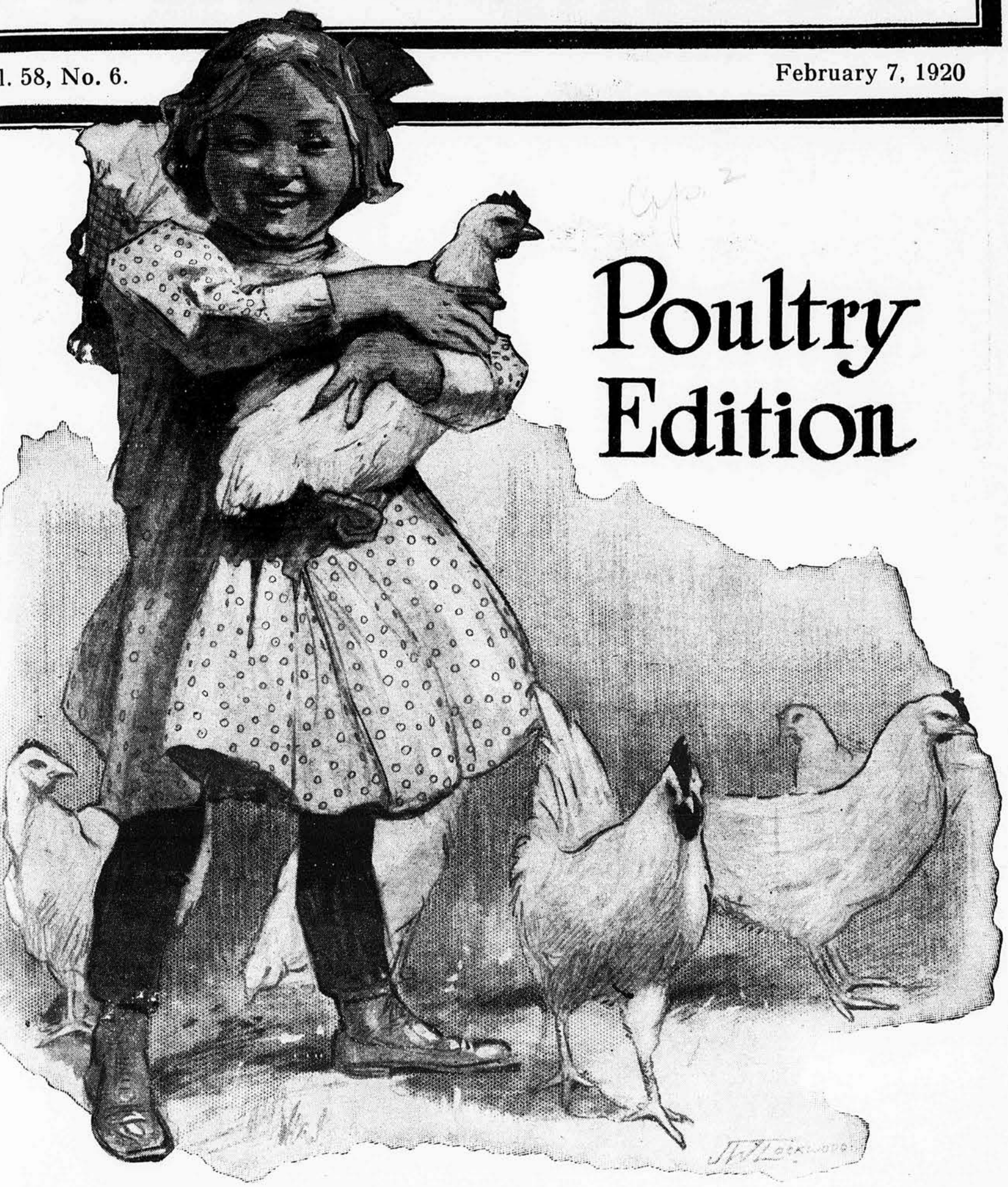
KANSAS SECTION THE CAPPER FARM PRESS

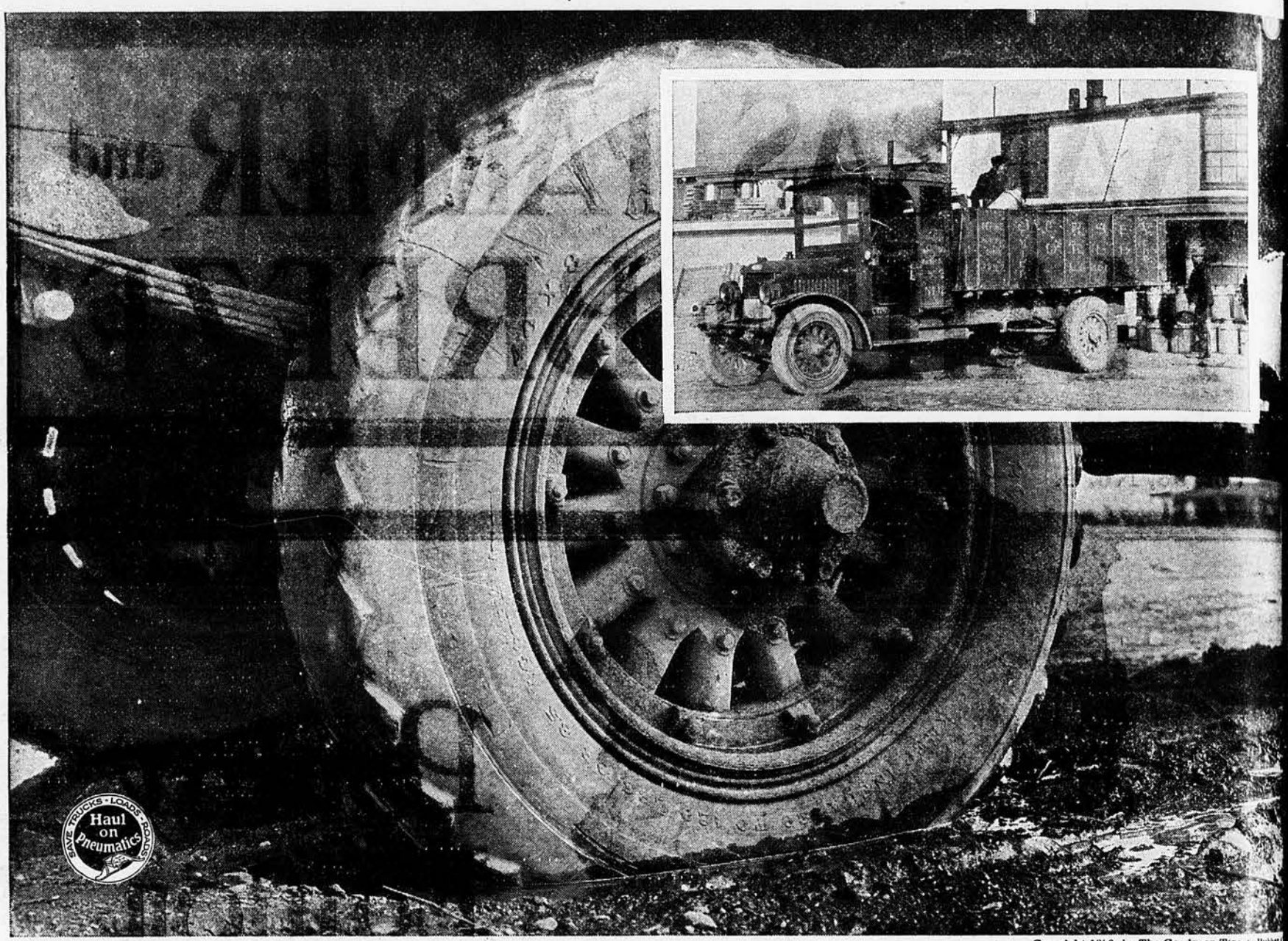
KANSAS FARMER and MAIL AND BREEZE

FEB 7 1920

Vol. 58, No. 6. February 7, 1920



Poultry Edition



Copyright 1920, by The Goodyear Tire & Rubber

"IT would be impossible for us to handle our present milk route except with a pneumatic-tired truck. Our Goodyear Cord Tires have delivered mileages up to 13,500 to date over bad gravel, rocks and chuck holes. With them we serve more farmers than we could with the slow solid tires."—Harry E. Hughes, Dairy Farmer and Truckman, Hughes, Ohio

THIS statement describes hauling conditions such as many farmers find can be counteracted most effectively with the perfected pneumatic truck tire.

Not only does the pneumatic-shod truck, as compared with the solid-tired unit, average a better rate of travel over country routes, without necessarily reaching a high maximum speed, but it does so quite smoothly.

Rural users thus note that hauling on pneumatics adds to a saving of time and brawn important protection of equipment and loads, shrinkable, perishable and breakable.

They particularly note the effect of Goodyear Cord construction, developed during recent years, which makes possible pneumatic-tire mileages comparing very favorably with those of solid tires.

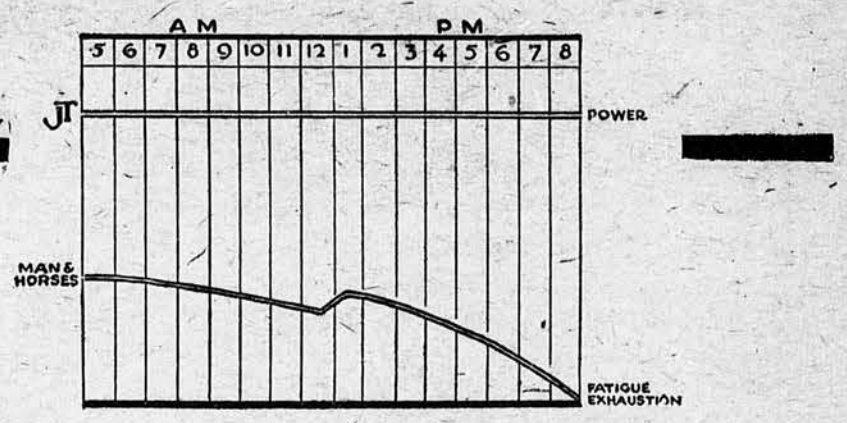
In addition to reporting that pneumatic-tired trucks pave the way for the general motorization of farm work, they list mileages of Goodyear Cord Tires, on trucks, as ranging from 15,000 to past 40,000 when given proper care.

Accurate information furnished by farmers and other rural haulers, showing how they improve their methods and incomes with pneumatic-tired trucks, can be obtained by writing to The Goodyear Tire & Rubber Company, at Akron, Ohio.

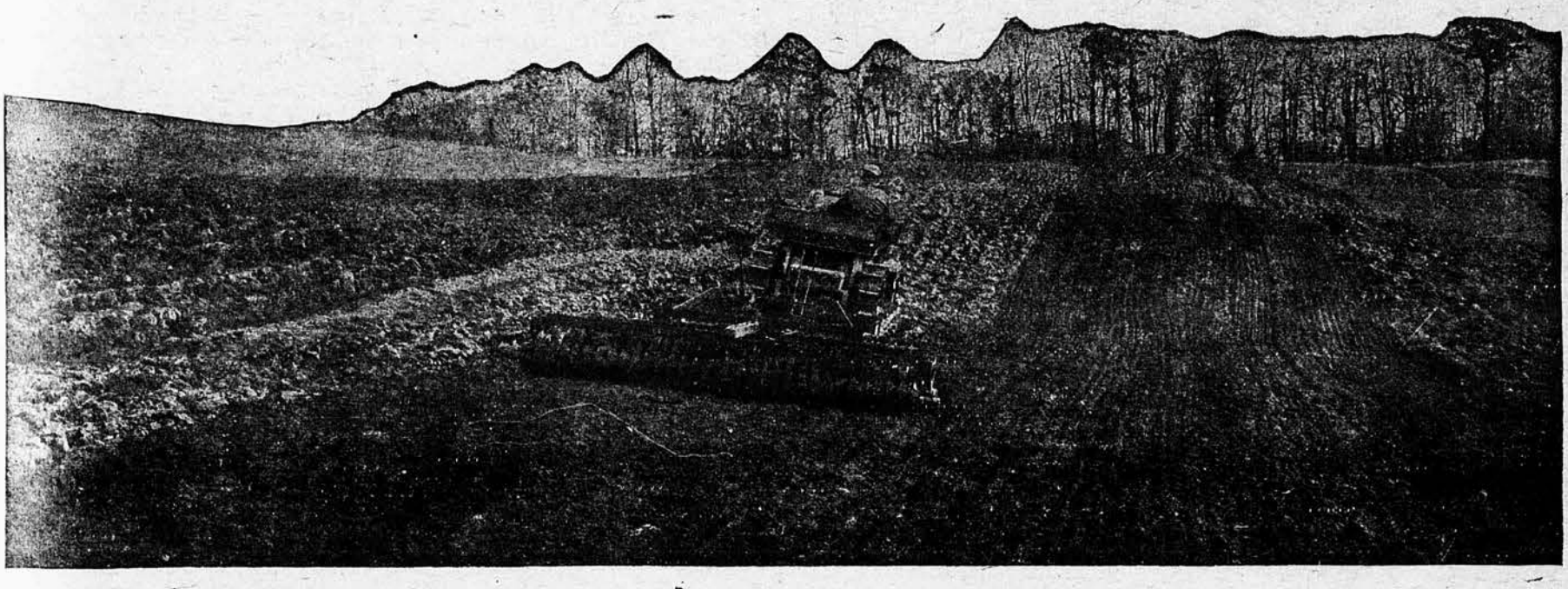
GOODYEAR

CORD TIRES

JT 365 DAYS A YEAR Built on the farm



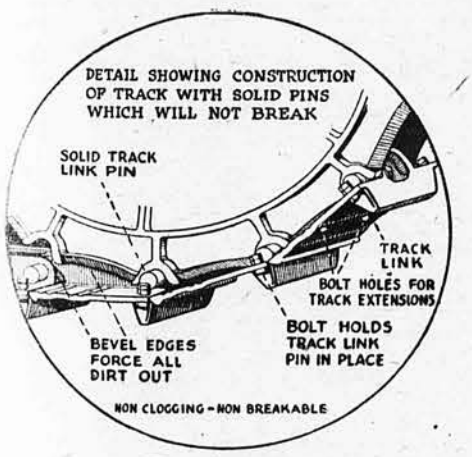
Notice the uniformitv of the JT power Line as against the natural accidents that follow horse and man power.



Once over after the plow with a JT Tractor gives you a perfcct seed bed. This isn't fine theory, but actual result as shown in this picture, made with a JT Tractor on a real farm last Spring. Saving, by records, 190 per cent. Speed, 20 to 30 acres a day. Replacement at this speed, 7 men and 21 horses. Have you got the men and the horses—now?

It's the Time and the Method that make the Crop

The JT Exhibit at the Kansas City Show will make history February 16 to 21



Ground pressure under this eleven inch steel track, 3½ pounds per square foot—lowest on record for a Tractor with the JT pull. Track shoes guaranteed. The JT pioneered the gauranty on tracks. Watch them follow. The JT can't clog, break pins, get out of alignment, mire or pack the soil.

It's the Track that Makes the Tractor

Catching Nature's Trains

Old Mother Nature has a schedule that beats all the Railroads. If you're there on time, you get on. If you're late, you miss it.

There's a fixed time to plow—to fit—to seed—to cultivate—to harvest.

Time is the Most Important Thing

The "when" in farming is as vital as the "how". The JT Tractor settles both. You can't tire it. It needs no breaking in after the idleness of winter. It never gets "soft"—never balks—never gets sick nor dies, nor objects to rain, snow, heat, cold nor ground conditions. It never falls down about four p.m. and lifts the plow to lighten the pull, The JT is steady as the calendar. It has been through every test in the hardest kinds of real farm work.

Consider the Method And Have Things Right

The JT Tractor will earn its cost in better crops. Add to this the perfect uniformity in deep plowing, even fitting, complete pulverizing, straight seeding, non-stop harvesting, straight away pulley work and all year round power delivery, and you have all the advantages over the farmer who is held back by the expense, the incompetencies, the delays, the fatigues and the failures of horse and man weaknesses.

The JT Tractor Company

Cleveland, Ohio

Offices and Factory: 1521 Fairfield Avenue

The JT Tractor Company
Office and Factory: 1521 Fairfield Avenue
Cleveland, Ohio

I am interested in the short specifications of the JT Tractor. I'd like to have the complete details. I farm _____ acres

My implements are _____

My dealer is _____

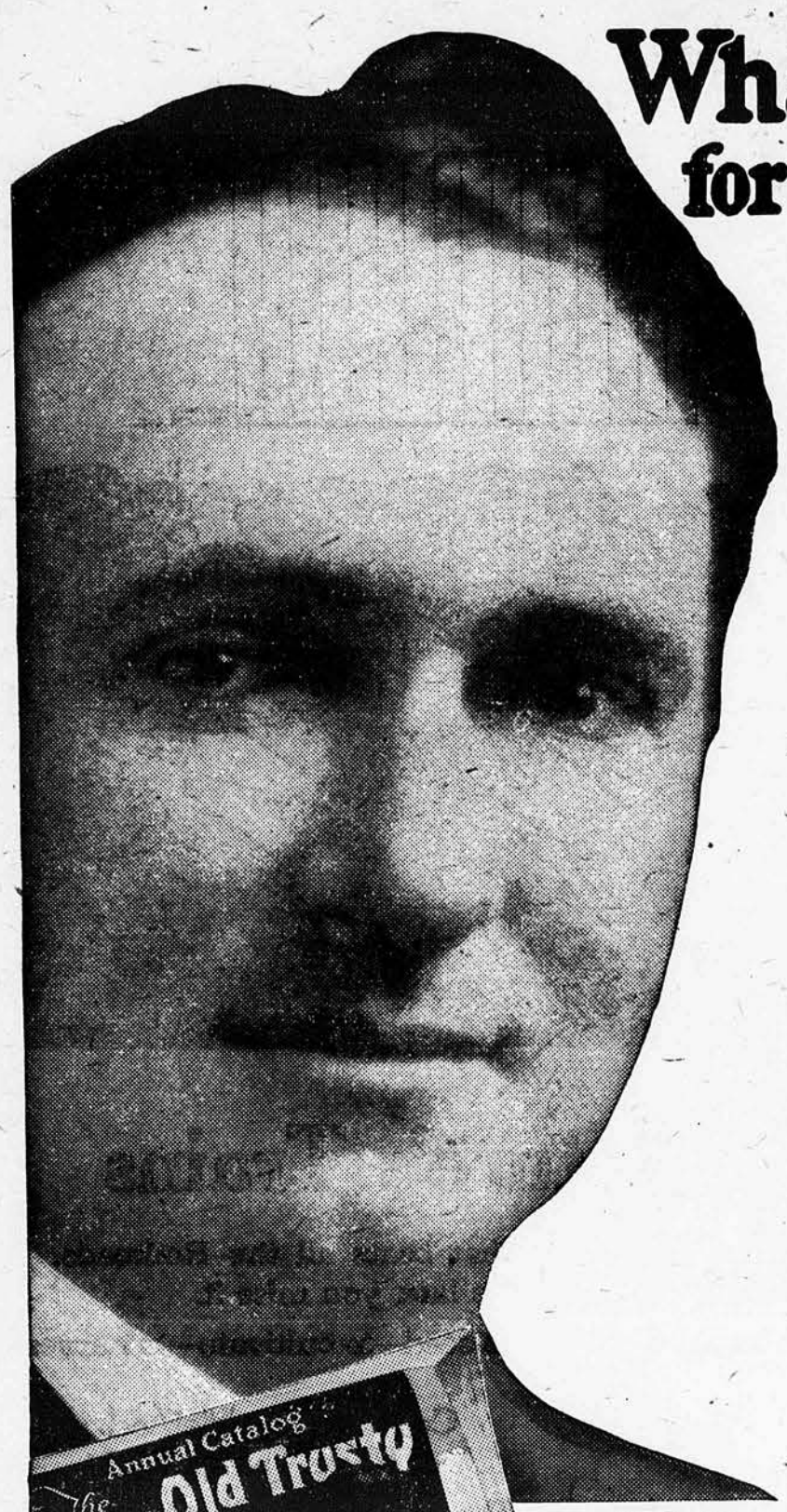
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What Would You Take for the Profit on 4 Hens?



I WOULD gladly trade the best Old Trusty we ever made. Do you know that the profits on four good hens could equal the value of a load of hay? Only nine or ten hens can easily lay enough eggs in a year to equal the value of a 40-bushel load of corn. And, if your corn averages around 40 to 60 bushels to the acre, then a dozen hens are worth an acre of land in productive value. Two hundred and forty hens would equal 20 acres of corn.

Figure it out for yourself. What are egg prices in your neighborhood? A hen will average about 120 eggs a year and will hustle for most of her feed in waste grain that would be lost otherwise, and in insects that feed on crops in the field.

Turn More Poultry Into Money

Please don't think that I am simply tooting a horn for Johnson the "Incubator Man" when I say raise more poultry, Neighbor. If the profits on four or five hens will more than equal the price of an incubator, what would one or two hundred bring?

You are in the business of farming to make money. Here is a part of farming business that I think has been overlooked by too many people.

There is a woman in southern Minnesota who makes more money on her poultry than her husband does on his pure bred hogs. Another in Oklahoma who says, "While my husband is busy farming, I make expenses at home with Old Trusty." And another Johnson customer in Missouri says, "We sold $3,000 worth of eggs on the local market in our town during the past three years."

Now, I am not all "Incubator Man." I harvested a few hundred acres of wheat, alfalfa and corn myself this year and know that yields were fairly good. But also know that no farm income can beat poultry for real profits per dollar invested. Don't forget that poultry usually pays half the living expense or more in most homes. Many a dollar earned by poultry is not counted in at the end of the year because it went to pay some grocery or meat bill.

Suppose You Let Me Send My Catalog, Anyway

And this doesn't mean that someone is going to talk an arm off for an order. We don't hound prospective customers with form letters. I've put all my story in one book, and we at Clay Center think it covers the subject of profitable poultry raising a little better than any other ever published, even if we did write it all ourselves, and print it in our own print shop. In it I've put the "know-how" of 27 years' personal experience and the best that we have learned from over 850,000 customers. It's more than a catalog. It's a poultry raisers' annual—72 pages, size 9 x 12. About one-fifth catalog and four-fifths poultry. Send for a copy. I'll be glad to mail it free.

We Don't Quote Fancy Prices on Old Trusty

We are small town folks. We built our business from the ground up. Did our own inventing. Manufacture our own machines and haven't learned how to make fancy prices on them, even if they do hold the leading records everywhere for biggest average hatches in all kinds of weather. Father made our first machines for home use. Because they were successful, neighbors wanted them. More orders followed. Soon father gave up his job at the mill and devoted all his time to incubators and poultry raisers.

We build Old Trusty in four handy home sizes, with and without the metal cover. And make quick shipment from factory at Clay Center, or warehouses at St. Joseph, Mo., or Ottumwa, Ia. We pay freight, or allow the freight and ship by express if desired.

But our catalog tells all about it. Mail the coupon, or a postal for a copy. Tell us your poultry troubles.

Yours truly, HARRY JOHNSON,
the "Incubator Man."

Ask for Book No. 19AD

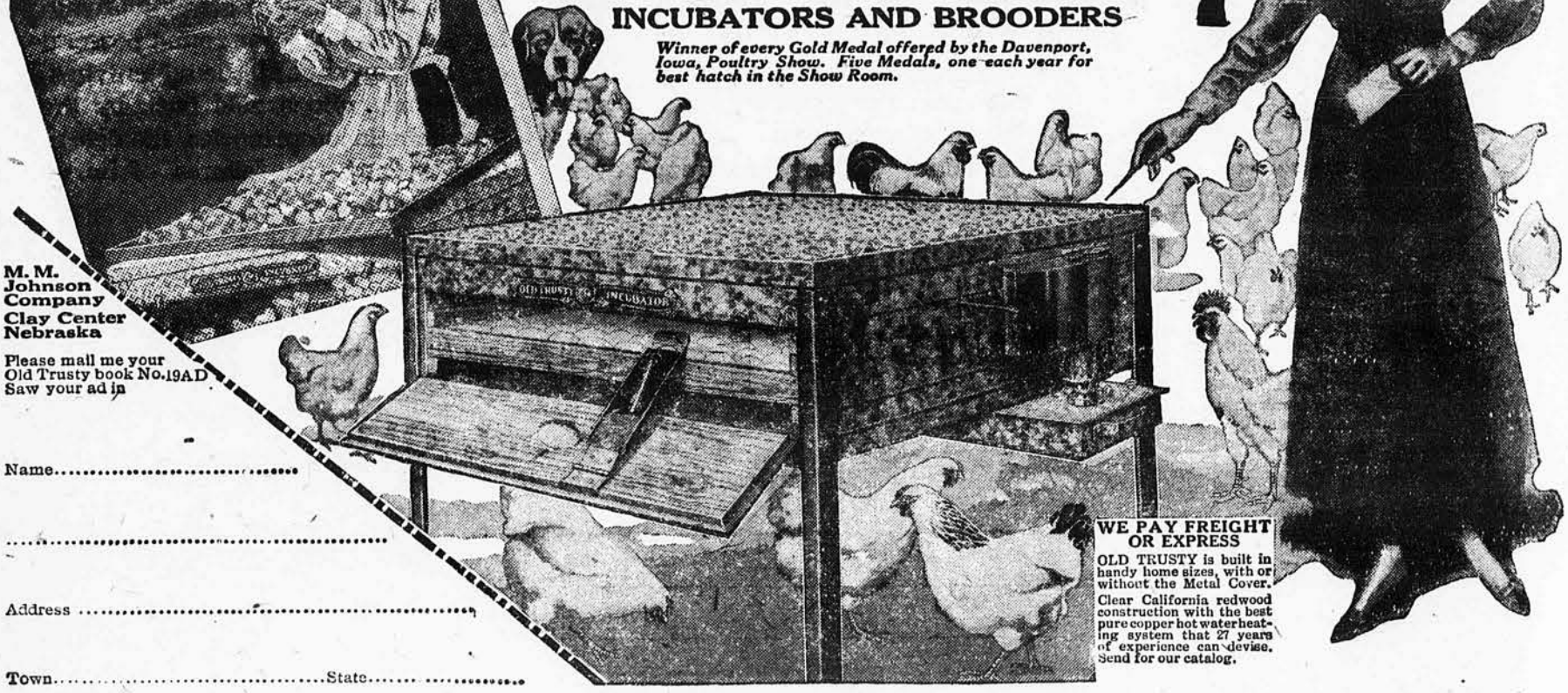
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Winner of every Gold Medal offered by the Davenport, Iowa, Poultry Show. Five Medals, one each year for best hatch in the Show Room.



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Clear California redwood construction with the best pure copper hot water heating system that 27 years of experience can devise. Send for our catalog.

