr., of Gove county hasn't had the satisfaction of getting a chance at the Germans, but he feels that he is doing his duty to Uncle Sam. John enlisted July 15 and after receiving training in Colorado and Louisiana was sent to the Panama Canal Zone. Of course, he was disappointed, but he writes that he is having a great experience.

"I hope the 1919 club will be full of thrifty boys who will make it go," writes Earl Kiger of Reno county. "I think I have a good record for this year. My $75 sow has brought me 17 pigs in her spring and fall litters. Count me in for another year. I don't believe I will have any trouble paying for my sow." Neither do I, Earl, and I am sure the same thing applies to nearly every boy who lined up for work in this year's club. Feed often has been hard to get and high-priced when found, but with the advantages of free advertising for the sale of breeding stock, club members are going to show a fine profit again this year. That the year of work has been profitable is shown by the many members who are lining up for another year. Within a very short time many counties will have a complete membership, and boys who wait will have to receive the disappointing news that there is no room. Fill out the application blank and mail it to the club manager at once. You will be sent a copy of the rules and full instructions for getting lined up for active work. It's worth while remembering that sows usually are higher in the spring, and that boys who line up early have an opportunity to become acquainted with their teammates and the club manager before active county club work begins next spring.

Let me introduce Ben Fridley of Wabaunsee county to you. Ben is a seasoned veteran of two years' contest work. This year he has a fine Duroc entry of a sow and 10 pigs. Only eight are shown in the picture, but Ben says they will all count when he sends in his report.

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 Farmers 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.



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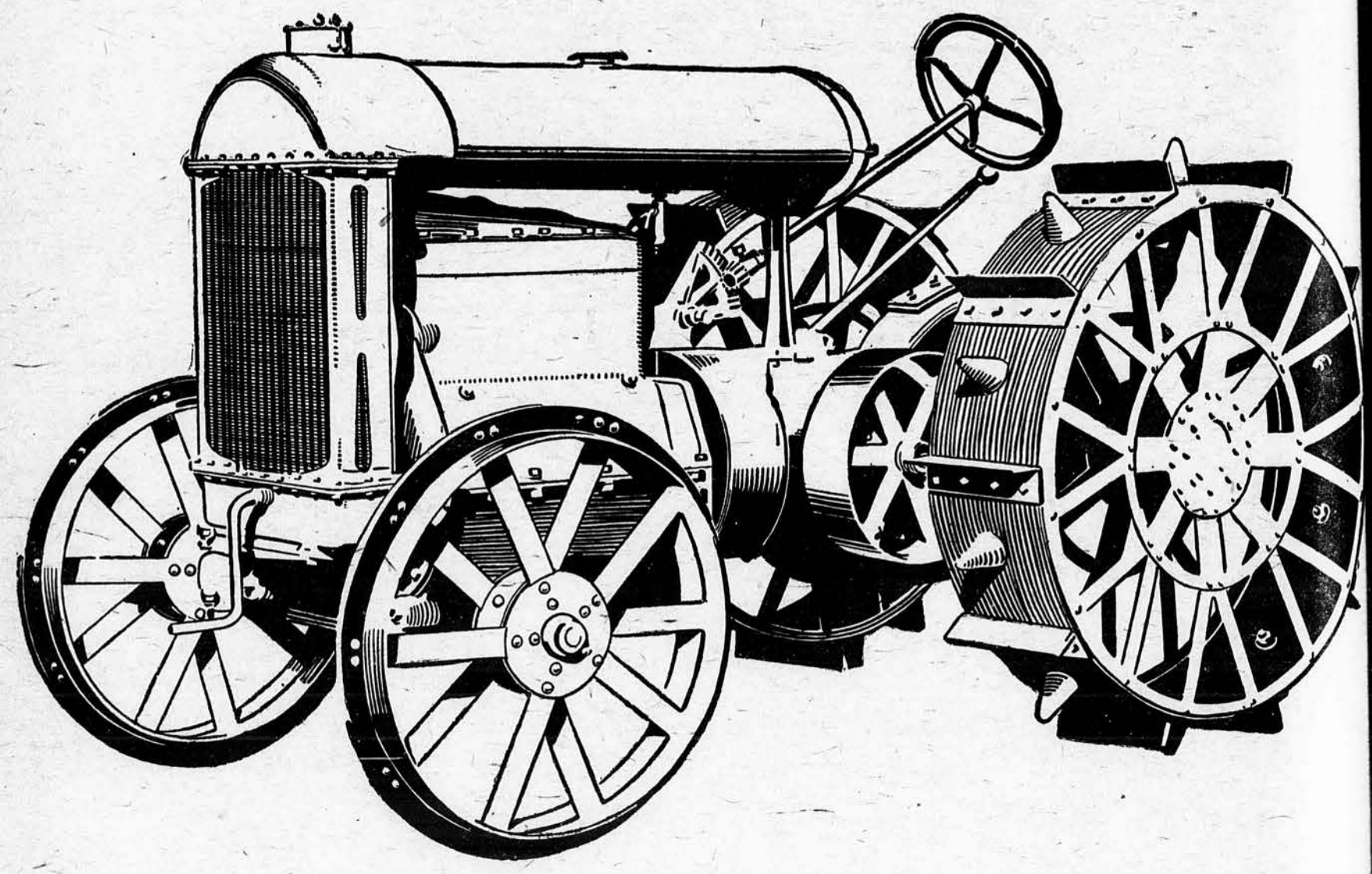


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Plowing Around Hills

Many advances have been made in the manufacture of tractors within the last two years. A report just received by the Farmers Mail and Breeze states that the recent demonstration at Portland, Ore., was very successful in showing up the various features of the 28 competing tractors. Some rather unusual and exceedingly difficult tests were conducted, in which the comparative real practical working ability of the tractors was well brought out.

One of the most interesting of the tests was that of plowing across a very hard piece of ground, with a 20 per cent grade at the end of the field on which to turn. In this test, the advantage of the double brake differential was clearly shown, for it enabled the tractor to turn easily on the steep grade, without danger of tipping or slipping from the furrow.

Another even more difficult test was that of plowing across the side of a steep hill where the silt soil was so soft that anyone walking across it would sink in above the ankles. Of the few tractors that even attempted this test, none not equipped with the double brake differential succeeded in keeping in the furrow, most of them slipping far down and almost tipping over.

This double brake differential, which is operated with the feet, enables the driver to hold the tractor snug up against the land side, preventing its slipping down hill. The tractor thus equipped easily swung into the furrow and never stopped until it was across the field, plowing an even furrow to the depth of 9 inches with its full complement of plows.

Other conspicuous features which enabled this tractor to complete successfully these tests, were the medium size and compact construction, the balancing of the weight almost entirely over the drive wheels, and the short turning radius.

It is these features combined with the double brake differential, which enable a tractor to meet successfully all the practical needs of farming. Such a tractor can plow on any kind of soil, on steep grades or side hills, and make sharp turns at the corners.

Thousands of Tractors in Kansas

During the year ending March 1, 1918, Kansas increased her holdings in tractors by 910 machines, having on hand on that date 5,414. This number is 20.2 per cent more than in the year previous and more than twice as much as shown by the first tractor census of the state board of agriculture in 1915.

Of course, the so-called "wheat belt" has been the most popular home of tractors in Kansas, and more are found in that section than elsewhere. Reno county, where wheat fields extend from border to border, had this year, 198 tractors, compared with 138 in 1917. McPherson is second with 182, followed by Pawnee, 179; Sumner, 162, and Harvey with 142. All counties having more than 100 tractors with the exception of Ford, are located in the central third of the state, commonly known as "the great wheat belt of Kansas." All of the farmers of Kansas are in a very prosperous condition and have comfortable bank accounts. The good prices paid for farm crops this year will stimulate a desire for increased production next year. This means that they will purchase more tractors to facilitate this production, and that the present number of machines will be increased at least one-third next year.

New Boys' Reserve Head

C. W. Green of Kansas City, Kan., has been appointed as state director of the Boys' Working Reserve for Kansas. W. L. Porter of Topeka resigned as the state director to enter the army. The appointment of Mr. Green was made by W. E. Hall, director general, upon the recommendation of Governor Capper.

National Work for Dillon

An important conference of agricultural editors was called to meet in the office of the secretary of the United States department of agriculture at Washington, D. C., Wednesday, November 20, at 10 a. m., to discuss the present agricultural situation. Charles Dillon, managing editor of the Capper Farm papers, received a telegram last week from Secretary Houston, requesting him to attend this meeting and take an active part in its deliberations.

Mr. Dillon wired his acceptance of the invitation and left last Saturday for Washington. Mr. Dillon's recent good work in New York City as director of rural publicity for the united war work campaign elicited much favorable comment in every part of the United States. He had been at home in Topeka only a few days when he received a telegram calling him to Washington for the agricultural conference, which was in session there for several days this week. He urged the editors of farm papers to champion the rights of Western farmers at this meeting and insisted that farmers' interests be fully safeguarded in any action that may be taken pertaining to agriculture by the government.

Government Buys Motor Trucks

Contracts for motor trucks, chasses, ambulances, trailers, tractors, passenger cars, motor cycles and bicycles amounting to approximately 130 million dollars have been placed by the motors and vehicles division in the office of the director of purchase and storage to supply the recently organized Motor Transport Corps. The order is the largest ever given by the government for such equipment.

The order calls for 800 3½-ton trucks, 202 2-ton trucks, 600 1½-ton trucks, 600 5-ton chasses, 1020 3½-ton chasses, 6250 3-ton chasses, 2100 2-ton chasses, 565 1½-ton chasses, and 4000 militors, 1200 AA chasses and 24,950 class B chasses. Contracts have also been placed for 3580 10-ton trailers and 150 4-wheel trailers. Orders for 13,500 4-wheel drives have been placed, which are handled as amendments to ordnance contracts.

Other orders include 8000 standard Ford 5-passenger cars, 1000 Dodge 5-passenger cars, 300 Dodge winter cars, 558 limousines, 3000 delivery cars, 18,775 motorcycles, and 25,000 bicycles. Deliveries on these orders are to begin immediately in some instances and will extend over a period of several months.

Coming Poultry Shows

Interest in poultry raising has been increased greatly during the year and all poultry shows report a large number of prospective entries. The following show dates have been announced for the remainder of November:

November 20 to 24—Madison County Poultry Association, Collinsville, Ill., A. P. A. show, D. T. Heimlich, judge; Walter Smith, secretary.

November 20 to 23—Concordia Poultry Show, Concordia, Mo., Otto W. Oetting, secretary; E. C. Branch, judge.

November 25 to 30—Saline County Poultry Show, Marshall, Mo., Miss Roma Fleet, secretary, Slater, Mo.

November 25 to 30—Green County Poultry and Pigeon Association Show, O. F. Smith, secretary, 1954 North Jefferson street, Springfield, Mo.; N. L. Andrews, judge.

Thanksgiving Week—St. Louis Pet Stock Show, P. J. Basler, secretary.

November 25 to December 1—The Heart of America Poultry Show, Kansas City, Mo., Charles G. Gonskie, secretary, 1418 Reliance building.

November 26 to 30—Kansas City, Mo.

November 27 to December 1—Illinois-Missouri-Kentucky Poultry Association, Cairo, Ill., A. P. A. Show, D. T. Heimlich, judge; P. D. Windrom, 826 Twenty-seventh street, secretary.

November 28 to December 2—Quincy Poultry and Pet Stock Association, Quincy, Ill., A. P. A. Show; Johnston and Hale judges; A. D. Smith, secretary.

Allies Plan Farm Congress

Measures to promote close agricultural co-operation between the United States, England, France, Italy and Belgium during the peace reconstruction era are under consideration by the governments of these nations. It was said that to work out effective plans, an international congress of agricultural leaders, including both belligerent and neutral nations, may be held simultaneously with the peace conference. The general idea under discussion contemplates assigning to each country or geographical district the task of specializing in a particular kind of food production it can do best and to eliminate the theory that each nation should be self-sufficient for production of all the food or other agricultural materials it needs. This would be similar to the international pooling of industrial facilities and raw materials supply.

Montana—largest sheep state in the Union—has lost one-half of its wool clip in seven years on account of decrease of sheep.

Cleveland Tractor

Serviceable the year 'round

The Cleveland Tractor is serviceable *every season of the year.*

It is an all-purpose machine.

When winter weather or crop conditions make the Cleveland unnecessary in the field *its usefulness in other lines of work begins.*

It is tractor and stationary engine in one. It will saw wood, pump, drag logs, haul grading or road-making machinery and do practically everything formerly done during the winter months with horses and stationary engines.

The Cleveland lays down its own tracks, travels on them and picks them up again like the famous battle "tanks." It will go practically anywhere—over rough uneven ground, on the side hill or over soft plowed fields.

A traction surface of 600 square inches with a weight of less than 3200 pounds *effectively prevents the Cleveland from packing the soil.*

You can house the Cleveland in less space than is required for one horse. But in spite of its small size it develops 12 horsepower at the drawbar and 20 at the pulley for stationary work.

Under medium soil conditions the Cleveland Tractor plows 3½ miles an hour with two fourteen inch bottoms. This is eight to ten acres a day—equal to the work of three good three-horse teams and three men.

It burns either kerosene or gasoline.

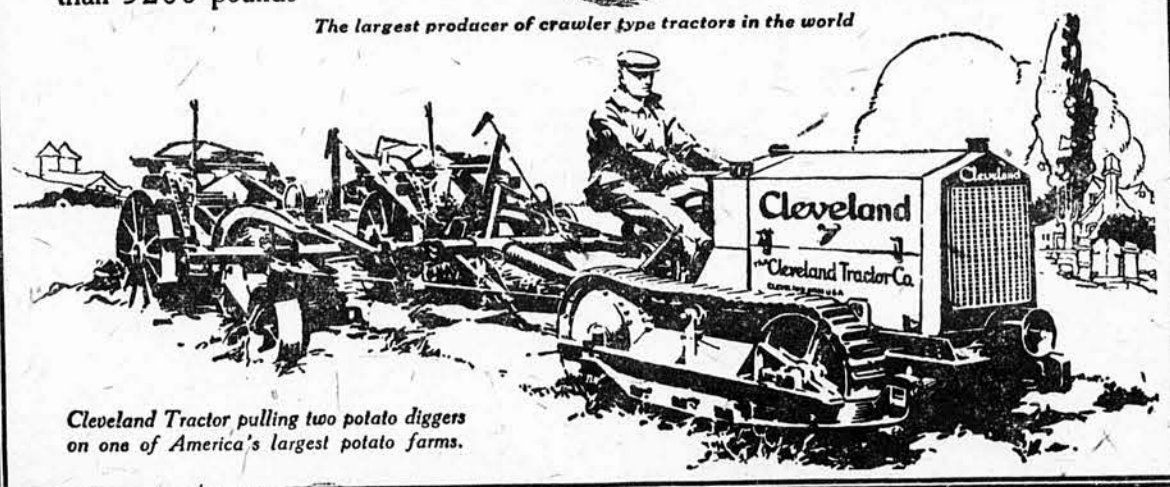
Don't wait till spring to get your Cleveland Tractor. Order it *now* and get the full advantage of its all-purpose, all-season ability *this winter*—and be prepared for the first field work of early spring.

Write for descriptive matter and name of the nearest Cleveland dealer.

The Cleveland Tractor Co.

19045 Euclid Ave. Cleveland, Ohio

The largest producer of crawler type tractors in the world



Cleveland Tractor pulling two potato diggers on one of America's largest potato farms.

American Royal Show

With the lifting of the influenza ban the outlook for the American Royal Livestock show at Kansas City is very favorable and a large attendance is expected by Kansas City and the committee in charge of the arrangements. The show opened November 16 with a good line of entries.

In addition to the high quality of the exhibits, more cattle have been entered this year than ever before. The Herefords alone number 662, or about 150 more than all breeds shown at the Royal last year. They come from 17 states and are exhibited by 64 breeders. This year, for the first time, a Canadian herd is shown, that of Frank Collicut, Calgary, Alta. The Shorthorns number about 360 head, coming from 10 states and are shown by 42 exhibitors. There are only 90 head of Angus cattle, all of them from the West. Last year's show, however, is a poor standard to go by, as the attendance and exhibits both were the smallest in the history of the show. Holding the show at Electric Park, as last year, and at Convention Hall, as formerly, militated severely against the Royal.

This year new life seems to have been injected into the great enterprise by taking it back to its natural surroundings, the Kansas City Stock Yards. The big cash premiums and special prizes are other factors. The total cash prizes are more than $20,000. Of this, $10,000, the largest amount ever offered in premiums on any one breed of beef cattle at a single show, is to go on Herefords alone. The Hereford men are at the show in greater numbers and with more good cattle than they have ever been before.

The judging began Monday afternoon and continued thru the week. Several interesting sales were held. A number of meetings of the various breeders' associations were also held. A full report of the show will be made by J. F. Case, our special representative, in the Farmers Mail and Breeze for November 30.

International Livestock Show

The International Livestock Show will be held this year at Chicago, Ill., November 30 to December 7. A large attendance is predicted and Chicago will try to make the big show a success in every way. Saturday, November 30 is set apart for the students' livestock judging contest; Monday, December 2 for purebred and grade steers; Tuesday for breeding classes of Shorthorns, Aberdeen-Angus, and Red Polled cattle, also for carloads of fat cattle, and special carloads of short-fed cattle; Wednesday for Hereford, Shorthorn and Red Polled cattle breeding classes; Thursday for Galloway, Aberdeen-Angus, and Hereford breeding classes; Friday for Polled Durham, Galloway and Aberdeen-Angus breeding classes; and Saturday for awarding herdsmen's prizes. Special days for swine will be as follows: Saturday, November 30, junior livestock judging contest; Monday all classes of barrows and Clay-Robinson specials; Tuesday Berkshire and Duroc Jersey breeding classes; Wednesday, Poland China and Hampshire breeding classes; Thursday, Chester White and Yorkshire breeding classes; and Friday Tamworth breeding classes. Special days also have been arranged for sheep and horses.

Horticulturists Meet

The Shawnee County Horticultural society held an interesting meeting in the rooms of the state horticultural commissioner in Topeka on Thursday, November 14, that was well attended. A number of excellent talks and discussions were given.

The discussion of the fall preparation of the garden was very interesting to the members present. They all agreed that the accumulated trash consisting of grasses, vegetable vines and tops should be buried or burned. They also agreed that the ground should be deeply plowed or spaded to a depth of 12 or 14 inches, and that it should have a generous application of barnyard fertilizer worked into the soil and topped off with a dressing of the same material. The discussion was participated in by J. A. Merritt, G. W. McIntyre, R. B. Steele, and Mrs. Theodore Saxon.

President A. C. Merritt gave quite an extended talk on the winter care of the orchard. He entered into the details and gave much valuable information as to methods of caring for the orchard. In the discussion that followed the fact was brought out and readily demonstrated that it is better to treat the body of the young fruit trees with some preparation similar to whitewash; this repeated once or twice during the season will prevent the laying and hatching of the eggs which produce the dreaded round and flat headed fruit tree borers.

A nominating committee was appointed to report at the next regular meeting which will be the second Thursday of December, 1918. G. W. McIntyre and R. B. Steele were elected delegates to the annual meeting of the state society which will meet December 17-19, 1918. Mrs. G. W. Crawford and Mrs. Myrtle Rowles were elected alternates.

County Farm Bureaus Meet

An important meeting of county farm agents, members of county farm bureaus, agricultural extension workers, and farmers was held at the Kansas State Agricultural college in Manhattan, Kan., November 21 to November 23. The meeting was held under the supervision of Edward C. Johnson, dean of the division of extension.

Among those who were on the program were President W. M. Jardine, A. A. Hicks, H. B. Fuller, Dean F. D. Farrell, E. E. Frizell, A. F. Turner, Miss Francis L. Brown, Otis E. Hall, H. Umberger, H. B. Fuller, I. N. Chapman, A. C. Hartenbower, G. E. Piper, S. H. Baker, Evan Richards, I. N. Shriver, H. N. Holdeman, Chester H. Guthrie, Walter Burr, representatives of the U. S. Department of Agriculture and other distinguished speakers. An important program for larger and better crops for next year was outlined and plans for increased livestock production were suggested.

Hearing on Cornmeal Standards

A public hearing to consider the advisability of adopting definitions and standards for cornmeal and corn flour will be held by the joint committee on definitions and standards at 10 a. m., December 3, at the Bureau of Chemistry, United States Department of Agriculture, Washington, D. C.

The joint committee on definitions and standards is composed of representatives of the United States Department of Agriculture, the Association of American Dairy, Food, and Drug Officials, and the Association of Official Agricultural Chemists.

Dirty Methods Never Win

From the Ottawa Guardian.

The fine majority for Governor Capper for United States Senator demonstrates once more that dirty politics cannot win. All thru the month of October, the mails were filled with literature from Democratic headquarters making scurrilous attacks on Capper.

The meanest part of the campaign to defeat Capper was the effort to poison the voters against the governor on the charge that he had not been thoroly loyal to the government. Senator Thompson's law partner and political appointee, United States Dist. Attorney Fred Robertson, was the prime mover in this fight, and the people will be a long time forgetting Robertson's reprehensible use of government official machinery to besmirch our war governor's record solely for the purpose of winning votes for the United States Attorney's partner.

It is to the credit of the newspaper profession that only one paper in Kansas—the Topeka State Journal—printed the dirty stuff put out by Robertson.

Don't Forget the Terracing

Thruout many parts of the South and West the hill and rolling lands are subject to erosions from the heavy winter rains. An effective way to prevent this erosion is to build terraces, preferably not less than 15 feet wide, that have been carefully laid out with a good farm level. It is much easier to save lands from washing away by means of terracing than it is to attempt to build up washed and gullied fields.

Put some hens in the backyard.

Carey-ized STOCK TONIC BRICK BLOCK

Relieve yourself of worry about the health of your live stock; do away with the troublesome, uncertain dosing and drenching. Your animals will "doctor themselves" as instinct directs when they have access to Carey-ized Stock Tonic Block or Brick.



Try It for 60 Days Entirely At Our Risk

Place a Brick or a Block of Carey-ized Stock Tonic in your feed lot or pasture for 60 days. Let your hogs, cattle, sheep and horses have free access to it according to directions. If, at the end of that time, your stock is not in better condition — free from worms and disease, making bigger weight gains from the same amount of feed—or if *for any reason* you are dissatisfied with this tonic, return the remainder to your dealer. He will promptly refund every cent you have paid for it—including carrying charges, if any.

This broad guarantee protects you perfectly and relieves you of all risk. Ask your banker concerning our reliability.

Cut Down Chances Of Live Stock Loss

Every day your live stock is exposed to disease in some form—worms, digestional troubles, cholera, etc. Every day you are losing money if your animals are not making maximum gains from the expensive feed they consume.

Insure your hogs, cattle, sheep and horses against worms and disease, against imperfect, wasteful digestion, slow fattening and low prices in late markets. Let your animals have access to Carey-ized Stock Tonic, supplying them in pure form with the tonic and mineral substances they crave and demand for sound health, quick, rugged growth and complete feed assimilation.

A Guaranteed Worm Destroyer and Conditioner for All Live Stock

Carey-ized Stock Tonic Block and Brick are composed of sodium chloride (salt), iron sulphate, quassia, powdered gentian root, carbonized peat, sulphur, charcoal and bi-carbonate of soda—all the best known, highest recommended tonics, minerals and worm destroyers of greatest veterinary authority.

Sold by General Stores, Feed and Hardware Stores, Druggists and Grocers, under our guarantee and 60-day trial offer as above outlined. If your dealer can not supply you, send us his name (no money) and we will send him for you 12 bricks, 35 pounds, at $2.50 f. o. b. Hutchinson, or a 50-pound block $3.00. Or, if you prefer, send us the amounts (P.O. order or check) and we will send you the goods direct, freight charges collect. If at the end of 60 days you are not satisfied, having fed according to directions on the wrapper, we will refund all your money, including all freight charges.

The Carey Salt Company
Dept. 230 Hutchinson, Kansas

Please send me full information on Carey-ized Stock Tonic Brick and Block; also free book "Making Live Stock Pay." (230)

I have.....hogs,.....cows,

.....sheep,.....horses.

My dealer's name.....

.....

P.O.....State.....

My name.....