KANSAS FARMER and MAIL AND BREEZE

Arthur Capper, Publisher

Vol. 58 February 7, 1920 No. 6

KANSAS STATE AGRICULTURAL COLLEGE LIBRARY 1920

The Farm Poultry Flock

By John L. Prehn

THE NUMBER of chickens on farms in Kansas is steadily increasing and the quality is improving gradually over the state as a whole. One very encouraging sign is the interest being manifested by the men on farms in this important branch of farming. There are still a large number of men who hold to the idea that "chicken raising is only women's work" and not worthy of the thought or attention of the men. It is my belief, however, that this sort of man is usually ready to appropriate the returns from the chickens. It is reasonable that the farm woman has the greater part of the responsibility in connection with the chickens but the man should be sufficiently interested in the project to see that everything necessary in the way of houses, equipment and supplies is provided.

For those with no previous experience in poultry raising, starting on the farm, the first point of advice is to establish a purebred or standard variety flock from the beginning. The second is to confine all efforts and attention to one variety at first so as to learn everything possible in connection with that particular kind of chicken, rather than attempt to handle a number of varieties and get nowhere. It is almost impossible on the average farm to have more than one variety and keep them pure, so that in time a number of purebred varieties will develop into a mixed or mongrel flock.

Three Methods Suggested

It is possible to establish a standard bred flock of chickens in one of the following ways: First it may be obtained by buying eggs from the desired standard variety for hatching and brooding the chicks on the farm with scrub hens. It is always possible to obtain broody hens from neighbors during the spring season. These can be disposed of after the new chicks are weaned. The second method by which a standard flock may be established is thru eggs custom hatched in one of the commercial hatcheries and then brooding the chicks artificially with any of the artificial brooding arrangements. These may be had from the small portable size, accommodating 50 chicks to the large colony size capable of brooding up to a thousand chicks. A third method of establishing a standard bred flock is to buy day-old chicks direct from a commercial hatchery and brooding them in either of the ways already mentioned. The fourth method of obtaining such a flock is by obtaining a pen of a dozen or so standard bred hens and a good vigorous male and hatching all eggs produced during the spring season. It is possible to raise from 200 to 300 chicks by the last method if conditions are favorable.

It costs no more to raise standard bred than it does to raise scrub chickens, but let us consider the result in each case at the end of a year. With standard bred chickens we will obtain about twice as many eggs. If there are 100 pullets in the flock there has been from four to six months' egg production during the first year, giving from 350 dozens to 500 dozens of eggs. There has been a demand for hatching eggs at the season when eggs were plentiful, bringing much better than market prices. Some surplus males have been sold as breeding stock at a price considerably above their meat value. The market eggs and market poultry, including culls and poor individuals from a breeding standpoint, have been uniform and attracted a better market.

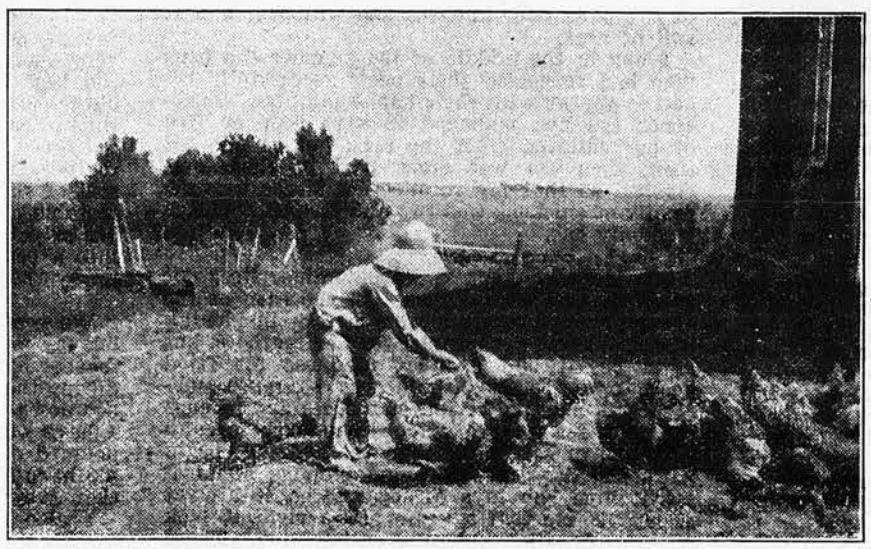
On the other hand, with a flock of chickens which are the result of breeding from nondescript stock, the pullets mature at various ages and therefore a given number will not give much egg production during the first year. There is no return other than for market product which is of poor quality and uneven in size and irregular in appearance.

There is a constant and growing demand for a better quality of dressed poultry and eggs. It is only thru establishing standard bred flocks on farms and keeping them so, that this demand will be met. To meet this requirement with respect to both poultry meat and eggs, one of the general purpose varieties of chickens should be selected. There is a wide choice within this group, which includes Plymouth Rocks, Wyandottes, Rhode Island Reds and Orpingtons. Of the Plymouth Rock breed there are six standard varieties. Three of these, the Barred, White and Buff are raised in considerable numbers and are quite popular in Kansas.



Most Farms Need a Flock of Turkeys.

In the Wyandotte breed there are eight varieties: the White, Buff and Silver being raised to a large extent thruout this part of the country.



Poultry Will Prove a Profitable Investment on Kansas Farms When Given Proper Care and Attention. Let's Increase the Production.

Either of these varieties will be found suitable for Kansas conditions. Where raised they are giving very good satisfaction, being quick growers, heavy layers and very desirable for market purposes.

There are but two varieties of Rhode Island Red, the single and the rose comb, with popularity about evenly divided between the two. Another Rhode Island variety, the Rhode Island White, tho not yet included among the standard varieties, is gaining in popularity in Kansas and promises to become well-known within a few years. This is one of many illustrations.

Of the Orpington breed there are 10 distinct varieties, only two of which have gained much prominence in this country, namely the Single Comb Buff and the Single Comb White. This breed originated in Orpington, England and was introduced into this country several years ago. They have all of the desirable characteristics of the American class breeds included in the same general group.

Where egg production is the only consideration, Leghorns will meet the requirement. There are a number of varieties in this breed but only three have gained prominence. They are the White, Buff and Brown. In Kansas, where a large part of the feed of chickens is obtained by them on range and if not utilized in this way would be lost, one of the general purpose varieties is likely to prove more profitable than the Leghorns. With grain which would otherwise be wasted, producing both meat and eggs, the returns from farm flocks properly cared for may be largely profit.

It is well to keep in mind the fact that "strain" and not variety or breed determines the results to be obtained with a flock of chickens. The strain is the family line which has been developed by some certain breeder thru the selection of desirable individuals to bring out valuable characteristics. To make the Kansas hen the biggest and best thing in the United States it is only necessary that farmers having mixed or mongrel flocks replace them with standard bred varieties.

Possibilities in Turkeys

While Kansas is steadily increasing its number of chickens the production of other kinds of poultry is remaining approximately the same or is declining. There are unlimited possibilities in turkey raising on a comparatively large scale for many farms in this state. With the price of turkeys last year reaching such a high price that only railroad employes, plumbers and other mechanics in towns could buy them for Thanksgiving without feeling the pinch, there is surely a bright prospect ahead for those who follow this line of poultry production in their work.

A 16 year old boy on a Kansas farm, with an initial outlay of less than $20, cleared almost $250 on a flock of Bourbon Red turkeys which he raised. It did not take much of his time either, for as he said: "When the poults were about 2 weeks old I let them range with the hens and they picked up all of their feed and took care of themselves." A farm woman recently marketed five young toms of the White Holland variety. These five turkeys brought just a little less than $35 and the only expense after they were hatched was a couple of dollars for corn to finish them for market. One farm woman in a western county of Kansas raises each year from 50 to 100 Mammoth Bronze turkeys, clearing from $200 to $600 a year on them with but little effort.

With the unlimited range permitted by the large size of farms and the nature of the farming in most parts of Kansas it is possible for at least half of the farms to have a flock of turkeys and to realize a neat profit on them. Not only will they add to the income but this kind of poultry is especially valuable in destroying grasshoppers and other injurious insects.

There are six varieties of turkeys raised in this country but the Mammoth Bronze, Bourbon Red and White Holland are most popular in Kansas and give (Continued on Page 21.)

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ARTHUR CAPPER, Publisher
F. B. NICHOLS, Managing Editor **T. A. McNEAL, Editor**
JOHN W. WILKINSON and G. C. WHEELER, Associate Editors

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

Passing Comment—*By T. A. McNeal*

NEXT SUMMER two men are going to be nominated for the great office of President of the United States, one of whom will be elected in November. There may be and probably will be other candidates nominated by other parties, but none of them will have any votes in the Electoral College. The next President of the United States will be either a Republican or a Democrat.

I have no criticism for any man or woman who votes some third or fourth or fifth party ticket, but the fact is that the candidate they vote for will have not only no possible chance of being elected, but will not have a single vote in the Electoral College. You may not be very well satisfied with either of the leading political parties, but if you wish to have your vote count in the final selection you must choose between them.

I am not going now to advise you as to which of these political parties you should choose. The fact is that so far as fundamental principles are concerned there is little choice between them. Men may talk to you about the differences between the principles of the Republican and Democratic parties, but if you pin one of them down and ask him to define just what the differences are, he cannot do it.

The next campaign will be waged over questions of administration, not over questions of fundamental principles. The Republicans will charge the Democratic party, which has been in power for eight years, with gross mismanagement and reckless extravagance and the Democratic party managers will dodge the record where they can and defend it as well as possible.

I do, however, wish you to go to the primaries which will select delegates to the state convention which in turn will select delegates to the national conventions. If you prefer to act with the Republican party attend the Republican primary in your neighborhood and if you prefer to act with the Democratic party attend the Democratic primary. The thing I wish to impress on your minds is that you should attend these primaries. The especial reason for urging you to attend is that there will be an effort made by a certain element in both political parties to foist upon this country compulsory military training.

President Wilson seems to favor this policy and his Secretary of War Newton D. Baker. There are also some leading Democratic Senators who are favorable to that policy. On the Republican side there are certain powerful interests which favor that policy and who desire a candidate nominated at Chicago who is favorable to their views.

It is my opinion that most of the people of Kansas are opposed to compulsory military training and that regardless of their political affiliations. There is, however, a well organized effort being made to send a delegation to Chicago favorable to the condidacy of General Wood, who is supposed to represent the universal military, compulsory service idea.

If you do not go to the primaries and vote for delegates opposed to this idea the supporters of General Wood will carry the day. I do not care who you are for, but I wish you to be certain to select delegates to the state convention who will be unalterably opposed to any candidate who favors that idea. I wish you to do this regardless of whether you call yourselves Republicans or Democrats. It is no use just to sit around and do nothing and afterward complain because the politicians have fixed things to suit themselves.

The Poultry Business

THIS issue of the Kansas Farmer and Mail and Breeze is largely devoted to giving information about poultry. We have poultry experts about this establishment who know more about chickens and poultry in general in a minute than I know in a year. I am not therefore writing this as an expert. I am, when it comes to the poultry procession, simply an humble citizen on foot, willing and anxious to sing the praises of the Kansas hen, but at the same time confessing that I know comparatively little about her.

I was brought up on a farm and of course on every farm there will be found a greater or less number of fowls. We had chickens and geese and guineas; but for some reason we never indulged in ducks. The hens were permitted to follow their own sweet wills and wander wherever they pleased. They sought out more or less secluded places to lay their eggs; that is, some of them did; others were more open and sociable in their habits and laid their eggs in the mangers. I always regarded it as a pleasant duty to hunt the eggs. There was more or less of adventure about it. I would see a hen emerging from the hay mow and lifting up her voice in boastful acclaim and knew that somewhere back in the recesses of the mow there was a fresh laid egg.

For a few weeks in the gentle spring time we had a superabundance of eggs, and that was one reason why I loved the spring time. We had eggs fried, eggs boiled, eggs scrambled, and custard pies in great abundance. I was permitted to eat all the eggs during this brief but glad season, that I desired, and I had a desire for a good many, for I was blessed with an appetite which knew no variableness or shadow of turning. During those few weeks despite the fact that all members of the household ate all the eggs their several appetites demanded, there was a surplus and this surplus was taken to the village store and traded for sugar, coffee, tea and other groceries. During this season fresh hen eggs would bring as high as 6 cents a dozen at times, but on days when the country housewives brought them in by the bushel basket full, the price might go down to 4 cents. Just think of that as you linger and hesitate to eat an egg which costs more than a whole dozen of strictly fresh eggs did then.

The egg season did not last long, however. Pretty soon all the hens concluded that it was their time to start families of their own. The maternal instinct is strong in the hen, but she lacks judgment. Some few managed to hide their nests but others who had been giving up their product from day to day had no reserve and they sat on anything that came handy. One of the adventures of a farm boy's life was hunting for eggs after the laying season was over. There is one thing to be said for the hen. She may lack sense but she has the courage of her convictions. She resents intrusion when she is about the business as she supposes, of hatching out a family. She will, however, put up as desperate a fight in defense of a nest which contains nothing except possibly a stone or a broken door knob as she will over a nest full of eggs.

Along in the middle of the summer the hens who had concealed their nests successfully began to appear with their happy families. Sometimes the hen managed to save four or five of her children from the rats, but as she led them thru the wet grass part of them succumbed so that my recollection is the average family of chickens was two and frequently there was only one.

We usually kept a considerable flock of geese as well as chickens. In the case of the geese the egg product was merely incidental. The goose was maintained for her feathers, but as a boy I had a great fondness for fried goose eggs, because there was so much substance in one and it was not necessary to pass the plate for more so often. The goose is more secretive in her habits than the hen. To begin with, she does not go round blowing about it every time she lays an egg, altho it always seemed to me that a goose had a right to look on her egg with pride and satisfaction. There are few eggs handsomer than a big, white goose egg. Instead of going around cackling and blowing about what she has done, the goose after laying an egg undertakes to cover it up so that the prying eye of the egg gatherer will not discover it. This seems like a foolish thing to do because it is difficult for the goose to conceal her nest.

Geese lay eggs for just one purpose and that is to perpetuate the race of geese. There are hens who get in the egg-laying habit and just go along laying eggs all the year round, apparently indifferent about the future of their tribe, but a goose lays just so many eggs and quits for the season. When she quits she quits. Then she sets about undertaking to rear a family. If some hens seem to be persistent of purpose when it comes to setting they are absolutely fickle in comparison with the goose. A goose will sit on a door knob in a vain endeavor to hatch out a house for months at a time with no indication of discouragement. She will wear all the feathers off the underside of her person and lose weight until she becomes a living skeleton but resents any interference with her vain endeavor. Take her away from the nest and confine her somewhere else for the purpose of diverting her mind, and when you suppose that she has forgotten her obsession, turn her loose and within an hour you will find her calmly on the nest void of eggs but as determined as ever.

Just why we raised guineas I cannot say unless it was for the purpose of testing the temper and trying the soul. There was some sort of legend that guineas caught mice but I never saw one catch a mouse. If the guinea had been born dumb it would be rather an attractive bird, but after listening to one, to love a guinea is impossible. When it comes to hiding its nest however, the guinea hen is a genius. She has the goose and the hen faded, or at least the guinea hens did, that were reared on the farm on which I was born. The color of her feathers aided her in concealment and as a result every summer the guinea hens would come off their nests with large families. Next to a bevy of baby quail a large flock of little guineas is one of the prettiest sights of my recollection. The baby guinea is larger of course than little quail but only about half the size of the baby chicken and much handsomer.

I often have wondered if anybody ever made any money out of guineas. My own recollection is that on the old farm we never sold any guineas and very seldom any guinea eggs, and for some reason we seldom ate the guinea, altho a young baked guinea makes good food.

I realize that in all of the foregoing there is nothing that will tell any chicken raiser how to take care of fowls or make money out of eggs. I wish to be perfectly frank about the matter. I neither know how to make money out of the chicken business nor have I the slightest desire to learn. But I wish other people to get interested in the business of raising chickens and producing eggs. I also wish to see other persons make a success of raising turkeys and ducks and geese. Goose feathers are not deemed the luxury they were when I was a boy. A few years ago I was stopping at a home in a very small town in Kansas and was put into the best room which was furnished with an old-fashioned feather bed. I remember the time when that bed would have seemed a luxury, but times have changed. I didn't rest well. The feathers seemed to encompass me about and sort of shut off the air. I was hot and uncomfortable and when at last I fell into the slumber of exhaustion I dreamed that I had fallen into a bog and was gradually being swallowed up by the quicksand.

We sometimes talk about the good old times but my memory reverts to the bed cord and the feather bed. The bed cord which used to break during the still watches of the night and let the bed down on the floor, in spots, so that as a boy I have often spent a good share of the night doubled up like a jack-knife. I know that people have a lot more comfortable beds as a rule than they had then.

I also know that while the old days of 5 cents a dozen for eggs are gone never to return, there are many more persons who can have a steady diet of eggs now than then. We abuse the cold-storage egg but cold storage has been an incalculable blessing to the people of this country.

Coming back again to the question of poultry as a business, I know that when I was a boy poultry and poultry products scarcely ever were considered in counting up the revenues of the farm. Now the poultry products aggregate in value many millions of dollars in each of the 48 states of the Union. Not very long ago I was riding on a street car in one of the cities of Kansas and overheard two women talking. One

of them had just disposed of four old fat hens for $9, or $2.25 each on the average. That is almost as much as a farmer could sell a hundred pound hog for when I was a boy.

During the year 1918 the poultry products of Kansas aggregated in value 15 million dollars in round numbers, more than twice as much as is needed to pay all the expenses of running our state government, including the maintenance of all of our state charitable and educational institutions.

But to make a success of poultry raising in my opinion requires not only close study and attention but a natural genius for the business. If you do not understand hens and are not interested in them except for the mere matter of making money out of them you probably should refrain from the business of keeping hens. I might say in passing that the same is true of bees. I like to think of the busy bee flitting from flower to flower gathering honey all day long, but I am willing to let her flit without interference from me. If I had to make a living caring for bees I would say "Here is where your Uncle Fuller heads for the New Jerusalem!" I do not have the same objection to caring for fowls of various breeds and idiosyncrasies, but I do somehow have a feeling that, perhaps, I would not be a success as a guardian of hens.

What of the Reds

I have been an interested reader of "Passing Comment" for a number of years and have always enjoyed and appreciated the unbiased way in which you have been wont to discuss current topics. However, in issue of January 3, it cannot be said that you handle the Red situation in an unbiased way. I do not know a great deal about the so-called Reds, but I do know that they have not sprung up spontaneously, something has fostered and caused them, and that is a thing you wholly neglected to dwell upon. I am also inclined to be skeptical about their being as bloody and vicious as depicted by the press, in fact I have long ago learned to take the substance of a "capitalistic paper" with a grain of salt. To me it seems that the very antagonism that the capitalistic press holds for them, is in itself a commendation, and ample cause for reason to believe that they are not half bad.

For instance, the capitalist press has little or nothing to say about profiteers, than whom the world holds no worse criminals, and compared to whom the bloodiest Red ever pictured, becomes a veritable benefactor. At rare intervals, one reads in an obscure corner of a paper, that some investigation is about to occur in connection with profiteers; always about to occur and this only to satisfy temporarily the gullible and suffering public, that there is some relief awaiting them from a situation which has become almost untenable. But the investigation (?) never occurs, and the hogs continue merrily to fleece, skin and rob us until goaded into resenting, which automatically converts us into the so-called Reds. We are all right so long as we meekly endure our privations, but let us voice our protest, our indignation, and we are at once dangerous and violent Reds.

Why does the capitalistic press hesitate to quote some of this seized Red literature? Give us a chance to read their doctrines. If it is bad, we won't fall for it, it can't hurt us, and if it is good it can't hurt us either. But we would like to know first-handed and not thru hearsay, what they are instigating and promulgating. If it is only one-half as vicious as depicted by the newspapers, all it would need to forever condemn itself in the minds of Americans, is the widest publicity. It is the prejudiced attitude, the unfair method of the capitalist press in dealing with the situation, that cannot help but invoke a sympathy for them in the minds of fair-minded people.

You suggested having them placed and guarded upon some isolated islands in the Pacific Ocean, and volunteered the opinion that they would have a Hades of a time of it. Perhaps they would, but did it ever occur to you, what an interesting time a proportionate number of profiteers would have if rounded up, as they amply deserve to be, and placed upon such an isolated island under such conditions as you suggest for the Reds? They would be utterly helpless without the working man whom at present they lord it over, and are wont to despise. Whereas, it is my honest opinion that a colony of intelligent workers would make good upon such an island, unhampered by the leeches and parasites who gobble up all they can produce here.

In conclusion I wish to comment on your opinion regarding free speech. In this you say: "Now every man ought to be charitable and broad-minded and willing to permit every other man to think what he pleases and say what he pleases so long as that man does not undertake to work injury to others or to society in general." Then there is an exception, and in consequence of which it is no free speech at all. There can be no happy medium. It is no free speech as long as there are restrictions. As well say, " . . . . so long as he does not undertake to displease the masters, or so long as he says only that which pleases the profiteers."

In my mind's eye, I can see one Roger Williams, who was banished, in other words, deported, not because he was wrong, nor because he was a bad man, but because he had ideas at variance with those of the masses, because he advocated something better, something for the benefit of everybody, and was therefore an enemy of society (?) dangerous, vicious, and in no wise to be tolerated, and it was deplorable that we still adhere to such wanton savagery.

Give us substantial reasons, Mr. McNeal, some concrete evidence why these revolutionary people must be prosecuted; something besides mere allegations or assertions. Spread their literature broadcast, quote their doctrines, and if it is evil, it will condemn itself. The mere fact that a man is of a revolutionary spirit does not necessitate his being an undesirable. Washington was a revolutionist, and there were others. A man who wishes to improve upon a mechanical device, or a chemical formula, or upon a species of vegetable, or a breed of cattle, is not considered a dangerous individual even if each article he is seeking to improve upon happens to be the best and nearest perfect of its kind in existence. On the contrary, he is encouraged.

We have today what is unquestionably the best form of government yet devised, but still not by any means perfect, but the person who strives conscientiously to suggest an improvement, something better, is at once persecuted and punished or banished. Why do we cling to primeval methods? Why do we still adhere to and practice the barbarous methods of olden days?

Let the people hear what the revolutionary minds of 1920 have to suggest as such a betterment, let us hear it as they state it, and not as distorted by the reactionary press. If we are to have a government of, for and by the people, let the people be the judges whether the new ideas are to be accepted or rejected. If their propaganda is as preposterous and as ridiculous and withal as unreasonable as you state, then give it enough rope, and it will hang itself. But it is difficult to believe that there are humans who would advocate the things they are charged with advocating.

You will probably try to misconstrue this writing of mine to indicate that I am a Bolshevist. Far be it from me. But I do believe that there are two sides to all things, and I am fair-minded enough to wish to air out both sides. I believe in giving the devil his dues. I also believe that Bolshevism, whether good or evil, never will be suppressed by present tactics. This Bolshevism as I understand it, is a result of other conditions, and therefore it behooves the government to get at the root of it. If the drastic measures now employed to endeavor to stamp out this condition, were employed against the parasitic profiteers who are really the breeders of the prevailing discontent called Bolshevism, I am confident it would quietly dissolve. What do you think, McNeal? I have observed more satisfactory results by remedying a shoe which causes corns, than to carve and doctor the corn itself. In fact by improving upon the shoe, the corn automatically vanishes in due time. The corn is the resentment of wrong conditions, in short the result of environment, and no amount of carving (persecution, if you please) will eliminate it. And it is my opinion that my theory bears out with political and economic conditions as well.

I hope to read further comment in the columns of "Passing Comment" on this subject, which in reality is one of the foremost subjects of the world today. It is one which deeply concerns and affects us all. A. V. PAULSEN.

I do not happen to have at hand just now any of the literature put out by the revolutionists, or I would publish it very gladly. I will say, however, that I have read a good deal of it that seemed to me to be very disloyal and calculated to do harm.

Now as to free speech, I agree that there ought to be great latitude in the matter of speech in this country, but suppose that some agitator should get up and publicly advise organizing a rebellion against the government, or the assassination of public men, or the burning of property, would Mr. Paulsen say that he should not be restrained from inciting rebellion, riot and bloodshed?

The man who deliberately incites another to do a wrongful act is as bad as the man who does the act and frequently worse because he is the stronger will of the two. A strong personality may gain such domination over a weak minded man that at his suggestion the weak minded individual will be ready to commit any kind of crime. I concede that it is the right of any citizen of the United States to criticise the government and to urge a change in the form of government, provided he does so in the orderly way permitted under our Constitution, but I do not believe that free speech should be permitted to the extent of stirring up revolution, riot and bloodshed.

Mr. Paulsen is in favor of going after the profiteers. So am I, but it must be said in candor that profiteers are not confined to any one walk, station or occupation. There are big profiteers and small profiteers, each getting his so far as his opportunity and ability go. If the job of picking out the profiteers were left to Mr. Paulsen I apprehend he would overlook a number who would be as guilty as the ones he would condemn to exile.

I have found that as a rule men are willing to have the other fellow punished for getting more than is justly coming to him but they do not wish their own privileges and perquisites interfered with. Mr. Paulsen wishes me to quote some of the objectionable utterances of the Reds. I consider this an entirely reasonable request, and will do so soon. In turn and just to satisfy my curiosity I would like to have Mr. Paulsen some day when he is not busy send me a list of the profiteers he would like to see banished to the isle in the Pacific. It might be that after looking over his list of names I could add a few and then we could agree on the date of deportation. But I am rather curious to see his list. By the way, there has been some talk of setting aside our island of Guam for the very purpose I had suggested. It is a good safe place. The ocean there is deeper than in almost any other locality, so that there would not be much chance of the interned Reds wading out or the profiteers either.

However, I wish to say this much for the men whom I apprehend Mr. Paulsen would pick out as the chief profiteers. There, for example, are the packers. Now those old boys have their faults and I am heartily in favor of putting a crimp in their power and punishing them for their hoggishness, but indolence is not one of their faults. If they were put on a lone island along with the Reds my guess is that they and not the Reds would run the island. They are brainy, resourceful and energetic men. A good many of them were born poor. Some were not, but their fathers were and if the sons had not inherited the resourcefulness of their ancestors they would not have held their places as captains of industry.

If Mr. Paulsen thinks these men would sit around and starve because they would not be willing to work or know how he is badly mistaken. The objection to these captains of industry in my mind is after all largely the objection that I have to the Reds. They wish to be above the government. They wish to be above the law. They do not wish to be hampered by statutes and that is just what the radical Red agitators wish.

What Readers are Saying

ONE of our subscribers, H. H. Herrman, writes: "The more I read and study about compulsory military training the more I am opposed to it, considering the question both from a psychological and Bible standpoint. When Jesus said 'Thou shalt love thy neighbor as thyself' I do not think He meant that an individual or a nation should equip themselves with all the modern machinery of war and destruction, and when they do they are acting contrary to His teachings.

"Germany with her army of trained men and her machinery of war, got to the point where she considered herself the conquering nation of the world. That was the psychological effect preparedness had on Germany." Mr. Herrman also calls to mind the story of ancient Babylon with its wonderful walls, with its great stores of provisions and its capacity for producing sufficient to feed the people for an indefinite period and yet with all its preparedness, Babylon fell. It is my opinion that Mr. Herrman voices the sentiment of a large number of the citizens of Kansas. I am hearing from many of them every week and all the letters are to the same effect.

The Senate Military Committee by a vote of nine to five has recommended for passage a compulsory training bill. It is a weak measure which contains all the evils of the Prussian system without any of its doubtful benefits. It provides that all the young men of 18 and 19 must take a training for four months. In order to make this popular the bill provides for industrial training as well as military. The absurdity of undertaking to crowd a military and industrial training into the short space of four months ought to be entirely apparent.

With this short training period there will be no industrial training worth mentioning but there will be intensive military training, the very hardest kind. All soldiers agree that the most difficult and discouraging period of military training comes during the first three or four months. What will result if this bill becomes a law is that the young men of the country will be forced into a disagreeable training, forced to submit to official snobbery and tyranny and let out just in time to leave the worst possible impression on their minds.

It will mean a great army of commissioned officers, a large store of equipment, kept up at tremendous expense. Of course the advocates of compulsory training say that it will not be so expensive to maintain that kind of an army as a large regular army. The answer to that is that the people do not desire a large regular army any more than they desire compulsory military training.

Working Very Well

IT IS TOO early yet to pass judgment on the new industrial court law passed by the legislature in special session, but it seems to be starting out well. One incipient strike was called off. One shutdown has been averted and in all probability still another strike will be settled very soon. The law is demonstrating that it operates as well against the employers as against the employed.

Whenever it is demonstrated that there is an impartial tribunal which will hear and determine the controversies between labor and capital, between the employers and employed, then the law will become exceedingly popular and will provide a precedent for other states and for the entire country. It may mark the beginning of the end of industrial strife in this country; if so, I think we will see inaugurated an era of production and prosperity such as the country never has before experienced. As I said at the beginning, it is too soon to pass judgment on this law but the outlook is bright.

Capper Folks, and Proud of It!

Dads, Mothers, Boys and Girls, Pigs and Chickens Have That Satisfied Look When They've Entered the Pig or Poultry Club



No. 1—County Leader Merlyn Andrew of Johnson county. No. 2—Howard Lucas, Stafford county, and his "kid" brother. No. 3—Raymond Smith of Anderson county. No. 4—One of Hazel Horton's proud Light Brahma cockerels, Linn county. No. 5—Mrs. Horton, Mrs. Howerton, Linn county, Mrs. Cubbison, Mrs. Wallen, Mrs. Scruggs, Anderson county. No. 6—Helen Wheeler, Coffey county. No. 7—Linn and Anderson county poultry club girls at joint meeting. No. 8—Agnes Neubauer, Republic county. No. 9—Mr. and Mrs. Casper Stone and daughters, Ruth and Grace, Rice county. No. 10—A Rice county contest entry with their proud owner, Herbert Hays. No. 11—"Sam" Eberhardt of Harper county. No. 12—Way out in Ford county. Vern Fisher showing 'em how to grow real hogs. No. 13—Edith Grover, Coffey county. No. 14—Anna Cooper, Erma Organ, Cynthia Cooper, Cora Fink, Gove county. No. 15—Leslie Eldred, Phillips county, standing, and his brother. Loyal to the Capper clubs, these folks and hundreds of others in Kansas are working to make 1920 the biggest club year yet. Time for enrollment in the boys' pig club closes March 1, in the girls' poultry club and the boys' and girls' calf club April 1. Poultry club age limit is 10 to 18, pig and calf club 12 to 18. Look up the application coupon in this issue.

Improve Poultry Thru Selection

Chickens Vary Greatly in Their Ability to Produce Eggs, to Resist Disease; And to Develop a Carcass Suitable for Market

By H. A. Bittenbender

CAREFUL selection is the surest road to successful poultry production. Chickens vary greatly in their ability to produce eggs, to resist disease and to grow out into a carcass suitable for market, and the poultryman who fails to take advantage of these differences and practice a rigid selection of breeding birds is neglecting one of the most important factors in successful poultry management.

One of the greatest sources of loss to the poultryman is thru disease and poor health. This loss is not only confined to actual death in the flock but egg production is limited, eggs fail to hatch, chicks die in the shell, while those chicks that do hatch are hard to raise. Minor ailments are constantly present in the flock and serious epidemics may break out at any time. While conditions of this sort may be due to improper methods of management, it is often due to lack of disease-resisting power on the part of the birds and too low vigor and vitality. This loss can be materially lessened by careful breeding, and selection of those birds for breeders that show by their external characteristics they have the ability to withstand unfavorable conditions and the attacks of disease-producing organisms. Birds showing the following characteristics are not suitable for breeders, egg producers or high-class market fowls.

1. Slow Growth and Late Maturity

During the growing season it is well to mark those birds falling behind their brood mates and not use them as breeders. Rapid development is essential for market poultry as well as egg production and is indication of a strong constitution.

2. Physical Weaknesses

I. Head—Long, narrow and lacking depth from top to base of beak; nostrils, small and elongated; beak, long, straight and pointed; eyes, dull and sunken; face and comb often pale; comb, undeveloped.

II. Body—Narrow, especially thru back, lacking in depth. Breast undeveloped and sharp.

III. Legs—Long and stiltlike or bending at hocks, giving the bird a squatting appearance; toes—long toenails, sharp.

3. Lack of Vigor as Shown By:

I. Dull eye and listless appearance.

II. Indications of disease denoting low resistance.

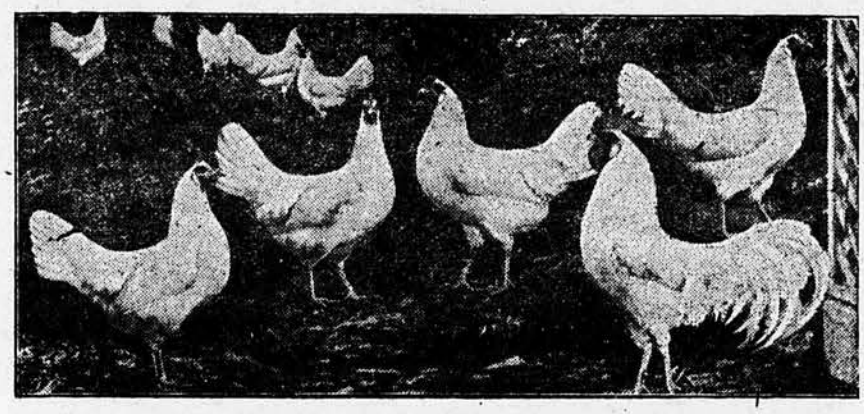
III. Lack of energy—inactive.

IV. Feathers rough, not well preened.

By selecting these birds as breeders that show great physical strength and immunity from the common poultry ailments it should be possible to build up a strain in which the loss from minor diseases would be almost eliminated.

In the majority of flocks the average egg production could be materially increased by a rigid selection of breeding birds with regard to their past production records, as indicated by external characteristics at certain seasons of the year. Egg production is known to be an inherited characteristic in which both the male and female are concerned and both must be considered in a breeding program designated to increase the egg production of a flock. The male must be carefully selected, taking into consideration all the points of vigor and physical strength.

It is desirable to know something of the egg production of the male's mother. The poultryman who is breeding for increased production must not only use males of great strength and vigor but must use those whose mothers are known to be high producers. One male of this sort is worth several of the ordinary kind and when mated with strong hens of high egg production have well produced pullets of high egg production capacity.



Superior Types of Fowls Like These of Any Good Breed Always Will Prove a Profitable Investment for All Progressive Farmers in the West.

In selecting females to use as breeders, pullets that show marked vigor and vitality and start laying early in the fall are to be preferred. In the case of hens, however, there are certain characteristics which indicate with a fair degree of accuracy what their past production has been and are valuable aids in determining which hens to market and which to keep over for another year.

The value of a breeding pen during the hatching season is difficult to over estimate. Selecting the eggs for hatching from the general flock tends to lower the average egg production rather than increase it and will not breed high vitality into the flock. The truth of this statement can be appreciated readily by considering how the practice works out. Few farm flocks are closely culled and contain many individuals low in vigor, physically weak, immature, and naturally low producers. These birds begin laying in the spring and lay thruout the breeding season, so many of their eggs are incubated. The vigorous hens that have laid thruout the winter often become broody early, and are set. If they do continue to lay, their eggs are usually lower in hatch quality than those of birds laying only in the spring, so a higher percentage of chicks from undesirable mothers are hatched. In flock selection too, the entire flock must be mated, necessitating the use of several roosters. These cannot be selected as carefully as one to be used in a breeding pen. It is better to pay $10 for one good rooster and mate him to the best hens than to buy 10 indifferent ones at a dollar apiece and turn them loose in the flock. All things considered, the only way to improve a flock by breeding is to select closely the kind of birds desired, mate them to a good male and use only eggs from such a mating for incubation. It is better to hatch 200 strong, vigorous, livable chicks that will mature into high-class birds from such a mating than to hatch 400 indifferent chicks, hard to raise, subject to disease and with every chance of growing up into poor producing individuals, if they grow up at all. Once the right kind of birds are selected and put into a breeding pen, the results will speak for themselves.

Culling out the inferior specimens ought to be a continuous process. At the time of hatching, the cripples and weak chicks may as well be killed and as they develop it is always safer to kill at once any individual that shows signs of disease. It is poor practice to let weak and sick chicks remain in a flock of otherwise healthy birds for they are a source of contagion and may spread serious diseases. It is better to be on the safe side and kill a few that might recover, rather than to run the risk of losing the entire flock thru the development of serious disorders. When broiler size is reached, fatten and market all the backward and poorly developed chicks and those showing serious seed defects. They will not make a profit on the feed consumed later. Cull again later and sell as fryers. During the early summer pick out all the hens that start to moult and sell. The price is higher for hens then and they will lay few, if any more eggs. Thruout the summer and fall it is well to sell the older hens as they stop laying or show signs of being low producers. This saves feed and makes more room for the developing young stock. Before the pullets are put in the laying house, go over them carefully and weed out any that show signs of weakness or unfitness for egg production. Pick out all the old hens not known to be good layers and the poor individuals to sell. It absolutely does not pay to keep a bird that there is any doubt about as only a good layer can be a profitable bird. If there are better males in your own flock than you can get elsewhere, pick a good individual from a high producing pen and use him as a breeder for next year. Mate some good laying hens or big early maturing pullets with him.

Laying Hens	Non Layers
1. Have a bright red fine textured pliable comb.	1. Have a dull colored or faded comb sometimes covered with whitish scales.
2. Are wide between the points of the pubis bones. Bones are thin and pliable.	2. Are narrow between the points of the pubis bones. Bones are thick.
3. Are soft, loose and pliable in the abdominal region.	3. May be tight and rubbery.
4. Are energetic in search for food, and consume large quantities if available.	4. May be listless and lazy.
5. Are first to leave the roosts in the morning and last to go on at night.	5. Are early to bed and late to rise.
6. Go to roost with full crops if it is possible to get the food.	6. Eat less than laying hens. Crop often only partly filled at night.

Better Results With Poultry

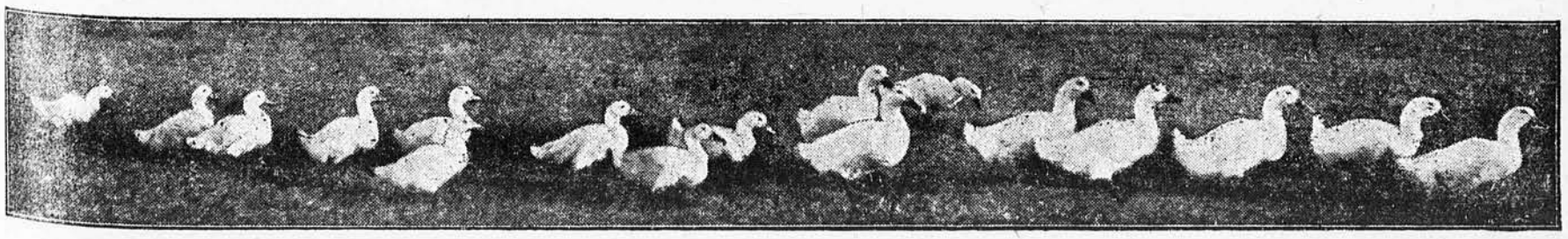
In advertising hatching eggs it is not best to place too much emphasis on home egg records even if they are good. Producers who wish to bring up their stock and charge high prices for the eggs should enter their birds in the official contests and obtain records supervised by disinterested persons. Poultrymen who do not enter their birds in the contests can obtain birds of good laying ability and sell the hatching eggs at a fair price. But they cannot expect buyers to place too much confidence in private records now that we have the egg-laying contests to furnish producers with official records.

A broody coop made of slats should be in every poultry house. Then the broody hens needed for hatching eggs can be quickly removed from the nest and fastened up until broken. These coops should be portable so they can be taken outside for sunning and spraying. And in the summer when it is very hot in the poultry house it may be best to place the broody coop outside in the protection of a shade tree. In the winter and early spring the broody hens must be locked up inside the laying house where they will be protected from storms and drafts.

Early hatching with hens may be more successful if only 13 eggs are given to the hens. The average hen of the American breeds can hardly protect 15 or more eggs during very cold weather. The eggs are slightly chilled by turns if the hen cannot cover them all. Often they are crowded and broken. When fully as many chicks can be obtained from 13 as 15 eggs it surely pays to use the extra two eggs for another purpose. The large Brahma and Cochin hens usually can cover at least 15 eggs at any season.

When feeding laying mash for eggs the producer sometimes keeps it up for two or three weeks and then stops because the increase in egg production does not seem large. Often the birds may have just reached the stage for profitable egg production when their balanced ration is cut down. Poultry cannot stand neglect, suggests a writer in the Michigan Farmer, and it costs more than ever to bring them back into condition after they are neglected. The only way to earn a profit is to keep them on balanced rations at all times. Then if they cannot pay their board and a profit some other factor in the management is wrong. At least there is no hope for profit if the feeding methods are wrong.

Farmers using artificial brooders heated with oil or coal, incubators of any kind, or lamp-heated oat sprouters should give them careful attention to keep down the risk from fire. A handy fire extinguisher is one of the cheapest little insurance policies that can be purchased. Of course, it must be backed up with other forms of insurance.



Put All the Profiteers in Jail

Senator Capper Shows How the Public is Being Fleeced on Clothing, Food and All Necessaries of Life and Advocates Severe Penalties

FEW MEN in public life have exhibited the courage and boldness in attacking graft and profiteering in big business that Senator Capper has shown since he became a national figure. No threats or combinations of special interests have been able to frighten him or induce him to stop his relentless exposure of some of the high-handed methods used by profiteers in gouging the common people. Last week he delivered a speech in the Senate on profiteering that was a startling revelation to all who heard him. After reading a telegram from the National Wool Growers' association as to the prices the producers are receiving from wool, Senator Capper said:

"Mr. President, this statement is of more than ordinary interest when considered in connection with the latest official report of the national conference board, which brings the startling information that from July 1, 1914, to November, 1919, cost of clothing has increased 135 per cent, tho foodstuffs increased only 92 per cent, fuel 48 per cent and rent 38 per cent.

Menace to Business

"Anxiety concerning the continuous advance in prices is reported general in American business circles by the Federal Reserve Board's recent review of business conditions. It may well be. The prevailing high prices are referred to in that report as an 'unquestionable menace.' This report virtually admits that excessive profit taking is beginning to menace business itself, to kill demand.

"Just now the country condemns labor in unsparing terms for its exactions, but the evidence is overwhelming that the cause of the expensive cost of living is not labor wholly, but profits. It is true that labor demands all it can get that it may live, but big business, to a great extent, keeps on getting and the helpless consumer pays. After the labor is paid, profits mount to unheard of heights.

Public Being Sand-Bagged

"Can we doubt that the general public is being sand-bagged when we know such facts as these: The net profits of the American Woolen Company, after federal taxes had been deducted, were $2,778,600 in 1914; $7,160,295,000 in 1915; $8,210,761, in 1916; $15,664,985, in 1917, and $12,324,084, in 1918. All on an invested capital of 22 million dollars. The earnings on its common stock were $10.80 a share in 1915; $27.05 a share in 1916; $47.62 a share in 1917, and this year, according to best Wall Street information, will exceed $100 a share, or more than the stock's par value. A year ago the watered stock of the American Woolen company, the chief textile company in the United States, was quoted on the stock exchange at $45. Today it is close to $150 and in recent weeks has been quoted at $156.

Woolen Company Cleans Up

"For the wool that goes into a suit of clothes which sells for $100, the wool growers receive $7.37 says the wool growers' association. This makes the finished garment cost the consumer more than 12 times the price of the raw material. The price of clothing has made enormous advances and is still advancing notwithstanding the American Woolen company cleaned up net profits of 56 per cent in 1917 and in 1918, or 2 million dollars more than the 20 million dollars total of the company's authorized outstanding stock.

Cotton Gamblers Score

"There can be no real shortage of cotton with a crop of 11 million bales added to 3,600,000 bales left over from 1918, but it is a common occurrence, I am told, for the speculators on the cotton exchange to boost the crop value 50 million dollars in a single day. In one week, during the crop year, they actually increased it one-half billion dollars.

"Said the Monroe (N. C.) Journal a few days ago: 'Cotton manufacturers are making from 100 per cent up on their investment, and several have not only duplicated their plants in one year but paid a dividend also.

"'Raw material and manufacturing brings the cost of yarn to about 80 cents, selling at $2, or at a profit of 150 per cent.'

"The value of a single load of cotton advanced $131.25 at Phoenix, Ariz., in a recent week while the load was being weighed. To this enormous speculative margin the mills and jobbers add a margin of profit more than ample to meet all contingencies. Therefore is it any wonder that sheeting now costs nearly as much a yard as silk used to?

Where Shoe Money Goes

"A 50 per cent increase in the price of shoes by next summer is predicted by the president of the National Shoe Travelers. The day this prediction appeared another extra dividend was declared by the Central Leather company. The common stock of this company was rated at $58 a year ago. It is now quoted around $1[illegible] and a large issue of new stock has recently been added. While the people contemplate going barefooted the leather trust walks on velvet made thicker. A year ago it was the war demand for leather that made shoes high. Now it seems to be the peace demand for velvet.

"At a time when shoe manufacturers have issued announcements of still higher prices for shoes, the report of one of the great leather corporations shows profits earned of 52 per cent on the stock. The stock or most of such corporations originally did not represent strictly, dollar for dollar, the money invested, but a good part of the stock represented earning power. A great deal, or most, of the so-called water in security issues stands for what the organizers believed the concern would earn at a fair dividend rate. But 52 per cent is not a fair rate of return on such watered capitalization. As long as unrestricted prices of stocks are in Wall Street we must be prepared to pay robbery prices.

Sugar Gougers Have Sweet Task

"Just now the greatest get rich quick game in America is gouging in sugar. It is a mighty sweet and rich business for profit cormorants. The equalization board held the refiners down as to price, so in the name of Great Britain and France they bought up the Cuban sugar crop and exported it to those countries at a higher figure than the board would allow these men to sell it in the United States and this government let them do it. As a result the increase in the price of sugar will add 1 billion dollars to the burdens now being borne by the American people. The stock of the Cuban-American Sugar company has advanced more than 200 per cent in the last 12 months, probably because of the 'sugar shortage.' The remarkable rise in its stock quotations indicates it is near a rich mine of easy money.

"A year ago the stock of the Crucible Steel company was quoted at $52. Today it is quoted at $209, and has recently been as high as $261. Before this country entered the war the Crucible Steel company never earned a dividend on its watered stock. The quotation shows what the best opinion is of its earning power.

Enormous Profit in Steel

"Mr. President, while we were sending the boys to France, eating war bread and conducting all kinds of drives to win the war, the United States Steel corporation made $1,300,000,000 net profit. The price of steel common stock, worthless at the beginning, soared to values of unbelief.

"We have 4 million homeless people in the United States as a result of the melon cutting in lumber. There has been and is shameless profit in that industry, yet weekly advances of $2 to $5 a thousand are not uncommon.

Regarding Price of Lath

"Relative to profits in lumber, a reliable Kansas lumber dealer writes me: 'Ten months ago the wholesale price of the best grade of lath was $5.30. We are selling lath to trade today at $10 a thousand, altho by the inclosed new price list showing lath at wholesale, lath is now quoted to us at $17.25 and $18.25 a thousand f. o. b. this place.'

"I begin to think the only way out is for the public to stop buying. I would much sooner lock up and lay off for six months than continue business under present conditions. So I think it is up to the government to advise the people to stop buying. The big five don't get all the hogs to slaughter.

"Here is an increase of nearly 250 per cent in 10 months on the war price of a staple commodity. In shameless and reckless greed the lumber barons now lead the procession.

"Mr. President, the market price of the farmers' livestock has declined nearly 50 per cent, bringing many farmers to the verge of bankruptcy, but the high prices the consumers pay for meat are virtually unchanged. This is particularly true of pork, of which we have a surplus of more than 1½ billion pounds produced last year, besides large quantities in storage.

Profiteering in Coal Also

"The Fuel Administration restricted the advance in wages asked for by the striking bituminous coal miners to 14 per cent, because at that per cent the consumer would not have to be further taxed for his coal. Notwithstanding this estimate, carefully based on facts, Chicago coal dealers and perhaps others have since advanced the retail price of coal 60 cents or more a ton. I have a telegram today from Leavenworth, Kan., that the public is being compelled to pay the 14 per cent increase. The income tax returns prove the mine operators get excessive profits. During the recent strike it was shown that miners' wages in the soft coal field were not excessive. But very little or no information whatever was disclosed in regard to the actual profits of the operators, which still are known only to themselves and the bookkeepers.

"Mr. President, all the quotations I have referred to conspire to prove that it is profiteering in manufacturing by the great industrial corporations that has sand-bagged the public, rather than by merchants who deal directly with the consumer. It goes behind the retail price. No doubt there is price gouging by some of the retailers, but it is the price of goods when they leave the factory to which the administration's best attention should be first directed.

Gougers Are Getting Bolder

"These gigantic corporations have become drunk with unconscionable profits extorted from a too compliant public.

"The outstanding fact is that there is nowhere the slightest indication of any change in the strategy of the great trusts, combines and industrial corporations in fattening their profits. A thief has only to steal half as much property these days to commit grand larceny, but it seems a profiteer corporation may take all it can get from the people and then make them pay its war taxes besides.

"Prosecution of 179 profiteers in 18 states already has been started by the Department of Justice since a penalty was added to the Lever Act. In some cases fines and jail sentences have been imposed. Of the victims of governmental harshness one was fined $100 and given a brief stay behind the bars; another was fined $260 and given three months, and the third had a fine of $5,000 and five months in jail administered to him. These three martyrs were hoarders.

"Mr. President, the Department of Justice is to be highly commended for its efforts to stamp out Bolshevism. It took the government secret service just a few weeks to round up and put in prison 4,500 reds. And when it comes to profiteers, the reds are in a pitiful minority. I am glad to see it is now proposed to have the secret service raid the profiteers, the most potent promoters of anarchy we have. If this raid is prosecuted with the vigor and backed up by the imprisonment of profit extortioners it will have a most wholesome and salutary result.

Put the Gougers in Jail

"We deport the reds, and I heartily approve the government's efforts in that direction, but the chief trouble makers, the price gougers, we still let run wild. If we were to put half as many profiteers in jail it seems to me, we should be in far less danger of contracting the red flu of Bolshevism. Our greatest present menace is anarchistic greed here at home. For three years we have permitted greed to do its worst to the devoted people who are the backbone of this nation and who must be an ever-present help in time of trouble. In that time we have made 18,000 brand new millionaires. We now must stop this thing soon or be prepared to take the consequences, not knowing just what those consequences may be.

"We seem to be bartering not only our own peace of mind but all our fine prospects for bettering our condition or serving mankind for this miserable mess of pottage. And probably no other nation ever had so unparalleled an opportunity. I am constantly surprised that so little account is taken of the wrath that is stirring among the people at this continuous and widespread plundering. Washington must soon show it has the nerve to deal with these wreckers or must itself reckon with the people. Our government must prove to them its adequacy to govern, must show worthy of its stewardship, or lose their confidence and respect."

Time For Action Here

"Mr. President, I would not have you understand that I have no faith in the wisdom and intelligence of the people. It is just because I have this trust in them that I say the time has come for Washington to prove its ability to deal with this destructive evil.

"Profiteering, to be sure, is not responsible for all our price inflation, but it plainly is responsible for very much of it, and is so greatly aggravating our strained economic situation that it is becoming the last straw to the people's forbearance. The hard way, the expensive way, the dangerous way to reach our readjustment is to let greed break down business, throw industry out of gear, men out of employment, and bring on hard times while it continues to play its selfish, short-sighted game of starve out and freeze out with the people. The saner way would seem to be to do what is in our power to do, to meet and conquer these dangerous exploiters as an intelligent and forceful people should.

Capper Proposes a Remedy

"I earnestly urge as a remedy to meet this emergency an active prosecution of profiteers, followed by their imprisonment, and a law requiring every manufacturer to attach to every article he produces the exact price he receives for it. I am confident nothing else will so quickly reduce and stabilize prices and restore business and industry to a safe and sane basis. I also urge drastic reduction in government expenditures, prompt enactment by Congress of the measures for strict regulation of the packing industry, and federal supervision of cold storage business. The people can help themselves, too, if they will organize to boycott the profit hogs by refusing to buy goods offered at extortionate prices.

"Unless we make a real effort to control this orgy of greed we shall continue to drift toward the rocks, and no one can foretell what looked for or unlooked for disaster may occur."

Some Luxury

"My dear, as you have been fairly prosperous this year, I think you might give me a few dozen eggs as a Christmas present."

"Can't afford it, darling. You will have to content yourself this year with just a diamond necklace."—Baltimore American.



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Winners in the Poultry Contest

Farm Women Write About Their Experiences in Raising Chickens, Ducks, Geese and Turkeys. Good Care and Proper Feeds Insure Success

By John W. Wilkinson

POULTRY profits during the past year have not been as large as they should have been on account of the high price of feeds, but still many farmers found the raising and marketing of chickens, turkeys, ducks, and geese quite profitable. The state has more than 20 million head of poultry and the value of its market sales of last year's poultry and eggs will amount to not less than 15 million dollars. If we add to this another 10 million dollars for the poultry and eggs used by the producers themselves and make a liberal allowance for the stock on hand it will be readily seen that Kansas is making a creditable showing in poultry production, but the state with little effort could easily double its present production.

Last month the Kansas Farmer and Mail and Breeze offered prizes for the best letters showing the greatest profits from farm poultry flocks. In response to this offer many letters came to the poultry editor from every county in the state. Many letters also were received from poultry raisers in adjoining states. It was no easy task to be sure, to decide who were the successful contestants among such a large number of excellent letters. The first prize amounting to $10 was awarded to Mrs. C. B. Corbin of Hartford, Kan., and the second prize amounting to $5 was awarded to Mrs. W. T. Jacobs, R. 1, Osawatomie, Kan. These letters and some of the others are reproduced on this page for the benefit of our readers.

Success With Geese

Why don't farmers' wives raise geese? They are very easy to raise. almost a gosling hatched is a gosling raised. They require very little except green stuff, shade and water and grow faster, and take on weight quicker than anything else. I had one last summer with a Leghorn hen who gained a pound a week until at 9 weeks of age he weighed 9¼ pounds. His feet had outgrown the butter scales.