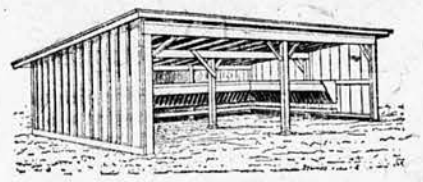
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Soybeans for Sheep

In feeding trials with sheep at the Wisconsin Experiment station, soybeans produced larger gains for a given amount of feed and a heavier clip of wool. In one experiment two lots of 10 lambs each were fed the same roughage. One lot received shelled corn and whole soybeans in equal proportions, while the other received the same quantities of shelled corn and whole oats. The average gain of each lamb during a period of 12 weeks was 16.2 pounds when soybeans constituted a part of the ration, and but 13.7 pounds when oats were used. A pound of gain was produced on 6.11 pounds of grain and 7.11 pounds of roughage in the soybean ration, while 7.28 pounds of grain and 8.62 pounds of roughage were required in the oats ration. In another experiment the same rations were fed for 12 weeks to two lots of nine lambs each. The lot receiving the soybean ration gained 119 pounds in weight and produced 95.1 pounds of wool, as compared with 71 pounds increase in weight and a production of 81.3 pounds of wool for the lot receiving the oats ration. The second lot also consumed more feed for every pound of gain.

Winter Shelter for Sheep

The accompanying sketch shows a good plan for an open sheep shed. It is reproduced from Farmers Bulletin



No. 810, recently published by the Department of Agriculture. The shed is 16 feet wide by 24 feet long, and opens to the south. It will shelter 30 mature sheep, allowing 12 square feet to the head. Such a shed will provide sufficient shelter for sheep thru the winter, except for ewes during the lambing season. Sheep are well protected by nature to withstand cold but they need some protection from the force of cold, winter winds. The bulletin referred to in the foregoing will be found valuable by any sheepman. It covers the subject of equipment for sheep raising. Copies may be had for the asking by writing to the Department of Agriculture at Washington, D. C.

Less Wool in September

Manufacturers used approximately 5½ million pounds less wool in September than in August, 1918, September figures being about 58,300,000 pounds, grease equivalent, compared to 63,900,000 in August. Stocks of wool consumed in September in pounds, by classes, as given by the Bureau of Markets, United States Department of Agriculture, were: Grease, 35,896,421; scoured, 10,143,136, and pulled, 1,608,856. The report shows Massachusetts consumed most wool in September, followed in order by Pennsylvania, New Jersey, Rhode Island, New York, Ohio, Connecticut, New Hampshire, and Maine.

Wool Situation

"There is no more talk of there not being wool enough to supply military needs," says the Chicago Tribune, "and no one doubts that there will be ample for other requirements. For the coming winter and spring seasons there will be plenty of all wool fabrics, because they are already made. So clothing manufacturers keep on advertising garments of all wool made of domestic or imported cloths. In the buying of wool abroad the Army Quartermaster has determined to do this thru his own agents in the future, and men have been selected to go to Argentina and Uruguay for the purpose. There is also talk of co-operation between this country and its allies in the purchase of wool in South America. From South Africa wool keeps coming in, a single cargo received in Boston recently containing nearly 10,000,000 pounds. Because of the need of moving Australasian wool, which has accumulated to an immense quantity, measures will soon be taken to shunt supplies from the antipodes to Great Britain and this country."

Saline Girls Dehorn Cattle

Saline county women have entered farm work in a new role, this time as assistants in dehorning cattle. Women have done everything on the farm that men have done, it was thought, but dehorning cattle was the one thing left. On the ranch of Charles T. Hamilton, near Salina, a large herd of young steers had to be dehorned, and the man-power being short Mrs. C. T. Shields, whose husband has charge of the ranch, and Misses Jeanna and Edna Kezer, visitors on the ranch, were appealed to for help. Without a word of opposition they donned their work clothes and became a part of the cowboy force, and did the work as well as any of the men could have done. They worked two days.

To Build Good Dairy Barns

(Continued from Page 13.)

other plan less costly is to remove a few windows and put canvas across the opening. Enough air will go thru without letting any direct draft come on the cattle.

When possible it will be best to have an open shed for the cows in addition to the regular stables. This should open into a large, well drained lot, where the cows will have plenty of room for exercise. This will cost a little more but it is worth the expense, and will make the cows healthier and more thrifty. Often in the fall and spring a pleasant day may be followed during the night by a cold norther or by sleet storms, and with an open shed the cattle can regulate matters themselves when it becomes necessary to seek shelter.

The hay loft and feed bins should be placed in a separate part of the barn from the part where the milking is done in order to make conditions as sanitary as possible, but suitable carrying devices and machinery should be installed in order to save as much labor as possible in handling the feed. No dairy barn is complete that does not have rat-proof granaries, feed bins, and a good silo well filled with good silage. A good silo will help to increase the amount of milk produced and will soon pay for itself in the increased profits that it insures. No dairy farmer can afford to be without a good dairy barn.

Chase County's Wheat Record

According to a report received by Albert Rogler, county food administrator, from the Chase county threshermen, there were just 184,262 bushels of wheat threshed in this county this year, which grew on 7,320 acres of land. This makes an average yield of nearly 24 bushels to the acre, and is believed by the Chase county farm bureau to be the highest average of any Kansas county this season.

According to Preston Hale, Chase county agricultural agent, there have been from 9,000 to 10,000 acres of wheat sown in this county this fall, the greatest acreage ever put out.



Do *you* think there is no competition?

If anyone thinks there is no competition amongst the big packers he ought to go through a day's work with Swift & Company.

Let him begin at the pens when the live stock comes in; let him try to buy a nice bunch of fat steers quietly and at his own price, without somebody's bidding against him.

Let him realize the scrupulous care taken at the plant that not one thing is lost or wasted in order that costs may be held to a minimum.

Let him go up into the office where market reports are coming in — and reports of what other concerns are doing.

Let him watch the director of the Swift refrigerator fleet, maneuvering it over the face of the country like a fleet of battleships at sea.

Let him take a trip with a Swift & Company salesman and try to sell a few orders of meat.

Let him stay at a branch house for an hour or two and see the retail meat dealers drive their bargains to the last penny as they shop around among the packers' branch houses, the wholesale dealers, and the local packing plants.

And then, when the day is over, let him have half an hour in the accounting department, where he can see for him.. on what small profits the business is done. (Less than 4 cents on each dollar of sales.)

If he still thinks there is no competition in the meat business it will be because he wants to think so.

Swift & Company, U. S. A.

A nation-wide organization owned by more than 23,000 stockholders

Balanced Ration for Hogs

BY T. W. MORSE

In a number of trials pigs have been ry successfully fed from birth to a eight of 250 pounds on a very simple tion, made up of one-third of a pound ily each, of tankage and middlings, r each pig, along with all of the rn that would be readily cleaned up ice a day from the time the pigs are ned until they weigh 75 pounds. om then on until they weighed out 125 pounds they were fed four-ths of a pound each of tankage and ddlings with a full feed of corn, and ter they weighed an average of 125 unds, they were left on a constant tion of one-half pound of each of supplementary feeds with corn fed before until marketed.

In one test, where there were 20 pigs d to a weight of 247 pounds average, ing a ration similar to the one just scribed, except that the pigs weighed pounds at the start instead of being ken at weaning time, the gains of 21 pounds daily were made at a feed quirement of 4.26 pounds of feed, rn, tankage and middlings, a pound in. Figuring the cost of corn at 70 nts a bushel, tankage at $50 a ton and ddlings at $32 a ton, the feed cost s $5.99 for every 100 pounds of gain. this test it should be noted that the gs were not fed nor the feed charged against them during the period in hich they make their most economi-al gains—that is, just after weaning time—consequently had the feed quirements been ascertained from eaning time until they were mar-ted the cost for every 100 pounds of in undoubtedly would have been less an that given.

With a ration of this kind it is easy calculate the amount of middlings d tankage that need to be purchased go along with the corn, about 13 unds of each being required for ch pig a month for the whole feed-g period. The middlings can be dis-ced in the ration by the introduc-on of other feed of a similar kind d composition. Alfalfa, hay or meal, ound oats, altho it is too expensive the usual price, oat middlings, bran rye middlings at times are more ac-ptable than the wheat middlings, pecially when the latter are high in ice or inferior in quality.

December Hog Price $17.50

The November price basis of a min-mum of $17.50 for hogs will be con-ued for the month of December, un-r an agreement reached by the Food dministration, a sub-committee of the gricultural advisory board, hog raisers and packers.

The Food Administration in announc-g a continuation of the present price asis, said it is highly desirable that e light weight hogs be held back for e next thirty days. If withheld at is time, it was said, the possibility f breaking down present price levels ecause of excessive receipts of lighter eights will be avoided.

It is thought by some authorities at January prices will show an ad-ance over the December price on ac-ount of the increased demand for pork hat is expected from Europe.

Hogs Gained 2 Pounds Daily

Washington county hog feeders are atching with interest the hog feeding emonstration carried on under the uspices of the county farm bureau, nder the direction of R. W. Schafer, ounty agent, and R. W. Kiser, exten-ion animal husbandry specialist of he Kansas agricultural college. In his experiment 332 hogs in a dry lot ade average gains of one and two-thirds pounds a day at a cost of 13 ents a pound.

The demonstration, which is being arried on by Frank Godfredson, of reenleaf, started with a mixed lot of 67 hogs in the feed lot. They weighed n average weight of 124 pounds on October 1. They were placed on a ra-ion of corn and tankage in a self-eeder, free choice, which was supple-mented by a slop of crushed barley and linseed meal in the following pro-portions: Barley, 180 pounds; linseed meal, 60 pounds.

Mr. Godfredson purchased all the feed consumed, paying for corn, $1.70 a bushel; tankage, $5 a hundred-weight; linseed meal, $63 a ton; and barley, 2½ cents a pound.

The hogs were purchased in Washington county. The Kansas City market on October 1 quoted hogs of this quality at $18.25. On November 1 this class of hogs was quoted at $17.50.

During the month the net gains of the lot amounted to an average of 49.41 pounds, or approximately 1⅔ pounds a day. This gave gross returns of $8.75 a hog. The feed cost and interest on the investment was $6.74 a hog, giving net returns of $2.01.

During the month five hogs were taken out of the lot. Four of these were sows that were to farrow and they were weighed out and the feed credited. The other hog died and its loss was charged to the risk account of the feeding operation.

The hogs will be kept on feed till December 16, when they will be weighed out and shipped to market.

Hog Prices May Advance

It is stated by the Food Administration that compared with 98 million pounds of pork exported in November a year ago export orders have been placed for 170 million pounds for the present month. For October-November this year exports of pork will come to 300 million pounds against 150 million for the same months last year, an increase of 100 per cent.

What the Food Administration advises hog producers is that every prospect seems to favor higher rather than lower hog prices for next year and there is consequently no call to hustle hogs to market or to deplete stocks.

"It must be evident," says the Food Administration, "that the enormous shortage in fats in the central empires and the neutral countries will immediately upon the signing of a treaty of peace result in additional demands for pork products, which on top of the heavy shipments to the allies will tend materially to increase the American exports, inasmuch as no considerable reserve of supply exists outside of the United States."

Already Germany, Austria, Bulgaria, Turkey and Russia are urging America to ship them all the grain and meat we can spare. The demand for beef and pork is increasing rapidly and far exceeds the supply. If we can find ships enough to transport the food we produce we ought to be able to get good prices for all the pork we can market.

Last Pony Express Rider

William Price Appleby, said to be the last of the pony express riders who in the early days of the West rode the trails between Salt Lake City and San Francisco, died at his home in Salt Lake City recently. He was 80 years old and came to the Salt Lake valley in 1849.

Loans to Our Allies

The extension of a credit of 9 million dollars to Belgium made recently makes the total advances by the United States to Belgium $80,020,000.

The total amount advanced to date to all of our associates in the war against Germany is $7,529,476,000.

How Are You Feeding Your Hogs?

This Way OR This Way



This Plan WASTES Feed and Labor
The waste of feed and labor required to feed hogs this "old fashioned" way cuts down your hog profits.

This Plan SAVES Feed and Labor
The 8 Grand Champion Barrows than won the prize at the National Swine Show were fitted and fed on the SCHUMACHER FEEDING PLAN.

Years ago you could make money farming with an ox-team. YOU CAN'T DO IT TODAY. Changing times and changed conditions demand new and more modern methods.

With the present high price of corn you can't afford to feed it to hogs the old-fashioned wasteful way—every bushel of corn tramped into the dirt means less profit for you at market time, and you know that MANY, MANY bushels are wasted in this way.

But—that is not all—your greatest loss comes from your hogs not making the gains that they should. If you feed your hogs in self-feeders according to the

Schumacher Feeding Plan

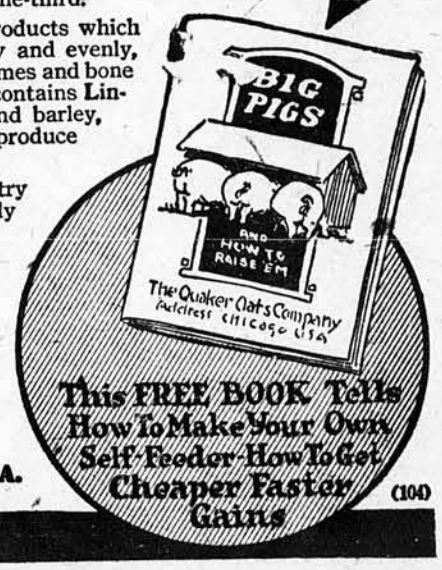
they will make quicker, faster gains with less feed—you will make one bushel of corn do the work of two, because SCHUMACHER FEED being easily digestible, assists in digesting the entire ration. When Schumacher is fed no undigested corn appears in the droppings.

THE SCHUMACHER FEEDING PLAN consists of feeding hogs in self-feeders, provided with separate compartments for SCHUMACHER FEED, corn and tankage. SCHUMACHER FEED, the ideal corn supplement, is cheaper than corn, and the hog when balancing his own ration will eat more SCHUMACHER FEED than both corn and tankage combined, thereby reducing the high-priced corn ration fully one-third.



SCHUMACHER FEED contains a large amount of Oat Products which makes it a wonderful growing feed. It puts on fat rapidly and evenly, and contains necessary elements (not in corn) to build big frames and bone to carry the extra weight which it produces. In addition it contains Linseed Meal, especially selected by-products of corn, wheat and barley, finely ground, kiln-dried and scientifically proportioned to produce the greatest amount of pork at the least cost.

Get a supply of SCHUMACHER FEED from your dealer—try the SCHUMACHER FEEDING PLAN. You will be agreeably surprised at the cheaper, faster gains your hogs will make.



Free Book "Big Pigs and How to Raise Them," written by a leading hog expert. Write today for our Free Book telling how you can build your own self-feeders—Why corn alone is not the best feed for hogs—Why feed is more important than breed—Why the self-fed hog is the best paying hog—How to select a herd boar—How to select a brood sow—Pointers on farrowing—and other valuable information to hog raisers. The book is FREE. Send for it NOW.

The Quaker Oats Co.

Hog Feed Dept. Address, CHICAGO, U. S. A.

This FREE BOOK Tells How to Make Your Own Self-Feeder—How To Get Cheaper Faster Gains

(100)

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Words	One time	Four times	Words	One time	Four times
10	$ .80	$2.80	26	2.08	7.28
11	.88	3.08	27	2.16	7.56
12	.96	3.36	27	2.16	7.56
13	1.04	3.64	28	2.24	7.84
14	1.12	3.92	29	2.32	8.12
15	1.20	4.20	30	2.40	8.40
16	1.28	4.48	31	2.48	8.68
17	1.36	4.76	32	2.56	8.96
18	1.44	5.04	33	2.64	9.24
19	1.52	5.32	34	2.72	9.52
20	1.60	5.60	35	2.80	9.80
21	1.68	5.88	36	2.88	10.08
22	1.76	6.16	37	2.96	10.36
23	1.84	6.44	38	3.04	10.64
24	1.92	6.72	39	3.12	10.92
25	2.00	7.00	40	3.20	11.20

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.

ANCONAS.

ANCONA COCKERELS, $1.50 EACH. CHAS. Hasenkamp, Route 2, Seneca, Kan.

ANDALUSIANS.

THOROUGHBRED BLUE ANDALUSIAN cockerels. Mrs. C. W. Parks, Eureka, Kan.

BRAHMAS.

FOR SALE—LIGHT BRAHMA COCKerels. Kathryn Abbott, New Cambria, Kan.

CORNISH.

DARK CORNISH COCKERELS. SUNNYslope Farm, Stillwater, Okla.

DUCKS.

BUFF DUCKS. SUNNYSLOPE FARM, Stillwater, Okla.

BUFF ORPINGTON DRAKES, $2. HERbert Kruger, Seneca, Kan.

LANGSHANS.

BLACK LANGSHAN COCKERELS, $1.50. Loui Beyreis, Modoc, Kan.

FOR SALE—BLACK LANGSHAN COCKerels. Alice Aldrich, Jamestown, Kan.

BIG BLACK LANGSHANS, BEST LAYERS. Good scoring. H. Osterfoss, Hedrick, Ia.

BLACK LANGSHAN COCKERELS, GOOD strain. Mrs. F. W. Schaede, Yates Center, Kan.

BLACK LANGSHAN COCKERELS, $2.50 IF taken soon. Size. Quality. Ollie Ammon, Netawaka, Kan.

BLACK LANGSHAN COCKERELS, FROM blue ribbon winners. Mrs. D. A. Swank, Blue Mound, Kan.

LEGHORNS.

SINGLE COMB WHITE LEGHORN COCKerels, $1.50. A. Pitney, Belvue, Kan.

S. C. BROWN LEGHORN COCKERELS AT $1.50 each. C. H. Harper, Benkelman, Neb.

SINGLE COMB BROWN LEGHORN PULlets, $15 doz. H. W. Dickson, Quenemo, Kan.

SINGLE COMB WHITE LEGHORN COCKerels, $1.50 each. Joe Myers, Croweburg, Kan.

SINGLE COMB WHITE LEGHORN COCKerels, $1.25. Mrs. Nick Long, Morrowville, Kan.

PURE SINGLE COMB WHITE LEGHORN cockerels, $1.50. Ethel Stevenson, Beverly, Kan.

WHITE LEGHORN, TOM BARRON COCKerels, $2. Mrs. Bayard Stratton, Ottawa, Kan.

CHOICE BUFF—BUFF LEGHORN COCKS and cockerels, $1.25. Mrs. Oliver Butcher, Sedan, Kan.

SINGLE COMB BUFF LEGHORN COCKerels, $1.50 each. C. J. Nielson, Leonardville, Kan.

ROSE COMB BROWN LEGHORN COCKerels, $1.50. Mrs. Henry Moore, Ravenwood, Mo.

PURE WHITE SINGLE COMB LEGHORN hens. Dollar fifty each. J. T. McBride, Blaine, Kan.

SINGLE COMB WHITE LEGHORN COCKerels, $2 or three for $5. Clara Rhea, Salina, Kan.

SINGLE COMB WHITE LEGHORN COCKerels, $2 each. Mrs. Frank Fulliton, R. 4, Loup City, Neb.

ROSE COMB WHITE LEGHORN COCKerels, $1.25 until Nov. 30. Carrie Gardner, Hartford, Kan.

PURE SINGLE COMB BROWN LEGHORN cockerels, $1.25 each. H. M. Schoepflin, Quenemo, Kan.

SINGLE COMB WHITE LEGHORN COCKerels. Young strain, $1.50 each. Ola Willour, Ransom, Kan.

PURE BARRON 287 EGG STRAIN SINGLE Comb White Leghorn cockerels, $2.50 up. Also half Barron and Franz, Yesterlaid pullets, cockerels $1.50. Joseph Creitz, Beloit, Kan.

LEGHORNS.

CHOICE PUREBRED ROSE COMB BROWN Leghorn cockerels, $1.50 each. Perry Dietrich, Aurora, Kan.

THOROUGHBRED SINGLE COMB BUFF Leghorn cockerels, $1.50 each. Carl Larson, Osage City, Kan.

PUREBRED SINGLE COMB BROWN LEGhorn cockerels, $1.50 each; 6 for $8. E. H. Erickson Olsburg, Kan.

ROSE COMB WHITE LEGHORN COCKerels and pullets, $1 and $1.50 each. Ray Shepherd, Thayer, Kan.

PUREBRED SINGLE COMB BROWN LEGhorn cockerels, $1.50 each. Mrs. H. W. Burnett, Osage City, Kan.

FOR SALE—SINGLE COMB WHITE LEGhorn cockerels. May hatch. $1 to $1.50. May Stewart, Raymond, Kan.

PURE BRED ROSE COMB BROWN LEGhorn cockerels and pullets, $1.50 each. Mrs. Art Johnston, Concordia, Kan.

SINGLE COMB WHITE LEGHORN COCKerels, also purebred Rouen ducks, $1.50 each. Charley Russell, Altoona, Kan.

SINGLE COMB BROWN LEGHORN COCKerels, all April hatch, extra fine, $1.50, $5, $7. Amos T. Becker, R. 3, Moundridge, Kan.

200 EGG STRAIN S. C. WHITE LEGHORN cockerels, $5 each, good quality, special prices on more than one. A. R. Fuqua, Caney, Kan.

S. C. WHITE LEGHORN COCKERELS sired by nephews Tom Barron, 284 egg hen and from extra heavy layers, $2. Standard Remedy Co., Paola, Kan.

BIG HUSKY BRED TO LAY S. C. W. LEGhorn cockerels and pullets for sale. Bred right, fed right, range raised. They pay me, why not you? April hatched pullets averaged 18 eggs during September. Beat it. Exhibition quality. Cockerels, April hatched, $5. Two pullets and cockerel, $15. J. S. Stever, Rock, Kan.

MINORCAS.

SINGLE COMB BLACK MINORCA PULlets, $1.50. Sarah Peters, Nashville, Kan.

SINGLE COMB BLACK MINORCA COCKS and cockerels, extra good, $5 each. Claude Hamilton, Garnett, Kan.

PURE BRED SINGLE COMB WHITE AND Black Minorcas. Old and young stock, both sex, at bargain prices if taken this month. Score card furnished with old stock of white variety. A. I. Campbell, Concordia, Kan.

ORPINGTONS.

S. C. BUFF ORPINGTON COCKERELS, $2 and $2.50. Donald Lockhart, Howard, Kan.

DISPERSAL SALE—S. C. BUFF ORPINGtons. 35 hens, 25 pullets, 2 cocks. Virgil Taylor, Holton, Kan.

THOROUGHBRED S. C. BUFF ORPINGton cockerels, $2 to $4. Pullets, $2. Mrs. John Hough, Wetmore, Kan.

THOROUGHBRED ROSE COMB BUFF Orpington cockerels, $2.50; pullets, $2. Fannie Renzenberger, Greeley, Kan.

WHITE ORPINGTON COCKERELS FROM pen best layers headed by cock from 200 egg hen, $5. Mrs. Helen Lill, Mt. Hope, Kan.

100 CHOICE S. C. BUFF ORPINGTON PULlets. Laying now. $2.00 and $3.00 each. Satisfaction guaranteed. Sunflower Ranch, Ottawa, Kansas.

CHOICE S. C. BUFF COCKERELS. SIRED by Martz and Sunswick cocks, $2.50 each this fall. Also three of above cocks, $5 each. Joe B. Sheridan, Carneiro, Kan.

SINGLE COMB BUFF ORPINGTON COCKerels and pullets. Also well improved 40 a. 2 miles of county seat, with or without equipment. Mrs. Pete Dick, Meade, Kan.

PLYMOUTH ROCKS.

BUFF ROCK COCKERELS AND HENS. Lydia McAnulty, Moline, Kan.

BIG BONE BARRED ROCK COCKEREL, $2. Mrs. H. McNary, Hydro, Okla.

PURE BARRED ROCK COCKERELS, $2 and $3 each. A. Kohman, Dillon, Kan.

FINE BARRED FARM RAISED COCKerels. Wm. Spealman, Marysville, Kan.

BARRED AND WHITE ROCK COCKerels, pullets. H. Hicks, Cambridge, Kan.

BIG TYPE BARRED ROCK COCKERELS, $2.50 and $4. Milan Hitchcock, Luray, Kan.

THOROUGHBRED WHITE ROCK COCKerels, $2 each. Henry Thalman, Haven, Kan.

FINE WHITE ROCK COCKERELS, FARM raised, $2 each. Mrs. Dode McMillin, Quenemo, Kan.

EXTRA FINE PURE BARRED ROCK cockerels, $2 each. Martha Shearer, Frankfort, Kan.

PUREBRED WHITE ROCK COCKERELS, $2.50 each. Prize winners. Peter Eitzen, Hillsboro, Kan.

RINGLET, ARISTOCRAT BARRED ROCK cockerels. Light mating, $2 up. Mrs. A. Anderson, Greenleaf, Kan.

RINGLET BARRED ROCK COCKERELS, $3 and $5 each. Mrs. C. N. Bailey and Mrs. Lynn Bailey, Lyndon, Kan.

PURE BARRED ROCK COCKERELS $1.50, pullets $1.25. From nice large stock, farm raised. L. R. Pixley, Wamego, Kan.