Geese don't need expensive houses built for them. A low shed open to the south is all they need, but they should have some kind of shelter in bad weather, as they sometimes have rheumatism.

The Mammoth Toulouse is my favorite. I have very large—standard weight of grown stock. The ganders weigh 18 pounds and the females weigh 15 pounds. There is so much satisfaction in raising purebred stock. They don't eat any more than the small common ones, and they provide more feathers, have more weight and bring in more money, if you sell to the butcher. If you sell them for breeders, one is not ashamed to ask a good price for good stock. Mrs. Tom Curd.

Perry, Kan.

Farm Flock is Profitable

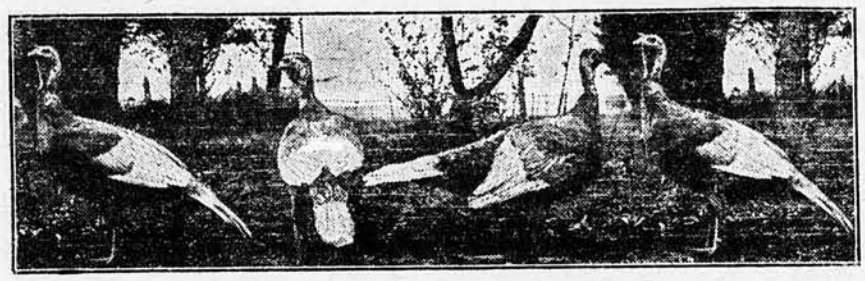
[Second Prize Letter]

Putting a farm flock on a profitable basis is not such a hard task, if you know what you are after and are willing to study the science of poultry raising. At least that has been my experience. As a poultry raiser I expect I have had the "ups" and "downs" of the average farm wife on a rented farm, with most any kind of an old chicken house and no modern conveniences. I hatch, perhaps, 500 chickens, but when the rats, cats and hawks get what they want, I have, perhaps, 200 left. I have had several different breeds in my years of experience, but find the Barron English strain of White Wyandottes gives better results than any of the other breeds. They are a nice size for table use and fill the egg basket the year around, altho they have little care. My flock of 100 hens in 1919 cleared $3 a hen above all expenses, besides the chickens and hens used for home consumption. Boiled oats was their food for the winter months. This year I have a flock of 150 hens and for the month of December they laid 60 dozen eggs, and up to January 26 we had received 100 dozen. Their food has been bran, shorts and meat meal mash for breakfast and oats fed in a straw litter for their dinner and supper. They also have clean water a.d oyster shells. I give them free range in good weather. I am a firm believer in breeding from the same strain and think when you change it is about the same as a crossbreed. I also believe in purebred poultry, and while I am not trying for a fancy strain, I prefer those that produce good healthy laying stock. We farmers get the blame for the high cost of eggs, but I wonder if the city folks ever stop to think that it is the fault of the hen, and not ours. Hens are like labor unions—if they do not get what they wish, they strike and do not go to work until they get their demands, and this strike generally takes place in the fall. To make eggs and keep up the heat of the body, hens must have carbon, hydrogen, oxygen, nitrogen, sulfur, phosphorus and calcium. When these are supplied they will continue their work of filling the egg basket. My purpose is to have a flock of 500 chickens. If there is money in a small flock, why not in a large flock also? The early hatched ones are what count, as the broilers and fryers bring a larger price and the pullets are well matured by early fall and ready to start laying. So my incubator goes on the job the first week in February.

I think if we all study the culling of our flocks as most farm papers advise in regard to egg laying, we will get just as many eggs and have less expense and not keep so many loafers.

Mrs. W. T. Jacobs.

R. 1, Osawatomie, Kan.



Good Returns from Turkeys

In the spring of 1919 I had 17 pure blood Bourbon Red turkey hens and a vigorous 2-year-old tom, and I decided I would sell the eggs at a fancy price rather than try to raise poults from so many hens; for I knew if I had my average luck, there would not be room for them and my chickens on the same farm. So I advertised the eggs for hatching at $5 a dozen and received many orders and inquiries. I sold all the first and second layings and part of the third, setting the rest and raising nine young toms and eight hens. I did not let the turkey hens sit until after their third laying, in order to keep an accurate record of when each hen finished laying and went to sitting. With the first sitting I tied one string on her right leg and with the second, a string on her left leg. Then when a hen with a string on each leg went to sitting, I knew her last laying was completed, and when I had eggs, I would set her and as many others as had completed the third laying. I put them in the orchard and fed them rolled oats for the first month and after that a very little wheat and cottage cheese and rolled oats combined, until they could roam about for their own living. I always put several hens with their poults together, and the crows, their worst enemy, never bother them. To prevent lice I dip the sitting hens in a solution of 1 tablespoon sodium fluorid. Bowel trouble in poults is caused by over feeding. I never feed young turkeys of any age corn chops as it only invites blackhead and often kills the nearly grown turkeys. My 17 hens averaged $17.50 each for eggs alone, and I raised the 17 young ones to maturity. There would have been more, had not the hogs eaten eight or 10 which were half grown. Stray cats killed some of the small ones. But I think I have done well; and I advise anyone wishing for pleasure and profit to raise a few turkeys.

Oswego, Kan. Vivian Anderson.

My Experience With Ducks

Duck raising is very pleasant and profitable and not at all difficult when one knows how. I learned in the bitter school of experience, and now I have very fair success. I find it best, in breeding stock, for the parents to be unrelated. To get a quick start, buy one drake and four 2-year-old ducks. One year old ducks will lay and the eggs will hatch, but the ducklings will be weak and many of them will die. Ducks begin laying in February, seldom taking the trouble to make a nest, but laying wherever they happen to be. As they usually lay early in the morning, one can get nearly all the eggs by keeping them in until about 10 o'clock. It takes the eggs 28 days to hatch and the ducklings should not be taken from the nest until they are 48 hours old. Then put them in a dry coop with their mother and feed them cornbread slightly moistened with sweet milk and mixed with some finely chopped green stuff. Feed this for the first week, and if the weather is dry let them run in the yard. They must not get wet until they are fully feathered, but they should have plenty of drinking water in vessels deep enough to get their heads under water. Nothing suits a little duck better than paddling in the mud, and if it gets its nostrils filled and has no water deep enough to wash it out, it dies of suffocation.

Ducks must have sand or charcoal and plenty of green vegetables. If one has no green crop growing in winter, beets or turnips or small finely chopped potatoes may be fed. Ducks like corn, tho this should be fed sparingly. It is much better to have the grain ground or crushed and made into a mash. One part corn, 1 part oats and 2 parts green vegetables or alfalfa meal made into a mash is an excellent ration for ducks of all ages. Ducks must have dry sleeping quarters to prevent rheumatism. The bedding should be at least 6 inches deep and should be renewed every other day. When a duck has rheumatism she flutters along on the ground and cannot walk upright. Sometimes ducks recover without treatment, but it is well to mix a few drops of turpentine in the feed and rub the legs with a mixture of turpentine and sweet oil. Keep them from the water at such times and feed them almost entirely on vegetables. They seldom have rheumatism if they are kept out of swimming water, and permitted to run out in the yard and gather their own feed in warm and dry weather. Duck raising on the farm is very profitable for feathers, eggs and for the market. Mrs. S. E. Bandy.

Jacksonville, Ark.



Good Profits from Poultry

[First Prize Letter]

The first of last year I began poultry raising with 52 hens and three full blooded Barred Rocks. During January I sold 30 dozen eggs at 50 cents a dozen for $15. In February 45 dozen eggs at 45 cents a dozen brought $20.25. In March I sold 30 dozen eggs at 30 cents a dozen and set 25 dozen in an incubator, receiving $9 for eggs sold and $7.50 for those set. In April 40 dozen eggs at 20 cents a dozen brought $8, and 12 dozen eggs set brought $2.40. In May I sold 30 dozen eggs at 20 cents a dozen for $6 and set 24 dozen for $4.80. Twenty dozen eggs, sold in June at 24 cents a dozen, brought $4.80 and 24 dozen set in that month brought $5.76. The 15 dozen eggs sold in July at 30 cents a dozen brought $4.50 and the 15 dozen set in that month brought $4.50. For August the record is 10 dozen eggs sold at 30 cents a dozen for $3, and in September it is 12 dozen sold at 34 cents a dozen for $4.08. Five dozen eggs sold in October at 40 cents a dozen amounted to $2 and for November six dozen eggs at 50 cents a dozen brought $3. In December I sold three dozen eggs at 58 cents a dozen for $1.74.

On January 3 I had 42 hens left. I had set 100 eggs and hatched 920 chicks, of which I sold 250, sent some to Colorado, some to Western Kansas, and some to Missouri. For these 24-hour-old chicks I received 15 cents each. I sold 200 broilers 10 weeks old at $8.50 a dozen. I lost 170 chickens by hawks and rats and we used 125 in the family. I sold 100 late 3-months-old chickens at $5 a dozen. I have on hand 75 grown pullets averaging 5½ pounds each, for which I can get 27 cents a pound today in Emporia, Kan., and five roosters for which I can get $1.50 a head.

The feed I have used consists of 25 bushels of corn, 10 bushels of wheat, 2 sacks of bran, 10 bushels of kafir, green alfalfa in summer, dry alfalfa in winter, 300 pounds of oyster shells and plenty of milk. The chickens have the run of 40 acres of land and the cow and hog feed lots. The summer and spring were ideal for raising chickens. My advice to beginners is to start carefully. I seldom set hens, using two good hot water 150-egg incubators and keeping my hens laying, so I won't lose my broilers and baby chicks, which I think have brought me the greatest returns for my work. I rush my chickens from the time they are 2 days old till they are 10 weeks old and then sell them for broilers at 5 to 7 cents a pound. I give them plenty of pure water and keep the roosts clean and free from mites and lice. They have plenty of charcoal and oyster shells and plenty of shade. By selling the chicks when they are 8 or 10 weeks old I get them off my hands and lessen feed expenses. I feel that I did fine this year, as I sold a few chickens at $10 a dozen.

The cost of feed for the year was $101 and my losses of baby chicks and eggs amounted to $33.90. From the sale of chickens and eggs I made $327.37. Counting $77 for eggs and chickens used in the home and $111 for pullets and roosters on hand for next year, I made $515.37. Subtracting the loss of $33.90, the net gain for the year is $380.47. Mrs. C. B. Corbin.

R. 1, Hartford, Kan.

No sentence passed upon the kaiser should be permitted to interfere with his writing of memoirs for the warning of understudies.—Boston Herald.



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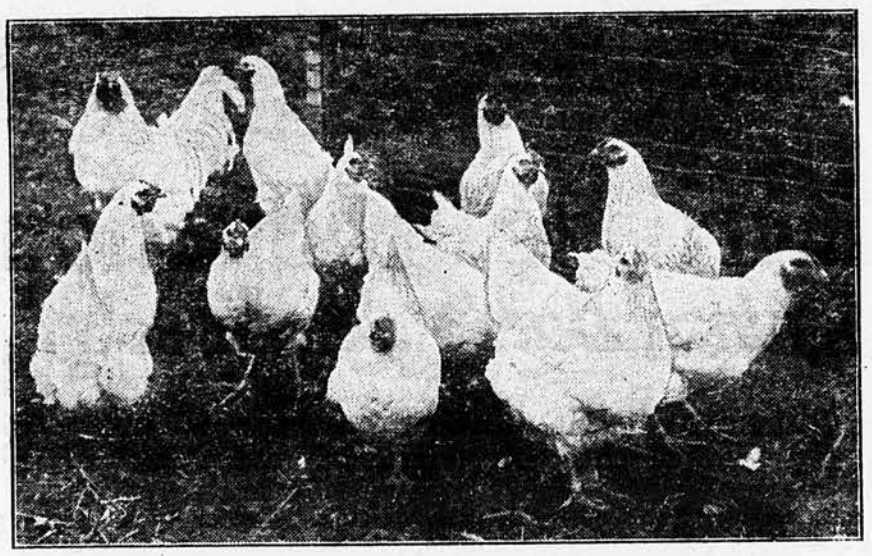
By W. A. Lippincott

DIFFERENCES in egg production, differences in comb and color, are inherited. Some breeds average a much higher egg production year in and year out, than others. Within breeds and even within varieties some families or strains lay very much better than other families or strains. This does not mean that every individual in a high laying family is a record breaker, but it does mean that if all the individuals in it are trapnested and their yearly production averaged, that average will be considerably higher than a similar one from a low producing strain.

Since eggs are the product of the female only, there is no direct means of judging a male's value from the viewpoint of his influence on egg production tho experimental work seems to have shown quite conclusively that the male is fully as important as the female in breeding for egg production, perhaps even more so. He must be judged first by the egg records of his mother, grandmothers, great-grandmothers and second and far more important by the records of his daughters. The progeny test is by all means the most efficient test that can be applied to any breeding animal. It is not so simple in the case of chickens however, for a male's best breeding year is usually his first and his breeding powers diminish rather rapidly thereafter. If males are to be judged by the yearly records of their daughters this information from the nature of the case cannot be available before his third breeding season by which time much of his breeding usefulness will have passed.

As a usual thing therefore male breeders must be chosen on the basis of their ancestors' egg records and upon vigor. These two should always go together, splendid ancestral egg production and great vigor. The best ancestry conceivable with regard to egg production is almost valueless unless the individual has received along with the ability to beget good production the ability to beget good constitutions.

Egg production like all reproduction in the higher animals is a heavy physical strain. The greater the production the greater the strain. It is hopeless to try to found a great laying family unless one endeavors at the same time to establish a strong and vigorous one. It depends somewhat upon the object in view as to the method to be used in breeding a high laying strain. If the object is simply more eggs for market the method is fairly simple. If it is breeding stock the method is more tedious and complicated.



Ten Hens From This Pen of Wyandottes Laid 2,047 Eggs in One Year. Good Health and Vigor Helped Them to Do It With Ease.

In the first case it has recently been found from experimental work at the Kansas Agricultural Experiment station, soon to be published, that the egg production of even a mongrel flock may be very greatly increased, more than doubled, by simply using males from a long line of high producing female ancestors each succeeding year for three years. The same experiments also show that unless the male does come from a high producing ancestry reaching back thru several generations, not merely one or two, this method may end in dismal failure. By means of this method the trapnesting of the females is not necessary. The improvement may be accurately judged by the increased egg production of the whole flock.

It is not an independent method, for the breeder must depend upon other breeders who do use trapnests for his supply of cockerels. It is the easiest way to get quickly into a good production. It is the farmer's method, for he nor his family have the time to trapnest, keep breeding records and pedigree hatch the chicks. He is interested in a good egg production however, and by this means he can get it.

The person who wishes to sell breeding stock that the farmers may use has very much more to do. He must trapnest his hens so that he may know with certainty the yearly production of every female he may wish to use in his breeding pens. To have had a mother which laid a great number of eggs is a great asset to a cockerel from the standpoint of his value as a breeder and a seller. To have had a paternal grandmother of great producing capacity as proved by her actual egg record is an equal asset, provided of course that the cockerel is sound.

If one wishes to sell breeding stock therefore, he must legband and trapnest his hens which is no small chore, tying one down the year round, more completely even than does milking. The trapnested eggs each marked with the number of the hen laying it must be pedigree hatched by means of wire baskets or home made padigree sacks. Then each chick must be legbanded or better wingbanded, and its number recorded with the numbers of its father and mother. When it is grown it must be fitted out with a numbered adult legband which must also be recorded. There is really more work about the pedigreeing of a chicken than there is about pedigreeing a cow or a sheep.

Founding high producing families of chickens is new business compared with developing families of dairy cattle with many members in the advanced registry or of market topping families of lard hogs. As far as the facts are known however, the road to success is thru selection of great-laying vigorous females to mate with males who are the descendants of such females reaching back many generations.

The trapnesting, the recording and the pedigreeing all take time, patience, and pains which are essential for success. The farmer who wishes to develop a laying family by the first and easy method will of course be willing to pay the record-keeping breeder a reasonable price for cockerels. Five dollars ought to be the lowest limit. The registration fee on purebred members of the larger fees of livestock may be as much or more than this yet a breeder who pedigrees his flock has actually done more work in keeping his records than the livestock man.

Feeding for the Egg Production

Hens Should Have Properly Balanced Rations, Good Care and Comfortable Quarters in Order to Make the Poultry Profits Larger

By H. A. Bittenbender

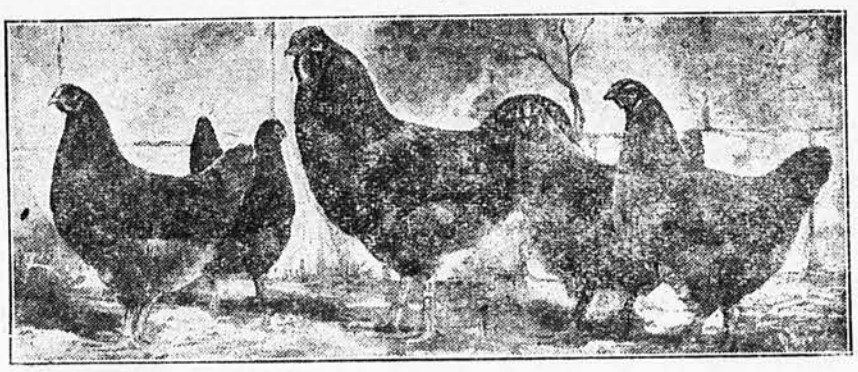
THAT feeding should be uppermost in the minds of most poultrymen at present is, perhaps, due to the following things: First the high price of eggs, second the small number of eggs produced, third the fact that fowls cannot hustle feed for themselves so are subject to deficiency diseases, fourth that upon the farm this is one of the less busy seasons when poultry is more likely to get attention.

With the flock properly culled of "loafers" and "drones," the question of food for body maintenance and excess as raw material for the egg factory becomes all important. Farm flocks paying a handsome profit are no longer stories of happenings in other states, but there is usually a living example in every neighborhood.

From the farm papers, government bulletins, the agricultural colleges and actual farm experience comes the information that certain feeds are better than others, that a scratch grain should be supplemented with a mash, that milk, meatscrap or high grade tankage is of first importance if many eggs are gathered, that oyster shell or lime is needed for egg shells, and that birds to lay heavily must have plenty of water to drink if milk is not supplied. However, a few years ago to speak of a balanced ration was to mention something little understood now is common knowledge and known to mean a scratch grain fed in a deep litter in which one uses a variety of the common grains and a mash of mill feeds such as bran, shorts and cornmeal, supplemented with meatscrap or high grade tankage, and that less of the meatscrap or tankage is fed if milk is available.

Most people understand that an egg contains a large percentage of water so if many eggs are to be manufactured necessarily the hen must have a goodly supply of milk or water. It is very generally known that protein so greatly needed for egg making and usually lacking, is best supplied by milk, meatscrap, tankage or oil meal. If in addition lime is supplied for egg shell one doesn't need to worry about the other things that go to make an egg for these are usually supplied in abundance, provided the hen has a liberal supply of feed.

The custom of not feeding the hens when they are not laying or when they are molting is a bad one. In order to prepare for heavy laying the hen must have the food to maintain her body in good condition and get ready for the drain upon her system which follows. Probably second only to a sufficient quantity of properly balanced feed is the free use of protective feeds that keep the birds in good health and laying condition. That this precaution is necessary has been demonstrated in practically all flocks, altho the conditions and the correction for them may not have been fully understood at the time. For example poultrymen have long known the beneficial results of feeding milk, but that it was due to any specific substances has been discovered only recently. These substances which the chemist has designated as vitamines, water soluble B, fat soluble A, and the antiscorbutic vitamine have been located in certain definite foods, which have been named the protective foods.



A Pen of Rhode Island Reds of a Kind That Can Produce Results and Make Your Work With the Chickens More Interesting.

Of these, milk, eggs, alfalfa, lettuce, cabbage and all thin leafy vegetables are perhaps the most important from the standpoint of poultry feeding. In many cases where there is a lack of these protective foods the chickens quickly get some of the common diseases because of lowered vitality.

One effect of the lack of these substances is that the eye of the bird may be entirely shut. If the food conditions are not corrected the bird goes entirely blind and quickly dies. In many cases the weakened condition of the eye gives the roup organism an excellent chance and a bad case of roup soon results. An entirely different symptom is often shown when there is a paralysis of the muscles. The bird comes down on its shanks, is unable to stand and furthermore the digestive system is so paralyzed that the bird can handle food only with dif-

ficulty. This condition is usually accompanied with a loss of weight. Still another form is a soreness of the joints and difficulty in walking. This in a number of cases little understood, has been diagnosed as rheumatism. The bird soon dies, however, unless there is a change made in the diet.

I have known whole flocks to be seriously affected by the lack of these protective foods and to have been cured by a change in the feeding system. Fortunately, in many cases the flock has the range of the farm for most of the year, in which case the loss from deficiency diseases is confined to only a few of the less vigorous birds. However, the loss in number of eggs does not show up as readily and frequently the owner does not know that he is robbing himself. And not only this but many of the eggs produced that go into the incubator or under hens have not the hatchability that they should have, hence are wasted and chicks that do hatch start life without the much needed vitality for vigorous growth.

With these considerations in mind the following ration is suggested. Scratch grain, fed in a deep litter, 1 quart to 20 hens in the morning, and as much as they will clean up at night, composed of the following:

Corn 50 pounds, wheat 25 pounds, heavy oats 25 pounds.

Also feed a dry mash available in a box or hopper at all times composed of the following: Bran 20 pounds, shorts 20 pounds, cornmeal 20 pounds or siftings from corn chop, ground oats 20 pounds, meat scrap 20 pounds.

In addition to these also feed a nice green alfalfa hay, cabbage, plenty of sour milk or buttermilk, oyster shell and a supply of water that is renewed frequently in freezing weather, in case the supply of milk is short.

The Brooding Yard

BY P. F. TOWNSLEY

On many farms the chicks are brooded year after year on the same piece of ground. This is a dangerous practice and sooner or later it's likely to lead to disaster. Soil gradually becomes contaminated from the droppings from the birds and acts as a poison to the chicks. Very often gapes and intestinal parasites get a foot-hold and cause heavy chick losses. Nothing is more conducive to quick growth and good health in chicks than to keep them on soil that has not recently been used for poultry. The brooding yard should be moved to fresh grounds each year.

If a brooder house is used it should be movable. Some arrangements should be made so that the chicks can be brooded away from the laying flock. If the brood coops can be located some distance from the poultry house the mature hens are not likely to bother the chick range enough to cause particular trouble. A lawn or other sod where the grass is kept short makes an ideal brooding surface for baby chicks. Probably the most satisfactory method of handling a flock of chicks produced with hens is to keep the mother hen confined in a coop large enough to allow her exercise and give the chicks free range of the space surrounding the coop. Where several brood coops are used they should be set not less than 10 feet apart and be moved frequently to prevent contamination of the soil in the immediate vicinity of the coops. If the chicks must be confined to a limited space in brooding, the soil should be plowed or spaded-up every few days and be sown to oats or other quick growing crops in order to keep the range sanitary.

In brooding chicks with artificial heat a small yard is necessary until the chicks have learned to return to the brooder after which they should be given free range. Many successful poultry keepers use a movable fence of 18-inch poultry netting to keep the chicks near the brooder house during the first two or three weeks of the brooding period. The space inclosed by this fence is gradually enlarged until the chicks are large enough to fly over the wire after which they can be given free range.

"I think I will try to get over to Europe and settle down in Venice."

"Why Venice?"

"Because it is the only place I know of where you don't have to keep dodging automobiles in the streets."—Baltimore American.

"I made one mistake—But this time I think I picked a winner"

(From a letter to the Western Electric Company)

"If I was a mechanic instead of a farmer, I would have bought a Western Electric Outfit in the first place, and not waited till I was several hundred dollars poorer and wiser in the bargain. I am not going to say anything against other plants, because I know that isn't the way you work. I can't even tell the whole truth about your own outfit for fear that people might think you paid me to boost it. You don't have to. F. W. Levis

EDITOR'S NOTE: Mr. Levis is a farmer near West Chester, Pa.

When it comes to electricity I give up

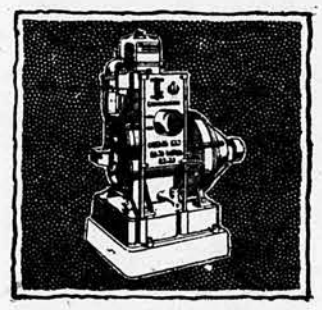
"I believe the wiser a man is, the quicker he will admit how little he knows about electricity. We can see and touch mechanical things, but when somebody gets talking about electricity, he can tell us pretty near what he pleases, and we can't dispute it.

"Take batteries for instance—the most important part of any light plant. We farmers, and even the wiser ones, talk about current flowing into a battery and out of it. But how many people go beyond that? Now look at it this way. If you shoot a stream of water into a bucket fast enough, most of the water will splash out as fast as it splashes in. And if the bucket is an average wooden one, it won't be long before the bottom pushes out. To you men whose batteries are giving trouble, and you who haven't bought yet, I'd suggest first of all that you consider how the battery is charged by the generator. If the current comes in fast at first and then slows up gradually when the battery fills—as with the Western Electric—that means you'll have long-lived batteries. Otherwise you're 'out of luck,' as my son says since he came back from France.

Power and light, or light and power—which?

"When I started to buy a plant, I was dead wrong about the lighting end of it. I had a lot of gentle hints at home and heard talk around the neighborhood about how nice electric light is—and it is nice. But what I needed, and what I think nine farmers out of ten need, was a piece of machinery, first and last—an engine to help me do the farm work. Because if I had power enough, light would go with it as a matter of course.

"It took me quite a while to wake up to the fact that it would be an economy to pay a little more for a large outfit that supplied plenty of power, as well as light; rather than to buy a slightly cheaper and much smaller plant that would furnish light only. Right here's the important thing, and the farmer who buys an undersized plant is fooling himself just as I came near doing, because on a farm, power is about the only thing you need except brains, and the only thing that costs nothing when you don't use it.



What I insisted on was an engine that would *run*

"Of course getting plenty of engine is one thing and whether the engine will run is another. You don't want to buy till you've seen the engine in action, any more than I did. Now I don't know what your experience has been, but mine tells me that for genuine dependability you can't beat a valve in head, 4-cycle kerosene engine—that starts just by pressing a switch and runs in all kinds of weather. These are only some of the points about my new Western Electric Outfit. There are lots others I could talk about for pages yet—like that feature of the throttle governor to give uniform speed under any load you please, and the splash system of oiling that's as certain as it's easy. But I figure you'd rather find out about these points for yourself than read my remarks.

"Please don't get the idea I am trying to convince you that there are no good farm plants except the Western Electric. There probably are. But if you can tell me one that's any better, or made by people who are fairer to a buyer or who have been in the electrical business more than 50 years—I'd like to congratulate you, because you are some little finder."

Maybe some of the information that helped Mr. Levis decide will help you too in choosing a Power and Light outfit. Just write for booklet MB-1, Western Electric Company, at Kansas City or Denver.