WHITE ROCK COCKERELS, 6 TO 8 LBS. Good in shape and color. $2.00 to $5.00 each. W. T. Blackwill, Quinter, Kan.

75 CHOICE BARRED ROCK COCKERELS, $2.50-$3.50 each. Plainview Hog & Seed Farm, Frank J. Rist, Prop., Humboldt, Neb.

PURE BRED WHITE ROCK COCKERELS. Farm raised. Three to five dollars each. Mrs. Emma Conaway, R. 5, McPherson, Kan.

BARRED ROCKS, EGG PRODUCERS. Husky farm raised cockerels, $5. Satisfaction guaranteed. Hiram Patten, Hutchinson, Kan.

PLYMOUTH ROCKS.

BUFF ROCKS—A FEW COCKERELS AND pullets from my Chicago and Omaha winners. All birds shipped on approval. E. H. Kelly, Stafford, Kan.

PARK'S 200 STRAIN BARRED PLYmouths. Cocks, $3; hens, $2; cockerels, $1.50 up; pullets, $1.25. Too cheap, but room. R. B. Snell, Colby, Kan.

PURE BRED BARRED ROCKS, EIGHteen years careful breeding. Cockerels with size and quality, $2 to $5. Glendale Farm, C. E. Romary, Prop., Olivet, Kan.

BIG, HUSKY COCKERELS THAT WILL please you. White Plymouth Rocks of splendid breeding. Cockerels, $2.50 and $3.50 each. Also pullets. Geo. F. Wright, Kiowa, Kan.

WHITE PLYMOUTH ROCKS. EXTRA large, fancy shape, pure white hens, cockerels and pullets for sale. Write Originator of White Ivory strain, Chas. C. Fair, Sharon, Kan.

RHODE ISLAND REDS.

S. C. RED COCKERELS, KENTUCKY stock. J. C. Malone, Lyons, Kan.

ROSE COMB RED COCKERELS, $1.50-$2.50. Mrs. Alta McCollam, Kincaid, Kan.

FOR SALE—CHOICE ROSE COMB RHODE Island Reds, cockerels. Theadosia Toombs, Mullinville, Kan.

S. C. REDS (FIRESTONE STRAIN) CHOICE cockerels from premium stock. C. R. Mace, Garnett, Kan.

S. C. REDS (MAHOOD STRAIN), CHOICE cockerels, pullets, from premium stock. Mrs. E. S. Monroe, Ottawa, Kan.

BIG BONED, LONG, DARK BRILLIANT red, Rose Comb cockerels. Bargains. Sunnyside Farm, Havensville, Kan.

EARLY HATCHED ROSE COMB RED cockerels. Big, growthy fellows, $2. Bargains. J. P. Fengel, Lost Springs, Kan.

ROSE COMB REDS, LARGE DEEP RED classy cockerels, $5 and $3 each. We always please. Mrs. Arthur Dilley, Beattie, Kan.

ANCONA—R. C. RHODE ISLAND REDS. Cockerel for sale $2.00 and up for good breeding stock. Eggs in season. Emmett Pickett, Princeton, Mo.

WYANDOTTES.

WHITE WYANDOTTE COCKERELS, $2. S. Peltier, Concordia, Kan.

FINE WHITE WYANDOTTE COCKERELS, $3. Mollie Paramore, Delphos, Kan.

BUFF WYANDOTTE COCKERELS, $2.50 each. James Hollister, Quincy, Kan.

SILVER WYANDOTTE COCKERELS. EXperienced breeder. Ralph Sanders, Osage City, Kan.

COLUMBIAN WYANDOTTE COCKERELS from prize winners, cheap. J. J. Pauls, Hillsboro, Kan.

FOR SALE—PURE WHITE WYANDOTTE cockerels, $2.50 each. Mrs. Geo. W. Ricklefs, Bendena, Kan.

WHITE WYANDOTTE COCKS AND COCKerels for sale. Laying strain. Mrs. Will Warren, Muscotah, Kan.

FINE WHITE WYANDOTTE COCKS, cockerels. Half price, $2, $3, $4. Mrs. Bert Ireland, R. 3, Holton, Kan.

WHITE WYANDOTTE COCKERELS direct from $15 sire, $2, $3.50 and $5. Mrs. Geo. Rankin, Gardner, Kan.

ROSE COMB SILVER LACED WYANdottes. Best cockerels, $3; cocks and second cockerels, $2. Herbert Kruger, Seneca, Kan.

BIG BONED COCKERELS FROM MY Henrietta line of layers. A few hens and pullets for sale. Plock's White Wyandotte Farm, Clay Center, Kan.

WHITE WYANDOTTE COCKERELS FROM record sires of Steven's American and Barron's English laying strains, $3 to $6 each. Satisfaction guaranteed. H. A. Dressler, Lebo, Kan.

SILVER LACED WYANDOTTES. PURE bred. Farm raised. Entire flock, consisting of hens, pullets, cocks and cockerels. Satisfaction guaranteed. Write for circular. S. B. Dressler, Lebo, Kan.

TURKEYS.

BRONZE TURKEY TOMS, $7 EACH. A. Kohman, Dillon, Kan.

MAMMOTH BRONZE TOMS, $6. MRS. B. J. Herd, Wilmore, Kan.

WHITE HOLLAND TOMS, $5; HENS, $3. Mrs. Jack, Paradise, Kan.

BOURBON REDS. TOMS, $6.50; HENS, $4.50. Joseph Wagner, Towner, Colo.

BOURBON RED TURKEYS, EARLY, FINE mark. Walter Baird, Deerhead, Kan.

NARRAGANSETT TURKEY TOMS, FIVE dollars. E. C. Voigt, Mullinville, Kan.

PURE BRED WHITE HOLLAND TOMS, $7. Hens, $5. Wm. Hartman, Meriden, Kan.

PUREBRED MAMMOTH BRONZE TOMS, $10. Mrs. H. G. Halloway, Fowler, Kan.

PUREBRED WHITE HOLLAND TOMS, $6. Hens, $4. John Theiner, Hooker, Okla.

BOURBON RED TURKEYS. TOMS, $7; hens, $5. Mills Bryan, Osage City, Kan.

BOURBON RED TURKEYS. TOMS, $5; hens, $3. Chas. Gresham, Bucklin, Kan.

WESTERN BRED BOURBON RED TOMS, seven dollars each. W. T. Dunstone, Laird, Kan.

PURE BOURBON RED TURKEYS. TOMS, $5; hens, $3.50. Harold Shaw, Princeton, Kan.

PUREBRED BOURBON RED TOMS, $6 IF taken before Xmas. Mrs. Thos. O'Connor, Waldo, Kan.

LARGE WHITE HOLLAND TURKEYS. Toms, hens. John Immenschuh, St. George, Kan.

BOURBON TURKEYS, $5 AND $6. ROSE Comb Red cockerels, $3. Mrs. Mina Johnson, Erie, Kan.

THOROUGHBRED BIG BRONZE TOMS, $7.50 before Thanksgiving. Walter Frye, Randall, Kan.

TURKEYS.

PUREBRED GIANT BRONZE TURKEYS Toms, $8; hens, $5. Charles Bowers, R. 1 Ellsworth, Kan.

PUREBRED BOURBON RED TURKEYS Toms, $6.50; hens, $4.50. Mrs. S. Hutcheson, Oakhill, Kan.

MAMMOTH BRONZE TURKEY TOMS Extra fine, $6 Nov. $7 Dec. Lindsay Keller, Delia, Kan.

PUREBRED WHITE HOLLAND TURKEY toms, $6.50. Hens, $4.50. Ralph Taylor Great Bend, Kan.

EXTRA FINE BOURBON REDS. MAY hatch. Toms, $6; hens, $4. Mrs. Harry Mitchell, Rozel, Kan.

PUREBRED BOURBON REDS, TOMS AND hens not related, $5 and $4 each. Mrs. Cooper, Hill City, Kan.

FOR SALE—GIANT BRONZE TURKEY toms, from prize stock, Goldbank strain. Vira Bailey, Kinsley, Kan.

FINE, EARLY HATCHED, PURE BOURbon Reds. Toms, $6.50; hens, $4.50. Eugene Weniger, Cleveland, Kan.

WHITE HOLLAND TOMS $6. HENS $4 till December 1st. Order early. Henry Binard, Burlington, Colo.

PUREBRED MAMMOTH BRONZE TURkeys. Toms, $8; hens, $5. Mrs. H. W. Burnett, Osage City, Kan.

PRIZE WINNING WHITE HOLLAND Only a few left. Toms, $7.50; hens, $ R. Mitchell, R. 1, Blue Jacket, Okla.

MAMMOTH BRONZE TURKEYS, MAY hatch, Pennsylvania strains. Toms, $8 hens, $5. Gertrude Tilzey, Lucas, Kan.

PURE BLOOD MAMMOTH BRONZE TURkeys. Gold Bank strain, from prize winners. Jennie Shamburg, Scottsville, Kan.

MAMMOTH BRONZE PRIZE WINNING stock. Early extra large strong birds Toms, $10; hens, $7. Laura Ullom, Lamar Colo.

GIANT BRONZE TURKEYS, FROM PRIZE stock. Goldbank strain. Toms, $8 and $ Hens, $4. Elmer Harris, Medicine Lodge Kan.

TURKEYS, EXTRA FINE FOR BREEDING stock, shipped on approval. Also Brown Leghorn hens. Mrs. Jefferis, Route 1, Kincaid, Kan.

FOR SALE—PUREBRED BOURBON RED turkeys with white tip wings and tail Hens, $4.50; toms, $7. Mrs. Dave Lohrenz R. 2, Linn, Kan.

EXCEPTIONALLY FINE MAMMOTH Bronze turkeys for sale. None better Prices surprising. Gertrude Washington Kensington, Kan.

MAMMOTH BRONZE TURKEYS FROM exhibition stock. Goldbank strain. Large handsome, young fellows. Write us. Geo. F. Wright, Kiowa, Kan.

PURE BLOOD GIANT BRONZE TURKEYS Sired by a son of the first prize winner at the San Francisco Exposition. Satisfaction guaranteed. Dona Daily, Scottsville Kan.

SEVERAL VARIETIES.

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

ROSE COMB RHODE ISLAND REDS AND Barred Plymouth Rock cockerels. Bargains. O. T. Livengood, Natoma, Kan.

FINE BARRED ROCKS, LIGHT BRAHMAS White Leghorns. Cockerels, geese, ducks, guineas. Emma Ahlstedt, Lindsborg, Kan.

58 VARIETIES FINE PUREBRED CHICKens, ducks, geese, turkeys. Prices reasonable. Catelog 4c. A. A. Ziemer, Austin Minn.

OUR MAMMOTH WHITE HOLLAND TURkeys and Embden geese are money makers. Try them. Mrs. Claude George, Route 1 Platte City, Mo.

PURE BRED COCKERELS. RINGLET Barred Rocks and S. C. Buff Orpingtons $3 each if taken soon. Satisfaction guaranteed. The first checks get them. Mrs. R. B. Donham, Talmo, Kan.

POULTRY WANTED.

RUNNER DUCKS WANTED. EMMA AHLstedt, Lindsborg, Kan.

WANTED—200 WHITE LEGHORNS, ONE year old hens and pullets. Mrs. J. Harr Miller, Grenola, Kan.

FOR HIGHEST PRICE SHIP AT ONCE your turkeys, ducks, geese, either alive or dressed, and your chickens alive only, immediately after Thanksgiving. Coops loaned free. Prompt. Reliable. The Copes, Topeka

SEEDS AND NURSERIES.

SUDAN GRASS SEED, GUARANTEED free from Johnson grass, 20c qt. f. o. b. you furnish sacks. W. C. Topliff, Howard Kan.

DON'T FOOL WITH TREE PEDDLERS Write for our prices of high grade nursery stock direct to planters. Ozark Nursery, Tahlequah, Okla.

LANDS.

FARM BARGAINS. WRITE ME WHAT you want. Deane L. Smith, Colony, Kan.

FOR SALE—FINE 1,300 ACRE STOCK ranch, Wichita county, Kansas. Price $ per acre cash or government bonds. Add Sowers, Leoti, Kan.

COFFEY COUNTY FARM. 120 ACRES near town, 50 acres bluegrass pasture, alfalfa, 20 wheat, all tillable, living water good buildings. Extra well fenced. Part bottom. Splendid farm. Good home. per acre, half terms. A. J. Sanders, Hall Summit, Kan.

YOUR CHANCE IS IN CANADA—RICH lands and business opportunities offer you Independence: Farm lands, $11 to $30 acre irrigated lands, $35 to $50; Twenty years pay; $2,000 loan in improvements. Loan live stock. Taxes average under twenty cents an acre; no taxes on improvements, personal property or live stock. Good markets, churches, schools, roads, telephones, excellent climate—crops and live stock prove it. Special homeseekers' fare certificates. Write for free booklets. Allen Cameron, General Superintendent Land Branch, Canadian Pacific Railway, 14 Ninth Avenue, Calgary Alberta.

HONEY AND CHEESE.

HONEY OF SUPERIOR QUALITY 19 crop. Also Green county's famous brick cheese. Write for prices. E. B. Rosa, Monroe, Wisconsin.

ADDITIONAL CLASSIFIED ADS

FOR SALE.

FOR SALE—CATALPA POSTS, CARLOTS. H. W. Porth, Winfield, Kan.

FOR SALE—SECOND-HAND TRACTORS, $150 up. S. B. Vaughan, Newton, Kan.

FEW REBUILT DODGE BROTHERS touring cars. Youngs Garage, Larned, Kan.

THOROUGHBRED REGISTERED HEREford bulls and bred cows. Mrs. Alice Wolfe, Flagler, Colo.

FOR SALE—HUME TRACTOR 20-30, 4 bottom LaCross plow, 110 volt dynamo. Geo. Buntz, Chase, Kan.

FOR SALE—NUMBER OF WHITE OAK tanks, capacity 30 barrels. Good condition. Kaehne Brothers, Topeka, Kan.

FOR SALE—FINE LARGE EARLY OHIO potatoes, 90 cents per bushel, car lots. Wickham Berry Farm, Salem, Neb.

FOR SALE—MODEL L EMERSON TRACtor and three plow gang or trade for motor truck or thresher. Geo. Launders, Yates Center, Kan.

LOOK—HIGH CLASS CAR, LATE SIX, best condition, cost $3,600, will sacrifice, trade for horses, cattle or Ford. Ted Carson, Route 2, Topeka, Kan.

FOR SALE—15-30 OIL-PULL TRACTOR. Avery plow and tractor drills, would trade for stock. Also have a lot of cane seed for sale. Harry Dyck, Ness City, Kan.

FOR SALE—ONE BATES STEEL MULE tractor, 16 horse draw bar, 30 belt. Pulls four 12 inch plows nicely. Nearly new in first class mechanical condition. For quick sale, $750. C. W. Griffin, Chanute, Kan.

BALE TIES WHOLESALE AND RETAIL, lumber direct from mill in car lots, send itemized bills for estimate. Shingles and rubber roofing in stock at Emporia. Hall-McKee Lumber & Grain Co., Emporia, Kan.

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.

DOGS.

SCOTCH COLLIE PUPS FOR SALE. David G. Lewis, Lebo, Kan.

FOR SALE—BEST VARMINT DOG IN Kansas. J. Mitchell, Lafontaine, Kan.

WANTED TO BUY.

WANTED TO BUY—SOME WHITE SWEET clover seed direct from farmer. M. T. Dye, Bloomington, Kan.

WANTED—AN AVERY FOUR CYLINDER double A. posed, must be nearly new in good shape and cheap for cash. Address Box 129, Attica, Kan.

WE WANT TO BUY NEW CROP ALFALFA seed, Sudar grass seed, cane seed, feterita, maize, millet and pop corn. Please quote us with samples. Binding Stevens Seed Co., Tulsa, Okla.

FARMS WANTED.

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

I HAVE A GENERAL STORE LOCATED in good farming town which I would like to exchange for small farm, stock and tools, or would exchange for small farm out to wheat and pay difference. H. M., Farmers Mail and Breeze, Topeka, Kan.

PATENTS.

WANTED IDEAS. WRITE FOR FREE patent guide books, list of patent buyers and inventions wanted. $1,000,000 in prizes offered. Send sketch for free opinion of patentability. Victor J. Evans & Co., 825 Ninth, Washington, D. C.

MISCELLANEOUS.

PRAIRIE DOGS — CLIFTON'S GUARANteed prairie dog exterminator. Sent on trial, $1.50 per gal. Harry Clifton, Lincoln, Kan.

WANTED—A GIRL TO ANSWER BELL and telephone. Cook also wanted, white, country preferred. Write to matron, Bethany College, Topeka, Kan.

WANTED TO BUY HEDGE, LOCUST, MULberry and catalpa posts. Also locust and catalpa groves. Address Fence Posts, care Mail and Breeze.

WANTED—MAN FOR FARM WORK, WIFE for kitchen work. No children. State wages expected. J. H. Taylor, Route 1, Cheyenne, Kan.

BETTER LIGHTS FOR FORDS! INstalled in few minutes, guarantee light equal storage battery, lasts lifetime. Sample, $1.50. Walco Mfg. Co., Wichita, Kan.

UNMARRIED MAN WITH HORSES AND equipment to farm 250 acres on shares. Excellent corn land, can maintain hogs and cattle. If interested and desire full information write B-4, care Farmers Mail and Breeze.

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.

BIG BARGAIN FOR SHORT TIME ONLY. Send only 10 cents and receive the great-est farm and home magazine in the Middle West for six months. Special departments for dairy, poultry and home. Address Valley Farmer, Arthur Capper, publisher, Dept. W. A. 10, Topeka, Kansas.

SHIP YOUR LIVE STOCK TO US—COMpetent 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 Com. Co., 425 Live Stock Exchange, Kansas City Stock Yards.

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 5c a word each week. Send in a trial ad now while you are thinking about it. Capper's Weekly, Topeka, Kan.

TOM McNEAL'S ANSWERS

Telephone Troubles

Is there a penalty for one who makes a noise over the rural telephone when the German language is talked? A READER.

It would depend on what kind of a noise he makes.

Walnut Logs

I am trying to get in communication with some government agent in reference to selling some walnut timber, price paid for logs; size wanted; when to be shipped. A. A.

Address Penrod Walnut Mills, Sheffield, Kansas City, Mo.

Deferred Classification

Is a registrant who is in a deferred class allowed to waive all of his claims for deferred classification? If so how must he proceed to do so? G. F.

In answering his questionnaire he may waive deferred classification making such statement in writing.

Homesteads

Please tell me where I can get information on homesteads and farms. V. D. W.

Write to the register of U. S. Land Office, Topeka, Kansas, for information concerning homesteads. I do not know exactly what you mean about information concerning farms.

Wants to Enlist in the Navy

I am 18 years old and should like to enlist in the navy. To whom should I apply in order to enlist and to whom should I apply in order to enlist in the aviation corps?
MARION S. MAYALL.
Valley Center, Kansas.

If there is no recruiting officer in Wichita take the matter up with your member of congress at Washington.

Keeping Children Off the Streets

Please inform me as to the law keeping children off the streets. How old do they have to be, and is there any exception to that law? H. K. U.
Wichita, Kansas.

That is a matter for police regulation. Go to your city attorney and learn what ordinances there are in your city concerning the matter.

Copyright

Where should a person apply for a copyright for a war song and what is the cost? O. H. S.

Send your application to the Register of Copyrights, Washington, D. C., with copy of song and 50 cents if you wish merely a copyright. If you desire a certificate of copyright for your files send $1.

Landlord and Tenant

If A is renting from B on a verbal lease from year to year and nothing is said about pasturing the wheat, can B turn his cattle on the wheat without A's consent? Can A compel B to keep his stock off?
READER.

B has no right to turn his cattle on the wheat without the consent of A and of course it follows that A can compel him to keep his cattle off the wheat.

Descents and Distribution

A who has a child and some wealth marries B who has a child but no property, but she goes right on the farm with him and takes full charge as he has other business. They accumulate a great deal of property. Now in case of A's death would B's child get anything? Does the personal property go to the widow? What are the laws pertaining to this in Oklahoma, Iowa, Colorado and Montana? SUBSCRIBER.

In case the husband dies without will his wife will inherit one-half of all his property and his child or children the other half. B's child would inherit nothing unless by will. This would be true in each of the other states mentioned so far as B's child is concerned.

You Can Sell Good Poultry Now

The demand for purebred poultry continues, and right now those who have good birds from their past season's breeding flocks, and this year's young birds, are finding ready buyers as soon as they let it be known just what they have to sell.

On July 29, in sending the Farmers Mail and Breeze an advertisement of his Brown Leghorn cockerels, L. D. Speenburg, Belleville, Kan., says: "You will remember I had an advertisement of pullets in your paper, and have sold all of them—could have sold 200 more."

Your poultry advertisement on this page will find buyers for your stock. Try a four-time order now.

WHITE LIGHT FROM KEROSENE Beats Gas or Electric



You can now make your home bright and cheerful and SAVE ONE-HALF ON OIL. Tests by Government and leading Universities prove this wonderful new Aladdin is nearly five times as efficient as the best round wick flame lamps. BURNS 50 HOURS ON ONE GALLON common kerosene (coal oil). No odor, smoke or noise, no pumping up, easy to operate, won't explode. Won GOLD MEDAL. Guaranteed.

TRY IT 10 NIGHTS FREE

Prove for yourself without risk that this remarkable white light has no equal. If not entirely satisfied, return it at our expense. $1000 REWARD will be given to anyone who shows us an oil lamp equal in every way to this new Aladdin.

GET YOURS FREE! We want one user in each locality to whom we can refer customers. In that way you may get your own without cost. Write quick for 10 DAY FREE TRIAL OFFER and learn how to get one FREE.

MANTLE LAMP CO. 391 Aladdin Bldg. **CHICAGO**
LARGEST KEROSENE (coal oil) MANTLE LAMP HOUSE IN THE WORLD

MAKE MONEY SPARE TIME OR FULL TIME! No previous experience necessary. Our trial delivery plan makes it easy. NO MONEY NECESSARY. We start you. Sample sent for 10 days' trial and GIVEN FREE when you become a distributor.



WE BOTH LOSE MONEY IF YOU DON'T SELL YOUR **HIDES** TO **T. J. BROWN** 126 N. Kansas Ave., TOPEKA, KANSAS

Green salt cured hides, No. 1, 19c. No. 2, 18c. Horse hides (as to size) No. 1, $5.00 to $6.75 (as to size) No. 2, $4.00 to $5.75
Write for prices and shipping tags. Payments made promptly.

Butchering Set
PREMIUM NO. 500



SKINNING KNIFE STICKING KNIFE BUTCHER KNIFE

Butchering time is looked upon as a day of drudgery by most farmers. Yet this need not be. With such knives as we offer in this 3-piece butchering set, most of the drudgery may be eliminated. If you intend to butcher it is absolutely necessary that you have one extra good quality 6-inch steel sticking knife, one 6-inch skinning knife and one 6-inch butcher knife, such as we illustrate and describe herewith. The knives are all with 6-inch blades, highly tempered, carefully ground and highly polished. Beech or maple handles. The sticking knife has double razor edge. The set is shipped in a neat carton with charges prepaid.

SPECIAL 20-DAY OFFER—PREMIUM NUMBER 500

By placing our order for ten thousand sets of these knives before war time prices were put into effect, we were able to purchase them at an extremely low price and are now able to offer your the set postpaid with a one-year subscription to Farmers Mail and Breeze for only $1.25. This offer good 20 days only.

FARMERS MAIL AND BREEZE, DEPT. 500, TOPEKA, KANSAS



A Christmas Gift Worth While

There are a great many people to whom, for some reason, you cannot very well send an expensive Christmas present, nor do you want to send them the conventional calendar, or something everyone else sends.

For the small sum of $1.00 you can send a Christmas present to one of your friends. For $2.00 you can send gifts to **three** of your friends—gifts that they will enjoy and appreciate. You will not have to spend time selecting gifts and you will have no packages to wrap.

A Gift that Will Be Delivered 52 Times a Year



If you would make a lasting gift for the small sum of $1.00, send us the name of some friend to whom you desire us to send Farmers Mail and Breeze for one year. For $2.00, we will send Farmers Mail and Breeze to three of your friends, making a gift that will remind them of you every issue from one Christmas to the next.

It is even unnecessary for you to tell your friends about your gifts unless you desire to do so. The editor of Farmers Mail and Breeze will write your friends a Christmas letter and tell them who sends Farmers Mail and Breeze. Fill out the coupons, and send them to us while the impulse of interest says, "Do it now."

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

Gentlemen: Enclosed find..... for which send Farmers Mail and Breeze for the term of one year to persons named in opposite coupon.

Name.....

Address.....

Name and Address of Subscribers.

1. Name.....
Address.....
2. Name.....
Address.....
3. Name.....
Address.....

BARGAINS IN REAL ESTATE

Dealers whose advertisements appear in this paper are thoroly reliable

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

KANSAS

160, improved, $65 a.; $2,000 cash, balance good terms. **I. N. Compton, Valley Falls, Kan.**

IN GOVE CO., Kan., 200 acre wheat and cattle farm, well located. **J. M. Mason, Caney, Kan.**

FOR FARM LANDS in the fine farming Neosho Valley, write or see **S. M. Bell, Americus, Kan.**

CORN, WHEAT and alfalfa lands and stock farms at bargain prices. Write for list. **S. L. Karr, Council Grove, Kan.**

160 A., new imps., 70 cult., bal. pasture, $50 a. Good bargain. **Severns & Hettick, Williamsburg, Kan.**

IMPROVED 160, $1,000 down, balance 6%. Price, $52.50 per a. **E. H. Fast, Burlingame, Kan.**

I HAVE some of the best farms in Kansas on my list. Write me what you want. **Andrew Burger, Burlington, Kan.**

I HAVE the bargains. Well improved farms near town, $40 to $60 per acre. Easy terms. **W. J. LAMB, STARK, KANSAS.**

FOR SALE—A small tract of alfalfa land near town, highly improved. For particulars write **Owner, Box No. 723, Chase, Kan.**

90 ACRES, well improved. All bottom land, one mile of county seat. **F. W. MILLER, YATES CENTER, KANSAS.**

IMPROVED 160, $1,000 down, balance 5%. Price $50 per acre. **F. L. McCOY, ESKRIDGE, KANSAS.**

FOR SALE—All kinds of farms in N. E. Kan. Send for printed list. **Silas D. Warner, 727½ Commercial St., Atchison, Kan.**

FOR SALE—Number 1, wheat and stock ranch, 460 acres. Write for description. **A. C. BAILEY, KINSLEY, KANSAS.**

160 A. Anderson Co., Kan. Well imp., 60 a. wheat, ½ goes; abundance of water, good pasture, $60 acre. **TRIPLETT LAND CO., GARNETT, KAN.**

80 ACRES 2½ mi. town, improved, mi. school. 70 cultivation, $45 acre, $1,200 handle. 80 acres improved, mi. town, school, $60 acre, $2,000 handle. **P. H. Atchison, Waverly, 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.**

CHASE COUNTY STOCK FARM FOR SALE
by owners. 160 acres, 90 acres in cultivation, 45 acres in wheat. Well improved. **BOX 48, R. R. No. 1, SAFFORDVILLE, KAN.**

COME TO LYON CO.
for good wheat, corn and alfalfa land. Best schools, churches and railroads in U. S. A. We have all kinds of farms and ranches for sale. **Staats & Hedrick, Emporia, Kansas.**

360 ACRE CREEK BOTTOM FARM
160 a. choice alfalfa, wheat and corn land, bal. pasture, 60 a. wheat goes with farm, 15 a. alfalfa; $6,000 worth imps. Choice invt. Only $55 per a. **M. T. Spong, Fredonia, Kan.**

WRITE TODAY for our new printed description of a 302 acre farm bargain. Owner wishes to retire. Farm will sell; write for description of any size tract and free descriptive booklet. Write today. **Mansfield Land & Loan Co., Ottawa, Kan.**

RANCH, 830 acres, three miles from county seat, improved. 300 acres wheat and rye. Excellent proposition if you want a stock ranch. Quick sale, $28,000. **THE PRATT ABSTRACT & INVT. CO., Pratt, Kan.**

SMOOTH 320 ACRES, sandy loam wheat land, 300 acres cultivation, in wheat, house, granary, well, mill, fenced, 15 miles out, Texas county, Oklahoma. Terms, price $8,000. Other farms cheap. **Moore & Franklin, Liberal, Kansas.**

QUARTER SECTION improved alfalfa farm, two miles from good railroad town and finest Catholic institution in S. E. Kansas. 48 acres in wheat, ½ goes with farm, purchaser to pay for seed. No overflow land. Price $10,000. **Everett Lowe, Owner, Erie, Kansas.**

160 A. IMPROVED
Two towns close, school ¼ mile. 90 a. cultivation, 25 a. wheat, 3 oil wells, 3 a. strawberries, young orchard, water never fails, irrigated truck patch, $45 per acre, $2,700 down. **S. IMES, ALTOONA, KANSAS.**

WOULD LIKE to locate 300 good families in Wallace county, Kansas, for general farm and stock raising, land paying for itself one to five times this year. Write for what you want. **A. H. Wilson, Sharon Springs, Kan.**

800 ACRES, 6 miles of town, 600 acres grass, small improvements, $20 per acre. $1,400 cash, half of crop for 5 years, without interest, balance 5 years, 6% interest. Best stock proposition in country. **Fouquet Brothers, Ransom, Kansas.**

INVESTORS—Now is the time to buy land. War is over, but the big prices for farm products will stay a long time yet. Wilson county has a record of being one of the best counties in the state for agricultural purposes. I have some of the best farms in the state to sell, right here in Wilson county. Will be glad to show land at any time. Co-operation with other agents solicited. **G. W. MEYER, BOX 566, FREDONIA, KAN.**

NORTH, EAST KANSAS FARMS. Prices from $75 to $140 per acre. **BLACK & DEAVER, HOLTON, KANSAS.**

CHASE COUNTY STOCK RANCH
Square section, 8 miles railroad, 80 acres cultivated, balance bluestem grazing land, nice stream, timber, fine water, good buildings. Fine for the stockman. Price $32,000. Liberal terms. **J. E. Bocook & Son, Cottonwood Falls, Kan.**

80, 3 mi. Waverly. Good 7-room house, good barn, 26x26. Good double granary same size. Good chicken house; 30 a. wheat, ⅓ goes; 30 a. blue grass, bal. spring crops. In best country. Possession any time you want it. Price $6,000. **W. H. LATHROM, WAVERLY, KAN.**

80 ACRE FARM for sale 9 miles north of Wamego and three miles of Lewisville. Has 5-room house and barn for 6 horses, about 65 acres in cultivation. I will sell this cheap to someone wanting a good little farm. Call or write. **O. C. PAXSON, MERIDEN, KANSAS.**

FOR TRADE—Livery and feed barn 100x50 ft., good repair, seven room residence on adjoining lots. Electric lights, city water in both. Rents for $42 month, $6,000. Mtg., $1,800. Want western land. 160, Gray Co., $3,500; Mtg., $1,600. Want good car, carry difference. 40 a. Ford Co., all in wheat, $75 a. Mtg., $1,000. Want clear western land. **E. W. Moore, Spearville, Kan.**

FOR TRADE
Good clean stock of hardware and implements located in first-class town, doing good business, to exchange for farm. Nothing but first-class land desired. **THE PRATT ABSTRACT & INV. CO., Pratt, Kansas.**

NESS COUNTY WHEAT LAND
480 acres located 5½ miles from Ness City. All good smooth land, well and wind mill, barn for 10 head of stock, 60 acres in cultivation, can all be farmed. Price, $30 per acre. Write for list and county map. **GEO. P. LOHNES, Ness City, Kan.**

540 ACRES, 150 acres of bottom land; 125 acres in alfalfa, balance grass. Fair improvements, located at railroad station. Easy terms. Cowley Co. $22,000. Southwestern Kansas land. I can sell in quarters or more at $10 to $12.50 per acre. If you want to buy a farm, ranch or city property, write **JOHN FERRITER, WICHITA, KANSAS.**

240 ACRES, ¼ mile to good town, high school, fine improvements, 9 room house, gas and water. 2 large barns, 2 silos, feed house, garage for 2 cars, and other sheds and buildings. Land all level, all tillable and in high state of cultivation. No rock or waste. Price $125 per acre. Terms. Write for descriptive list of other farms. **Dickey Land Co., Ottawa, Kan.**

120 ACRES Franklin County, Kansas. 3½ miles good railroad town; 35 acres pasture; 50 acres sowing to wheat now; 5 acres alfalfa; remainder cultivation; good house, barn and other out buildings; plenty of water with windmill; close to church. Price $75 per acre. $2,000 or more cash, remainder long time 6%, if wanted. **Casida & Clark Land Co., Ottawa, Kan.**

320 A. CLOSE TO TOWN
Good smooth land one-half plow, balance best pasture, 50 acre clover and alfalfa, 35 a. wheat. Good building, $75 per acre. **T. B. GODSEY, EMPORIA, KAN.**

LANE COUNTY, KANSAS
Write me for prices on wheat and alfalfa, farms and ranches. $10 to $25 per acre. **W. V. Young, Dighton, Kan.**

80 Acres for $5500
Sumner county; good chocolate loam upland; 25 a. pasture, rest farm land; some wheat; plenty bldgs., fruit; poss. March 1. Terms. **R. M. Mills, Schweiter Bldg., Wichita, Kan.**

NESS CO. KANSAS LANDS
Good wheat, alfalfa and ranch lands at from $10 to $25 per acre. Write for price list, county map and literature. **FLOYD & FLOYD, Ness City, Kansas.**

IMPROVED QUARTER
$2,400—$600 CASH
Balance long time 6%. Small house, windmill, fence, cultivated land. Immediate possession. Write owners. **Griffith & Baughman, Liberal, Kansas.**

400 A. WHEAT LAND
Harper county, Kansas. 6½ miles northeast Anthony. Good tenant improvements. 300 acres in cultivation, is practically all rich, deep, producing soil. 100 acres high class grass land, good neighborhood and can sell on good terms. Price $42.50 per acre. **Couch Land Co., Anthony, Kansas.**

MISSISSIPPI

$1.00 AN ACRE DOWN, balance long time. Mississippi Gulf Coast, the poor man's opportunity. Mild climate, good soil, home markets. Free literature. **Dept. B, W. T. Smith, Owner, 227 City Nat'l Bk. Omaha, Neb.**

MONTANA

MONTANA The Judith Basin offers exceptional opportunities to the farmer, stockman and investor. Surecrops by ordinary farming methods. Harvest every year—not once in awhile. No irrigation, splendid climate, excellent water, good markets. You can do better in the Judith Basin. Buy direct from the owners. Prices lowest; terms easiest. Free information and prices sent on request. Address THE COOK-REYNOLDS CO., Box K-1405, Lewistown, Montana

MISSOURI

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

BATES AND CASS CO., MO., improved farm bargains, all sizes. **Duke, Adrian, Mo.**

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

POLK CO., real bargains, in grain, stock, clover farms with fine flowing springs. **W. M. Fellers, Flemington, Mo.**

W. J. BARKER REALTY CO., Bolivar, Mo. Write for booklet and prices. Best bargains in Missouri.

160 ACRES, highly improved. 110 a. cultivated. $4,000; $1,000 cash. Other bargains. **W. D. BLANKENSHIP, BUFFALO, MO.**

STOP! LISTEN! 80 acre part valley farm, $3,500. Well improved; 40 acre farm, $850. Free list. **McGrath, Mountain View, 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.**

115 A., 100 a. fine bottom land, 90 a. cult., 16 a. alfalfa, bal. corn, all fenced, 4 r. house, fair barn, 3 mi. county seat on Sugar creek. Price $7,500. Terms. Write **Sherman Brown, Pineville, McDonald Co., Mo.**

HUNDRED SIXTY acres in Adair county, fifty in blue grass, balance in cultivation, good house and barn, smooth land and no rock, eighty dollars per acre, immediate possession and easy terms. **Kroh Brothers, Scarritt Bldg., Kansas City, Mo., Owners.**

199 ACRES, Ozark valley farm, our best. On fishing stream, no overflow. 125 acres in cultivation. 2 wells, 2 springs. Neat painted dwelling, large barn, granary. Right at village with water power mill, store, school. Splendid location, splendid farm. $70 per acre. Terms. **W. J. Chambliss, Anderson, Mo.**

SOUTH MISSOURI FARMS
Write for full descriptions and pictures of our big bargains. Fine climate; productive soils; pure water; and a crop every year.
Pioneer Investment Co.
H. B. Wann, Mgr., Humansville, Polk Co., Mo.

COLORADO

COME TO Eastern Colorado where good land is yet cheap. Good water, fine climate, good crops, fine stock country. Write for list. **W. T. S. Brown, Seibert, Colorado.**

FOR SALE, or will trade for farm or sheep ranch—thoroughly equipped garage doing paying business and nine-room modern residence located in south central Colorado on trans-continental highway. Poor health reason for selling. **Y, Care Mail and Breeze, Topeka, Kan.**

OKLAHOMA

100 A. ALL TILLABLE. 80 cult. Bal meadow. Close to city. Good imp. $40 per a. **Southern Realty Co., McAlester, Okla.**

ARKANSAS

480 ACRES, S. E. Madison Co., Ark. Timber, water, cash offer. Particulars. **BOX 22, COKEDALE, COLORADO.**

IF INTERESTED in fine farm and timbered land in northeast Arkansas, see or write **F. M. MESSER, HOXIE, ARKANSAS.**

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., Scarritt Bldg., Kansas City, Mo.**

FARM LANDS.

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.**

SALE OR EXCHANGE

EXCHANGE BOOK, 1000 farms, etc. Trades everywhere. **Graham Bros., El Dorado, Kan.**

FOR SALE OR TRADE 160 acres unimproved land near Albuquerque, New Mexico. Price $20 acre. **D. D. Walker, Parsons, Kan.**

FOR EXCHANGE, 160 acres wheat land in Kansas, for improved farm in Southern Missouri or in Arkansas. **J. M. Mason, Caney, Kan.**

FOR SALE or exchange; ranch, improved 320 acres deeded, 1,700 acres leased; all choice level land. Price $4,800. Write **H. P. JONES, SYRACUSE, KANSAS.**

FOR SALE AND EXCHANGE Northwest Missouri farms; the greatest corn belt in the United States. Also western ranches. Advise what you have. **M. E. Noble & Co., St. Joseph, Mo.**

South Africa is holding its own at about the same from year to year. In Mexico sheep and goats have been greatly reduced.

Open Season for Trapping

All persons who plan to engage in trapping during the fall and winter should make sure that they comply fully with the laws regulating trapping and the shipment of animals or animal pelts. In Kansas there is no open season on fox, gray or black squirrels except for fox squirrels between September 1 and January 1.

The closed season in the state for muskrat, mink, raccoon, opossum, skunk, and civet cat extends from March 15 to November 15. However an exception is made when such animals are destroying poultry or damaging other property. Beaver, deer and antelope cannot be taken before 1921. W. C. Tegmeier, the state fish and game warden, at Topeka, Kan., should be consulted for information in regard to many of these matters. County commissioners are required to pay bounties on coyotes and $5 on lobo wolves, on proper proof being made before the county clerk.

Valuable information in regard to traps and trapping may be had free from most of the fur companies.

Housing Livestock

Poultry, hogs, and dairy cattle, to give best results, must be housed, especially at night, as the weather gets cold and frosty. All the buildings used for housing such animals should be put in good condition, and where necessary remodeled along approved lines. Farmers contemplating the construction of new farm buildings should seek the advice of county farm agents or those who are prepared to give expert information on the construction of farm buildings.

Winter's Food and Wood

Look to the winter food supply. The family which has good, clean, hard corn for meal, or wheat for flour, hogs and chickens for the winter meat, laying hens for an egg supply, a good milk cow well fed and cared for, plenty of home canned and dried fruits and vegetables, sorghum, sirup, and vinegar from their own farm, and plenty of good firewood will be safe for the winter and need not spend much time worrying. Look over your storage room and your woodpile. How are you fixed?

Storing Corn

Protect your corn in storage on the farm from injury from insects, rats and mice, and the weather. Remember that corn is worth money. See your county farm agent or send to the Kansas State Agricultural college or the state agent for bulletins telling how best to get rid of rats and mice and how to treat corn with carbon bisulphide to prevent damage from corn weevil.

Saving and Storing Seed

The seed campaign is being more generally understood to be a continuing campaign. First the seed must be saved. Then it must be stored. Afterwards it must be defended—protected against moisture, cold, heat, and vermin of all sorts. A continuing campaign of defense—and nothing less—will insure perfect seed for next year's crop.

Bees Do Better Than Last Year

The condition of fall honey plants this year, is somewhat lower than a year ago. About 37 pounds of surplus honey for every colony of bees was the estimated average yield by September 1, this year, the Bureau of Crop estimates announces. This compares with 36 pounds to the same month in 1917 and 46 pounds in 1916.

Stick to Dairy Cows

After we win the War the world will be in a better condition to produce wheat and other food grains than it has ever been before, and there will be a surplus of grain long before there will be a surplus of milk or beef cows.

In view of these facts the American farmer should positively keep his breeding herds intact and increase them, so that he will be in a position to help supply the world's need for dairy products.

Kansas Crops Worth Millions

The crop situation in the United States while not as good as might be desired, is in many respects much better than many supposed it would be. As previously announced the nation's corn production this year is estimated to be 2,749,198,000 bushels. Other crops are estimated as follows: Kafirs, 61,182,000 bushels; cranberries 374,000 barrels; onions 13,438,000 bushels; cabbage 565,000 tons; sorghum sirup 29,757,000 gallons; clover seed 1,248,000 bushels; peanuts 52,617,000 bushels. Preliminary estimates of production of other crops follow: Buckwheat 18,370,000; potatoes 390,101,000; sweet potatoes 88,114,000; tobacco 1,266,686,000 pounds; flax seed 14,646,000 bushels; pears 10,342,000; apples 197,360,000; sugar beets 6,549,000 tons.

Good rains fell in Eastern Kansas during the past week and the early part of this week. The frost and cool weather that followed will prove very beneficial to the wheat. The acreage this year has been increased very much and if the weather conditions continue favorable thru the winter Kansas will have the biggest wheat crop next summer that ever was known. The present wheat acreage is estimated to be at least 10,200,000 acres and there are some authorities who think it may be considerably more. It is possible that the next wheat crop of Kansas may be worth 400 million dollars. As the recent rains have given the ground a good soaking in nearly every part of the state a good supply of moisture has been stored in the subsoil which will insure good yields of corn, kafir, milo, feterita, alfalfa, cowpeas, soybeans, Sweet clover, Sudan grass, the sorghums and all truck crops. If the weather continues favorable thru the winter and spring, and the demand for food products from foreign countries is as strong next year as most persons think Kansas will have crops worth many millions of dollars, that will put it in the billionaire list of states.

Anderson County—Wheat is ready to go into winter with the soil in good condition. The small creek streams are running again, which will insure stock water this winter. Some fall plowing is being done.—G. W. Kiblinger, Nov. 15.

Brown County—Corn is a good quality, but the yield is low; averaging only about 20 bushels to the acre. There is enough moisture to help the wheat crop considerably. Many farmers are using their wheat fields for pasture. Wheat, $2.08; hogs, $17; corn, $1.30; eggs, 50c; cream, 60c.—A. C. Dannenberg, Nov. 16.

Cloud County—We have had a great deal of moisture the last six weeks and warm weather has induced rapid growth of the wheat crop. Many farmers are pasturing stock on wheat fields to help the feed shortage. The scarcity of stock hogs will mean a shortage of the pork supply. Chickens are not laying well. Butter, 50c; potatoes, $1.35 to $1.50.—W. H. Plumly, Nov. 15.

Coffey County—Damp, warm weather is spoiling our feed crops. Considerable kafir is yet to be cut. The wheat prospects are very encouraging and many farmers are pasturing it. There is a light crop of prairie hay on the farms. Eggs are high and hens do not lay well.—A. T. Stewart, Nov. 16.

Elk County—Fine rains have put the wheat crop in excellent condition. A large acreage was put to wheat this fall. The corn crop was light. Alfalfa hay is plentiful and high. Kafir was damaged by recent rains and much of the crop is still in the fields. Corn, $1.25; wheat, $2; butter, 60c; eggs, 55c.—C. C. Jones, Nov. 16.

Ford County—Early wheat has made a vigorous growth and is providing abundant pasture. Farmers protected early wheat against grasshoppers by the use of poisoned bait. Wheat seeding is about completed. Feed is scarce. Corn this year was largely a failure. Heavy winds during past week have done some damage, blowing down fences and causing some drifting of the soil. Butter is worth 50c; turnips, 25c; eggs, 45c; potatoes from the car, $1.60 a bushel; apples from the car, 4c a pound.—J. C. Hinshaw, Nov. 17.

Gray County—Wheat seeding is almost completed, with the soil in excellent condition. Nearly all of the early grown wheat crop was destroyed by grasshoppers, so many farmers waited until the pests ceased their ravages. The acreage sown is about the same as last year. Stock is doing well, but feed grain is very scarce. Hogs are scarce, and feed costs more than can be realized from the sale of the stock. Wheat, $2.25.—A. E. Alexander, Nov. 15.

Gove County—Wheat sowing has been almost completed. Early sown wheat is doing well. About 1 inch of rain fell November 15 and the ground is in excellent condition. We have plenty of rough feed for our cattle and other stock. Good prices are being paid for poultry, eggs, cream and butter.—Newell S. Boss, Nov. 15.

Harvey County—Our wheat crop never looked better than it does now. Weather is ideal for fall plowing. Livestock is doing well and milk cows sell high. Butter, 50c; eggs, 53c; potatoes, $1.50 to $1.60; apples, $2 to $2.75.—H. W. Prouty, Nov. 15.

Johnson County—Frequent rains with mild weather keeps the wheat and grasses growing nicely and there is abundant pasturage. Have had very few heavy frosts. Public sales continue with fair prices; horses do not sell rapidly and bring low prices. Cattle and hogs sell high.—L. E. Douglas, Nov. 16.

Lyon County—We have had plenty of moisture during the last month. Early sown wheat is growing rapidly due to the heavy rains and mild weather. Stock is in excellent condition. Feeds, such as kafir, feterita and cane, have been damaged with mold root in some fields.—E. R. Griffith, Nov. 15.

McPherson County—Not in many years has the wheat been so good at this time of year. A drive over the county November 12 shows that alfalfa is being cut and will make good feed. Some kafir is being cut; the crop was only slightly frosted. Straw and hay do not amount to much this season.—John Ostlind, Nov. 14.

Neosho County—Feed is high and scarce this fall and this has made stock cattle much cheaper. Wheat has made rapid growth, but the ground has been too wet to pasture. Stock hogs are scarce. Eggs, 55c; potatoes, $1.40; wheat, $2 to $2.05; corn, $1.50; oats, 70c; chickens, 17c.—A. Anderson, Nov. 16.

Osage County—A heavy rain several days ago assured an abundant supply of stock water and also fall and winter pasture. Wheat is in excellent condition and will make plenty of pasturage. Hay men are shipping as rapidly as they can secure cars; cattle shipments are increasing, also, due to shortage of feed. Fodder is not a good crop because of wet weather. Cattle, hogs, young mules, feed and implements sell good at public sales. Horses are not in demand.—J. S. Sims, Nov. 17.

Republic County—It has rained at intervals of every few days for five weeks and the soil is thoroly soaked. The wheat crop needs pasturing but the ground is too soft to hold up the stock. Lots of feed has been damaged by the excessive rains. Butterfat, 64c; eggs, 52c; corn, $1.42.—E. L. Shepard, Nov. 16.

Rooks County—Many farmers are resowing the wheat crop which was killed by grasshoppers. It is estimated that nearly a fifth of the crop had to be resown. Stacking feed and getting ready for winter in general keeps us busy these days. Cattle are scarce and bring high prices at public sales.—C. O. Thomas, Nov. 15.

Sheridan County—The fall wheat prospects are 100 per cent with the ground in excellent condition for winter. For the first time in three years farmers in this county have an abundance of wheat pasture, which is a great benefit considering the shortage of feed.—R. E. Patterson, Nov. 14.

Stafford County—Plenty of rain, nicely distributed, makes the growing wheat prospects very encouraging. Grasshoppers still are doing considerable damage. Corn is being husked and cribbed; the crop made 20 bushels an acre. Stock is thriving on excellent wheat pasture. Lots of stock has been brought in the county to pasture, paying from $3 to $4 a month for each head.—S. E. Veatch, Nov. 16.

Trego County—The winter wheat crop has been sown and the ground is in a very satisfactory condition. Some early wheat is making good pasture. Several heavy freezes have checked the grasshoppers. Stock will go into the winter in excellent condition. Wheat, $2, and very little for sale. Hay, $20; eggs, 50c; butter 55c; butterfat 59c.—C. C. Cross, Nov. 14.

[The Farmers Mail and Breeze desires to have a crop reporter in every county. If you do not find your county mentioned in our list it means that we have no correspondent for your county. We will supply you with post cards and postage and will make you an attractive offer to do this work. Write the Farm Crops Editor of the Farmers Mail and Breeze for further particulars.—Ed.]