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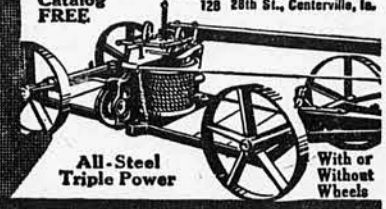
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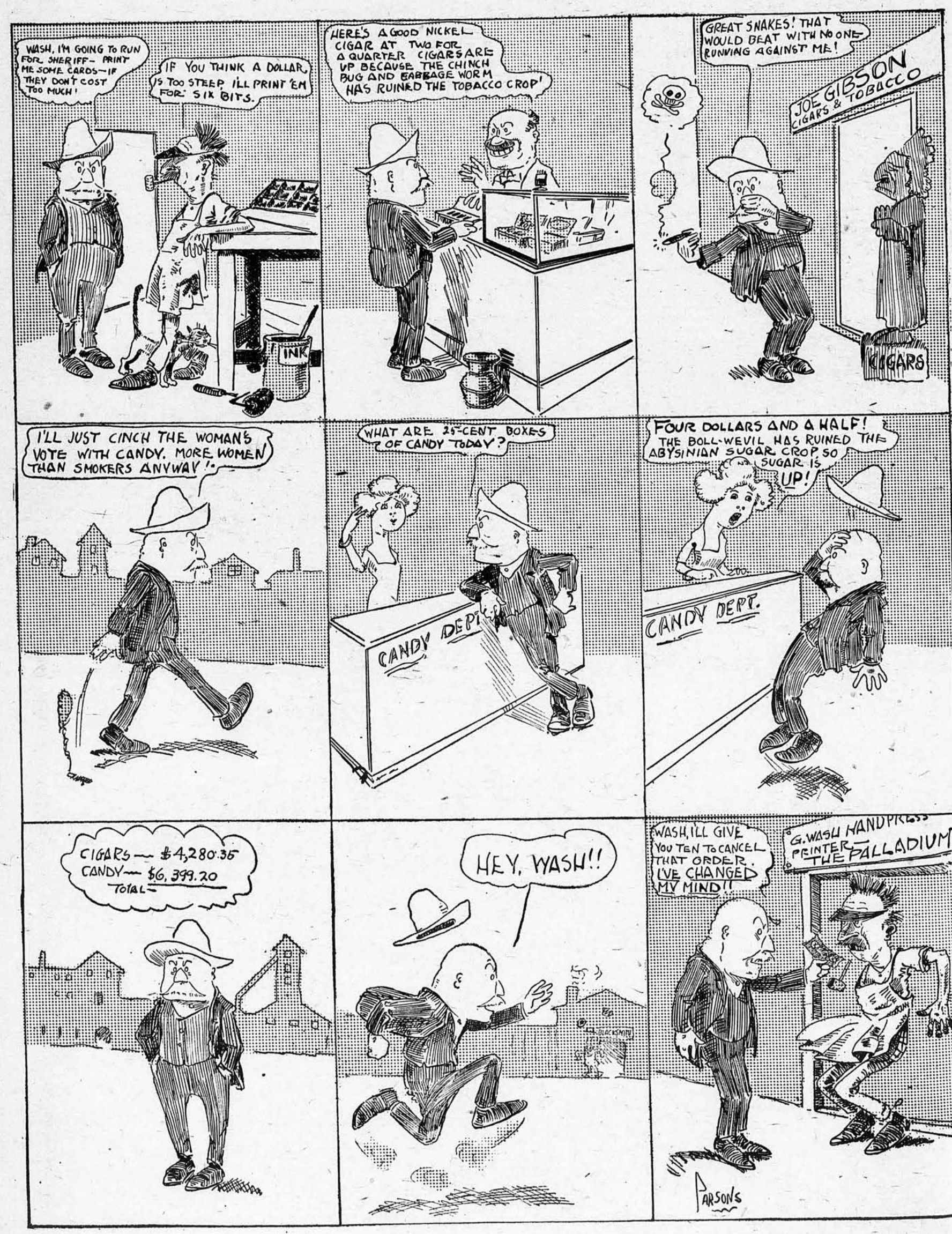


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Senator Capper's Washington Comment

THE Capper-Hersman bill to amend the Clayton Act, authorizing collective bargaining in farm products (Senate Bill No. 845), has just been given an exhaustive hearing before the Senate Committee on Judiciary. Representatives of more than a thousand farmer organizations —national, state and local— appeared before the Senate committee. Former Governor Deneen of Illinois and T. C. Atkeson, Washington representative of the National Grange, John D. Miller of the National Board of Farm Organizations League, B. C. Marsh of the Farmers' National Council, myself and others made speeches in support of the proposed legislation. Organized agriculture from one end of the country to the other is backing the measure enthusiastically.

It was first pointed out that my bill does not change the policy of the government as already declared by Congress. It only makes that policy more definite and certain. It merely gives specific, affirmative authority for cooperative efforts by farmers. This policy was not only announced in the original Clayton Act, but was reaffirmed in the Special Appropriations Bill of March 5, 1915, the Sundry Civil Appropriation Bill of July 19, 1919, and the Deficiency Appropriation Bill of October 21, 1919.

Collective Bargaining

Many of the states have declared a like policy. A complete illustration may be found in the laws of New York. The executive committee of the dairymen's league was indicted under the state anti-trust laws prohibiting combinations in restraint of trade. The organized farmers of that state requested the legislature to enact an amendment clearly permitting such collective sales. Without hesitation the legislature passed such laws and they received executive approval. The district attorney immediately dismissed the prosecution against the dairymen.

At the same session a law was enacted authorizing the creation of associations with express power to make such collective sales. This law in its general provisions follows the form of an act recommended for state enactment by the Office of Markets and Rural Organization of the National Department of Agriculture. Similar laws have been enacted in California, Colorado, Florida and New Mexico.

While it is thus shown that the state and federal policy is to permit such selective sales, unfortunately the Congressional intent, so apparent in Section 6 of the Clayton Act, is so obscurely expressed that the question of what farm organizations may lawfully do is left uncertain and the purpose of my bill is to make clear and certain that which at present is somewhat obscure and uncertain.

Clayton Act Not Clear

Section 6 of the Clayton Act excepts only farm organizations "not having capital stock." In many states there is no law authorizing the creation of such associations without capital stock, making it impossible for the farmers of such states to bring their organization within the class mentioned. Another provision of Section 6 reads: "Or to forbid or restrain individual members of such organizations from lawfully carrying out the legitimate objects thereof." It in no way defines or makes clear what are or may be the "legitimate objects" of such associations and lawyers differ in opinion as to the legal status of farm organizations under this section. Able lawyers argue that the "legitimate objects" of such associations cannot be such as are prohibited by the enacting clauses of the Sherman and Clayton Acts.

In Illinois the federal district attorney devoted much time to an investigation of the milk producers' association that operates in the territory tributary to Chicago. The investigation attempted to lay the ground for an indictment charging acts in violation of the federal anti-trust laws, but failed to establish a case. A number of dairymen in Ohio were dragged out of their farm homes after midnight by United States marshals, hurried off to Cleveland, kept in jail until they could send for bondsmen, and compelled to stand the expense of a trial, tho the government had no case against them.

Uncertain Provisions Hamper Farmers

Many producers' associations do business in more than one state, and, therefore, come within the scope and are subject to the provisions of federal laws.

The uncertainties of the situation are preventing farmers from successfully co-operating. They desire to proceed but hesitate because of such uncertainties. This is not from timidity but from a wholesome respect for law. Congress should make the farmers' right thus to bargain collectively so plain that there can be no mistaking the intent of Congress.

Farmers Ask Fair Dealing

Nearly all the national farm organizations, and many state and local agricultural bodies have endorsed the Capper-Hersman Bill and are urging its immediate passage.

These farm organizations are not asking for "class" legislation. They do not wish any special favors from Congress, but they have a right to insist that the law which is now indefinite and uncertain should be made clear and unmistakable. The Capper-Hersman Bill only organizes farmers upon the same plane in regard to their legal rights as organized labor. By Section 20 of the Clayton Act, laborers are clearly permitted to make collective sales of their labor.

Individually farmers are powerless to cope with the great organizations with which they deal. They must either bargain collectively, or not bargain at all. They must either have the right to bargain collectively or they must accept the prices offered them individually by the middlemen engaged in the various activities connected with distribution. These middlemen, while comparatively few in number, by reason of their affiliated and interlocking interests, their superb organizations, their ability to command the services of the best brains of the country, and their far-flung financial connections, exercise an influence greater than is warranted by their number, by their investments, or by the character of the services they perform.

Hard Luck of Dairymen

Organized farmers with the undoubted right to bargain collectively would still be at a disadvantage in dealing with these powerful organizations of middlemen. But the right and the clear right to bargain collectively, should be given them, else they cannot operate successfully, and cannot survive.

This right is vital to all farm organizations. At present conditions seem most serious with the organized dairymen. Those dairymen selling fluid milk for city consumption of necessity must sell upon credit, contract in advance and make daily deliveries. Before the dairymen organized, dealers dictated prices. The evidence taken by the Federal Milk Commission for the Chicago district shows the method of the dealers of that city in fixing prices was to ascertain if dairy farmers were apparently prosperous and to fix prices at the lowest figure possible that would not cause open revolt.

In the New York district the evidence taken by the Wicks legislative committee shows that the method there adopted was first to fix a price to consumers, subtract therefrom the dealers' costs and profits and give the farmer what was left. In all cases, costs of production and the law of supply and demand were absolutely ignored. At present the dealers of the entire country are receiving more for distributing milk than are the farmers who produce it.

In Chicago the farmers received for the month of May, 1919, 5.2 cents a quart, while consumers paid 14 cents. In New York farmers received 6.1 cents a quart while consumers paid 15 cents a quart. Losses of farmers from selling to insolvent dealers are frequent.

Organized dairymen with liberty of action under the law can protect themselves from such losses in large measure, thus reducing the cost of, and encouraging production.

Collective Bargaining Only Remedy

What is true of the dairymen is true of other classes of farmers in greater or less degree. Co-operation and collective bargaining offer the farmer his only protection against the extortions of the middlemen. By the development of co-operative selling agencies the farmer may obtain a better price for his product without the consumer having to pay more. It is obvious that in taking a greater toll for distributing agricultural products than the farmer receives for producing them and delivering them to the primary market, the middleman is exacting an improper profit, and while the consumer is being overcharged the farmer is being underpaid for the work of production. The only possible solution is to be found in the direction of bringing producer and consumer closer together and co-operative selling organizations form a logical step in that direction.

If the Capper-Hersman Bill amending the Clayton Act becomes a law, the farmers of the country will unquestionably possess the right to cooperate and bargain collectively. It will be a long step in advance. I think the chances are good for early passage of the bill.

Arthur Capper

Washington, D. C.

Restaurant Humor

"Waiter," asked the impatient customer, "do you call this an oyster stew?"

"Yessuh," replied Mr. Erastus Pinkley.

"Why, the oyster in this stew isn't big enough to flavor it."

"He wasn't put in to flavor it, suh. He is jes' supposed to christen it."



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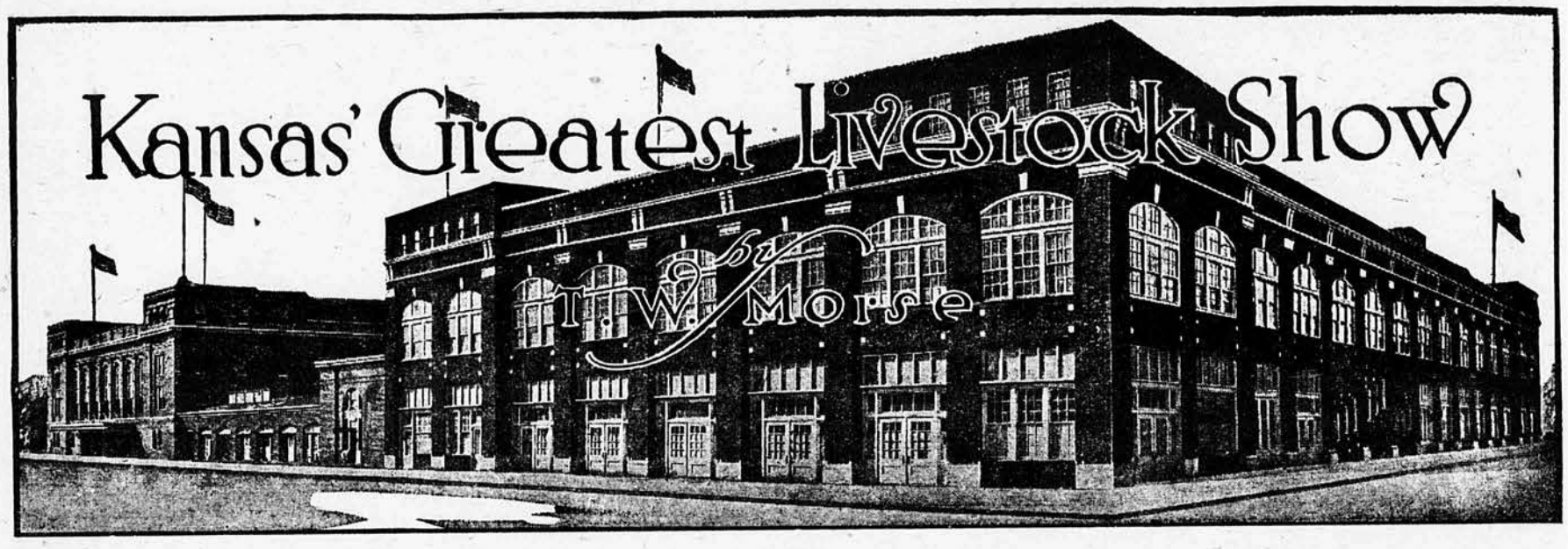
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IS the Kansas National Livestock Exposition fulfilling its avowed mission of doing more to put pure-bred livestock on the farms than have any other of the similar institutions?

Last week, at Wichita, Kan., was witnessed its fourth annual and distinctly most successful effort in this direction. Last week the management and co-operators of the "Kansas National" brought together at the exact geographical center of the Trans-Mississippi Plains region, the greatest natural livestock producing territory in the world, the biggest, and most representative exhibition of purebred farm animals ever made in the state of Kansas.

How fortunate it is that such an exhibition could be made at this particular time and place may be gathered from the following: Wichita is the gateway into a great area now more notably short of breeding livestock than at any time in the last quarter of a century, and the fact that this condition prevails is just now becoming fully realized.

Relief for Livestock Shortage

It is little wonder, therefore, that the attendance of farmers and small breeders all in the market for more and better breeding animals, was four times that usually seen at the American Royal Livestock Show. For instance their interest was evinced in the close and impartial attention bestowed on exhibits of a dozen of the most practical breeds of cattle, hogs, sheep, horses and jacks. And in the exhibits themselves was found one of the best evidences of the success with which this particular institution is helping to put the purebred business absolutely in touch with the "grass roots." No Kansas fair or stock show ever brought out so many Kansas owned exhibits, and in no fair or stock show reaching so high a standard, do I recall seeing so large a proportion of new and comparatively new exhibitors. Professionalism was almost entirely absent from the show rings, yet in every breed, Holsteins, Shorthorns, Herefords, Polands, Durocs, Angus, Percherons, Belgians, Jack Stock and three breeds of sheep, there were some of the best things seen during the show season of 1919-20. Championships were won largely by animals that had been champions in previous national shows, while representing another phase of the business (and none the less instructive) were dozens of other animals shown by "first timers" which had no fitting at all and as a rule, were not even in the money.

Record Number of Exhibits

Of the dozen breeds represented there were 125 separate exhibits, not counting a number of consignments to the sales by men who did not take part in the show. In the great fire proof exposition building occupying a city block, and part of it providing two floors for exhibits every foot of stable room was used. The central part of the building will have to be built up another story before the next show is held, and in addition to more stabling room, another exhibition ring doubtless will be provided. It was almost the constant condition during the six days of the show, that ring space was taxed to its capacity. In the main arena usually there were two or three breeds being shown and one being sold at the same time, while the auditorium on the second floor was in almost constant use for the smaller sales and meetings. In this auditorium was held, on Tuesday, the greatest public sale of registered sheep which Kansas, Oklahoma, or Texas has seen. And on this second floor, the sides of which are nearly all glass and afford the best of light and ventilation, was housed the biggest and strangest show of Holstein-Friesian cattle ever seen southwest of the national dairy shows. Only one other section of the show exceeded the Holstein show in number of exhibitors. It is noteworthy also that the exhibit of jack stock at Wichita (reflecting, no doubt, the record demand and prices for mules) was the strongest show of its kind this year unless Tennessee or Kentucky had something on it. Neither the Missouri, Iowa, Nebraska, Kansas, Oklahoma nor Texas state fairs brought out as good showing of jacks.

Best Holstein and Jack Shows

In the surpassing strength of the two sections of the show just mentioned is proof of the soundness of Manager Kirk's plan for official co-operation on the part of the state breed and national record associations. In the matter of making an exhibition, Holsteins and jacks had to "come from behind," yet such was the active co-operation of Secretary Neale and Sales Manager Mott of the Holstein-Friesian Association of Kansas and of Secretary W. E. Morton of the Standard Jack Record, that they put their sections of the show flush with the front rankers of many seasons.

Manager Kirk's plan for active participation by the state breed associations of Kansas, while it is making a good showing, is not being operated to 50 per cent of capacity. Secretary George of the state's Hereford association, was not present at all, due to his appointment as Governor Allen's private secretary, at a time when a move "back to the mines" seemed imminent. The Kansas Hereford breeders should take strong action for adequate recognition by their record association. Kansas has about three times the Hereford breeders that Colorado has and supplies 14 per cent of the association's income as against 5 per cent from Colorado, yet the recent Denver show got $3,800 of association money while the Kansas National got only $1,000. To "a man up a tree" it looks as tho the Kansas National could give a more important service to Hereford cattle than to any other breed, if equal funds and encouragement were available. The Hereford association puts up several times as much premium money for the American Royal as for the Kansas National yet indications are that no better place than the Kansas National will be found for making converts to, or developing business for, the breed. Kansas associations for all breeds will do well to study the opportunities afforded them for managing and pushing the shows and sales in which they are most interested.

A Banquet Every Evening

One feature of the "get together" efforts of the week was a supper by courtesy called a banquet each evening, which served as a gathering place for the visitors to, and participants in, the shows and sales of the respective breeds, as they took place. Each supper gave a better opportunity for acquaintance making and for meetings of the state associations interested. At the meeting following the Shorthorn cattle sale, results were announced of a campaign which has put nearly 400 Kansas Shorthorn cattle breeders on the membership rolls. First, second and third prizes were won by Allen, Montgomery and Osage counties, respectively. Allen county, with 36 members, won a silver cup given by Manager Kirk for the management of the "Kansas National." The second prize was 25 volumes of the Kansas Shorthorn history given by Park Salter. Mr. Salter, as president of the Kansas Shorthorn Breeders' association, had worked unceasingly for a good treatment of Shorthorn breeders, and it was largely due to such co-operation as his and that of officers of the Holstein association, that the shows of their breeds were the largest and the suppers for those interested in their breeds, the most largely attended of all. There were 28 exhibitors of Shorthorn cattle, and about the same number exhibited Holsteins, and the animals consigned to their sales brought the highest average prices for the week.

It would not do to close this general mention of the show without telling those who have not yet attended that the grand arena of the Forum where these shows are held is one of the largest, best lighted and most satisfactory amphitheater-seated rings in America for seeing a stock show.

Sales Clinch Other Good Work

But the big business feature, the real "put-'em-on-the-farm" feature of the Kansas National, was the series of public sales. During the week a dozen of these sales were held. Thru the dozen sales about 800 registered breeding animals were sold, largely to the new men actually needing them on their land. The receipts from the dozen sales totaled well up toward a quarter of a million dollars. While a few fairly high prices were paid, nearly everything was sold at prices within the reach of nearly every buyer. There were many good bargains, and not in five years have I seen an equal number of sales from which so few intending purchasers went away empty handed. The "Purple-Ribbon" sections of several sales were unique, and were distinctly successful in making prize winning blood more available to beginners than it has been in Kansas for a decade. From the sheep sale on Tuesday at which an average of $110 a head was made until the Percheron sale Saturday, involving one of the year's largest offerings, always crowds of intending buyers were studying the occupants of the stalls and pens. In one of the "Purple Ribbon" sections a young breeder making his first consignment to a public sale sold five Shorthorns at an average of over $900 a head.

Jack Stock

It was a little unexpected for the jack show to prove one the strongest, relatively, in the entire exposition, yet such it was. World's record mule prices undoubtedly proved a contributing factor. One of the successful exhibitors, James Godman, of Devon, Kan., recently sold two teams of mules, coming yearlings and coming two's, at $605 and $900 respectively, and while he was in Wichita during the show, bought 11 head of mature mules for $3,675. Hineman & Sons, leading breeders of Kansas were kept from showing by the failure of the Railway Administration to supply them with a car. No prizes were offered for jennets, awards being complete with the winnings on jacks.

Exhibitors—E. L. Ordway, Wellington, Kan.; S. E. Wilson, Milan, Kan.; Ivan Zock, Milan, Kan.; Henry Berline, Caldwell, Kan.; Casper Van Jasper, Andale, Kan.; W. B. Smith, Caldwell, Kan.; J. A. Godman, Dover, Kan.; W. E. Gilmore, Willard, Mo.; John Miles, Conway Springs, Kan.; F. O. Miles, Conway Springs, Kan.; W. H. Elledge, Hiatville, Kan.

Judge—W. L. Blizzard, Stillwater, Okla.

Jacks—Aged: 1 and 2, Smith on Cecil Boy and Early Reaper; 3, Ordway on King. Three-year-olds: 1, Elledge on Governor Wood. Two-year-olds: 1, Godman on Legal Tender; 2 and 3, Miles on Goldfinder and Esparire.

Championship—Smith on Cecil Boy.

Poland China Hogs

February, of course, is no time for a hog show. But as it is a mighty good time for a hog sale it is the logical thing to have a show in connection. Eleven breeders, all of Kansas, took part. Deming Ranch, on its way home from cleaning things up at Denver, dropped in and made some hard competition for its contemporaries. As the awards show, however, nobody could claim a shutout. The quality of the show was up to the fall fairs of this section.

Exhibitors—Deming Ranch, Oswego, Kan.; Williams Bros., Oswego, Kan.; Carl Faulkner, Viola, Kan.; W. C. Hall, Coffeyville, Kan.; C. B. Palmer, Wichita, Kan.; Foster, Hostetler & Oliver, Harper, Kan.; S. F. Harvey, Grenola, Kan.; Fred E. Webb, Wichita, Kan.; R. L. Barnes, Grenola, Kan.; Ed Hensley, Ashland, Kan.; George Quigg, Harper, Kan.

Judge—E. G. Barnard, Hennessey, Okla.

Boars—Aged: 1, Deming Ranch; 2, Hensley. Senior yearlings: 1, Williams and Deming Ranch; 2, Faulkner. Junior yearlings: 1, Barnes; 2, Deming Ranch. Junior pigs: 1, Harvey; 2, Deming Ranch; 3, Foster, Hostetler & Oliver.

Sows—Aged: 1, Deming Ranch; 2, Deming Ranch; 3, Barnes. Senior yearlings: 1, Barnes; 2 and 3, Deming Ranch. Junior yearlings: 1, Barnes; 2 and 3, Deming Ranch. Senior pigs: 1 and 2, Deming Ranch; 3, Harvey. Junior pigs: 1 and 3, Deming Ranch; 2, George Quigg.

Groups—Aged: 1, Barnes; 2, Deming Ranch. Senior herd, bred by exhibitor: 1 and 2, Deming Ranch. Junior herd: Deming Ranch; 2, Foster, Hostetler & Oliver. Junior herd, bred by exhibitor: 1 and 2, Deming Ranch; 2, Harvey. Produce of dam: 1, Deming Ranch; 2, Harvey. Get of sire: 1, Deming Ranch; 2, Harvey.

Fat Barrows—Senior yearlings: 1 and 2, Kansas State Agricultural college; 2, Deming Ranch. Junior yearlings: 1 and 3, Barnes; 2, Kansas State Agricultural college. Pen of three, any age: 1, Kansas State Agricultural college; 2, Barnes, Deming Ranch.

Championships—Senior and grand champion boar: Barnes. Junior champion boar: Harvey. Senior and grand champion sow: Deming Ranch. Junior champion sow: Deming Ranch. Champion barrow, any age: Kansas State Agricultural college.

Duroc Jersey Hogs

What the Duroc show lacked in size it made up in quality. As the appended awards will show, it was not a walk-away for anyone, and a small but select audience gave it close attention while it lasted.

Exhibitors—W. R. Crow, Hutchinson, Kan.; Reuben Miller, Mayview, Mo.; W. L. Fogo, Burr Oak, Kan.; W. H. Fulks, Hutchinson, Kan.; Santa Fe Dairy Co., Newton, Kan.

Judge—E. G. Barnard, Hennessey, Okla.

Boars—Aged: 1, Miller. Senior yearling: 1, Fogo. Junior yearling: 1, Crow, without competition. Senior pig: 1, Fulks. Junior pig: 1, Fulks; 2, Fogo; 3, Fulks.

Sows—Aged: 1, Fogo; 2, Crow; 3, Fulks. Senior yearling: 1, Crow; 2 and 3, Fulks. Junior yearling: 1, Crow; 2 and 3, Fulks. Senior pig: 1 and 2, Fogo. Junior pig: 1, Fulks; 2, Fogo; 3, Crow.

Groups—Senior herd: 1, Crow. Senior herd, bred by exhibitor: 1, Crow. Junior

herd, owned by exhibitor: 1, Fogo; 2, Crow. Get of sire: 1, Crow; 2, Fogo. Produce of dam: 1, Fogo; 2, Crow.

Championships — Senior champion boar: Crow. Junior and grand champion boar: Fulks. Senior and grand champion sow: Crow. Junior champion sow: Fogo.

Shorthorn Cattle

Of all breeds excepting Holsteins, the show of Shorthorns was strongest in numbers and in number of animals above an average show yard standard. A number of the rings were quite large. Park Salter, with his victorious herd from Denver, stronger even than at the fall fairs, had to win his way to the larger share of the money thru many a closely contested ring. He held both grand championships for Kansas but Colorado and Oklahoma took a senior and junior championship, respectively. Twenty-eight herds, mostly Kansas owned, were represented in the showing.