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The four novels which appear serially in The Weekly Kansas City Star every year if bought in book form would cost $5.40. You may enjoy these novels and the other excellent features of The Weekly Star by sending fifty cents to Dept. 13, The Weekly Star, Kansas City, Mo., for a full year's subscription. The publishers announce that this offer applies only to Kansas, Missouri, Iowa, Oklahoma, Arkansas and Nebraska.—Advertisement.

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Wilmington, Delaware,
November 8, 1918.

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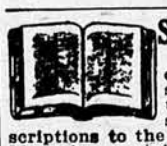
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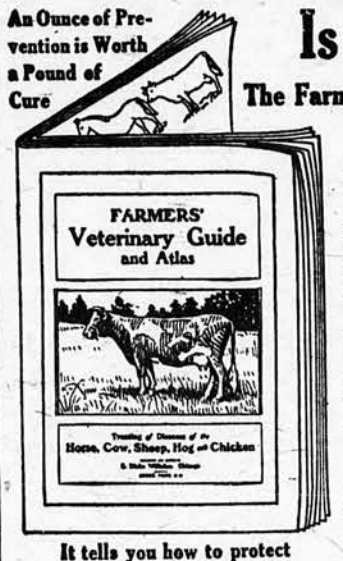
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Partly Pertaining To Purebreds

BY T. W. MORSE

Having undertaken to eat a grape fruit on the strength of the rumor that "taken internally" it constituted a "flu preventive" Hy Geer now rises to ask if getting most of the juice in one's eyes would be construed as an internal application.

Despite comparative failure in Kansas, Oklahoma and much of Missouri and Nebraska, there are two mighty good things about this year's corn crop; the states farther east and north had fair yields, and every statistical bushel therein was really a bushel of feed, and not of shucks, mold and sour kernels, as too often was the case last year.

"Methodists To Make Farmers Contented" says the headline on a story describing plans that the church has to better farming conditions. Not wishing to advise I shall only remark that the usual procedure for organizations which take farmers under their protecting wings, is first to make them discontented.

Washington "experts" are said to be seeking a "new type" of hog; one which will make pork on some less expensive feed than corn. I can put 'em next. Down in the canebrakes of Eastern Arkansas they'll find their type, and if the "Meat Division" goes far enough in its "stabilization" of the pork market this may be about the only type left on the job.

Responding to questions asked our state food administration as to how hog raisers may receive some of the shorts from the wheat raised in their home counties and ground at their home mills, I received a letter telling of our glorious victory, etc. Altho I had heard rumors of victory I was glad to receive this official, autographed confirmation, as it were. But did any of our readers notice an increase of shorts in their swill barrels, on or about 3 p. m. November 14, the time this letter was received?

To Make Horses More Efficient

BY WAYNE DINSMORE

The shortage of labor available for field work in tilling our farm lands has been marked in the last season, and will be still more noticeable in the spring of 1919. The monthly wage of farm hands has also advanced to the highest level ever known. These factors have directed attention to the use of hitches enabling one man to do more work than has heretofore been the rule.

The use of three, four and five horses on larger soil tilling implements has grown in the last few years. Gang plows, 20-disk harrows, and 8-foot binders are numerous now on the farms of the Central West. Unfortunately lack of knowledge of practical hitches for four, six or eight horses has resulted too often, in a lack of power on such implements.

In order to use horses efficiently on the plow hitches must be devised which eliminate sidedraft and enable the horses to work under favorable conditions. Most abreast hitches crowd the work animals and cause sidedraft on the plow. To overcome these difficulties, and work no horses on the plowed ground some form of tandem hitch must be used.

For the disk-harrow, which should be used with a tongue truck, the 3 and 4 abreast hitch is satisfactory when no larger units are desired. Six horses abreast take up too much room, cause crowding and there is some danger of the outside horse turning into the machine. For this hitch a combination of 3 and 3 with extension tugs can be used.

Where heavy hauling is to be done it is frequently desirable to use more than two horses. To get a satisfactory 3-horse hitch on a wagon thills should be used. If more power is desired the most practical hitch is two and two with extension tugs. In this case the neck-yoke must be fastened so that it cannot come off the end of the tongue. In order to get the proper line of draft in all these hitches it is absolutely necessary that the double-trees, or eveners, be of the lengths specified. Wherever possible, the use of the wide singletrees, 30 or 36 inches, should be insisted upon. Complete diagrams showing the proper arrangement of horses in all these various hitches and full information in regard to their uses may be obtained by addressing Wayne Dinsmore, Secretary, Percheron Society of America, Union Stock Yards, Chicago, Ill.

Kansas Hemp Cheapens Twine

Perhaps, the most interesting crop grown this season by the state is the experimental production of hemp at the state penitentiary at Lansing. The state owns half of a big island in the Missouri River and on this island 50 acres were planted in hemp. The crop was prolific, the stalks averaging about 8 feet in height. Samples of the crop submitted to experts to determine its qualities for use in the binder twine factory at the state prison, have been declared first class.

The utilizing of hemp in the bindery twine plant is the real experiment, rather than the growing of the hemp itself. If it develops that hemp can be substituted successfully for sisal, a great reduction in the price of binder twine in harvesting Kansas grain crops will be the result.

Caring for the Hired Man

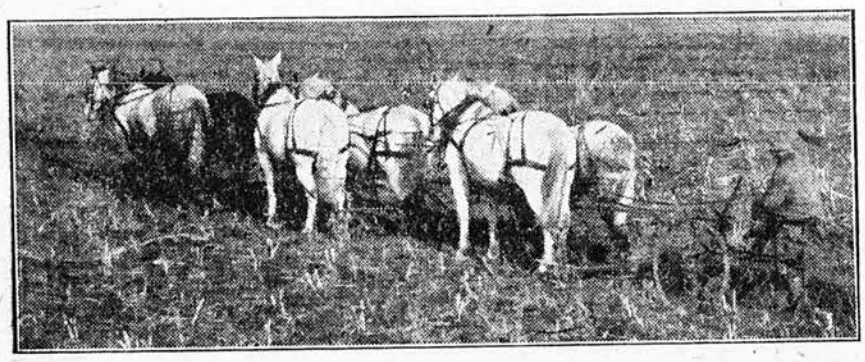
Caring for the hired man has been a big problem of farm life, both for the farmer and for the hired man himself. The farmer and his family want privacy; so does the hired man. They do not like a situation in which they must all eat together and must all spend every evening together.

On many large farms the problem has been solved by building a house for the hired men. This is entirely practicable where a number of men are employed.

On a farm where only one man is needed the year thru, a solution is to get a married man who can be depended upon to stay, and erect a small cottage for him. This relieves the embarrassment of having a stranger or semi-stranger about the farm home constantly, and at the same time it insures a better type of man for the farm work. This plan has been tried in many places, with results favorable both to the farmer's pocketbook and to the comfort of himself, his family and his hired man.

Average Prices for Wheat

For the wheat crop of 1917 the farmers of this country received an average price of $2.05 a bushel; for 1916, $1.44; for 1915, 98 cents; 1914, 99 cents; 1913, 79 cents, as estimated by the Bureau of Crop Estimates. In the past year, state averages (excluding states producing less than 1 million bushels) ranged from $1.83 a bushel in Utah to $2.66 in South Carolina.



Here is one of the Six-Horse Hitches Suggested by E. A. White and J. L. Edmonds of the Illinois Experiment Station.

WHAT BREEDERS ARE DOING

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Of the Capper Farm Papers

T. W. MORSE
Director and Livestock Editor

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The War Industries Board has directed publishers to discontinue sending out all free copies, sample copies and exchanges.

Publishers are permitted to mail to advertisers only such issues of the paper as contain their advertisements.

We are compelled, therefore, to suspend entirely our complimentary list.

PUREBRED STOCK SALES.

Horses.

Nov. 25—Lefebure Bros., Fairfax, Iowa.
Feb. 20-21—Nebraska Pure Bred Horse Breeders' Ass'n Sale, Grand Island, Neb. C. F. Way, Lincoln, Neb., sale manager.

Jacks and Jennets.

Mch. 25—H. T. Hineman & Sons, Dighton, Kan.

Shorthorn Cattle.

Dec. 5—Rogers & Boicourt, Minden, Neb.
Dec. 6—J. H. Hamilton & Son, Guide Rock, Neb. Sale at Superior, Neb.
Dec. 11—F. A. Gillespie, Muskogee, Okla.
Dec. 19—Ben Lyne, Oak Hill, Kan. Sale at Abilene, Kan.
March 5-6—South West Nebraska Shorthorn Breeders' Ass'n, Cambridge, Neb. W. E. McKillip, Mgr.

Hereford Cattle.

Jan. 4—H. R. Wilson, Garrison, Ia.
Jan. 25—Carl Miller, Belvue, Kan.; sale at Alma, Kan.
Feb. 22—C. F. Behrent, Norton, Kansas.

Holstein Cattle.

Nov. 29-30—A. S. Neale and others, Linwood, Kan.
Dec. 3—Hoffman Bros., Hope, Kan. W. H. Mott, sale mgr., Herington, Kan.
Dec. 12—Wichita Holstein sale. Mgr., W. H. Mott, Herington, Kan.
Feb. 11—Nebraska Holstein Breeders' Consignment Sales Co., Dwight Williams, Mgr., South Omaha, Neb.
Feb. 15—W. H. Boughner, Downs, Kan.
Mch. 25—Kansas Holstein Breeders' Ass'n Sale, Topeka, Kan. W. H. Mott, Mgr., Herington, Kan.

Poland China Hogs.

Dec. 19—Ben Lyne, Oak Hill, Kan. Sale at Abilene, Kan.
Jan. 31—J. J. Hartman, Elmo, Kan.
Jan. 30—Adams & Mason, Gypsum, Kan.
Feb. 1—H. E. Myers, Gardner, Kan.
Feb. 1—J. H. Brown, Selden, Kan. Sale at Oberlin, Kan.
Feb. 3—von Forrel Bros., Chester, Neb.
Feb. 4—W. E. Willey, Steele City, Neb.
Feb. 5—Thos. F. Walker & Son, Alexandria, Neb.
Feb. 7—Willis & Blough, Emporia, Kan.
Feb. 7—Frank J. Rist, Humboldt, Neb.
Feb. 11—Otto A. Gloe, Martel, Neb.
Feb. 11—O. B. Clemetson, Holton, Kan.
Feb. 12—B. E. Ridgley, Pickerell, Neb.
Feb. 12—J. M. Barnett, Denison, Kan.
Feb. 18—O. E. Wade, Rising City, Neb.
Feb. 19—A. J. Erhart & Sons, Ness City, Kan, Sale at Hutchinson, Kan.
Feb. 20—Ross & Vincent, Sterling, Kan.
Feb. 22—C. F. Behrent, Norton, Kansas.
Feb. 25—Everett Hayes, Manhattan, Kan.
Feb. 26—Clarence Dean, Weston, Mo., sale at Dearborn, Mo.

Chester White Hogs.

Feb. 11—Arthur Mosse, Leavenworth, Kan.
Feb. 27—Henry Murr, Tonganoxie, Kan.

Duroc Jersey Hogs

Nov. 29—A. E. Sisco-O. H. Doerschlag, comb. sale, Topeka, Kan.
Dec. 5—L. L. Humes, Glen Elder, Kan.
Dec. 11—W. D. McComas, Wichita, Kan.
Jan. 9—J. O. Bayne & Son, Aurora, Neb.
Jan. 20—Theodore Foss, Sterling, Neb. (Night sale.)
Jan. 20—Dave Boesiger, Courtland, Neb.
Jan. 21—C. C. Dee, Tecumseh, Neb.
Jan. 21—J. T. Whalen & Son, Cortland, Neb. Night sale, at Lincoln, Neb.
Jan. 22—Geo. Briggs & Son, Clay Center, Neb.
Jan. 23—F. J. Moser, Goff, Kan., at Sabetha, Kan.
Jan. 23—Farley & Harney, Aurora, Neb.
Jan. 24—H. D. Geiken, Cozad, Neb. Night sale, at Gothenburg, Neb.
Jan. 24—H. E. Labart, Overton, Neb.
Jan. 25—Proett Bros., Alexandria, Neb.
Jan. 28—W. R. Huston, Americus, Kan.
Jan. 28—H. W. Swartsley & Son, Riverdale, Neb.
Jan. 29—A. C. French, Lexington, Neb.
Jan. 31—C. T. White, Lexington, Neb.
Feb. 3—D. L. Wallace (night sale), Rising City, Neb.
Feb. 4—R. Widle & Son, Genoa, Neb.
Feb. 4—Guy Zimmerman, Morrowville, Kan., at Fairbury, Neb.
Feb. 5—F. E. Gwin & Sons, Morrowville, Kan., at Washington, Kan.
Feb. 6—Lester Coad, Glen Elder, Kan.
Feb. 7—L. L. Humes, Glen Elder, Kan.
Feb. 3—A. L. Wylie & Son, Clay Center, Kan.
Feb. 12—Earl Babcock, Fairbury, Neb.
Feb. 12—W. A. Williams, Marlow, Okla.
Feb. 13—Milton Poland, Sabetha, Kan.
Feb. 13—Finerty Farms, Oklahoma City, Okla.
Feb. 13—C. B. Clark, Thompson, Neb.
Feb. 14—W. W. Zink, Turon, Kan.
Feb. 17—Combination sale, Clay Center, Kan. W. W. Jones, Mgr.
Feb. 17—R. E. Steele, Falls City, Neb.
Feb. 18—E. P. Flanagan, Chapman, Kan.
Feb. 18—John C. Simon, Humboldt, Neb.
Feb. 19—T. P. Moren, Johnson, Neb.
Feb. 19—John W. Jones, Minneapolis, Kan., at Salina, Kan.
Feb. 20—B. R. Anderson, McPherson, Kan.
Feb. 21—Mott Bros., Herington, Kan.
Feb. 24—A. L. Eshelman, Abilene, Kan.
Feb. 26—John W. Petford, Saffordville, Kan.
Feb. 26—Gordon & Hamilton, Horton, Kan.
Feb. 27—A. J. Turinsky, Barnes, Kan.
Feb. 27—W. W. Otey & Son, Winfield, Kan.
Feb. 28—R. E. Mather, Centralia, Kan.
Mch. 3—Lester Coad, Glen Elder, Kan.
Mch. 5—W. H. Schroyer, Miltonvale, Kan.
Mch. 7—J. A. Bockenstette, Fairview, Kan., at Hiawatha, Kan.

Hampshire Hogs.

Feb. 3—Lindgren & Nider, Jansen, Neb. Sale at Fairbury, Neb.
Feb. 28—Carl Schroeder, Avoca, Neb. Sale at Nebraska City, Neb.

S. W. Kansas and Oklahoma

BY A. B. HUNTER

J. R. Whisler, Watonga, Okla., sold at auction Nov. 11, 48 Shorthorns at an average of $242. The offering included a number of cows that were along in years. It was not a representative Whisler sale, but rather a reduction sale. The bulls averaged $390. The top of the sale was Baron Avondale, sold to John P. Dunn, Kingfisher, Okla., for $1,325.—Advertisement.

Duroc Herd Boar Cheap.

W. W. Trumbo, Peabody, Kan., has recently purchased a line bred Orion Cherry King herd boar. Constructor, a boar that has sired most of the sows and gilts this boar will be used on, can now be bought at a reasonable price. Mr. Trumbo really hates to part with this boar, but if you want a good boar for hard service and a boar that is a producer of good pigs here is a line bred Col. boar that is worth several times the price asked. Write Mr. Trumbo today, mentioning Farmers Mail and Breeze.—Advertisement.

Lookabaugh's Shorthorn Sale.

H. C. Lookabaugh, Watonga, Okla., sold at Pleasant Valley Stock Farm, Watonga, Okla., November 12, 61 Shorthorns for a total of $39,160, making an average on old and young, $642. The five bulls sold for $10,125, or an average of $2,025; the ten top females sold for $16,730, or an average of $1,673. The highest figure of the sale was $6,000, paid by J. R. Whisler, Watonga, for Lookatonga Sultan, by Fair Acres Sultan. Mr. Whisler also topped the sale on females, buying at $4,100, Pleasant Averne, the show daughter of Fair Acres Sultan, out of Maxwalton Averne 2d. A. J. Morris, Anadarko, Okla., bought the second highest bull and female paying $2,000 for Pleasant Missie, by Fair Acres Sultan and $1,500 for the young bull, Sensation, by Village Supreme. Among the other purchasers were Sam'l Holcomb, Pond Creek, Okla.; F. P. Atherton, Waukomis, Okla.; Asher & Allison, Lawrence, Kan.; Emil Matthew, Apache, Okla.; E. S. Dale, Protection, Kan.; Mrs. Alford Rigdon, Lovell, Okla., and C. F. Jones, Kentland, Ind.—Advertisement.

N. Kan. and S. Neb. and Iowa

BY JOHN W. JOHNSON.

Andrew Deel, Cawker City, Kan., offers high grade Red Poll cows and high grade yearling bulls in his card in the Red Poll section of this issue. Also a registered Red Poll bull one year old. His farm is three miles south of Cawker City. Write him for further information.—Advertisement.

A called meeting of the Kansas Duroc Jersey Breeders' association will be held at Glen Elder, Kan., the evening of L. L. Humes' sale at which time a delegate will be elected to represent the association at the meeting of the State Board of Agriculture at Topeka in January. It is desired that as many members as can conveniently do so attend the meeting.—Advertisement.

There is not much to say about E. H. Brunnemer's Poland China sale at Mankato, Kan., last Monday, except that the offering was without question one of the very best ever sold in Jewell county. Most of the offering was shipped out of the county and much of it went west as far as Norton county. The prices realized were not nearly enough and it was of course a disappointment to Mr. Brunnemer who in his last fall sale at his farm made the highest average of the season at least for central Kansas. The fact that it is almost impossible to buy mill feed of any kind and the scarcity of feed and the high price kept men from buying who ordinarily would have been heavy buyers. Men like Ed Brunnemer should be encouraged and such sales are a disappointment. He has a few boars and gilts at the farm for sale. Address, E. H. Brunnemer, Jewell, Kan.—Advertisement.

High Average Holsteins.

To illustrate the kind of Holstein cattle they sell, Lee Bros. & Cook, of Harveyville, Kan., call attention to the buyers and prices paid for their consignment in the recent Kansas Association sale. They were as follows: No. 74, J. F. Eardman, Independence, Kan., price $250; No. 76, C. L. Goodin, Derby, Kan., price $250; No. 77, J. C. Hearrell, Columbus, Kan., price $455; No. 78, H. A. Hostetler, Harper, Kan., price $360; No. 79, Crist Beyler, Harper, Kan., price $270; No. 80, A. C. Hoke, Parsons, Kan., price $405; No. 81, M. A. Anderson, Hope, Kan., price $275; average, $320.50.—Advertisement.

Good Blood Lines.

Lester Coad, Glen Elder, Kan., has recently purchased of John W. Jones, Minneapolis, Kan., two Duroc Jersey boars for use in his herd. One is 18 months old and sired by Orion Cherry King and out of a sow by Joe Orion 2nd. The other is about the same age and sired by Illustrator 2nd and out of a dam by Illustrator 2nd. They are two great young boars of the richest of breeding and good individuals. The sows and gilts in his bred sow sale in Glen Elder, March 3, will be bred to these boars and this sale will be advertised in the Farmers Mail and Breeze.—Advertisement.

Mitchell County Shorthorns.

Meall Bros., breeders of Shorthorn cattle at Cawker City, Kan., Mitchell county, are starting their advertisement again in this issue of the Farmers Mail and Breeze. As you likely know Mitchell county was one of the counties hardest hit with the drouth this season and feed is very scarce out that way and it is impossible to buy it at any price unless it is shipped in. Because of this fact Meall Bros. have decided to sell 20 splendid two-year-old heifers that are bred and they will price them worth the money. About half of them are reds and the other half roans. They are a beautiful lot and you can buy a splendid pure Scotch bull to go with them that they will include at a fair figure. They would not think of selling these heifers if it was possible to procure

feed. They have 18 young bulls from eight to 12 months old, a number of them pure Scotch and the rest Scotch topped, about half of them roans that they offer at a very fair price. Remember this that the Meall Bros. are among the oldest breeders of high class Shorthorns in central Kansas and that they are not dealing in anything but the kind that should be sold for breeding purposes. They want you to come to the farm and look them over before you buy. Write them for prices and descriptions. They are reliable, careful breeders and good men to patronize. Look up their advertisement in this issue.—Advertisement.

Profitable Poland Chinas.

J. M. Barnett, Denison, Kan., Jackson county, will sell Poland China bred sows at his farm Feb. 12. A major portion of the offering will be tried sows and fall gilts and about half of them are by his great breeding boar, Big Jumbo Chief, and those that are not will be bred to him. Those by him will be bred to a good son of Big Bob Wonder. It is a real offering of high class Poland China bred sows and the day before O. B. Clemetson, his neighbor breeder, will sell in Holton a splendid offering of Poland China bred sows. Both sales will be advertised in the Farmers Mail and Breeze.—Advertisement.

Good Hereford Sale at Council Grove.

One of the good snappy sales of the season was held at Council Grove, Kan., Nov. 16, by the Kansas Hereford Breeders' association. An average of nearly $209 was secured on the 93 lots sold. The female lots, of which about 20 were cows with calves at foot, averaged $218.75 and the 17 bulls averaged $165. Thruout the sale a good discrimination was shown between superior and inferior animals. The top price, $600, was paid by A. P. Loomis, Diamond Springs, Kan. for a young, well bred cow from the herd of E. E. Lillian, selling with calf at foot. One yearling bull sold as low as $60. Three big choice heifer calves sold in a group to J. O. Southard, Comiskey, Kan., at $200 each. One of the best bull buys was made by L. J. Haley, Herington, Kan., in getting Victor 654401, a short yearling at $250. Lew H. Galloway, of WaKeeney, Kan., bought, at $285, the top bull, a good thick yearling, consigned by Peter Grant & Sons. A few bidders were present from outside the state but Kansas buyers took all the cattle, and bidding grew steadily faster as the sale progressed. The auction work was handled in good shape by Earl Garten in the box and Cols. Lowe and Carson in the ring and Sec'y F. H. Manning had the general direction of the sale.—Advertisement.

Registered Holstein Sale.

This is the last call for the big combination sale of registered Holstein-Friesian cattle which will be held at Linwood, Kan., Friday and Saturday, Nov. 29-30. One hundred and thirty-five head will be sold. The catalog is ready to mail and can be had by addressing A. S. Neale, Sales Manager, Manhattan, Kan. The advertisement appears in this issue of the Farmers Mail and Breeze. Look it up and you still have time to write and receive the catalog before the sale. Linwood is between Lawrence and Kansas City and you can go there every hour from either place. It is 20 miles out from Kansas City. Ask for the catalog tonight and you will get it by return mail.—Advertisement.

Coming Sale of Registered Holsteins.

W. H. Boughner, Downs, Kan. has claimed Feb. 15 as the date of his Holstein dispersion which will be held in Downs. Every animal on the farm is registered and he has never owned any other kind. Several years ago he started in to establish a herd of registered cattle that would be a credit to himself and his community. How well he has succeeded you can judge for yourself sale day. The herd is not large but has been culled closely and is one of great merit. Twenty-five cows and heifers will be sold that will freshen within a few days after the sale. It is a great opportunity to buy cows of real merit that will be in a position to pay for themselves in a short time. There will be three young bulls. The sale will be advertised in the Farmers Mail and Breeze.—Advertisement.

Holstein Dispersion Sale.

Hoffman Bros., Hope, Kan., Dickinson county, are well known Holstein dairymen who will disperse their herd of 50 cows and heifers in a big public sale at their farm near Hope, Tuesday, Dec. 3. In this sale will be found a lot of splendid milk cows and heifers. Many of them have records in the Dickinson County Pioneer Cow Testing association and a number of them are in milk now and all will be in milk by February. There are eight two-year-old heifers that are bred. Everything is bred to a splendid bull, registered, and with A. R. O. backing. He is included in the sale. It is an offering of good useful cattle, healthy and in just good condition and not fitted for a sale. Come to Hope and you will find free conveyance to the farm and return. Look up the advertisement in this issue of the Farmers Mail and Breeze. Write for the catalog today and you will receive it by return mail. Address, Hoffman Bros., Hope, Kan.—Advertisement.

Sale a Disappointment.