Exhibitors—Park E. Salter, Wichita, Kan.; H. C. Lookabaugh, Watonga, Okla.; Dr. H. L. Burgess, Chelsea, Okla.; Tomson Brothers, Carbondale, Kan.; Maxwell Miller Cattle Company, Steamboat Springs, Colo.; F. C. Barber & Sons, Skidmore, Mo.; J. Paton, Winfield, Kan.; E. P. Flannagan, Chapman, Kan.; H. O. Peck & Son, Wellington, Kan.; H. B. Gaeddert, Buhler, Kan.; H. W. Estes, Sitka, Kan.; H. W. Eshelman, Sedgwick, Kan.; A. F. Rusmisel, Enid, Okla.; W. A. Jacobs, Valley Center, Kan.; George Stinla, Goltry, Okla.; Fremont Leidy, Leon, Kan.; J. P. Ray & Son, Lewis, Kan.; John Regier, Whitewater, Kan.; J. C. Robison, Towanda, Kan.; S. F. Harvey, Grenola, Kan.; Kansas State Agricultural college, Manhattan, Kan.; J. A. Alderson, Nash, Okla.; L. F. LeForce & Son, Garber, Okla.; W. S. Dowell & Son, Welch, Okla.; C. H. Williams & Son, Hunter, Kan.; A. Ham, Preston, Kan.; L. E. Wooderson, Caldwell, Kan.; Hoar Brothers, Carrier, Okla.

Judge—J. Charles Yule, Carstairs, Alberta, Can.

Bulls—Aged: 1, Salter on Imp. Bapton Corporal; 2, Maxwell Miller on Princely Stamp; 3, Flannagan on Sultan Pride; 4, Salter on Missie's Last; 5, Stinla on Missie's Avondale. Two-year-olds: 1, Lookabaugh on Proud Lad; 2, Peck on Master Marshall; 3, Paton on Cumberland Star; 4, Gaeddert on Lavender Hampton; 5, Estes on Henry Goods. Senior yearlings: 1, Tomson Brothers on Marshall Crown; 2, Estes on Victoria's Dale. Junior yearlings: 1, Rusmisel on Avonrose; 2, Barber & Sons on Village Emblem 2nd; 3, Gaeddert on Crimson Lad; 4, Barber & Sons on Cerdmore's Pride; 5, Flannagan on Linnwood Topsman; 6, Le Force & Sons on Lavender Sultan. Senior calves: 1, Lookabaugh on Claret Commander; 2, Salter on Emblem Jr.; 3, Maxwell-Miller Cattle Co. on Maxmill Pride; 4, Barber & Sons on Village Signet; 5, Tomson Bros. on Vain Marshall; 6, Salter on Lavender Corporal; 7, Leidy on Village Viscount; 8, Paton on Velvet Type; 9, Le Force on Western Sultan; 10, Tomson Brothers on Happy Day. Junior calves: 1, Lookabaugh on Looky's Sultan; 2, Barber & Sons on Bapton Villager; 3, Maxwell-Miller Cattle Co. on Maxmill Perfect; 4, Salter on Emblem's Goods; 5, Tomson Brothers on Lavender Marshall; E. G. Matthews, Clearwater, Kan., on Royal Diamond; 7, Regier on A. L. Cumberland; 8, Regier on Kaulette; 9, Liedy on Hillcrest Chief; 10, Salter on King Cumberland.

Cows—Aged: 1, Maxwell-Miller Cattle Co. on Sultan's Graceful; 2, Salter on Hallwood Lavender 3rd; 3, Gaeddert on Lavender Princess 7th; 4, Burgess on Jehu's Emerald 2nd; 5, Burgess on Lady Orange Blossom 4th; 6, Burgess on Orange Barmpton 5th. Two-year-olds: 1, Salter on Miss Snowbird Sultan; 2, Maxwell-Miller Cattle Co. on O. J.'s White Gloster; 3, Le Force & Sons on Hallwood Dora L.; 4, Alderson on Tulsa Marchioness; 5, Tomson Brothers on Rosewood Tomaster. Senior yearlings: 1, Salter on Lady Supreme; 2, Barber & Sons on Village Viola; 3, Maxwell-Miller on Flora Anoka; 4, Burgess on Diamond La Belle; 5, Leidy on Miss Monarch 2nd; 6, Dowell & Sons on Snow Flake 2nd; 7, Peck & Son on Morning Glow. Junior yearlings: 1, Maxwell-Miller Cattle Co. on Clear Springs Mina; 2, Salter on Sweet Blossom 2nd; 3, Maxell-Miller on Primrose Pride; 4, Hoar Brothers on Type's Violet; 5, Regier on Miss Cumberland; 6, Peck & Sons on Airdrie Princess; 7, Leidy on Royal Empress 12th; 8, Williams & Son on Minerva. Senior heifer calves: 1, Lookabaugh on Annie Snowbird; 2, Gaeddert on Supreme Clipper; 3, Barber & Son on Village Emma 46th; 4, Tomson Brothers on Augusta 114th; 5, Salter on Pleasant Gloster 2nd; 6, Barber & Sons on Sityton Lovely 2nd; 7, Preston Boles, Enid, Okla., on Miss Augusta; 8, Boles on Lady Cumberland; 9, Gaeddert on Rosa Geraldine; 10, Tomson Brothers on Missie 62nd. Junior calves: 1, Maxwell-Miller Cattle Co. on Maxmill Myrtle; 2, Tomson Brothers on Lady Marigold 10th; 3, Lookabaugh on Pleasant Avern 2nd; 4, Boles on Melvina 3rd; 5, Maxwell-Miller Co. on Lothian's Lady; 6, Maxwell-Miller on Maxmill Graceful; 7, Leidy on Bapton's Secrecy; 8, Hoar Brothers on Orange Green Girl; 9, Gaeddert on Parkdale Lavender; 10, Leidy on Lady Caroline.

Groups—Senior herds: 1, Salter; 2, Maxwell-Miller Cattle Co. Junior herds: 1, Maxwell-Miller Cattle Co.; 2, Leidy. Calf herds: 1, Lookabaugh; 2, Maxwell-Miller Cattle Co.; 3, Barber & Sons; 4, Tomson Bros.; 5, Leidy. Get of sire: 1, Lookabaugh on get of Snowbird Sultan; 2, Barber & Sons on get of Villager Junior; 3, Tomson Bros. on get of Village Marshall; 4, Le Force on get of Golden Prince. Produce of cow: 1, Maxwell-Miller Cattle Co.; 2, Le Force.

Championships—Senior and grand champion bull: Salter on Imp. Bapton Corporal. Junior champion bull: Lookabaugh on Claret Commander. Senior champion cow: Maxwell-Miller Cattle Co. on Sultan's Graceful. Junior and grand champion cow: Salter on Lady Supreme.

Hereford Cattle

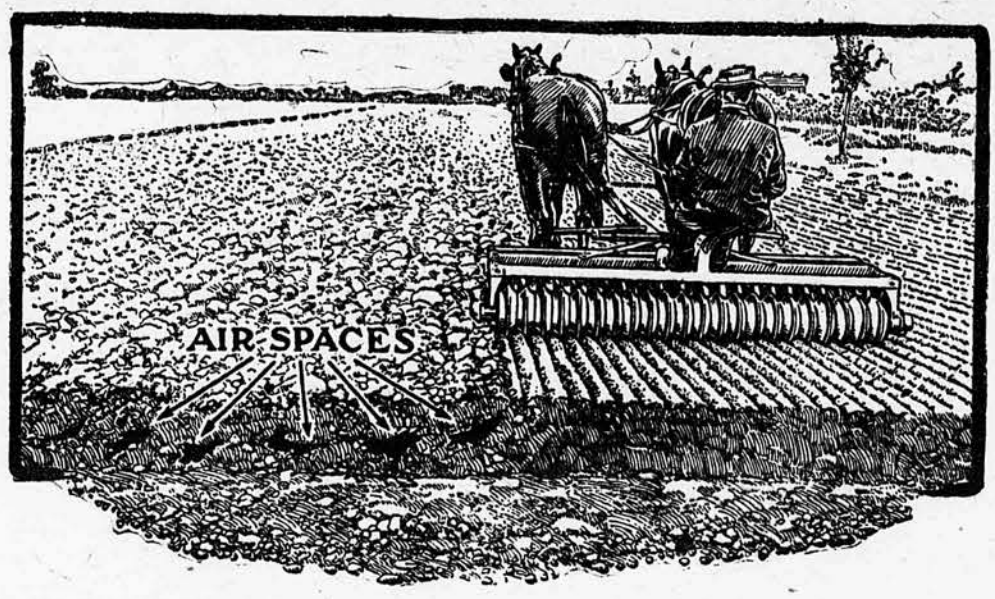
Robt. H. Hazlett, for Kansas, held two of the four Hereford championships against one of the strongest herds in the country, that of W. T. McCray. Texas had one exhibiting herd, Oklahoma, three; Indiana, one, and Kansas, 13. Four herds took very nearly all the money, but enough really good cattle were shown in working condition to

(Continued on Page 56.)

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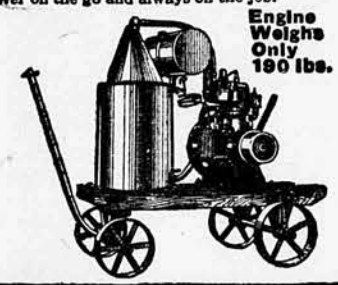
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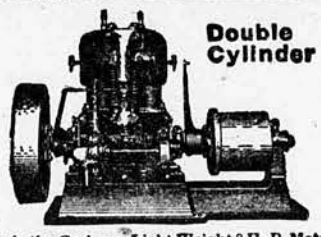
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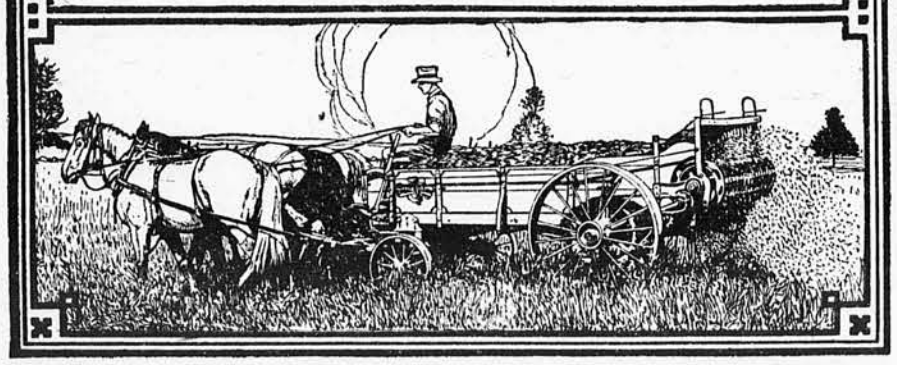
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The Midwest Tractor Show

Wichita Plans to Entertain Thousands of Visitors

BY JOHN W. WILKINSON

WICHITA is one of the most enterprising cities in Kansas and it always makes a success of everything that it undertakes. Just now the Wichita Thresher and Tractor club and the Wichita Chamber of Commerce with some of the leading business men of the city are busy getting things in readiness for the 19th annual exposition of the Midwest Tractor and Thresher show which will be held in Wichita February 9 to February 14.

Not less than 4 million dollars' worth of machinery will be displayed in the exhibits that will be housed by the Wichita Forum and its large and commodious annex. Two-thirds of the exhibits will be on the ground floor. The remainder will be shown on the second floor which is easily reached by inclines. There will be no tedious delays waiting for elevators or congested movements in climbing up tiresome stairways.

Southwest's Largest Exhibits

The exhibit of tractors, threshers, and farm machinery will be one of the largest ever seen in the Southwest. More than 100 manufacturers have already contracted for space and the streets of Wichita are bustling with activity getting ready for the great exposition.

Virtually all of the manufacturers of threshers, heavy tractors, steam traction engines and thresher accessories offering their product to the Kansas, Texas and Oklahoma trade, and many of the tractor and implement companies maintaining connections at Wichita, Kan., are included in the latest list of exhibitors.

This is not planned as a money-making show, for no one realizes a cent of profit. It is conducted purely as an enterprise to boost the cause of farm power and machinery in the Southwest as the use of such ma hinery will be a direct aid to increasing the crop production in this territory. Increasing the use of machinery of this kind means a larger production for each man on the farm and works directly towards a reduction in the high prices of living expenses. Its object is to make the farmer more independent and to help him make his profits larger and more satisfactory.

No Freak Machinery

A big factor of the 1920 show will be the practicability of the machinery to be shown. The management has encouraged for display nothing but stock machinery. "The atmosphere and the history of the show," said F. G. Wieland, secretary of the Wichita Tractor show, "we think demands this type of exhibit."

"For 18 years," Mr. Wieland continued, "this show has carried the distinction of being of practical worth to the actual user and buyer of power farming machinery. It started at first as a thresherman's show, and altho it has turned largely from a thresherman's show to a farmer's show, we still try to make it a real show of machinery. We are expecting a larger attendance of dealers and farmers this year than ever before."

A feature of tractor week in Wichita will be the grand parade on Lincoln's birthday, February 12, at which time hundreds of machines will parade the principal streets of the city. Indications are that there will be a very large crowd at the show. Sales have begun early this year, partly due to the anticipated shortage of machinery on account of the lack of steel. All the latest machinery ready to go into the field will be shown, the new motor-driven headers, combined threshers and harvesters that have proved a success, along with the new road machines.

Combined Harvester Threshers

There is a great deal of interest this year, in the territory served by the Wichita houses, in the small separators and the combined harvester threshers. There will be a large number of these machines shown. In the old days farmers had to "wait their turn" when oats or wheat were to be threshed, corn to be shelled, silage to be cut, wood to be sawed, or whatever it might be. With the coming of the tractor and its application to farm machinery came also the individual ensilage cutter and other labor-saving devices that have made it possible for the farmer to farm seasonably and profitably.

Many of the tractor accessory companies and thresher accessory companies also have arranged for exhibits. Practically all of the exhibits will be in charge of managers and travelers of branch houses and distributors of the Southwest. They will be assisted by a number of factory representatives and special salesmen.

All the exhibitors' space at the tractor show which is to be held in the Forum has been taken. More than 133,000 feet of floor space in the building and its annexes have been sold and when visitors arrive on the opening day they will witness the greatest display of tractors, threshers and accessories ever shown in Kansas, Oklahoma or Texas. It is probable that additional space may be found in the buildings adjacent to accommodate late exhibitors—there being many from whom the show management expects to hear. A big factor of the 1920 show will be the practicable nature of the exhibits. Nothing but stock machinery will be displayed.

B. L. Battishill, chairman of the entertainment committee and F. G. Wieland, chairman of the committee on attendance have promised to see that every visitor to the Midwest Tractor show is entertained and made comfortable while in Wichita. The city's hotels are among the best in the state, but to insure ample accommodations for all, every business man in the city has opened up his home for the reception of visitors who do not care to stop at the hotels. Wichita will do everything possible to make every visitor comfortable. Thousands no doubt will attend the Midwest Tractor and Thresher show. Every progressive farmer in the Southwest should be there.

Incubation and Brooding

The early hatched pullet begins to lay early in the fall and continues to lay when eggs are high in price.

Select uniform, fairly large-sized eggs for hatching.

Operate the incubator according to the manufacturer's directions to produce the best results.

Test the eggs for fertility on the seventh and fourteenth days.

Do not open the incubator after the eighteenth day until the chicks are hatched.

Given proper care and attention a hen is a valuable incubator for the farmer whose poultry operations are of moderate size.

In cool weather place from 10 to 13 eggs under the hen; in warm weather from 13 to 15 eggs.

Chicks should not receive feed until they are 36 hours old.

When artificial incubation is used, start the brooder a day or two before putting in the chicks, to see that the heating apparatus is working properly. Brooder lamps should be cleaned every day.

If possible locate the brooders on ground that has recently been cultivated, thereby eliminating the danger of tainted soil and possible disease.

Chicks having access to a shaded range develop and thrive better in warm weather than those not having such range.

In the case of hen-hatched broods, the coop for hen and chicks should be well ventilated, easy to clean, and large enough to insure comfort. To allow the hen to range over the farm with the chicks will often be the cause of heavy losses.

For the first three days chicks may be fed a mixture of equal parts of hard-boiled eggs and rolled oats or stale bread, or stale bread soaked in milk. When bread and milk are used, care should be taken to squeeze all the milk out of the bread. From the third or fourth day commercial chick feed may be fed until the chicks are old enough to eat wheat screenings or cracked corn.

The Farm Poultry Flock

(Continued from Page 5)

good results. The Mammoth Bronze variety attains a little larger size under favorable conditions than the others named. The Bourbon Red has the reputation of being somewhat hardier than others and the White Holland is supposed to be more prolific.

The best way to establish a flock of turkeys is to buy eggs of the variety desired and hatch either under chicken hens or in an incubator, letting hens brood the poults at first. The laying season begins about March 15 in this state so those who decide to buy turkey eggs should place orders early in order to be assured of the desired number at the time wanted.

Geese are raised easily and cheaply where unlimited grass range is available. This kind of poultry is hardy and needs little or no shelter excepting in extreme cold and stormy weather. Availability to water is a valuable asset for goose raising. With this and liberal grass pasture a considerable income may be realized on many Kansas farms thru the medium of a flock of geese. The Toulouse and Embden are the best varieties of geese for Kansas conditions and give good satisfaction.

Ducks make a good poultry side line and may be raised to advantage in all parts of Kansas. A pool or stream of water for their use is greatly enjoyed by the ducks but is not essential to successful raising. A start may be easily made with ducks by getting hatching eggs in the spring and setting them under hens or in an incubator. Ducklings are easy to brood artificially and may be handled about the same as baby chicks.

Pekin ducks are hardy, of good size and make a good market product. The Indian Runner ducks are of small size but are very good layers and active foragers. They are the Leghorns of the duck family and where a ready sale is found for the eggs this variety is quite profitable. The two varieties named are the only ones raised to any extent in this part of the country. Either of these will be found suitable to Kansas conditions.

If every farmer in Kansas will continue to increase and improve the flock of chickens at the same rate as has been done during the past few years, and in addition raise at least one poultry side line as turkeys, geese, ducks or guineas, there is no doubt that this state will be at the head of the list in poultry production.

Bulletins on Poultry

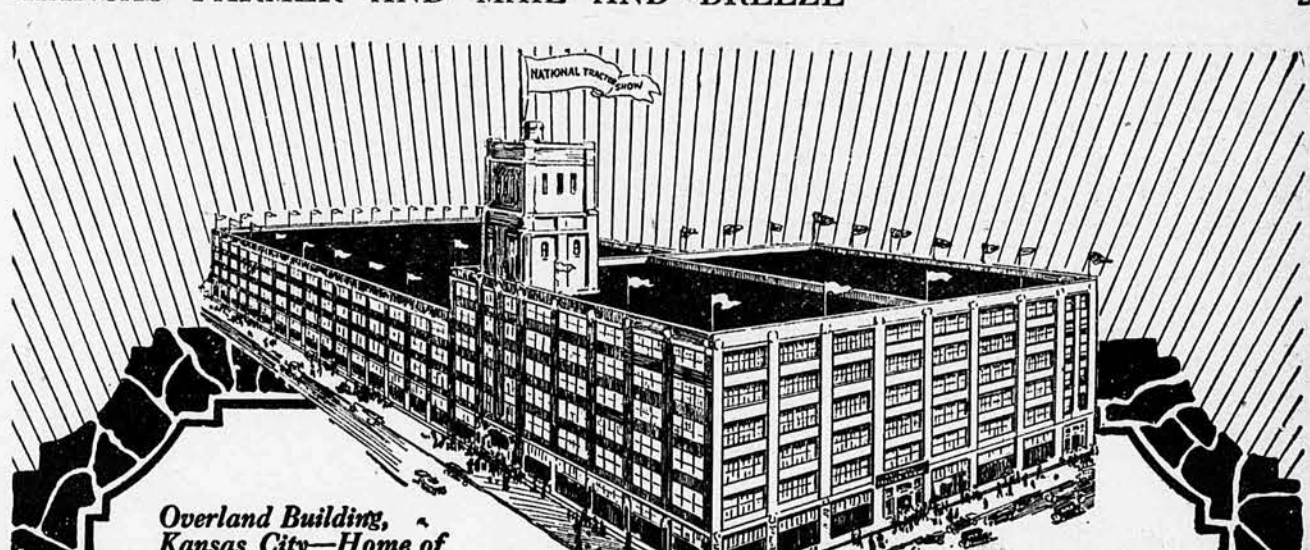
The government has published some excellent Farmers' Bulletins on poultry raising which should be in the library of every farmer. These bulletins, the subject and number both being given, may be obtained free on application to the United States Department of Agriculture, Washington, D. C.

Incubation of Hens' Eggs, Natural and Artificial 585
Poultry House Construction..... 574
Chickens, Natural and Artificial Brooding 624
A Simple Trap Nest for Poultry..... 682
Squab Raising 684
Duck Raising 697
Goose Raising 767
Turkey Raising 791
Poultry, Mites and Lice on..... 801
Standard Varieties of Chickens:
1. The American Class..... 806
2. The Mediterranean and Continental Classes 898
Capons and Caponizing 849
Guinea Fowl, The 858
Backyard Poultry Keeping 889
Important Poultry Diseases..... 957

Laying Age of Pullets

An observation of the average number of days required to mature Leghorns, Rocks and Reds at the Nebraska College of Agriculture shows the following: Single Comb White Leghorns, 205 days; Barred Rocks, 239 days; Single Comb Rhode Island Reds, 250 days. The age at the time of laying the first egg was taken as an index of maturity. Therefore, such medium maturing breeds as Rhode Island Reds, Barred and White Rocks, Orpingtons and Langshans should be hatched as near March 1 as possible if they are to be old enough to lay by November 1, or in time to catch the highest prices of the year. The necessity for early hatching is not so great with Leghorns. They mature so early that April hatched pullets seem to have the advantage.

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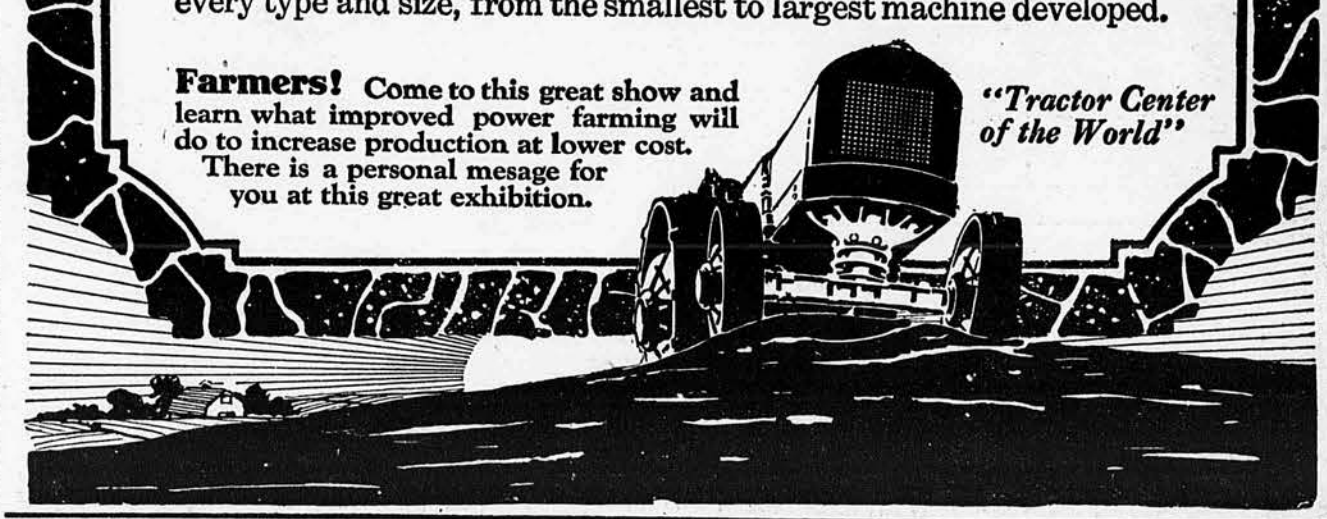
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Stockmen Meet in Wichita

Seventh Annual Convention Largest Ever Held

BY GEORGE C. WHEELER

PRESIDENT-ELECT, J. R. Plumb of the Kansas State Livestock association, in responding to the call for a speech following his election, began with the assertion that this association was the biggest thing in Kansas in the line of organized effort and the biggest thing of its kind in the United States. After witnessing the enthusiasm of the members present at the Wichita meeting last week to the number of 1,500 to 2,000, one could hardly dispute the claim. All thru the convention when it was not in session the lobby and reception rooms of the Lassen hotel were crowded to their fullest capacity with stock men who seemed to be enjoying themselves to the limit in discussing their many problems. As a Chase county stock grower remarked to us, this friendly mingling is perhaps after all one of the most valuable features of such a convention.

Has 10,000 Members

Kansas Livestock association now has more than 10,000 members, all to a greater or less extent engaged in the production of livestock. The association has in its membership many men handling cattle on a large scale and in the beginning these men were almost entirely in charge of association affairs. Probably some of the rank and file of livestock farmers, who knew that livestock production must be an essential feature of a permanent system of agriculture in Kansas, felt that this association was organized and conducted for the big fellows only, but Mr. Plumb said in his opening remarks that he considered the main thing for the association to do in the period ahead was to solve the problem of protecting and helping the small operator, the one who handles only a carload or two of cattle a year. We were glad to hear the new president come out so clearly on this point. S. B. Haskins of Olathe, an officer of the state Grange, also addressed the convention briefly on the subject of organized effort in solving our agricultural problems.

A Traveling Convention

The convention moved so rapidly from building to building that it was hard for those in attendance to keep up with it. The Wichita committee on entertainment, assuming that an auditorium having a seating capacity of three or four thousand would be necessary, arranged for the Arcadia Grove, the auditorium on the second floor of the Forum annex, but the noise of carpenters, building shipping crates for stock sold, the bellowing of cattle on the floor below and just outside where one of the biggest sales of Holstein cattle ever pulled off in Kansas was going on during one of the sessions, made it almost impossible to hear the speeches. Two forenoon sessions were tried out in this room, but President Donaldson gave up in despair and adjourned without completing the program. Other sessions were held in the city hall, in the Chamber of Commerce auditorium, and the last two in the First Christian church. The Wichita committee was very much humiliated because of the inconvenience and annoyance which the stockmen suffered and did all in their power to make amends. The facts were the stock show has grown to such proportions that it is not practicable to hold a convention, such as that of the Kansas Livestock association, in connection with it, and it is not likely that it will again be attempted.

Bureau of Information

The lack of positive information on the number of hogs and cattle in the country and being fitted for market is the greatest handicap in carrying on the livestock business, pointed out George S. Hovey of the Interstate National bank of Kansas City, a man who has been associated with the financial end of the cattle business for many years. "To the shipper it seems as if the shortage of livestock is always in the country but never at the markets", continued Mr. Hovey. He suggested a bureau of information to collect figures over the states of Colorado, Texas, New Mexico, Kansas, Nebraska, Oklahoma, Missouri, Iowa and Illinois on the number and classes of cattle, how many are being prepared for market, also information on the probable supplies from Mexico, South America and other cattle producing countries. It should also learn the export demand for cattle, investigate the relation between retail and wholesale prices, keep thoroly posted as to the world grain situation, keep in touch with financial centers and supply information on cars and other transportation matters. Mr. Hovey believes that such a bureau could be operated economically in a way consistent with good management. Its whole aim would be to work for an orderly marketing of cattle and hogs. These suggestions were well received and most favorably commented upon by stockmen present.