Last Wednesday was bargain counter day for Duroc Jersey boars at the combination sale at Clay Center, Kansas. Fifty boars were sold and at prices that can't be talked about in respectful society. Originally the sale was to have been held Oct. 22 but was postponed because of the "flu." The 13th was pretty late for breeders' business and the farmers are not buying boars this fall and it begins to look as if the breeders are not buying. Anyway the boar sale was a failure. The top was $107.50 paid by J. P. Johnson, McPherson, Kan., for a spring boar consigned by Edwin Snyder, Westmoreland, Kan. He was a member of the Capper Pig club. The next highest price was $70 paid by Walter Guthrie, Clay Center, for number 22, which was consigned by another Capper Pig club member, S. Peltier, Concordia, Kan. Manager Jones did everything that it was possible for any man to do to make the sale a success but the buyers were not there and of course prices dropped pretty low.—Advertisement.

Shorthorns at Private Sale.

O. V. Sewell, Clay Center, Kan., starts an advertisement in this issue of the Farmers Mail and Breeze in which he offers to sell all of his Shorthorn cattle at private sale. He has not enough to make a public sale and is willing to sell his cattle at prices that will be at least less the sale expense. He offers 14 cows and heifers that are bred to three different bulls, all bulls of merit and all of these cows and heifers will drop calves by spring. They represent in breeding, such families as the Young Marys, Josephines, White Rose and other noted families. They are of good scale and are a good useful lot of Shorthorns and a nice foundation herd for some breeder that wants to start off right. There are also five yearling heifers and three spring heifer calves. The herd bull, Crescent Archer, a Shellenbarger bred bull 18 months old and bought to head this herd and used on a few will be sold. They will be sold all to one party or they will be divided up to suit the purchaser. Write for prices and descriptions. Address, O. V. Sewell, Clay Center, Kan.—Advertisement.

A Boar on Approval.

Adams & Mason, Gypsum, Kan., Saline county, start their advertisement in this issue of the Farmers Mail and Breeze in which they offer Poland China boars at attractive prices. These boars range in ages from March farrow to April and May. The March boars weigh around 300 or a little better and the May boars around 125 and 150 pounds. They were sired by Giant Bob and Wonder Timm, two herd boars in service in their herds that are of the very cream of fashionable breeding and big massive fellows that are deservingly popular because of their great size and ability to produce that kind. The dams are big brood sows that would be a credit to any herd in the land. These young boars they offer at private sale will be priced very reasonably. In fact considerably below their value because they need the room for a big crop of fall pigs. These boars are all immunized and in splendid breeding condition. They record the boar in your name and ship him on approval. You can't beat this offer if you travel all over the country, price and quality considered. Write them at once and mention the Farmers Mail and Breeze when you write.—Advertisement.

Fashionable Duroc Jerseys.

L. L. Humes, Glen Elder, Kan., has claimed Dec. 5 as the date of his big Duroc Jersey bred sow and gilt sale at Glen Elder, Kansas. Eighty-five head will be sold and 15 of them are big, well grown boars of spring farrow. Mr. Humes had planned a bred sow sale in February but recently decided to hold the sale on the above date and include his boars

LIVESTOCK AUCTIONEERS.

JOHN SNYDER, HUTCHINSON, KANSAS, Livestock Auctioneer
Experienced all breeds. Wire, my expense.

Jas. T. McCulloch, Clay Center, Kan.
My reputation is built upon the service you receive. Write, phone or wire.

HOMER T. RULE
LIVESTOCK AUCTIONEER. Write or wire for dates.
REFERENCES: Mail & Breeze, fieldmen and breeders for whom I have sold.
HOMER T. RULE, OTTAWA, KANSAS

COL. E. WALTERS, SKEDEE, OKLA.
sold 1400 head of cattle for $92,889 in 3 hrs. Also sold $6,000,000 worth of oil leases for government in one day. No sale too large. Instructor in Missouri Auction school.

W.B.Carpenter, Hall Bldg., Kansas City, Mo.
23 years on the block. 13 years president of Missouri Auction school, the largest in the world.

HORSES.

FOR SALE OR TRADE FOR CATTLE, registered, quality Percherons, stallions, mares and colts. Chas. Rezean, Cullison, Kansas.

Black Percheron Stallion
five years old; a ton horse; guaranteed a breeder; priced for quick sale.
ROBT. MILLER, NEKOMA, KANSAS

Percheron Stallions
A nice lot of good young stallions, sired by Algarve 2300 pound sire, and by Bosquet, an international grand champion. Priced to sell.
D. A. HARRIS, GREAT BEND, KANSAS

Percherons—Belgians—Shires
Registered mares with colts at side and bred registered fillies, stallions 1 to 5 years old; grown ourselves the ancestors for 5 generations on dam and sire sides imported. Fred Chandler, R. 7, Charlton, Iowa. Above Kansas City.



SHEEP.

Registered Shropshire Yearling Ewes
bred to high qualified imported sires. Also yearling rams. Prices reasonable. E. S. LEONARD, Corning, Ia.

We Have For Sale 70 Head
of extra high grade Shrop yearling ewes for sale bred to registered Shrop rams, to commence lambing the 20th of January; also yearling and ram lambs. Come and see them if you want good ones.
J. R. Turner & Son, Harveyville, Kansas



FOR SALE
A bunch of good big registered Shropshire bucks not high in price. Also registered ewes.
Howard Chandler, Charlton, Iowa

SHEEP REGISTERED { Shropshire Hampshire Southdown
Best of breeding. The oldest and largest flocks in Kansas. One or a car load. See me at all the big shows.
F. B. Cornell, Nickerson, Kansas

MULEFOOT HOGS.

BIG TYPE MULEFOOT spring boars, bred sows and pigs at weaning time. Farmers' prices.
SINN'S MULEFOOT RANCH, ALEXANDRIA, NEBRASKA

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

POLAND CHINA HOGS.

Boars For Sale From Sunnyridge Herd
sired by Big Bobby Wonder 78405 and Blue Valley Timm Jr. 85662, out of big smooth sows. Priced to move them. W. A. PREWETT, Asherville, Kansas

Old Original Spotted Polands
Four yearling tried sows and one male, price $75 each. September pigs $15 each, well spotted. Claude Hamilton, Garnett, Kansas.

BIG TYPE POLAND CHINAS
4 spring boars by King Bob (296603) by Big Bob (212613) dam, Jumbo Rose 2nd. (193950) 4 by Giant Bob (281693) dam, Big Bess No. (21509) by Caldwell's Big Bob (272689). GLEN TOPLIFF, Howard, Kansas.

Poland China Boar
for sale cheap, if taken soon.
The kind you want.
L. D. POWERS, MELVERN, KANSAS

Poland China Private Sale
Spring boars and gilts; also registered tried sows. All pigs pedigreed and priced to sell. Write or see Aug. J. Cerveny, Ada, Kansas.

Old Original Spotted Polands
Stock of all ages. Bred sows and gilts. Satisfaction guaranteed. Write your wants to the
CEDAR ROW STOCK FARM
A. S. Alexander, Prop., Burlington, Kansas

BIG TYPE POLAND CHINAS
CAPTAIN BOB, by Caldwell's Big Bob, assisted by Wonder King, by A Wonderful King at head of herd. Choice spring boars, priced reasonable. All immuned.
Frank L. Downie, R. 4, Hutchinson, Kansas

Hunter's Large Type Polands
Spring boars that will grow large and sire the large kind. They are by Longfellow Timm, by Longfellow Jumbo and out of sows by Big Bob Wonder, Long King's Best Son and other noted sires. All immuned. Write today. BRUCE HUNTER, LYONS, KANSAS.

Poland China Boars
Just a few of my best boars offered. Strictly big type and good all over at farmer's prices for a few weeks.
J. E. Beagel, Dwight (Morris Co.), Kansas

ERHART'S BIG POLANDS
A few fall boars ready for hard service. Can spare two tried herd boars. Have the greatest showing of spring boars we have ever raised. Some by the 1,250 pound, a Big Wonder. All immune.
A. J. ERHART & SONS, NESS CITY, KAN.

Poland China Herd Boars If you want a good boar come and see the ones I am offering or let me write and describe them to you. They are sired by Ex Jumbo, by Monroe's Jumbo and John Worth, a grandson of Goldengate King. My prices are reasonable and I guarantee satisfaction. Homer Souders, Chetopa, Kan.

BIG TYPE POLANDS
For sale, a few big gilts, either bred or open, sired by Jumbo Timm and Col. Bob; also a few boars of same litters. Also an extra fine March yearling sired by Jumbo Timm. SULLIVAN BROS., MORAN, KAN.

Oxford Herd Poland Chinas
Herd headed by Giant Lunker, by Discher's Giant. Herd sows by Caldwell's Big Bob, Rood's Giant, Herchel's Product, Big Fred and Big Ben. Choice spring boars, the really large kind. Satisfaction guaranteed. H. R. Wenrich, Oxford, Cowley Co., Kan.

WARREN'S Large Type POLANDS
An outstanding son of Big Timm heads our sow herd, some that cost up to $1200. Immunized spring boars, with fashionable blood, size and quality. Guaranteed to please.
EZRA T. WARREN, CLEARWATER, KAN.

Townview Polands
Herd headed by the great young boar, King Wonders Giant 77326, I can ship spring pigs, either sex, or young herds not related. Boars ready for service. Bred gilts. Prices and Hogs are right. Chas. E. Greene, Peabody, Kansas

POLAND CHINA BOAR OFFER
To move my choice boars in a few weeks I will make very reasonable prices. Only good ones offered. Sired by A Wonder 2nd. 2082351 and out of large sows.
O. H. FITZIMMONS, WILSEY, KANSAS.

CHOICE SPRING BOARS
also two extra good yearling boars. Sired by Spotted Duke and Moser's 5th. Spot, out of sows by Spotted Jumbo; Brandywine and Spotted King. I am pricing these boars in line with their breeding and individuality. No sows or gilts for sale.
O. S. JOHNSTON, BONNER SPRINGS, KANSAS.

Large Type Poland Boars
20 choice young boars by such sires as Model Wonder, by Big Bob Wonder; The Giant, by Hercules, by Big Ben; King Ben, by Giant Ben; Capt. Gerstdale Jones; Big Bob Jumbo and A Big Wonder.
ROSS & VINCENT, STERLING, KANSAS

Poland China Boars of Spring Farrow
Big nice ones at attractive prices. Also gilts same age sold open. Also fall pigs, either sex, bargain prices. Pedigree with each pig.
N. M. BAILOR & SON, ALLEN, KANSAS

FAIRVIEW POLAND CHINAS
15 heavy boned March boars, the tops of our entire spring crop. Also choice gilts. Reasonable prices. Write us your wants.
P. L. WARE & SON, PAOLA, KANSAS

POLAND CHINA BOARS
For sale 3 November boars by Jumbo King, weight 250 pounds, 20 spring boars by Big Bob's Model, weighing 750 pounds at 18 months old. Sure breeder, lots of quality. Come and see them. 3 mi. N. W. of town.
A. L. ALBRIGHT, WATERVILLE, KANSAS

POLAND CHINA HOGS.

SPRING BOARS out of Big Joe 30331, out of Big Bob Jumbo 275307. Lots of Hadley blood. E. CASS, COLLYER, KANSAS.

Big Type Poland China Boars
September yearling and March pigs representing such blood as Big Timm Again 282681, Wedds Long King 62491, Model Big Bone 83806 and Smooth Columbus. Immuned double treatment. W. D. Lorimer, Olathe, Kan.

BIG TYPE POLANDS
Young heavy boned boars ready for service $40. Pedigrees furnished. Satisfaction guaranteed. Henry S. Voth, R. 2, Goessel, Kan.

Myers' Big Type Polands
Choice spring boars by Jumbo Bob, whose sire and dam's sire were the same as the world's champion Caldwell's Big Bob. Others by Myers' Joe Orange and Maple Grove Big Bob. All immuned. Write
ELMER MYERS, HUTCHINSON, KANSAS

Big Type Poland Pigs
September farrow. Bred right. Priced right, $25. Can furnish trios. Order now to be shipped when ready.
FRANK B. MILLER, LANGDON, KANSAS.

BIG TYPE BABY PIGS
Best Poland China breeding. $20 each. Pedigree with each pig. Big massive sires and out of big prolific sows.
J. L. GRIFFITHS, RILEY, KANSAS

Big Type Poland Chinas
Poland China boars, also a few sows and gilts, 35 spring boars, 4 fall boars, most of them sired by Rist's Long Model, first prize senior yearling boar, Nebraska State Fair 1918. Some herd boar prospects here. Owing to the influenza our sale of October 31 could not be held. We are going to move this great offering at sacrifice prices, at private sale. Write for my catalog which gives full description of each animal.
Plainview Hog and Seed Farm
Frank J. Rist, Prop. Humboldt, Nebraska

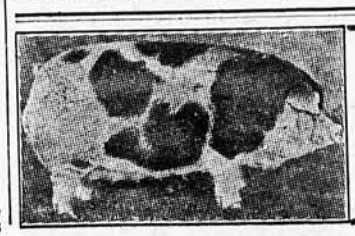
NORTON COUNTY POLANDS
I have 40 spring boars and gilts sired by splendid big type boars and out of big prolific sows. Iowa and Nebraska type. They are good. Write for descriptions and prices.
John F. Foley, Oronoque, Kansas.

WIEBE'S BIG-TYPE POLAND CHINAS
Are guaranteed to suit the buyer. We ship C. O. D. or on approval. We have a variety of breeding from the best and most popular blood lines and can sell pairs not related. We offer twenty big, smooth fall gilts; tried sows; two fall boars and a very choice lot of spring pigs; many herd boar prospects. All immuned. Priced reasonable. Discount given on early sales.
G. A. WIEBE & SON,
Beatrice, Nebraska, Route 4, Box M.

POLAND CHINA BOARS
The get of these great sires: Our Big Knox, Blue Valley Timm, Walter's Jumbo Timm, and Gathsdale Jones. Gilts reserved for our bred sow sale.
Willis & Blough, Emporia, Kansas.

Millers' Big Immune Poland Boars
25 big spring boars the tops from spring crop sired by State Line Gerstdale, a great son of Gerstdale Jones. 2 fall yearling boars of Gerstdale Jones and out of one of the biggest sows of the breed. We are making no public sales and offer these boars at private treaty at reasonable prices. Also 20 fall gilts open.
R. Miller & Son
Chester, Neb.

BOARS ON APPROVAL
Sired by Giant Bob and Wonder Timm. Big splendid fellows that we must dispose of. Recorded in your name and they are real herd header material and priced below their value to move them quick.
Note: We are booking orders for September pigs, either sex, that will be immune and ready to ship about Dec. 15. Bargain prices in pairs and trios.
All immunized.
ADAMS & MASON, Gypsum, Kan.
(Saline county)



Old Original, Big-Boned SPOTTED POLANDS
The kind our forefathers raised. Spring boars, bred sows, and fall pigs for sale NOW.
Write at Once.
EVERMAN STOCK & POULTRY FARM, Rt. 5, Gallatin, Mo.

CHESTER WHITE OR O. I. C. HOGS.

O. I. C. PIGS. September farrow. Ready to ship. E. S. Robertson, Republic, Missouri.

CHESTER WHITE spring boars for sale W. E. Ross & Son, Smith Center, Kansas

Chester Whites 15 good gilts and a few boars for sale. E.E.Smiley, Perth, Kan.

30 O. I. C. Sow Pigs
Big smooth kind. Harry W. Haynes, Grantville, Kan.

F. C. Gookin, Russell, Kan. is in the draft and must dispose of his Chester Whites. Herd sows, herd boar, spring pigs, both sexes. Address as above.

CHESTER WHITES
Summer and fall pigs.
A. G. COOK, WALDO, KANSAS

Big Stretchy Chester White
boars sired by some of the breed's most noted boars and out of extra good sows. New blood.
HENRY MURR, TONGANOXIE, KANSAS

CHESTER WHITE HOGS
With senior and grand champion boar, senior and grand champion sow at Kansas State fair, we have pigs for sale.
COLEMAN & CRUM, DANVILLE, KANSAS

KANSAS HERD OF CHESTER WHITE SWINE
Nothing but boar pigs for sale. See King's Best at State Fair.
Arthur Mosse, Route 5, Leavenworth, Kansas

HAMPSHIRE HOGS.

MESSENGER BOY BREED
Service boars. Spring boars and gilts. Weanling pigs. F. T. Howell, Frankfort, Kansas.

Scudder Bros. Hampshires
Nicely belted, easy keeping, quick maturing, the kind that farrow and raise large litters. Natural rustlers and the healthiest breed of hogs in the world. Fashionable breeding. Cholera immuned. Write
SCUDDER BROS., DONIPHAN, NEBRASKA

Hampshires On Approval
Won highest honors at Kansas state fairs, 1918. For sale: Boars and gilts weighing 225. Gilts open or bred to a champion. Fall pigs, either sex, in pairs and trios. I ship on approval.
F. B. WEMPE, FRANKFORT, KANSAS



SHAW'S HAMPSHIRES
Six strong yearling boars, grandsons of Messenger Boy, ready for hard service. Satisfaction guaranteed. All immuned. Write
Walter Shaw, R.6, Phone 3918, Derby, Kansas, Wichita, Kansas.

BUCK'S HAMPSHIRES
They farrow and raise large litters. Special prices on boars. Sows and gilts to farrow this fall. Let me start you in the Hampshire business with a good boar and a few sows or gilts to mate with him.
125 head from which to select.
Best of blood lines, such as Messenger Boy, Lookout, etc. These hogs will please you. So will the prices. Write today.
C. I. BUCK, CANTON, OKLA.

HAMPSHIRE PRIVATE SALE
7 good October yearling boars. 20 March boars. 20 March gilts. A few choice fall yearling gilts. All Messenger breeding and the gilts bred to a son of the grand champion Senator, or open. All are well grown and well belted. Prices reasonable.
OLSON BROS., ASSARIA, KANSAS
12 miles south of Salina.

DUROC JERSEY HOGS.

FOR SALE Eighteen choice Duroc spring boars; Great Pathfinder, King's Col. and Orion breeding. Priced right. Ralph Lozier, Carrollton, Missouri.

PRIVATE DUROC SALE
Five April boars, 26 spring gilts by Sensation Wonder. Six fall yearling gilts. Six tried sows. Sows and gilts sold open or to be bred. I guarantee every animal I sell.
J. O. HONEYCUTT, MARYSVILLE, KAN.
(Formerly J. O. Hunt Herd)

R. E. Kempin's Durocs
20 March Boars; 20 March Gilts.
Mostly by my herd boar, Chief Critic, and out of big type sows. Special prices to move them. Vaccinated double treatment. A few by King Sensation.
R. E. Kempin, Corning, Kansas
(Nemaha Co.)

Woody's Durocs
The big, high backed, long legged kind. The kind that gets big. I have a fine bunch of selected March boars for sale of Pathfinder, Sensation, King's Col. and Educator's Orion breeding. Educator's Orion was sired by King Orion Cherry and was one of the top boars sold in world's record breaking boar sale last October. They are all immuned and priced right. I also have a senior yearling boar, a grandson of Old Gano, for sale. Write or come and see.
HENRY WOODY, BARNARD, KANSAS

in the sale. The Humes herd is one of great merit, both in breeding and individually. Last winter he was one of the Kansas breeders who bought in the best sales in Nebraska, Iowa and Missouri, as well as Kansas sales. In the sale will be five spring gilts by Joe Orion 5th, the great breeding boar in the Geo. Briggs herd and out of a valuable sow bought at a long price in the last winter Briggs sale. Three gilts are by The King, by Orion Cherry King and eight are by Cherry King Disturber. Two are by Pal's Giant, a great Briggs boar, and two others by Great Wonder 2nd. The boars are brothers to these gilts and the balance of the boars and gilts are by other noted boars. Every sow and gilt is bred to High Orion Cherry King, a splendid son of the noted Orion Cherry King, and a half brother to any number of noted sires among the most noted of which is Great Orion, Orion Cherry King Jr., the world's champion and the noted Longview boar sold for $10,000. Eighty-five head makes a big sale and there are sure to be real bargains in the sale. They will sell for less than half what they will command in bred sow sales later on in the season. So write to L. L. Humes, Glen Elder, Kan., and plan to get a few of these sows and gilts while they are to be had for less than half the price they will surely command in February.—Advertisement.

Nebraska and Iowa

BY JESSE R. JOHNSON

J. H. Hamilton & Son and John Ohmstead, Shorthorn breeders of Guide Rock, Neb., together with several other Shorthorn and Polled Durham breeders, have joined forces and will hold a big reduction sale at Superior, Neb., on Dec. 6. The offering of sixty head will be one of the good ones of the season. Each consignor is putting in his surplus stock and stock raised on his farm under natural farm conditions. Much of the offering will be the get of straight Scotch bulls and several head will be of pure Scotch breeding. Hamilton & Son are consigning a great line of young bulls and heifers sired by their great Scotch bull, Jubilee Goods. This outstanding good herd bull also goes in this sale. Mr. Ohmstead is putting in a nice line of large cows and heifers, including some Polled Durhams. The offering as a whole will be a good useful one and readers of this paper in the market for good cattle should write at once for catalog to J. W. Hamilton, sale manager, Guide Rock, Neb.—Advertisement.

S. E. Kan. and Missouri

BY C. H. HAY

If you are thinking of buying Durocs, either boars or gilts we would like to call your attention to the high class blood lines offered by the Lant Bros., of Dennis, Kan. For the past twenty years this firm has been breeding a superior type of Durocs. They are offering at private treaty some of the best spring boars and gilts that we have seen this year. They carry the blood of Orion Cherry King, King The Col., Long Wonder, Illustrator 2d, Golden Model Again, Pal's Col. Jr. and other noted boars. These boars and gilts will please the most discriminating buyer. Look up the Lant ad and write them.—Advertisement.

Better Holsteins to Kansas.

North Country Farms report a sale of an express load of 27 purebred Holstein cows and bred heifers sold to F. J. Searle and O. A. Bales, of Lawrence, Kansas. This is probably the largest retail sale of purebreds ever made in the North Country and we feel much pleased that after an extended search for car of high class purebreds they should select them at North Country Farms. We sold them our senior herd sire, Admiral Walker Butter Boy, as we have fifty of his daughters, all beautiful individuals, yearlings and two-year-olds which will be tested when fresh; this should give this beautiful son of Admiral Walker Pietertje a long list of A. R. O. daughters to start his career in Kansas. We feel he will make good in the herds of Messrs. Searle and Bales.—Advertisement.

The Week's Market Report

(Owing to the fact that this paper necessarily is printed several days prior to the date of publication, this market report is arranged only as a record of prices prevailing at the time the paper goes to press, the Monday preceding the Saturday of publication. All quotations are from the Kansas City market.)

Wheat—No. 1 dark hard, nominally $2.20@2.21; No. 2 dark hard, nominally $2.17@2.18; No. 3 dark hard, nominally $2.13@2.13½; No. 4 dark hard, sales nominally $2.09@2.10; No. 5 dark hard, sales $2.06.

No. 1 hard, sales $2.19; No. 2 hard, sales $2.15@2.15½; No. 3 hard, sales $2.11@2.12; No. 4 hard, sales $2.07@2.09; No. 5 hard, sales $1.98@2.04.

No. 1 red, sales $2.18; No. 2 red, sales $2.15; No. 3 red, nominally $2.11.

No. 2 mixed, sales $2.14.

Corn—No. 2 mixed, nominally $1.49@1.52; No. 3 mixed, nominally $1.43@1.45, sales $1.45; No. 4 mixed, nominally $1.34@1.36.

No. 2 white, nominally $1.49@1.51, sales $1.50; No. 3 white, nominally $1.43@1.45, sales $1.45; No. 4 white, nominally $1.36@1.42, sales $1.42.

No. 2 yellow, nominally $1.50@1.53; No. 3 yellow, sales new $1.51, old $1.46; No. 4 yellow, sales new $1.46, old $1.36.

Oats—No. 2 white, nominally 71@71½c; No. 3 white, sales 70@71c; No. 4 white, nominally 69½@70c.

No. 2 mixed, nominally 68@69c; No. 3 mixed, nominally 67@68c.

No. 2 red, nominally 72@75c; No. 3 red, nominally 71@72c.

Kafir and Milo—No. 2, nominally $2.90@3.05; No. 3, nominally $2.85@2.95.

Rye—No. 2, sales $1.51.

Barley—No. 4, sales 97c.

Bran—Nominally, sacked, $1.32@1.34.

Shorts—Nominally, sacked, $1.41@1.44.

Mixed Feed—Nominally, sacked, $1.38@1.40.

Hogs—Bulk, $17.00@17.50; heavy, $16.90@17.55; packers and butchers, $17.10@17.55. No other change.

Cattle—Prime fed steers, $17.50@19.50; dressed beef steers, $12.00@18.00; western steers, $10.00@15.25; southern steers, $6.00@12.00; cows, $5.00@11.00; heifers, $6.50@12.00; stockers and feeders, $6.50@14.50; bulls, $6.50@9.00; calves, $7.00@13.00.