"Legislation cannot cure all the evils of the livestock business," said W. A. Cochel of the American Shorthorn association, who announced in beginning his address that he proposed to discuss the question in a way applicable to all breeds of cattle. "The last year has been a bad one for the cattleman, but he is likely to find his money where he lost it," continued Mr. Cochel. "The quitter never wins in any business. The experience of the last year should lead to more care and the exercise of better judgment. Livestock men should use their credit modestly, buy their stock worth the money and pay a reasonable price for their grass if they would be successful. If profits came every year, everyone would be in the business. Bad years are sure to come and these must be expected and provided for.

Improve Production Methods

"There should also be improvements in methods," said Mr. Cochel. "Bringing a steer up to market as a 3-year old, weighing only a thousand pounds, is not enough. We should make more than 333 pounds of beef a year from a single individual or quit producing the 3-year-old steer. Many breeders of cattle are satisfied with weaning their calves weighing 300 to 400 pounds, but some of our better livestock farmers wean calves weighing from 450 to 500 pounds. The 300-pound man will be run out of business unless he learns to do better. It is significant that owners of breeding herds have not been making serious complaints. While all cannot grow their own cattle, we need more producers than we have had in the past. Improvement in type is certain to follow when men begin to grow their own cattle. Range cattle men were early convinced of the necessity of using high-class bulls. But small producers have been slow in buying good bulls. The better sire campaign being urged by the United States department of agriculture is most commendable," said Mr. Cochel. He stated as his belief that not a county in Kansas is producing enough purebred bulls to replace the scrubs and grades being used in the county. "If every scrub or grade could be replaced with a purebred it would increase the average weight of the cattle going to market from 150 to 200 pounds," declared Mr. Cochel. Land is advancing rapidly in price. Feed prices are soaring and it stands to reason that the actual value of the cattle must also be increased.

On the first day's program W. F. Benson of Wichita, who is well known both as a stockman and a banker, read a paper which gave his audience much food for thought. Coming as we did from attending a two-day convention of the farmers' union where co-operation was the keynote of the whole program, we were caught by a statement made by Mr. Benson in closing. He said, "In every township in nearly every county in Kansas a corporation could be formed by you cattlemen or farmers to handle everything you buy and nearly everything you sell. Enough money is put into doubtful investments every year by the farmers of this state to furnish sufficient capital to com-

pete with any packer that ever existed."

Charles R. Weeks briefly summarized the valuable experimental work in beef cattle production going on at the Fort Hays Branch Experiment station. J. H. Mercer, secretary of the association, gave a very comprehensive report covering the activities of the year, which has included many trips to Washington, Chicago and Kansas City by himself and members of the executive committee in the interests of livestock producers. George H. Donaldson, the retiring president, who has put in a most strenuous year, also reviewed the work of the year.

The contest for the presidency of the association was between J. R. Plumb of Emporia and John A. Edwards of Eureka, Mr. Plumb winning by a small majority. Mr. Edwards was elected vice president.

Packers and Stockmen Debate

The convention closed Saturday with a debate between the packers and the livestock men. R. F. Eagle of Wilson and Company and L. H. D. Weld of Swift and Company, two of the best speakers in the employ of these big houses, championing their cause, while John A. Edwards and J. H. Mercer, spoke for the stockmen. The subject was "Resolved that federal supervision of the stockyards and packing industry is necessary to restore confidence in the livestock business."

Sprouted Oats for Poultry

BY BRIANT SANDO

One of the best ways to provide green stuff in the winter time, or to provide it for fowls kept in confinement at any season, is sprouted oats. The crisp, tender sprouts are greatly relished by both old and young fowls and they also have a splendid value in "balancing" and completing the ration.

Sprouts are not particularly "forcing", yet they have a mild stimulating effect that is very desirable. By feeding the proper amount of green cut bone and sprouted grain every day or two in addition to a suitable regular ration, it helps insure a good egg yield at any time of the year. Among chicks, sprouts and fresh cut bone are just the thing to develop good appetites, as they are greatly relished and easily assimilated.

A good method of preparing the sprouts is to soak the grain for 24 hours in a pail or kettle, keeping the grain well covered with water. Then pour out into a box which will permit the surplus water to drain off. This box should be of a size that will not necessitate having the feed more than 3 or 4 inches deep.

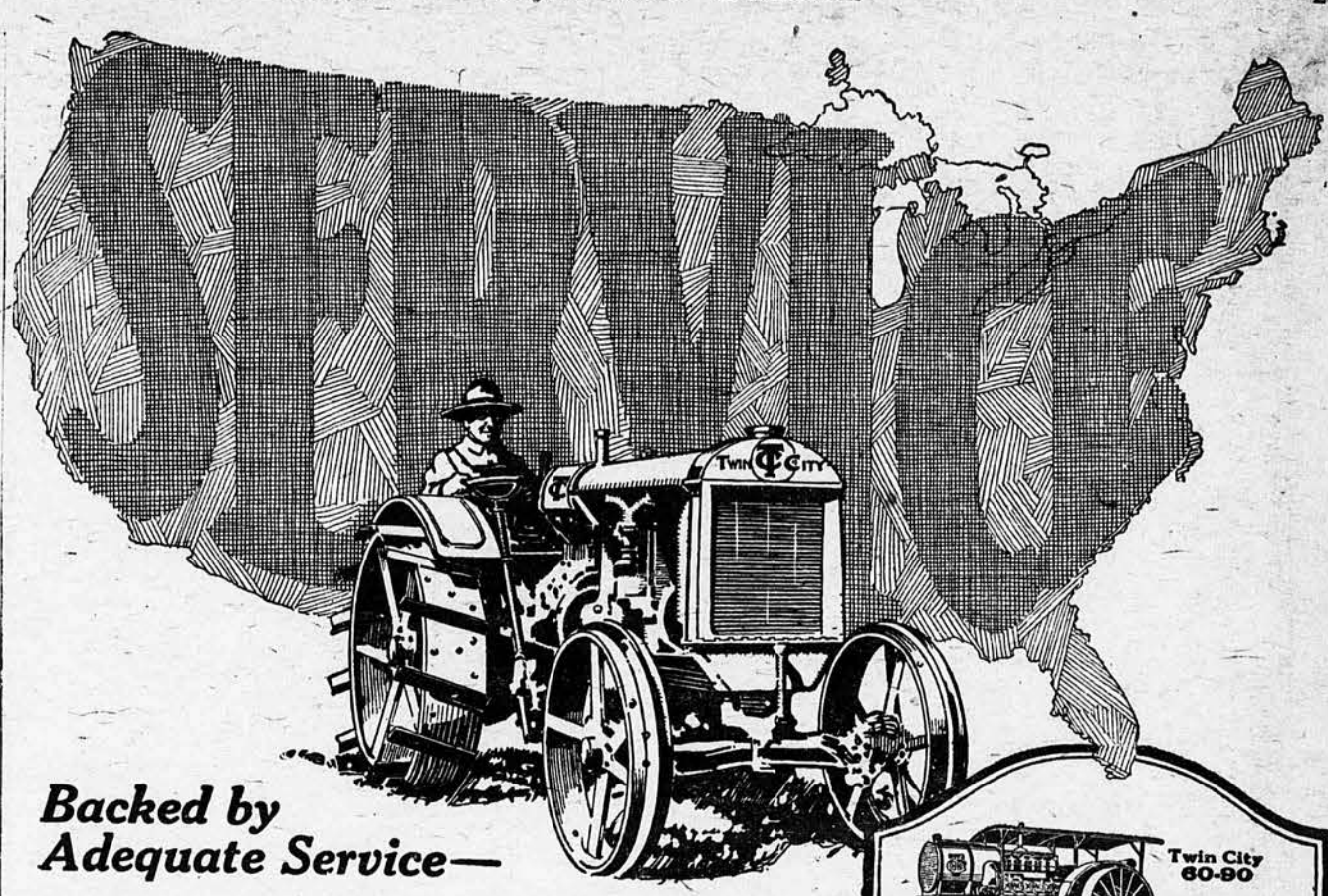
Cover with several thicknesses of burlap or old cloths of any kind; this is to conserve both moisture and the heat which the grains will begin to generate in a day or two. Sprinkle with warm water morning and evening, and at this time also stir the feed around with a small paddle in order to equalize germination in all parts of the box and to prevent the sprouts from matting together. This box should be kept in a comparatively warm place for the most rapid development of the sprouts.

If the oats are for little chicks, two or three days' treatment in the box will be sufficient. For old fowls, the sprouts may be permitted to develop to almost any length one wishes, according to the amount of green food desired. Of course as the length of the sprout increases, the feeding value in grain itself decreases. A tiny bit of salt mixed with the sprouts just before feeding adds the seasoning matter which is so often neglected in the feeding of fowls. However, it must be remembered that larger amounts of salt will be dangerous and may cause the death of the poultry eating it.

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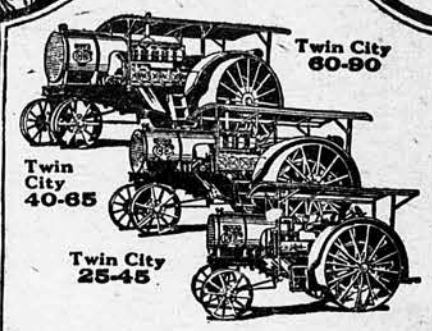
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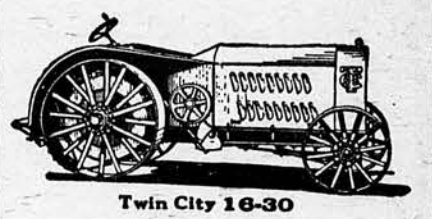
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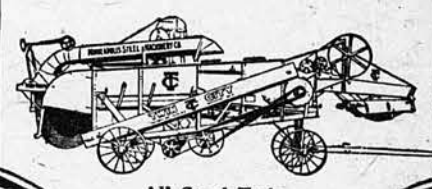
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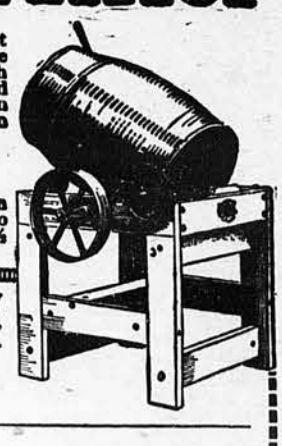
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Every Farm Needs a Garden

Let's Have an Abundance of Good Vegetables

BY J. T. ROSA

THE home garden should be one of the most profitable and satisfactory adjuncts to the general farm. Fresh vegetables from spring to late fall, a bountiful supply for storage in the natural condition, and plenty of material for the wife to can, should be the objects. Too often the garden is one of the most neglected spots on the farm, and many farmers will say they cannot afford to spend time at gardening because of the rush of farm work. Yet the garden can be planned and handled so that there is little of the tiresome and time-killing handwork, yet produce a good supply of vegetables.

The garden should be a regular part of the farm work—for if vegetables are to be had regularly and plentifully on the farm, they will have to be home grown. The women and children on the farm should not be expected to do the heavy part of the garden work, but they can help much in planting and planting the garden, and in harvesting the produce during the season. The following points may be helpful to some would-be farm gardeners, who would like to enjoy the plenteous supply of fresh, cheap vegetables, to which they are entitled, and which are so necessary for maintenance of health and appetite.

Small Area is Best

The garden should not be too large. Nothing is gained by slopping over an acre or two in a half-hearted way. Better limit the garden to a quarter acre or less, for if properly tended, it will supply enough, and to spare. The farmer is more fortunate than the city gardener in that he has some choice as to location, soils, shape and exposure of the garden plot. Convenience to the house should be the first consideration. Freedom from inroads by chickens and hogs is necessary. If the soil is not rich enough, it can be built up to a high state of fertility in a year or two, simply by the use of stable manure in liberal quantities, possibly with the reinforcement of acid phosphate. Poultry manure is available in considerable quantities on most every farm, and there is nothing that will stimulate vegetable growth more vigorously, if one does not make the mistake of applying an over-dose. In other words, hen manure is a very concentrated fertilizer and should be used only a little at a time, but applications as a top-dressing may be made continuously thru the season. The garden should be in a well-drained spot, so that early spring work will be possible. Shade of trees or buildings is injurious. A gentle slope to the south or east is desirable, to give full benefit of the sunlight in early spring. The shape should be oblong, and so arranged as to have a comparatively few long straight rows running the whole length of the garden. Put the rows of vegetables at least 30 inches apart and the larger vegetables may be 3 to 5 feet apart, depending on the space required. This will permit of cultivating with a one-horse walking cultivator, or even with an ordinary two-row corn cultivator, at least while plants are small. In this way, the whole garden can be well cultivated in an hour or so, and the work is done quickly and well. If the garden is kept from becoming foul with weeds, hand cultivation is practically eliminated.

Fertilize Soil With Manure

The garden should be a permanent fixture when once well located. The fertility can be built up from year to year, and weeds gradually eliminated by using only well rotted manure, and preventing any weeds from going to seed. Whatever perennial vegetables are desired, should be confined to one or two rows along one side of the garden. Berries and small fruits may also be located here, provided there is no separate plantation for fruit on the place. Then about three groups of regular spring crops, besides potatoes, should be arranged. The groups of crops are arranged according to date at which they should be planted, so that the whole garden may be planted on three days, two or three weeks apart. As for potatoes, a larger supply of them being desirable, a larger plot elsewhere on the farm may be devoted to them, if conditions permit. A small area of rich bottom lands, if not too wet in early spring, will be the best place for the potato crop.



A Small But Intensively Cultivated Garden from Which Fresh Vegetables Were Supplied from Early in the Spring Until Late in the Fall.

The garden can be made more profitable by growing only a comparatively few kinds of vegetables, selecting those crops which are vigorous growers, productive, and are adapted to the soil and locality. Tomatoes always take first place as a garden crop, since they are so easy to grow, and are so productive, and generally in demand. Yet there is seldom enough of them, if many are to be canned for winter. One hundred large, stocky plants, set early in May, will produce many bushels. The yield can usually be increased by mulching the plants with straw, soon after they are set out. Other dependable crops are: Onions, cabbage, beets, Swiss chard, snap beans, sweet corn, sweet peppers, cucumbers. Others may be added where they are desired, but these that I have mentioned seem to be most dependable and satisfactory as all-round crops.

An early start is highly essential for successful gardening. The land should, if possible, be manured and plowed in the fall, and it will be in better condition for early spring work. Double disking early in March will put the land in condition for the first batch of crops, which should go in the ground during the latter part of March. An early start is very desirable, for then the cool season crops have a good, long growing season before hot weather comes. I have observed that there is less likelihood of the garden being neglected if it is well under way before the rush of other farm work becomes pressing. Then too, almost every crop does better if it is well established before heat and drouth of midsummer arrives.

In making up plans for the family budget this year why not plan to put some of the money into a system of home water works? It will pay.

The Nursery Tray Incubator

BY H. L. KEMPSTER

Many incubators have trays underneath the egg tray for holding the chicks until the chicks are ready for the brooder. In some machines one tray is a foot below the other. A foot drop for a chick which has just drawn the yolk sack into its body cavity may break the yolk sack or it may rupture the chick at the point where it is drawn in. Either will result in death within a few days or perhaps immediately. This fall should be checked by putting burlap sacks in the front of the machine, thus making the descent more gradual.

Another more serious menace of the nursery tray, especially in cold weather, is the low temperature of the tray. One correspondent last year reported that the temperature of his nursery tray was 20 degrees below that of the egg tray. A chick accustomed to a temperature of 103 will find it chilly if compelled to remain in a nursery tray several degrees cooler. This is all the more acute if it has not thoroly dried off but no chick will be comfortable. The result is that they pile up, some are smothered and many are chilled. Chilled chicks develop diarrhea and the chick gets a bad start in life if it gets a start at all.

Test out your incubator tray. If it registers below 95 degrees, don't use it. It would be better to transfer them to the brooder where they can be kept warm.

Provide Good Brood Coops

BY H. L. KEMPSTER

If the mother hen is to be confined to the coop for the first three weeks of her care of the brood it is important that the brood coop be of sufficient size so that there is ample room. In general the brood coop should be not less than about 3 feet square. A coop of this size will afford sufficient room so that on rainy days it is not necessary to let the chicks out and there will be less danger of the hen killing some of the chicks by stepping on them. A good idea would be to build two of these coops together, thus having a coop 3 feet wide and 6 feet long. A frame covered with burlap can be used as a temporary partition. As soon as the hens wean their chicks the partition can be removed and roosts installed. By having a board floor the coop can be easily made rat proof and by placing it on skids it can be easily moved from one place to another by means of a horse. Such a coop is not only of value during the brooding season but by selling off the cockerels as broilers the coop is of ample size to house the pullets from two broods until it is desired to remove them to the regular laying quarters in the fall. The brood coop frequently seen on farms is too small and is of little use after the chicks are 5 weeks old. It will pay to provide more roomy quarters.

Her Flock Paid Well

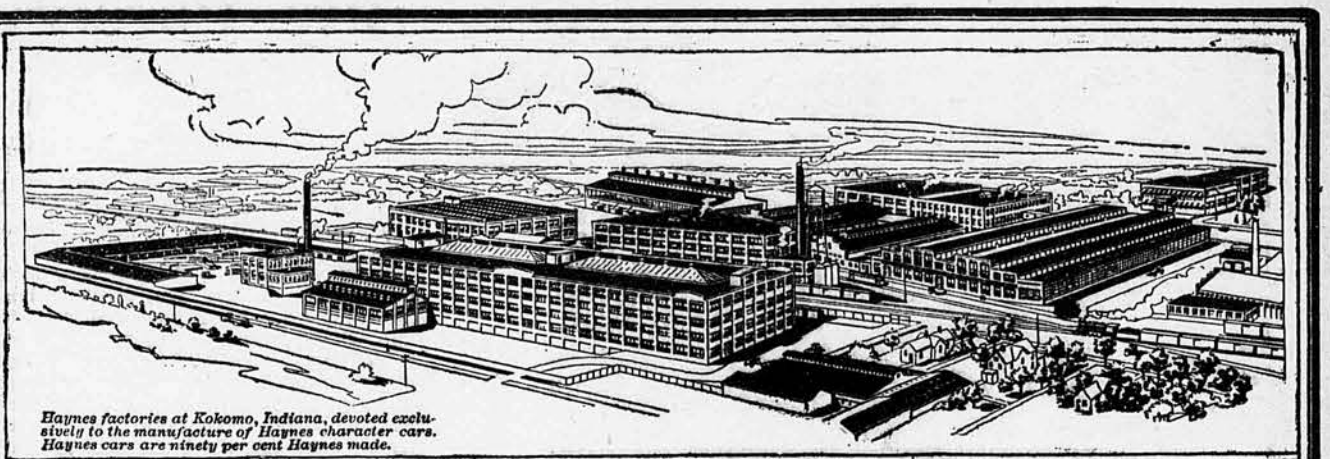
I desire to tell about our flock of standard bred Single Comb Buff Leghorns. From our 275 hens we realized a neat sum. It was not possible to keep tab on all feed consumed, but the eggs and meat furnished the family would offset the feed bill to quite an extent. I kept strict account of all cash sales, which are as follows: Eggs $876.80; hens and cockerels $330; 300 pullets still on hand are worth $1.50 each, making a total of $1,656.80.

During the hatching season we shipped 7,500 eggs, at the reasonable price of $6.50 a hundred prepaid. April was our heaviest shipping month, during which time our eggs netted us $9 a day. All our surplus poultry has been disposed of, and orders come from day to day that we cannot fill.

Three years ago we started with the Buff Leghorns. Until that time we had a sample of all known breeds in our flock. We have never regretted the change. Each day we become more convinced that there is little profit in a mongrel flock, as it costs just as much to feed them and you cannot expect the returns that a good standard bred strain will produce.

The Buff Leghorns are very docile if handled right. They are prolific layers and their eggs are large and white. The hens are too full of pep to want to sit. Mrs. J. L. Dignau.

Kansas.



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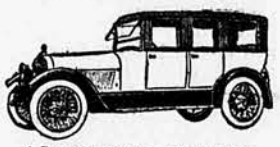
6 Cylinder Touring Car—7 Passenger
12 Cylinder Touring Car—7 Passenger



6 Cylinder Roadster—4 doors, 4 Pass.
12 Cylinder Roadster—4 doors, 4 Pass.



6 Cylinder Coupe—4 Passenger
12 Cylinder Coupe—4 Passenger



6 Cylinder Sedan—7 Passenger
12 Cylinder Sedan—7 Passenger

Cord tires and wooden wheels standard equipment on all six cylinder cars. Cord tires and five wire wheels standard equipment on all twelve cylinder cars. Disc wheels optional equipment, at an extra charge, on all models.

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A Haynes user knows what a Haynes car means. There are thousands upon thousands in use to-day giving service and satisfaction. No safer guarantee is there than the tried and tested judgment of such a large number of astute investors. A growing clientele points the way to judge the worth of a company's product.

We hope to be able to keep pace with the demand, and to that end our producing facilities have been and are being enlarged. Again, however, we would state that no Haynes car can leave our factory until it has satisfied our engineers, designers, and inspectors that it is fully up to the rigid Haynes standard of beauty, strength, power and comfort.

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Dept. 90 Des Moines, Iowa

IOWA SHIELD BRAND SEEDS



FIG. 1 FIG. 2

Fig. 1 shows root system of alfalfa fertilized with GYPSUM. Fig. 2 shows root system without GYPSUM. From Bulletin 163 of Oregon Ag. Experiment Station

AGRICULTURAL GYPSUM

Gypsum has great value as a soil builder. Its application to clover, alfalfa and other legumes causes an enormous increase in the size of the root systems and tops of these crops. It produces many more nitrogen fixing nodules on the roots. This, in some cases, means ten or twelve times as much nitrogen fixed per acre, thus furnishing much more nitrogen for the farm and for later crops. That's why

A Gypsum Test Strip on Your Fields will Prove Its Worth in Greater Yields

In early Spring, just as growth starts, sow a strip across your alfalfa or clover field or across your white clover blue grass lawn and let it tell its own story. Rate of application 200 to 400 pounds per acre. Get a supply of Agricultural Gypsum from your nearest building supply dealer. Write us for free information on various uses of Agricultural Gypsum as an efficient and economical soil builder.

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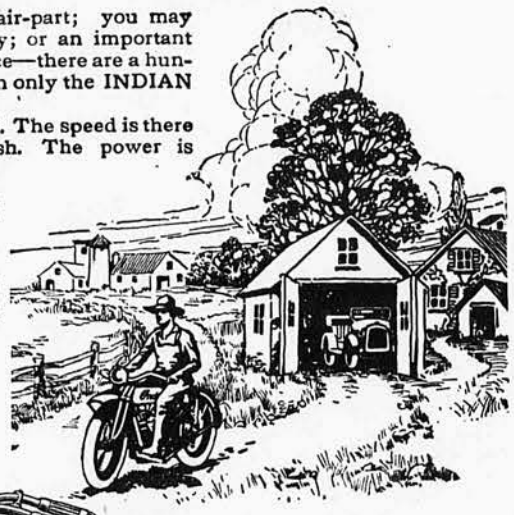


For those quick runs to town—the *Indian* is best

You may suddenly need a repair-part; you may want to see the doctor in a hurry; or an important message must be delivered at once—there are a hundred and one such occasions when only the INDIAN will give perfect service.

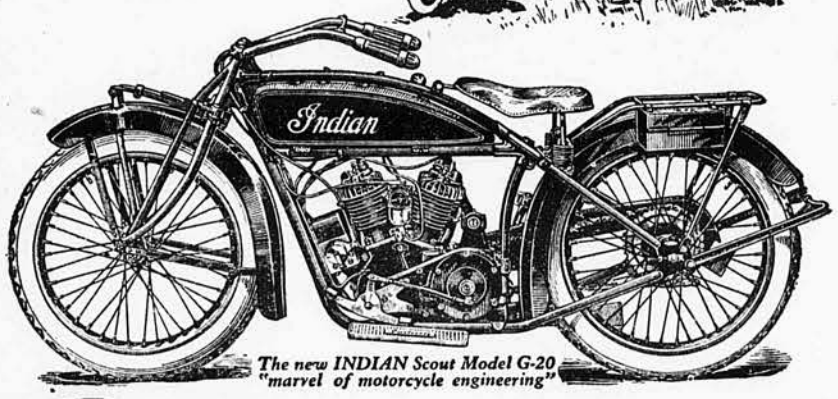
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Dept. 20
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The Largest Motorcycle Manufacturer in the World.



The new INDIAN Scout Model G-20 "marvel of motorcycle engineering"

Indian Motocycle

Buy Purebred Dairy Sires

Scrub Animals Always Will Diminish the Profits

BY ARTHUR L. DAHL

ARE you one of the owners of the 23 million dairy cows in the United States whose average yearly production is less than 4,000 pounds of milk and 175 pounds of butterfat? Or are you one of the 5 per cent who have purebred animals, and whose production of milk and butterfat runs from double to nine times the average, from practically the same amount of food and care as required by the scrub? The line between the 95 per cent and the 5 per cent is easily crossed, and one of the best ways of doing it is to add a purebred sire to the herd, and begin to build up the breed without interfering with production. Many experiments and also practical experience, when good sires are used, show that within three generations most of the individuals in a scrub herd headed by a purebred male resemble purebred animals in appearance. In a few more generations, under skillful breeding, the former scrub stock is graded up to such an extent that for production of meat and dairy products they are practically as useful as purebreds. The chief difference between a "high-grade" animal and a purebred is in the value for breeding. Only the latter can be used for producing purebred breeding stock, and only purebreds are eligible to registry.

Cheap Sires Prove Expensive

Many a dairyman has hesitated to invest in a good sire because he thought the price was too high, and he went on using a $50 bull of scrub stock, instead of investing a few hundred in a purebred sire, when the results would have returned him many hundred per cent on the investment. This has been demonstrated by the results of experiments conducted at the Iowa State Agricultural college, where scrub cows were obtained from isolated regions where no purebred bulls ever had been used, and these scrubs were sired by purebred animals and the results carefully tabulated and compared. The first generation heifers not only proved to be much superior to their dams in production, but showed a remarkable improvement in appearance and constitution, and this improvement was even greater in the second generation grades. The poorest daughters bettered their dams by 1,600 pounds of milk a year, easily worth $32, and assuming that a sire would produce at least 10 daughters in a herd, the yearly increase in income would amount to $320, or as much as the purebred bull would cost. But a cow is milked for six or seven years, and the 10 cows would in that time better their dams by at least $2,000.

Purebred sires, careful testing and careful feeding were the means used by Ernest Dengler of Davenport, Ia., to make his herd into profitable producers. The average production of his 24 cows for last year was 7,994 pounds of milk and 380 pounds of butterfat. A feed cost of $56.81 a cow deducted from the gross return of $153.86 a cow left him a profit of $97.05 a cow a year. The herd was made up of two purebred and 22 grade Guernsey cows. Of these 12 were 2-year olds, four 3-year olds, three 4-year olds, and five were 5-year olds or over. Included in the five over 5 years old were the two purebred cows, Imp. Vue VI 37756 and Imp. Echelle's Lily of the Valley 37743, whose records were 9,322 pounds of milk, 495 pounds of fat, and 10,445 pounds of milk, 460 pounds of fat, respectively.