Sheep—Lambs, $11.50@15.50; yearlings, $10.00@11.50; wethers, $9.50@10.50; ewes, $8.00@9.65; stockers and feeders, $6.00@16.00.

Hay—Alfalfa, choice, $32.50@33.50; No. 1,

DUROC JERSEY HOGS.

Seven mo. old Duroc Jersey boars. Reg. $30. Valley King the Co. and Illustrator II strains. Simmons & Simmons, Route 3, Erie, Kansas

DUROC JERSEY May and June gilts for sale now, prices and description by return mail. MAURICE M. CASEY DORRANCE, KAN.

Duroc-Jersey Boars and Gilts with up to date breeding. We can furnish pairs and trios not related. R. T. & W. J. GARRETT, Steele City, Neb.

Duroc-Jersey Boars
of March, April, and May farrow, priced to sell. Come or write. JOHN A. CURRY, Elmont, Kansas.

HARRISON'S DUROC JERSEYS
September and March boars from champion boars and sows. W. J. Harrison, Axtell, Kan.

McComas' Durocs
Big roomy herd sows, daughters and granddaughters of up to date grand champions on both sides, with litters by champion and sons of champions. If you want spring boars and gilts, something good, write
W. D. McCOMAS WICHITA, KANSAS

Burg's Durocs Illustrator and Pathfinder breeding. March pigs at $50 as good as there are in Kansas. Satisfaction guaranteed. Also purebred mammoth bronze turkeys.
A. H. BURG, LAKIN, KANSAS

CHOICE SPRING BOARS
I have a few good ones for sale. Keep in mind my Bred Sow Sale, January 23, Sabetha, Kansas.
F. J. MOSER, GOFF, KANSAS

Wooddell's Durocs
Chief's Wonder, a giant junior yearling heads our herd. The finest bunch of spring boars to offer I ever raised. Write me your wants, or come and see them.
G. B. WOODDELL, WINFIELD, KANSAS

Bancroft's Durocs
Choice 175 to 200 pound March boars $45 each, guaranteed immuned. Choice September pigs, pairs and trios not related. Weaned November 8. Price $20 each. Express prepaid. D. O. BANCROFT, OSBORNE, KAN.

JONES SELLS ON APPROVAL
Very choice spring boars sired by King's Col. 6th and out of Orion Cherry King dams. Write for further descriptions and prices.
W. W. JONES, CLAY CENTER, KANSAS

25—Duroc Boars—25
SHIPPED ON APPROVAL. Of March farrow. Richly bred, well grown, big stretchy, heavy boned fellows. At farmers prices and shipped to you before you pay.
A. J. TURINSKY, Barnes, Washington County, Kan.

SHEPHERD'S DUROCS
FORTY BIG TYPE BOARS, sired by the 1000 pound King's Col. I Am and the $3000 King's Col. Jr. The dams of these are 600 to 800 pound sows sired by some of the most noted boars of the breed.
G. M. SHEPHERD, LYONS, KANSAS

TRUMBO'S DUROCS
30 boars, big husky fellows, sired by Constructor and Constructor Jr., 1st prize boar Hutchinson State Fair. All double immuned. Satisfaction guaranteed. Priced to move quickly. W. W. TRUMBO, PEABODY, KAN.

Huston's Durocs 40 double immuned big rugged herd heading boars, sired by Great Wonder 2nd and out of dams mostly by Taylor's Model Chief, winner at Missouri and other fairs. Buy them cheap now.
W. R. HUSTON, AMERICUS, KANSAS

Good Duroc Boars from $40 to $60
sired by a corking good son of King The Col., king of the breed and out of grand daughters of Chief's Model B. & C. Col., Graduate Col., and others. Also one good fall yearling by Graduate Col. All immuned. MIKE SEIWALD, EUDORA, KANSAS.

Otey's Duroc-Jerseys
Thirty head of big, rugged early spring boars priced at 25% reduction for immediate sale. These are good and must go soon. Write, wire or come.
W. W. OTEY & SON, WINFIELD, KANSAS

DUROC BOARS OF QUALITY
Choice March boars, sired by the great herd boar, Reed's Gano, first prize boar of Kansas and Oklahoma State fairs. Also Illustrator 2nd, and Golden Model. Fine growthy boars, well built and nice color. All immuned. Priced to sell quickly.
JOHN A. REED & SONS, LYONS, KANSAS

John's Orion 42853 (a)
400 spring pigs. 200 boars by Grand Wonder 6th, Gano's Masterpiece 2nd and other noted bloodlines. It will pay you to come if you want the best. All vaccinated double treatment.
F. E. GWIN & SONS
Morrowville, Kan., Washington County

ROYAL HERD Farm Durocs
BOARS sired by ROYAL GRAND WONDER, ROYAL PATHFINDER and HIGH ORION. If you want the good kind, I have them. Write or come now.
B. R. Anderson, McPherson, Kansas

DUROC JERSEY HOGS.

Boars On Approval
MAPLEWOOD DUROC BOARS
(THE HUNDRED DOLLAR KIND) SHIPPED ON APPROVAL at $50. Fifty sisters of these boars sell in our sale FEBRUARY 21, 1919.
MOTT BROS., HERINGTON, KAN.
(Successors to Mott & Seaborn)

40 March Boars
IMMUNIZED
Big Type Duroc-Jerseys
Big bone, high backs, good feet and legs. Splendid colors and as choice lot of boars as can be found.
Sired by a splendid Grandson of Model Pal. and half by King of Col. 6th.
Reasonable prices. Satisfaction guaranteed.
A. L. Wylie & Son, Clay Center, Kan.

Fairview Stock Farm
GREAT BOAR BARGAINS
Big type, heavy boned, high backed, smooth, stylish fellows; HERD HEADERS. 2 junior yearlings by the great boar, ORION CHERRY KING, dam by JOE ORION II. 1 EXTRA GOOD yearling by ILLUSTRATOR II. 12 large, fancy spring boars by Jno.'s Col. Orion, a 950 lb. boar by Jno. Orion. Write us, or come and see them.
Jno. W. Jones, Minneapolis, Kansas

Champion Blood
Twenty-five years of breeding Durocs from the strains that have produced champions
HERD BOARS
By Orion Cherry King, A King The Col., Illustrator II, Golden Model Again.
Big husky boars and gilts for sale, February and March farrow. Write or come. Farm reached by interurban, from Parsons, or Cherryvale. Stop 64.
LANT BROS., DENNIS, KAN.

Schroyer Farms
were extensive buyers of Duroc Jersey bred sows in leading sales last winter. Our November public sale of boars has been called off. We offer at private sale the actual tops of 200 March boars. Everything immunized with clear serum. A splendid lot of big well grown boars of most excellent breeding and priced right. Address,
Robt. Evans, Manager
Miltonvale, Kansas
Bred Sow Sale March 5

DAIRY SHORTHORN CATTLE.

PURE BRED DAIRY SHORTHORNS
Double Marys (pure Bates), and Rose of Sharon families. Some fine young bulls. R. M. ANDERSON, Beloit, Kan.

ABERDEEN ANGUS CATTLE.

Sutton Angus Farms
For sale: 50 heifers, 18 months old, bred and open. 20 two-year-old heifers bred. 35 bulls, serviceable ages.
SUTTON & WELLS, RUSSELL, KANSAS

Registered Aberdeen Angus Cattle
Good strains and size. Must sell on account of help and feed. Priced to sell.
H. L. KNISELY & SON, TALMAGE, KAN.
(Dickinson County)

FROM WORKMAN RUSSELL, KANS
Angus Cattle—Duroc Hogs
C.H. Sparks, Sharon Springs, Kansas, can furnish my bulls for northwest Kansas.
Johnson Workman, Russell, Kan.

Angus Cattle For Sale
40 registered cows, bred or with calf at foot, 15 bulls, 15 to 18 months old. If you want either cows, heifers or bulls and visit my herd, we will be nearly sure to deal. Cattle close to Clements, Kan., on Santa Fe, 11 miles east of Florence and 13 miles west of Strong City, Kan.
D. J. WHITE, CLEMENTS, KANSAS.

Immuned Duroc Boars
Durac boars, immuned and guaranteed breeders, shipped to you before you pay for them. The big southeast Nebraska herd bred for size, bone, and length. Eventually you will breed the "Crocker Type." "Why not now?"
F. C. Crocker, Box B, Filley, Nebraska



POLLED DURHAM CATTLE.

Double Standard Polled Durhams young bulls of Scotch breeding for sale. Herd headed by Forest Sulton. C. M. HOWARD, HAMMOND, KAN.

POLLED DURHAMS

(Hornless Shorthorns)



25 BULLS $100 TO $500

Roans and reds. Halter broke. Roan Orange, weight 2500 lbs. in flesh, and 3 other choice bulls in service. We crate, deliver at Pratt, furnish both certificates and transfers, meet trains and return free. Phone at our expense.
J. C. BANBURY & SONS, PRATT, KANSAS

HEREFORD CATTLE.

Ocean Wave Ranch Nine registered Hereford bulls for sale; well marked, dark red, Anxiety 4th breeding.
A. M. PITNEY, BELVUE, KANSAS

PLEASANT VIEW STOCK FARM
HEREFORDS and PERCHERONS
Thirteen yearling bulls, well marked, good colors, weight 1200 pounds; also some early spring calves, weight 600 pounds. Can spare a few cows and heifers, bred to my herd bull, Dominecr, a son of Domino. Also some Percheron stallions from weanlings to 2-year-olds, black and greys.
Mora E. Gideon, Emmett, Kansas

CEDARDALE STOCK FARM
offers for sale registered Percherons and Herefords, 2 coming three-year-old fillies and some bulls of Anxiety 4th breeding. One, a grandson of Beau Gomez 374424 and one a double Simpson. Good colors, well marked. Come and see them. Priced reasonable.
JOSEPH T. DAUBER, Mgr.,
Bunker Hill, Russell County, Kansas

GUERNSEY CATTLE.

TWO HIGH-GRADE GUERNSEY COWS
fresh, 2 yearling heifers, 1 extra good high-grade bull one-year old and 1 high-grade bull four weeks old. All priced cheap for quick disposal. Write
DR. E. G. L. HARBOUR, Box 113, LAWRENCE, KAN.

GUERNSEYS
War time prices. Several young bull calves, May Rose breeding. One serviceable aged bull.
OVERLAND GUERNSEY FARM
Overland Park, Kansas.

SHORTHORN CATTLE.

FOR SALE—Registered 4-year-old Shorthorn bull by good Secret No. 379070.
J. B. Herrington, Silver Lake, Kan.

SHORTHORNS Three young Scotch bulls, herd headers; 20 young bulls suitable for farm or ranch use. J. M. Stewart & Son, Red Cloud, Neb.

SIX SHORTHORN COWS
that will calve in the spring to our herd bull, Roan Model. Good deep bodied cows of our best tribes and for sale simply to cut our herd to fit short help. Four good bulls also.
D. Ballantyne & Son, Herington, Kansas

Scotch Topped Shorthorns
4 bull calves, red and roan, 7 and 8 mo. old, 1 yearling bull 13 mo. old, extra fine, 3 heifer calves 6 and 7 mo. old, red, 3 yearling heifers, 2 red, 1 roan.
Charles Rothan & Son, Scranton, Kansas

Cowan & Son's Shorthorns
We have 15 bulls from 6 to 16 months, mostly reds, one roan. All are sired by Mistletoe King, by Mistletoe Archer, by Prince Royal. He weighed 2,000 the day he was three years old. Have one pure Scotch 16 mo. old out of Crimson Beauty, the highest priced cow in the State Breeders' sale in 1916. The younger offers are by Mistletoe King, those a little older by Victoria's Secret, a grand son of both Avondale and Whitehall Sultan—cow by Victoria's King, the bull we sold to Wilson at Glasco. He weighed 2648 at five years old.
C. A. COWAN & SON, ATHOL, KAN.

A BARGAIN
A carload of high-grade 2 and 3-year-old whiteface heifers with bull; also a carload of high-grade 2 and 3-year-old Shorthorn cows, just the thing to put on wheat pasture; also a carload of cows. Buy these instead of those knocked around on the market. Either write for prices or come and see them.
E. CASS, COLLYER, KANSAS

Meuser & Co's Shorthorns
Nine nice young Scotch topped bulls, reds and roans, ready for service. They are by Sycamore Chunk, by Mistletoe Archer and out of cows that carry the blood of such sires as Choice Goods and Victor Orange. They are good and priced right. Farm 3½ miles from Anson and 7½ from Conway Springs, Kan.
WM. L. MEUSER, MANAGER, ANSON, KAN.

Stunkel's Shorthorns
Scotch and Scotch Topped Herd headed by Cumberland Diamond bulls, reds and roans 8 to 24 months old, out of cows strong in the blood of Victor Orange and Star Goods. No females at present to spare. 15 miles south of Wichita on Rock Island and Santa Fe.
E. L. STUNKEL, PECK, KANSAS.

$31.50@32.00; standard, $29.00@31.00; No. 2, $25.50@28.50; No. 3, $22.00@25.00.

Prairie, choice, $28.00@29.00; No. 1, $26.00@27.50; No. 2, $22.00@25.50; No. 3, $10.50@21.50.

Midland prairie, No. 1, $23.00@24.00; No. 2, $14.00@22.50. Lowland prairie, No. 1, $18.00@20.00; No. 2, $8.00@17.50.

Timothy, No. 1, $28.50@29.00; standard, $27.50@28.00; No. 2, $24.00@27.00; No. 3, $16.50@23.50.

Clover mixed, light, $27.50@28.50; No. 1, $24.50@27.00; No. 2, $16.50@24.00. Clover, No. 1, $26.50@27.50; No. 2, $23.00@26.00.

Packing hay, $6.00@10.00. Straw, $8.50@9.00.

Mastitis of the Cow

Mastitis of the Cow, by Sven Wall, Stockholm, translated into English by Dr. Walter J. Crocker, professor of veterinary pathology in the University of Pennsylvania, has just been published by the J. B. Lippincott Company of Philadelphia. This is a scientific book for class work, treating in a very thoro manner a subject of deep interest and much importance to the dairy industry. It is based upon an investigation of milk from diseased udders. The book is excellently illustrated, and is very carefully prepared in every mechanical detail, but for the most part is beyond the understanding of any except technically trained readers. Perhaps the most interesting feature of the work, for lay readers, is disclosed in chapter 15 in which the author declares that while the organisms producing udder infections are not known to be productive of disease in man caution demands that the condition be considered dangerous until the contrary has been proved. All milk from such infected udders must be declared unfit for human use as food. Even if other quarters of the udder are free from the infection, the author says, milk from the diseased parts can get into the milk from the healthy quarters despite every precaution. This answers a question presented in nearly every mail to editors of farm journals. Such milk, Professor Wall says, should be boiled or pasteurized as a safe-guard. Cows so infected should be isolated, and milked last.

Blackleg Disease

The first indication of blackleg in cattle is depression, loss of appetite, a failure to ruminate and a high fever. The breathing becomes rapid, the animal moves with difficulty and often lies down. In a few hours swellings appear under the skin, and in 12 hours the animal may become paralytic. The muscles of the affected quarters become dark brown or black.

Blackleg is caused by a germ found in the soil in some sections. These germs get thru the skin by way of scratches, pricks of thorns, stubble beards and penetrating foreign bodies which may puncture the skin. Cattle from 6 months to 2 years old are the most susceptible. The disease does not usually spread from animal to animal, but the germs from the sick or dead animal get into the soil and from the soil to another animal. For this reason the dead animal should be burned, or buried at least 6 feet deep. Sprinkle quick lime over the body before covering. In case of burning it must be done thoroly, then disinfect thoroly.

The cattle can be vaccinated against blackleg. The Bureau of Animal Industry of the U. S. Department of Agriculture supplies this vaccine free. Where blackleg is known to have occurred all cattle should be vaccinated.

Bourbon County Silo Campaign

That there are about 100 silos in Bourbon county, and that the prospects for more being built as rapidly as possible are very bright, is the statement made by Secretary H. A. Russell of the Ft. Scott Chamber of Commerce, who has been keeping a watch on the silo situation in the county.

The silo sentiment in Bourbon county was never stronger, according to those in a position to know, and it is estimated that fully 200 new silos will be erected in that county next year.

Plans are now being outlined for a silo campaign in December, with the object of inducing farmers who contemplate building silos to take steps to that end without delay, in order that they may be in a position to use their silos to the greatest advantage next year.

Write us about your experience in trapping small game and the money you made in selling the hides.

SHORTHORN CATTLE.

SUNFLOWER
SHORTHORNS
Herd headed by Maxwalton Rosedale. Some extra good young bulls and a few females for sale. J. A. PRINGLE, Eskridge, Kansas, R. R. Station, Harveyville, 25 Mi. S. W. Topeka.

CEDAR LAWN Shorthorns
Offers choice Scotch and Scotch topped bulls from six to 15 months old. A pleasure to show our herd. Write for prices and descriptions.
S. B. Amcoats, Clay Center, Kan.

Shorthorn Dispersal
Private sale. 14 cows and heifers that will have calves by spring. 5 yearling heifers and three heifer calves. Also 18 months old Crescent Archer, bought to head the herd. Will sell all or in lots to suit purchaser.
O. V. Sewell, Clay Center, Kansas

PLEASANT VIEW STOCK FARM
Quality Shorthorns
For sale: Four bulls, two straight Scotch and two Scotch topped. Also a few cows. Bulls ready for service. Also breed reg. Duroc Jerseys. Address,
M. R. Peterson, Prop., Troy, Kan.

Woodland Ranch
Breeders of
Shorthorns—Polled Durhams
15 bulls for sale. 7 of serviceable ages now. Write for full particulars.
ELLIOTT & LOWER,
Courtland, Kan. (Republic County.)

A. R. O. Holstein Bulls
Sired by the great King Korndyke Veeman whose two nearest dams average over 37 pounds butter in seven days. His sire, King Korndyke Sadie Vale, is the only 40 pound bull to have a 40 pound daughter, and he is brother to the first 40 pound heifer.
One born Dec. 16, 1917, dams record, over 16 pounds butter in seven days at two years of age. His four nearest dams average nearly 30 pounds butter in seven days. Has extra heavy bone, straight as a line and priced to sell quick.
Another born May 6, three fourths white and one fourth black, and pretty as a picture. They won't last long at my prices.
H. A. DRESSLER, LEBO, KAN.

SHORTHORN CATTLE.

Special Shorthorn Offer
Scarcity of feed compels us to sell 20 two-year-old heifers, bred. Splendid values. 18 Scotch and Scotch topped bulls, 8 to 12 mo. old. Reds and roans. Act now if you are interested.
Meall Bros., Cawker City, Kansas
(Mitchell county)

Shorthorn Bull Special
18 head of yearling heifers, reds and roans; also some splendid yearling and well grown last spring bulls, mostly sired by Orange Lovel and Marengo Pearl. Popular prices. Ship over Union Pacific, Rock Island, Mo. Pacific and Santa Fe.
C. W. Taylor, Abilene, Kan.
(Dickinson County)

Valley View Stock Farm
SHORTHORNS
10 bulls 10 months old. Reds and roans by Diamond Searchlight 208837 by old Searchlight. Some choice cows and heifers bred to Victoria's Baron by Secret Baron.
POLAND CHINAS
10 cracking good March boars sired by Timm 3d by Big Timm. Out of mature sows.
R. B. DONHAM, TALMO, KANSAS
Republic county.

Salt Creek Valley Shorthorn Cattle
Pioneer Republic County Herd
Established in 1878
For Sale: 20 bulls from 6 to 18 months old. Also special pure Scotch herd bull offer. 20 cows and heifers bred to pure Scotch bulls. All Scotch tops and some nearly pure Scotch.
A choice lot of reg. Poland China boars and gilts for sale. Strictly the big kind.
E. A. Cory & Sons, Talmo, Kan.

SPRINGDALE STOCK FARM
SHORTHORNS
14 Scotch topped bulls from 6 to 12 months old. Reds and roans. All big, thrifty bulls by Crown Prince 412356. Also 10 cows and heifer calves.
POLAND CHINAS
Large type Poland Chinas and Spotted Poland Chinas.
Ship either over Union Pacific or Santa Fe.
A. A. TENNYSON, LAMAR, KAN.
(Ottawa County.)

SYCAMORE SPRINGS SHORTHORNS



Master of the Dales

Headed by one of the highest ranking sons of Avondale, as proven by pedigree and production.
RICHEST OF BREEDING. Requiring Ancestry Excelling Both in Performance and Individuality.
PLAINEST OF CARE consistent with proper development of form, size and reproductive ability.
Material for herd bulls and herd foundations for sale. A range of values to meet a variety of needs. Send for catalog and private sale lists, mentioning Farmers Mail and Breeze.
H. M. HILL, LA FONTAINE, KANSAS

Shorthorn Bulls
16 bulls from 6 to 10 months old, got by two splendid Scotch bulls and out of Scotch topped cows of good scale. Not highly conditioned; sure to do well in your hands. Prices very reasonable. Address,
V. A. PLYMOT, BARNARD, KAN.
(Farm in Mitchell county)

1886—TOMSON SHORTHORNS—1918. SIRES IN SERVICE.
Village Marshal, Beaver Creek Sultan, Imp. Lawton Tommy
200 high class Scotch cattle of the most popular families; also a limited number of the best Scotch topped sorts for sale.
FOR SALE NOW
20 Extra good Scotch bulls of serviceable age.
15 Scotch cows and heifers, bred or with calves at foot.
10 Scotch topped cows with calves at foot.
Our large number of select cattle offers an unusual opportunity for the beginner to select such foundation stock as he should start with and for the breeder to make additions that will strengthen his herd.
TOMSON BROTHERS
CARBONDALE, KAN. (Ry. Sta., Wakarusa, on Santa Fe.)
DOVER, KAN. (Ry. Sta., Willard, on Rock Island.)

HOLSTEIN CATTLE. HOLSTEIN CATTLE.

Stubbs Farm Offers:
Two Splendid Bred Young Bulls, just ready for service
No. 1—Juliana Korndyke Paul Fobes No. 225134—born Oct. 4, 1917, mostly white in color, weight 1000 pounds. A wonderful individual. His dam a splendid individual with a very good A. R. O. record. Her breeding of the best. His sire, Canary Paul Fobes Homestead (the greatest bull in Kansas). He has a 34.96 pound four-year-old dam and has nearly 50 A. R. O. daughters. Price of bull—$250.
No. 2—King Pontiac Wheat Hill 242338—born Jan. 18, 1918. Dark in color, weight 800 pounds—a splendid individual. His dam has a record of nearly 22 pounds butter in seven days as a four-year-old with almost 90 pounds milk in one day and has a 28 pound sister. His sire is a grandson of King of the Pontiacs and from a 29.55 pound dam. Price $225. Both are guaranteed to be breeders—free from tuberculosis and to be right in every way.
STUBBS FARM, Mark Abildgaard, Mgr., MULVANE, KANSAS

HOLSTEIN CATTLE.

HAVING SOLD MY FARM, I will sell my entire herd of extra high grade Holstein cows.
V. E. CONWELL, WETMORE, KANSAS

Young Registered Holstein Bulls with good A.R.O. backing. H. N. Holdeman, Meade, Kansas

OAK HILL FARM'S HOLSTEIN CATTLE
yearling bred heifers and bull calves, mostly out of A.R.O. cows Perfect satisfaction guaranteed. BEN SCHNEIDER, Nortonville, Kan.

CHOICE HIGHLY-BRED HOLSTEIN
Calves; 12 heifers and 3 bulls, 6 to 8 weeks old, nicely marked, from heavy producing dams, $25 each. Safe delivery guaranteed. Fernwood Farms, Wauwatosa, Wis.

For Holstein Calves
Write W. C. KENYON & SONS, Box 61, Elgin, Illinois

For Sale Registered bull calves sired by a 26.49 pound bull. Two aged cows, bred. Pictures and prices on application.
S. E. ROSS, ROUTE 4, IOLA, KANSAS

Registered Holsteins
If you want big producers, males and females all our own breeding, write us.
Lilac Dairy Farm, Route 2, Topeka, Kansas.

DO YOU WANT
104 pounds milk per day in the pedigree of your herd sire? We are offering some splendid calves with that kind of backing. For full description and prices write
A. B. WILCOX & SON, R. 7, TOPEKA, KANSAS

Bonnie Brae Holsteins
Grand sons of King Segis Pontiac, from high producing dams, old enough for service.
IRA ROMIG, STA. B, TOPEKA, KANSAS.

Thrifty Holstein-Friesian Calves,
For sale. Either sex. Practically purebred from registered bulls and high producing dams. $25 crated, f. o. b. Chanute. Safe delivery guaranteed. And six registered bulls from 2 to 10 months old. These are beauties. $75 to $100. Also, 30 registered Duroc Jersey pigs, either sex, 3 to 5 months old, $30.
MAGEE DAIRY FARM, CHANUTE, KAN.

Sell Your Scrub Bull and Buy a Good One
We have them, sired by 30 pound bulls, and out of heavy milking cows. Holsteins, of course, and good ones. The largest and best herd in the middle west. Get our bull circular.
A. S. NEALE, MANHATTAN, KANSAS

ALBECHAR HOLSTEINS
A few young bulls, of good breeding and individuality and of serviceable age, for sale. Write for prices to
Albechar Holstein Farm
Robinson & Shultz, Independence, Ks.

REGISTERED HOLSTEIN BULLS
old enough for service; from very high record cows; also some that are younger. Priced cheap considering their wonderful breeding and milk and butter records.
G. A. Higginbotham, Rossville, Kan.

Edgewood Holsteins
Fifteen two-year-old heifers, high grade and from heavy producing dams. Bred to grandson of King of the Pontiacs and due to freshen this winter and early next spring. All raised on my farm and well marked. One registered bull old enough for service. A whole dairy herd for some one and priced worth the money.
GEO. E. TUCKER, EUREKA, KAN.

SUNFLOWER HERD
Headquarters for herd bulls, hand picked and no culls. Several ready for service. Big, fine individuals with lots of breeding. Visit my herd and make your selection, or write for full particulars. Also young bull calves of the very best producing blood lines.
COME TO LAWRENCE
for your herd sire.
F. J. SEARLE, LAWRENCE, KAN.

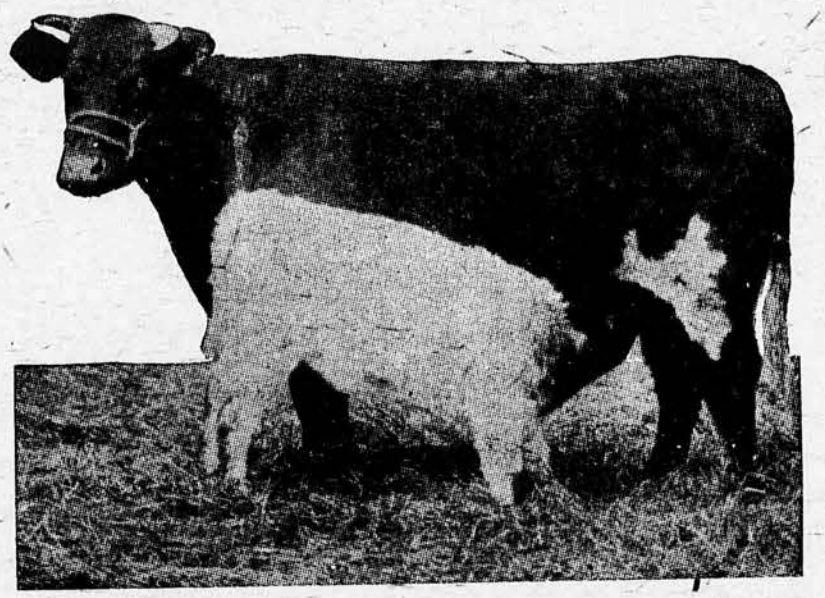


Are You a Member?
The Holstein-Friesian Association of America—the organized breeders of cattle of that name, was organized in 1885, then having 275 life members. Today it has nearly 12,000 members, and is recording 80,000 Holstein-Friesian cattle per year, giving employment to 150 clerks, and has a reserve fund of nearly a quarter of a million dollars. It spends nearly $50,000 per year for publicity and extension work, promoting the interests of its membership. The Holsteins are prosperous and popular.
If interested in
HOLSTEIN CATTLE
Send for our booklets—they contain much valuable information.
HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA, Box 292, Brattleboro, Vt.

Combination Shorthorn and Polled Durham Sale

Pavilion at

Superior, Neb., Friday, Dec. 6



60 Head Consisting of choice young bulls of breeding age, choice young cows with calves at foot and a great line of heifers bred and open. Representing the best American families with several Straight Scotch Tops. This offering represents the natural accumulation of several of the best herds in Southern Nebraska. No culls and all raised by the parties consigning them. Lack of space makes it impossible to speak of individual breeding and merit but catalog gives all such information. Write at once for it and mention Mail and Breeze.

J. W. Hamilton, Sale Mgr., Guide Rock, Neb.
Col. H. S. Duncan, Auct. Jesse R. Johnson, Fieldman.

Dispersal Sale HOLSTEIN CATTLE

This is a dispersal sale of the well known Hoffman herd of high grade Holsteins at the farm four miles south and six west of town. Free conveyance from town to the farm and return.

Hope, Kansas
Tuesday, December 3

50 head of cows and heifers, a number of them in milk and 25 **head to be fresh in January and February.** All bred to A. R. O. Purebred bull, which will be sold. 8 **head of two year old heifers bred. Many of the cows have records in the Dickinson Co. Testing association.**

Lunch on the grounds. Sale begins at 12 o'clock sharp. Write at once for descriptive catalog of cattle in the sale.

Hoffman Bros., Owners, Hope, Kan.
W. H. Mott, Sale Mgr., Herington, Kan.
J. T. McCulloch, Clay Center, Kan., Auctioneer.
J. W. Johnson, Fieldman for Mail and Breeze.

HOLSTEIN CATTLE.

BRAEBURN HOLSTEINS
Service bulls. Their heifers will outyield the dams 10-50%. Surplus females sold.
H. B. COWLES, 608 Kan. Ave., Topeka, Kan.

I Have a Nice Line of High-Grade Holstein cows to freshen soon; also a few heifer calves 4 to months old. All this stuff is 15-16ths pure. Price right. W. P. PERDUE, CARLTON, KAN.

JERSEY CATTLE.

The JERSEY



If you just want to "keep a cow" any cow will do. But if you want thrifty cows that will conserve feed; that will show real profit every day of the year, you must have Jerseys. They can advertise other breeds as they may, but they can't compare them to Jerseys as money making merit. Let us give you the facts, free, and then write to Breeders for prices and pedigrees.
THE AMERICAN JERSEY CATTLE CLUB
355 West 23rd Street New York City

REGISTERED JERSEY BULLS fifty dollars
Percy Lill, Mt. Hope, Kansas.

TWO JERSEY BULLS—5 and 6 months old Hand raised but from good milking stock $25 and $30. R. Mengler, R. 2, Wamego, Kan.

For Jersey Bulls
Write V. E. Swenson, Little River, Kansas

FOR SALE An Owl-Interest Jersey bull, 18 mo. old. Good color and type. Bert White, Breeder of Registered Jersey Cattle, Clay Center, Kansas

Hillcroft Farms Offers a Splendid bull calf dropped October 15, sired by Queen's Fairy Boy, by Ralleigh's Fairy Boy, an undefeated champion; dam Highstead Viola, imported, by Bagatelle Lad. First check for $100. Write for pedigree
M. L. GOLLADAY, PROP'R, HOLDEN, MISSOURI

FOR SALE—JERSEY BULL
Sire, Great Beauty's Owl, by Blue Belle's Owl, King's Owl. Dam, Fox's Fontaine Ingelow. Registered merit 385 pounds butter in one year as 2-year-old
W. E. KING, WASHINGTON, KANSAS

RED POLLED CATTLE.

HIGH-GRADE Red Polled bull calves. Eight months old weighing 500 pounds each. $ each. EARL SCOTT, BELVIDERE, KAN.

Foster's Red Polled Cattle 15 Young Bulls 15 Bred Cows and Heifers. Priced Right. C. E. Foster, Eldorado, Kan.

Pleasant View Stock Farm
Registered Red Polled cattle. For sale: a few choice young bulls, cows and heifers. HALLOREN & GAMBRILL, OTTAWA, KANSAS

LARGE DEEP-FLESHED RED POLLS
Springing twos, whose dams and sisters produce 600 pounds butter per year. Be prompt. Write or come. Chas. L. Jarboe, Quinter, Kan.

Choice Registered Red Polled cows and heifers, big bone, heavy milk strain; also large, early hatched Bourbon Red Turkeys, nicely marked. Toms $6 to $10, hens $4 to $6.
Little Valley Stock Farm, Phillipsburg, Kan.

High-Grade Red Polls
10 cows, 3 to 6 years old, $100 each. 1 registered yearling bull, $150. 5 coming yearling bulls $75. Andrew Deel, Cawker City, Kansas

Red Polled Herd Private Sale
We are changing locations and must sell our cattle 20 choice young cows bred for spring, to the ton bull DAYSON. 20 bulls in age from 6 to 18 mos. Will sell one or a car load. W. F. Schwab, Clay Center, Neb.

Bargains in Red Polls
A few extra good cows safe in calf, also a few choice yearling heifers. All at rock bottom prices.
I. W. POULTON, MEDORA, KANSAS

Sunnyside Red Polls
Individuals of merit and desirable breeding. Bulls of serviceable age, a few heifer calves and cows; also herd bull, Napolean's Reuben No. 28735.
T. G. McKINLEY, JUNCTION CITY, KAN.

LAST SON OF CREMO
23061
This herd bull for sale. Also a nice string of yearling bulls by him and some younger. Also cows and heifers. Address,
Ed. Nickelson, Leonardville, Kansas
(Riley County)

SIMPSON'S Red Polls
Husky young bulls of A. R. and prize-winning ancestry for sale.
O. F. SIMPSON, HAMILTON, MO.

JACKS AND JENNETS.

WANTED GOOD YOUNG JACKS, Description and price in first letter
GEO. S. LEWIS, DIGHTON, KANSAS

I have two good serviceable jacks four and six years old which I would sell or trade for livestock. Am in need of a good purebred draft stallion. Address BOX 52, OOLAGAH, OKLAHOMA

Public Sale of Choice Pure-Bred Holstein Cattle

135 Head—Two Days

Linwood, Kansas

Friday and Saturday, November 29-30

The greatest opportunity of the year to secure high class purebred Holstein females.

On Friday, Nov. 29, beginning at 12 o'clock, noon, the Linwood Boy's and Girl's Purebred Holstein Club will sell 48 head of heifers, just old enough to breed. This is one of the classiest and best bred lots of heifers ever put into a sale in the Central West. Every one of them is sired by a well bred bull and out of high producing dams. The very best producing families of the breed are represented. Anyone in the market for foundation stock cannot afford to overlook this opportunity.

On Saturday, November 30, beginning at 10 o'clock, A. M., three consignments will be sold.

A. S. Neale, of Manhattan, Kan., will sell 40 head selected from his herd of 250 head. This is not a consignment of culls, but includes some of the very best young cows and heifers in the herd. Those of breeding age are in calf to either a bull whose dam made over 30 pounds of butter in 7 days, or to one whose dam has a record of 27,844 lbs. milk and 1,150 lbs. butter in a year. Everything in this lot guaranteed to be right in every way. Not an old cow, or one with unsound udder in the lot.

Ellis and Beck, of Omro, Wisconsin, two young breeders who are engaged in war activities, will sell their entire herd of 32 head, half of which are of milking age. This is a herd of good ones, and could not be bought, were not both owners with the colors. Only high class females were selected as foundation cows, and these were mated to choicely bred bulls. Do not miss the chance to get some of these excellent cattle.

The United States Disciplinary Barracks, of Leavenworth, Kan., will sell a few well bred bulls.

All animals over six months of age tuberculin tested by approved veterinarians.

Linwood is 20 miles west of Kansas City and can be reached by either the Union Pacific R. R. or the Kaw Valley Electric. Hourly service to Kansas City and Lawrence. For catalogue, address

A. S. Neale, Sale Mgr., Manhattan, Kan.

Auctioneer, J. E. Mack, Ft. Atkinson, Wis.



Remember the Dates and Plan to Attend Both Days.

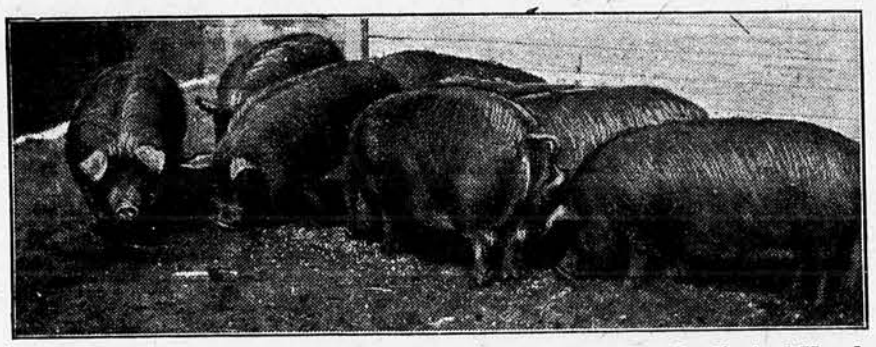
L. L. Humes' Sensational Duroc-Jersey Sale

85 head, 45 spring gilts and 15 spring boars that are right individually and of the most popular breeding. 3 choice tried sows and 4 fall yearling sows. Sale in the sale pavilion in town.

Glen Elder, Mitchell County, Kan., Thursday, December 5

5 by **Joe Orion 5th.**
3 by **The King by Orion Cherry King.**
8 by **Cherry King Disturber.**
2 by **Pal's Giant.**
2 by **Great Wonder 2nd.**

Note: The 15 boars are outstanding in individuality as well as breeding.



The kind that will sell two hundred per cent higher before the first of March, than they will sell in this sale.

Every sow and gilt in this sale will be safe to the service of **High Orion Cherry King,** now in service in this herd. He is a half brother to **Great Orion,** also to the $10,000 **Long View Farm** boar and a half hundred other famous sires.

Catalogs Ready to Mail.

Auctioneers: **Will Myers, Jas. T. McCulloch.**
J. W. Johnson, fieldman.

L. L. HUMES, Glen Elder, Kansas

NOTE: Every animal in this sale has been vaccinated with the double treatment and I believe to be immune.

BLUE RIBBON STOCK FARMS

HOLSTEINS——HOLSTEINS

The blue ribbon stock farms are offering for quick sale twenty REGISTERED COWS and HEIFERS some with records from 25 to 28 A. R. O. records. **We also have a few very choice bulls ready for service.** We have at this time around 60 head of high grade cows and heifers. Priced to sell.

HEREFORDS——HEREFORDS

We are also offering from ONE to 200 head of HEREFORDS all registered from calves to matured cows, also some extra good young bulls ready for service. Write us your wants. Dr. Cook, E. W. Lee, and J. H. Lee, all members of the firm are in the draft age and want to reduce their herd.

LEE BROS. & COOK, Wabaunsee County, Harveyville, Kan.

Blue Valley Breeding Farm

For Sale: 21 head of registered females consisting of cows, calves and heifers. Priced right for quick sale. Also 20 head of bulls from 6 to 15 months old. Price, $80 to $125, delivered any station in Kansas. Two extra good young bulls at $150 each. Also three good young Poland boars.

FRED R. COTTRELL, IRVING, KANSAS

"Right Now" Holstein Bargains

Bulls, Cows Near Calving, Registered Heifers and Heifer Calves; 200 Head.

The 20 bulls include a yearling son of the grand champion at the recent dairy show, and a first prize winner himself at last Kansas State Fair; price $250. Would also sell old herd bull (he has a 23-pound dam) at a low price. Ages, 3 months up; prices, $75 to $300. These are real bull values.

Remember, we make the bottom price on heifer calves, delivered, express prepaid, at your station. When looking for quality and milk production come to the **Hope Holstein Farm.** Mo. Pacific, Santa Fe and Rock Island.

HOPE HOLSTEIN FARM

Address, M. A. Anderson, Prop., Hope, Dickinson County, Kan.

The Capper Pig Club

Third Annual Offering of High Grade Breeding Stock

More Than One Thousand Pure-Bred Pigs

Selected from the Contest Litters At Private Sale

Poland China, Spotted Poland China, Duroc Jersey, Chester White. Hampshire, Berkshire

The Best Blood of These Great Breeds in This Offering. Priced Right and Satisfaction Guaranteed. You are Requested to Buy From the Member Nearest You.

ATTRACTIVE ILLUSTRATED CATALOG FREE

It Contains Names and Addresses of All Members Who Have Pigs to Sell and the Offering of Each. Write to the secretary of the breed you wish to buy.

POLAND CHINA.....KARL FRANKE, HERNDON, KAN.
SPOTTED POLAND CHINA.....HAROLD IRELAND, BRONSON, KAN.
DUROC JERSEY.....VERNE JONES, CLAY CENTER, KAN.
CHESTER WHITE.....LLOYD GARRISON, GLADE, KAN.
HAMPSHIRE.....THEODORE GRAHAM, PEABODY, KAN.
BERKSHIRE.....ROY NANCE, NIOTAZE, KAN.

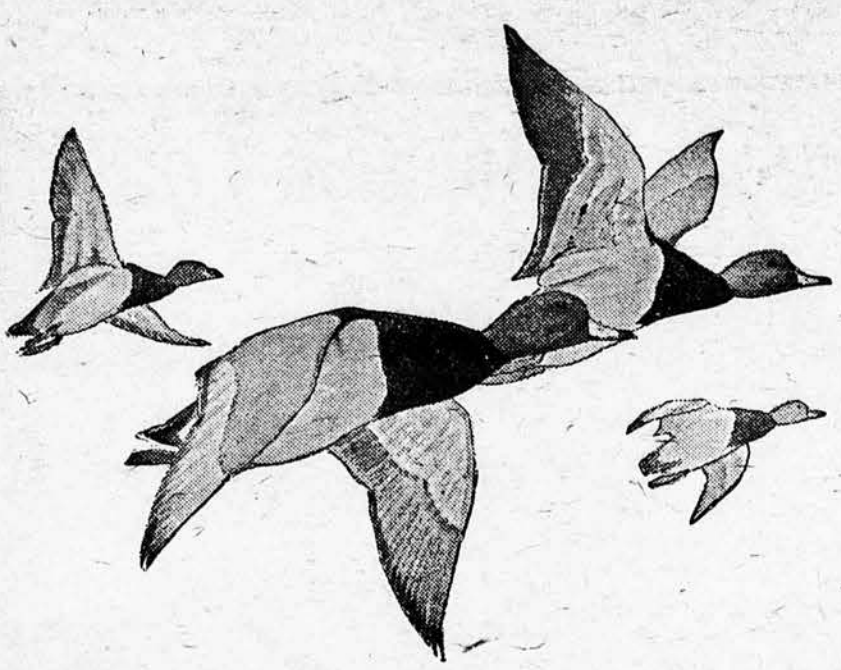
Catalog also can be obtained on application to

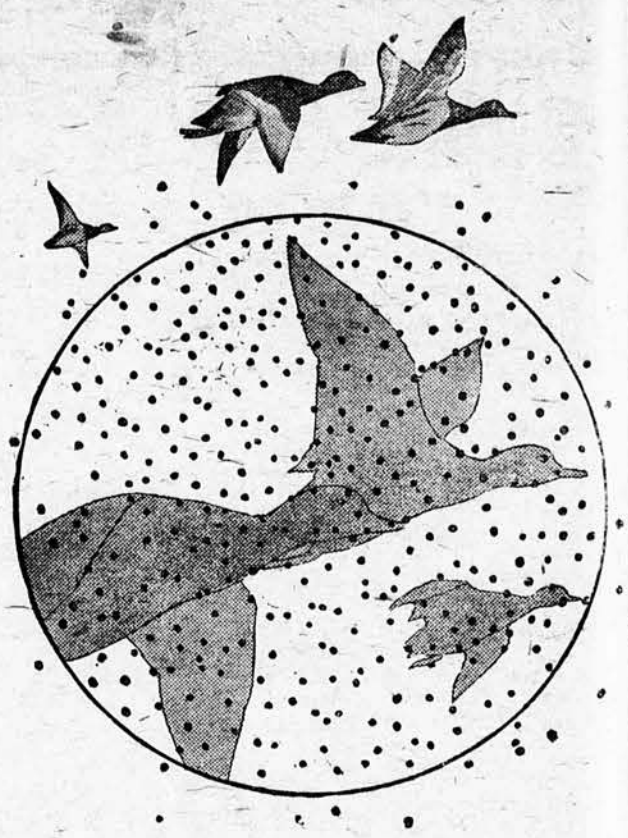
John F. Case, Contest Mgr., Capper Bldg., Topeka, Kan.

Park Place Shorthorns

Bulls in service, **Imported Bapton Corporal, Imported British Emblem** and **Rosewood Dale** by **Avondale. To sell right now** 50 head of high class Scotch topped cows and heifers, all heavy in calf or with calf at foot; also a few young bulls.

PARK E. SALTER, Fourth Nat'l Bank Bldg., Phone Market 2087 WICHITA, KANSAS





The Winchester pattern. 320 pellets out of a possible 431, or 74% of the shot charge, evenly distributed. No birds get through

A quick eye and a good shot pattern

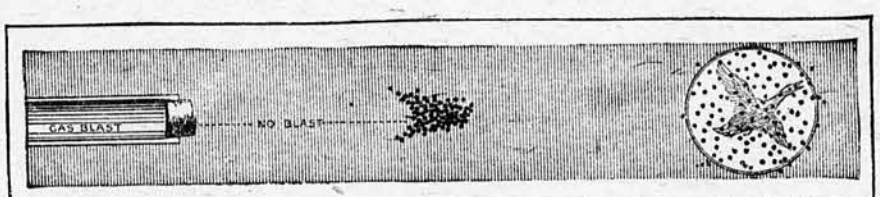
A QUICK eye and a good shot pattern, that's the game-getting combination. Given an old-timer with a reliable gun in his hand and the rest of the story is up to the shot pattern.

Now the secret of good patterns is in the control of the gas blast from the exploding powder. This in turn depends upon the *wadding* in the shell.

The wadding, like the piston head of a gas engine, must give the explosion something solid to work against so that the shot may be *pushed* out evenly.

It must expand and fill the tube of the barrel, completely sealing in the gas behind it. No gas must escape to scatter the shot.

It must offer just the right amount of resistance to the explosion so as to develop uniform pressure and high velocity without danger of jamming the pellets out of shape at the "choke" or muzzle constriction.



The Winchester system of wadding. The wadding expands evenly, sealing in the gas blast all the way to the muzzle, where the wadding is checked by the "choke" or constriction. The shot cluster travels on ahead unbroken. Actual test target 320 pellets out of 431, or 74% of the shot charge (1¼ oz. of 7½ chilled) inside a 30-inch circle at 40 yds

The Winchester system

Winchester Wadding is the result of repeated experiments to determine the most efficient control of the gas blast.

The special construction of the *Base Wad* gives what is known as *Progressive Combustion* to the powder charge.

Combustion spreads instantly through the powder charge. By the time the top grains of powder become ignited the *full* energy of the burning powder behind is at work. Though the explosion is almost instantaneous, it is none the less *progressive*, the final energy and maximum *velocity* of the completely burned powder being developed at the *muzzle* where it is most needed.

Meanwhile, under the heat and pressure of combustion, the tough, springy *Driving Wad* has expanded to fill the barrel snugly all around. No gas escapes. It is completely sealed in. The wadding *pushes* the shot evenly.

At the muzzle, the shot pellets slip out without jamming, while the wadding is checked for a brief interval by the constriction of the muzzle. *It follows some distance behind the shot pattern.*

The shot cluster travels on unbroken by gas blast or wadding and makes the hard-hitting, uniform pattern for which Winchester shot shells are world famous.

Fish Tail Flash. All Winchester smokeless shells are made with the new Winchester Primer—the quickest and most powerful shot shell primer made. Its broad *fishtail* flash gives even and thorough ignition. Every grain of powder is completely burned up before the shot charge leaves the muzzle.

The Crimp. The required degree of pressure necessary in seating the driving wads is worked out in combination with the *hardness* or the *softness* of the *crimping* required for any particular shell.

Waterproofing and Lubrication. In the cold, damp air of the marshes, or under the blazing sun at the traps, Winchester shells will always play true. Winchester waterproofing process prevents them from swelling from dampness. Special lubrication of the paper fibres prevents brittleness and splitting in dry weather.

Uniform Shells. From primer to crimp, Winchester shells are constructed to insure the maximum pattern possible from any load and under all conditions. 25,000,000 rounds of ammunition are fired every year in testing Winchester guns and ammunition. $100,000 is spent annually in the inspection and testing of finished shot shells alone.

Clean hits and more of them

To insure more hits and cleaner hits in the field or at the traps be sure your shells are Winchester Leader and Repeater for Smokeless; Nublack and New Rival for Black Powder. Write for our Free Booklet on Shells. **Winchester Repeating Arms Co., Dept. WW-3, New Haven, Conn., U. S. A.**



WINCHESTER

World Standard Guns and Ammunition