Weed Out the Scrubs

Mr. Dengler has been testing his entire herd for five years. His foundation stock was Shorthorn and Red Polled cattle. The first year in which the herd was tested he found that five of 20 cows had produced less than 150 pounds of butterfat in the year, and they were promptly sold for meat. He next purchased a purebred Guernsey bull. The first one was Costello's Duke 14497, a son of Lord Waukesha 10148 A. R. and Royaline's Costello 17376 A. R. 1279, with a record of 10502 pounds of milk and 479 pounds of butterfat. He is still in use as a senior herd sire, his daughters being bred to Pride of Alfalfa Lawn 25413, the junior herd bull. This one is a son of Imp. Belle Vue VI 37756, the highest record cow in the Davenport association. His sire has seven daughters whose official 2-year-old records average 8435 pounds of milk and 416 pounds of butterfat. One of these made 11,908 pounds of milk and 638 pounds of butterfat.

The case of Dena and her daughters is a sample of the results from the use of the purebred bulls at the farm. Dena was sired by a Shorthorn bull and out of a Red Polled cow. Her three daughters were sired by purebreds and the average of the daughters' records made at the ages of 2 and 3 years showed an increase over the production of their dam of 31 per cent in milk and 27 per cent in butterfat.

G. I. Sassman, a Wisconsin Holstein farmer, began dairying 16 years ago with a small herd of grade Holsteins and scrub cows. By careful culling, selling off the poor cows, and the use of a purebred sire, he has built up a very excellent herd of producers, the average of the herd in the local cow testing association last year being 9,726 pounds of milk and 413 pounds of butterfat. The average cost of feed was $78.84, leaving a profit of $101.25 a cow.

What the Tests Show

In a Wisconsin grade Guernsey herd the average annual profit a cow has been $81.86 for seven consecutive years, and this result was obtained by using a purebred bull. Records kept of the Holstein herd owned by the Whitin Estate of Whitinsville, Mass., show that for 24 consecutive years the average production of a herd averaging 28 head of all ages, was 9,624 pounds of milk a cow for each year.

An interesting experiment recently was started by the United States Department of Agriculture in co-operation with the University of Idaho at Moscow, to determine the best method of fixing and insuring the uniform transmission of high production in dairy cattle. The Department of Agriculture has shipped to the University farm two purebred dairy bulls, one a Holstein and one a Jersey. These bulls will be run with the university herds, not less than 12 cows being re-



The Use of Purebred Sires and Improved Milking Machines Will Increase Dairy Profits Very Materially. Don't Buy Cheap Stuff.

quired for each bull. The expense of feeding and caring for the animals will be borne by the university, and accurate records will be made and supplied to the Dairy Division of the United States Department of Agriculture on the production of milk, butterfat test, date of calving, of all dams and daughters of the herd. The object of the work is not only to improve the high producing animals now existing, but to determine the method of breeding that will produce the better animals in large numbers. Breeding work heretofore has been aimed largely at the breeding of high-producing cows only, without any attempt to compare the various systems of breeding, or to follow any definite system of breeding that would prove or disprove the present theories. The co-operative work with the University of Idaho is a part of a general plan formulated by the Dairy Division of the United States Department of Agriculture for extensive breeding experiments involving a large number of animals and extending over a number of years. These experiments will be carried out directly with the herds of the United States Dairy Division and co-operatively with herds of state experiment stations and individual breeders, and undoubtedly will supply some valuable and accurate data for future breeding. The methods which will be compared at the University of Idaho are inbreeding versus outbreeding and line breeding versus outbreeding. Holsteins and Jerseys predominate in the university herds. The former will be used in the inbreeding and the latter in the line breeding experiments.

Co-operative Bull Associations

Co-operative bull associations offer opportunities for the small breeder to improve his herd by the use of the best sires, used co-operatively. Community breeding offers further opportunity thru the exchange of sires. While using mature sires frequently does not appeal to some persons, it should be remembered that their real value seldom becomes known until their offsprings have developed. This means that many sires are disposed of before their value is known. Constructive breeding and permanent improvement are the result of keeping the best healthy, tried sires of good disposition and exchanging them within the communities.

Community breeding also enables the members to dispose of surplus stock. In offering livestock for sale, other things being equal, the individual or community which offers large numbers of select cattle to choose from is visited first.

The ability to produce milk is inherited thru both dam and sire, but since the sire is responsible for half the inheritance of each young animal, he is clearly the most important factor in improving the herd. If the cows in a herd are capable of producing only 200 pounds of fat a year and the sire used represents a breed the cows of which average 350 pounds of fat a year, it is reasonable to suppose that the heifers would average half way between, or an increase of 75 pounds of fat a year. The increase by using a good sire, however, is often much more than this.

The bull selected should be a purebred of the breed to which the cows belong or, in case grading up has just begun, of the breed selected as the one to be used in the future. Cross breeding is justified only when making the first steps toward grading up a herd and when cows of mixed breeding are on hand. Crossing breeds with the expectation of getting better results by that method is a great mistake. Breeds have been developed and kept pure in order that certain characteristics may become fixed so strongly that they will be transmitted regularly. The leading dairy breeds represent the best efforts of breeders for generations, and greater progress can be made by starting with a pure breed where the breeders of the past have left off.

A bull should never be permitted to run with the cows but kept in a strong paddock preferably where he can see the other stock. Where the bull is permitted to run with the herd some heifers get in calf younger than is desirable. It is also impossible under these conditions to keep an accurate breeding record which is necessary in order that the date of freshening may be known.

Hermoline

A BETTER LUBRICANT

—FROM THE FORMULA OF A MOTOR COMPANY

1,000,000 Gallons Used in 1919

HERMOLINE is not a new lubricant—it is a better lubricant.

For the past six years it has been used by thousands of motorists, who desired to secure the advantages of better lubrication. Over 1,000,000 gallons of HERMOLINE were used in 1919.

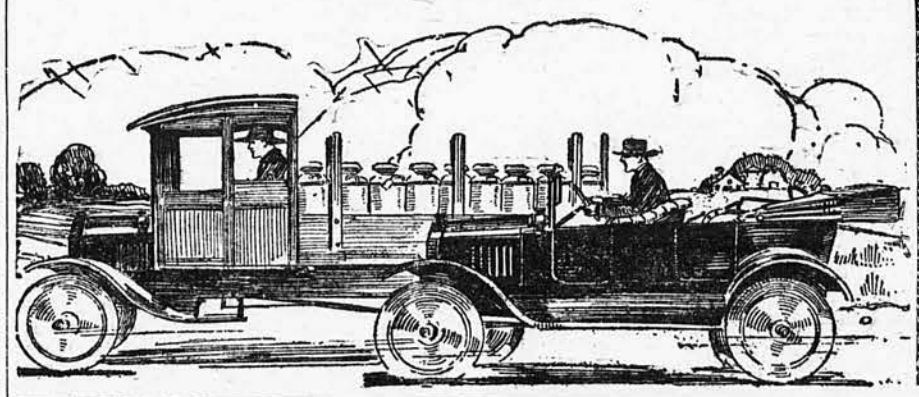
HERMOLINE is a better lubricant because it is made strictly from Pennsylvania crude—and it has long been known that motor lubricants made from Pennsyluania crude are superior to all others. HERMOLINE is a better lubricant because it will retain its body under the most excessive heat developed in your motor, because it will keep a constant film of oil over the working parts, providing perfect lubrication under all conditions—because it will keep cylinders, valves and spark plugs in good condition and because it will make for smoother operation and longer life of the motor car, truck or tractor in which it is used.

The reason why you will find it hard to get a strictly Pennsylvania base lubricant of this sort, other than HERMOLINE, is because the supply of Pennsylvania crude is limited. But by limiting the sale of HERMOLINE to a few states, it is possible for motor car, truck and tractor owners in these states to secure this better lubricant.

Insist on your garage man supplying you with HERMOLINE lubricants—buy HERMOLINE in the original can or barrel and keep it in your own garage.

Put it to any test you like, HERMOLINE is the lubricant you should insist on.

HERRING MOTOR COMPANY
Des Moines, Iowa



The Test of Oil Value

There are five tests by which the supreme quality of lubricants made from Pennsylvania crude oils are shown, and by these tests HERMOLINE lubricants are proved superior for use in your motor car, truck, tractor or aeroplane.

Gravity

The gravity of an oil shows its density. Lubricants like HERMOLINE, made from Pennsylvania crude oils, run high in gravity (from 30 to 33 degrees), and are invariably filtered oils that contain a small percentage of carbon.

Viscosity

The viscosity test shows the ability of oil to retain its body under extreme heats. Inferior oils usually have a high viscosity, while Pennsylvania oils have low viscosity (from 150 to 240 at 70°), but when subjected to a heat anywhere near the temperature of a working motor Pennsylvania oils surpass all in viscosity and lubricating capacity.

Flash and Fire

The flash test shows at what temperature the vapors coming off the oil will ignite when a small flame is brought close to its surface.
The fire test shows at what temperature the oil itself will burn. Oils refined from Pennsylvania crude show a flash of 400° Fahr. and over—a fire test of 450°.

Color

Some of the lightest colored oils often contain the most carbon, so that tests of color should never be taken as proof of quality without the other tests described in this column.

Filtering

Oils made from Pennsylvania crude may be depended upon as being truly filtered oils when they have a high gravity (from 30 to 33 degrees). You will note that HERMOLINE oil has both light and color and high gravity.

Ask your dealer for the HERMOLINE booklet—it tells in detail how to prove oil value.

$19.95 Upward ON TRIAL

American FULLY GUARANTEED CREAM SEPARATOR



A Solid Proposition to send new, well made, easy running, perfect skimming separator for $19.95. Skims warm or cold milk; heavy or light cream. Different from picture, which shows larger capacity machines. See our plan of

MONTHLY PAYMENTS

Bowl a sanitary marvel easily cleaned. Whether dairy is large or small, write for free catalog and monthly payment plan. *Western orders filled from western points.*

AMERICAN SEPARATOR CO.
Box 4092 Bainbridge, N. Y.

AUTO OWNERS NOTICE!

Get More Power From Gasoline. Use Ball Gas. Cleans spark plugs, eliminates carbon, starts easy in winter. Enough to treat 150 gallons; $1.00 postpaid.
Juron Garage, Desk 2, 4028 N. Parkside Ave., Chicago.

Saws 25 to 40 Cords a Day

At a Cost of 1½c Per Cord!

Send Today for Big Special Offer and Low Direct Price on the OTTAWA, The One Man Saw, the first made and sold direct from Factory to user. Greatest labor saver and money-maker ever invented. Saws any size log at the rate of a foot a minute. Does the work of ten men. As easily moved from log to log or cut to cut as any wheelbarrow.

OTTAWA LOG SAW

Saws Down Trees Saws Logs Saws Limbs and Poles



4-Cycle Frost Proof Engine—pulls over 3 H-P. Hopper cooled. Oscillating Magneto; no batteries ever needed. Easy to start in any weather. Automatic Governor regulates speed. Uses fuel only as needed. Cheap to operate. Saw blade easily removed. When not sawing, engine runs pumps, feed mills and other machinery. Pulley furnished.



Cuts down trees level with the ground.

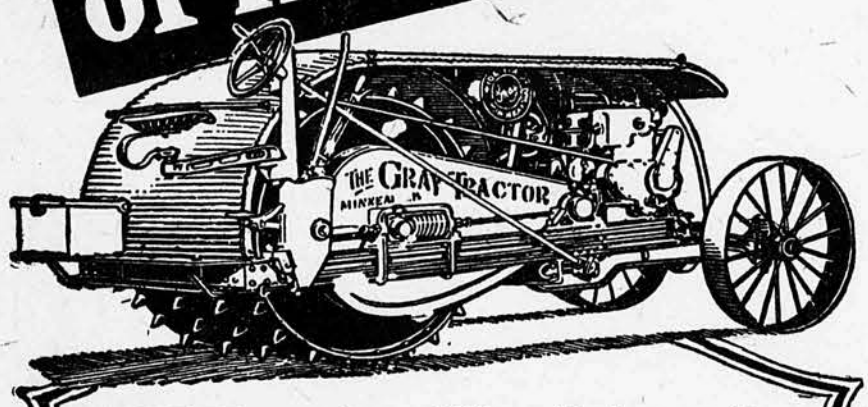
Cash or Easy Payments—30 Days Trial Shipped direct from factory. No waiting—no delay. Let the OTTAWA saw your logs and pay for itself as you use it. 10-YEAR GUARANTEE.

See the OTTAWA at work on your farm once and you will never give it up. Thousands in use, every owner a booster. Out-saws any other on the market. Does sawing no other saw will. Send today.

FREE Write at once for Special Offer and Low Factory Direct Price. Get our offer.

OTTAWA MFG. CO., 1465 Wood Street, Ottawa, Kans.

Built for Years of Hard Work



THE tractor which will insure its owner the best profit for the greatest number of years is, of course, the tractor that will stand up longest under hard service.

The Gray tractor fills this one supreme requirement simply because it is built for that purpose—to stand up as long as possible under every kind of hardship.

To accomplish this it has been necessary to carefully watch every detail and to put the best of workmanship and materials into its construction. From steel frame to roller bearings, the Gray is a wonderful combination of the best and strongest in tractor machines.

18 H. P. on Drawbar — Gray TRACTOR — 36 H. P. on Belt

Built For The Man Who Wants Good Machinery

WIDE DRIVE DRUM

When farmers tell us that they have worked hard with their Grays for four, five, six years, with very small repair bills, and that they are still going strong, it means that the Gray is built as a tractor should be built.

They also tell us that as a general purpose machine, for strength and durability, it is certainly hard to beat. Experienced threshermen prefer the Gray for threshing. It is equally reliable whether on the drawbar or belt.

DOES NOT PACK THE SOIL

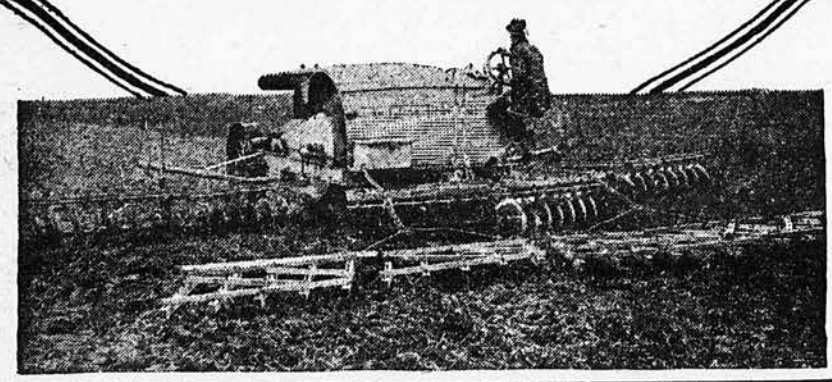
The wide drive drum on a Gray tractor is one of its greatest assets. The wide bearing surface distributes the weight so that the soil under it does not pack—at the same time it levels and smooths the surface in good shape.

When plowing over trashy ground the wide drive drum will lay the vegetation flat so that the plow can turn it in thoroughly under each furrow. For road work it has no equal in smoothing off the dirt left by the scraper.

INTERESTING CATALOG FREE

We will gladly send you our latest illustrated catalog which will show you by means of ample illustrations just what the Gray tractor is and does. Send for it today.

GRAY TRACTOR COMPANY, Inc.
221 30th Ave. S. E., Minneapolis, Minn.



Classified Ads Will Bring Big Returns

Kansas Farm News Notes

COUNTY farm agents, progressive farmers, and all readers of the Kansas Farmer and Mail and Breeze are urged to send us items of farm news that they desire to have published in this department of the paper. It is our plan to make this a regular feature of the paper and we need your help to make it a success. Mail your material to us at the earliest date possible.

Farmers Form $20,000 Company

A $20,000 farmers' co-operative company was recently organized at Halstead, Kan., to take over the business of a local grain and stock company.

Wheat Held on Farms

Between 45 and 50 per cent of the wheat produced in Gray county is still in the grower's hands. Only 110 cars, or about 132,000 bushels of the 1919 crop have been shipped from Cimarron.

Kansas Poultrymen Win Premiums

Local poultry breeders of Manhattan and vicinity won 18 premiums at the recent Nebraska state poultry show held in Lincoln. Five breeders entered exhibits representing six varieties.

Fewer Cattle Being Wintered

The personal property valuation of Lyon county will be $500,000 less than usual when the assessor makes his rounds next month. This is because so few stock cattle are being wintered in the county.

Bull Kills Farmer

Ernest Thieman of Lincoln, Kan., was killed last week by a vicious bull. The animal attacked him while he was feeding his stock and gored him so badly that he died within a few minutes after the bull was driven away.

Hauled Wheat 148 Miles

A wheat grower of Haskell county hauled a motor truck load of wheat 148 miles to Turon, Reno county, and delivered it to the Farmers' Union elevator. The car shortage in Southwest Kansas made it impossible to move the wheat except by truck.

Farm Bureau Drive Successful

Eight hundred new members were added to the farm bureau of Jackson county in the membership campaign made January 20 to 23. Snow and bad weather retarded the work and prevented the goal of 1,000 members being reached. Fifteen farmers from outside the county assisted in the canvass.

Farmers Oppose Militarism

Farmers' Union Local No. 1884 of Shawnee county recently passed resolutions requesting Kansas representatives in Congress to vote against the Kahn bill providing for universal military training, and pledge themselves to vote and work for candidates for Congress who will indicate by their votes their opposition to militarism.

Grain Elevator Accounting

Department of Agriculture Bulletin No. 811, entitled "A Bookkeeping System for Grain Elevators," prepared by the United States Bureau of Markets, is now ready for distribution. This publication should be of interest to all country elevator operators who wish to improve their accounting systems and to accountants who serve elevator companies. It presents a standard method of recording the business which has been perfected thru years of study and observation.

Shawnee County Farmers Meet

Almost 200 farmers and their wives were in attendance at the annual meeting of the Shawnee county farm bureau held in the Chamber of Commerce rooms January 24. Reports were made on various projects of the last year, including the livestock work, potato demonstrations, home nursing school, boys' and girls' club work and hot lunches in rural schools. Shawnee county boys and girls made a record in their fair winnings for club work.

F. D. Farrell, dean of agriculture of the Kansas State Agricultural college, spoke on the human machinery of agricultural progress. He put this into two classes, agencies for gathering accurate agricultural information and those having to do with making it useful, such as the farm bureau organizations and others.

Ralph Snyder told of the federation of the county farm bureaus into a state bureau and the state bureaus into a national bureau. It was voted to affiliate with the Kansas State bureau, raising the annual county membership fee to $2.50.

F. O. Blecha, county agent, and Irene Taylor, home agent, have given excellent satisfaction and were employed for another year.

Import Danish Butter

Several thousand casks of Danish butter arrived in the United States recently and more is to follow. The butter is of a quality which is demanded by the most critical trade. It is light in color, sweet and creamy in flavor, mild in aroma, very light in salt and waxy and firm in body. As long as the market value and the exchange rate favor the United States market, the competition of Danish butter may be expected. The increased production of butter in Siberia, New Zealand and particularly in Argentine are notable developments of the war.

Bridge Patent Decision

In the United States Circuit Court of Appeals at St. Louis, Daniel B. Luten was again defeated in his effort to collect royalties for every concrete bridge built in Kansas. Back in 1912 the state of Kansas backed up some of the counties in refusing to pay Luten royalties for his alleged patent. The case has gone thru several courts, each time against Luten. It is possible Luten's attorneys will carry the case to the United States Supreme Court.

Specialists Teaching Pruning

About 20 farmers attended each of two orchard meetings near Berryton last week to have pruning and insect control methods demonstrated to them by E. G. Kelly, orchard specialist. Mr. Kelly spent the whole week in Shawnee county. Members of a class in agriculture from the Topeka high school were shown methods of pruning fruit trees at one of the meetings. At Watson Grange hall the orchard renovation work constituted a feature of the farmers' institute program.

Where the Trouble Was

"You don't seem to care for my speech on economics," said Senator Sorghum.

"Not exactly," replied the statistician.

"What's the trouble with it?"

"Overproduction of phraseology and shortage of ideas."—Washington Star.

SOMETHING DIFFERENT

A Farm Paper Edited on a Farm

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

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

Making Income Tax Return

If you have been making an inventory each year and keeping books on your farm business, it will be an easy matter to make out your income tax statement. The forms for making the returns have been distributed from the office of W. H. L. Pepperell, Wichita, internal revenue collector for Kansas. If you made a return for last year, you have probably received a blank by mail. Blanks can be obtained at many banks and post offices. If your net income for the year 1919 exceeds $5,000, the return will be made on form 1040; for taxable incomes of $5,000 or less the return will be made on form 1040A; a special form 1040F Schedule of Farm Incomes and Expenses, is necessary in reporting a farm income, whether you operate your own farm or rent it out on shares. This is to be attached to the other blank and the net farm income as shown transferred to the proper line of the return.

Time Expires March 15

The time for filing returns and making the first payment expires at midnight March 15. If you are married and have an income of $2,000 or more, including income of wife and minor children, you must make a return, even tho no tax may be due after personal exemptions have been deducted. A single person must make a return if the income is $1,000 or more. A widow or widower or a man or woman living apart from wife or husband is classed as a single person.

The income tax obligation rests squarely on the shoulders of every American citizen or resident of the United States, whether a citizen or not. Uncle Sam is not going to come around to collect the tax or tell you how much you are to pay. Every person is in duty bound to figure out for himself with such help as he may get from his banker or the revenue officer sent to the county, the amount of his income, and if any tax is due pay at least one-fourth of the amount with the return. The form contains instructions for preparing and filing returns and a work sheet is attached upon which to make the original computations, the figures to be afterward transferred to the regular return blank and sworn to by the person making the return.

Deduct Personal Exemptions

After the net income has been calculated the married person living with wife or husband, December 31, 1919, is permitted to deduct a personal exemption of $2,000 and $200 for each dependent person in the family under 18, or mentally or physically defective. The single person may deduct a personal exemption of $1,000 and $200 for each dependent under 18 or mentally or physically defective. The normal rate of tax is 4 per cent on the first $4,000 above the exemptions and 8 per cent on the remaining net income.

Figuring Farm Income

In figuring out gross income include all the money you received during the year 1919 from the sale or exchange of stock, crops, wood, produce or anything raised on the farm. If you bought farm produce from another farmer and resold it you must include the profits under gross income.

The value of farm products is not considered taxable income until reduced to cash or the equivalent of cash. If crops produced by you in 1918 were sold in 1919, the amount received therefor is to be returned under gross income in your 1919 return. The value of crops and stock produced in 1919 and on hand December 31 of that year need not be considered, but should be included in your return for the year in which they are sold.

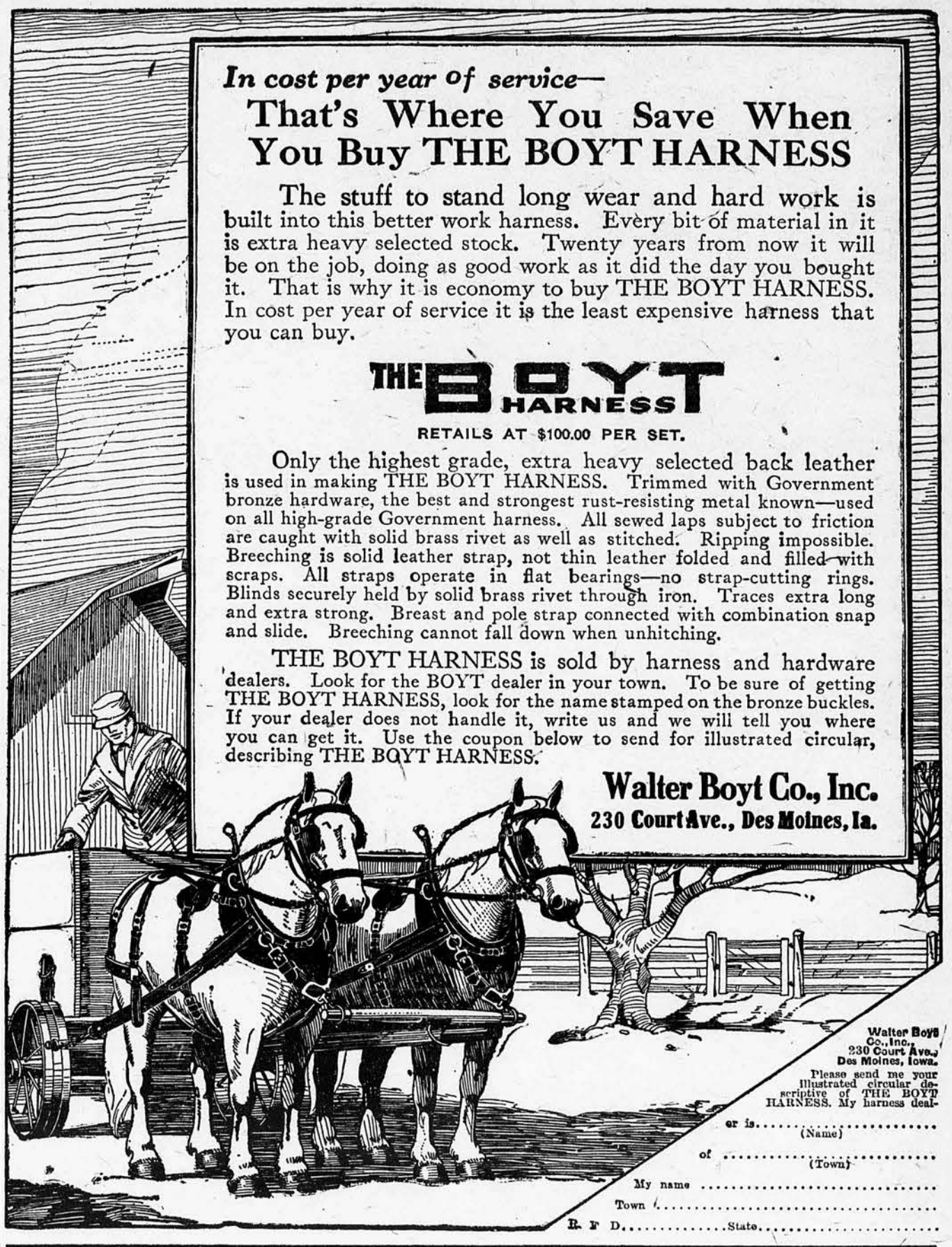
If you exchanged farm products for groceries, merchandise, you must include the value of such merchandise in your return of gross income.

Business Expenses Deductible

"Net income," upon which the tax is assessed, is gross income less certain deductions provided for by the act. These include all business, but not personal or living expenses. In computing net income the farmer may deduct the amount paid for labor in preparing his land for the crop and for its cultivation, harvesting and marketing.

The cost of feed, seed, and fertilizer used are also deductible items. The cost of stock purchased for resale may

(Continued on Page 31.)



In cost per year of service—

That's Where You Save When You Buy THE BOYT HARNESS

The stuff to stand long wear and hard work is built into this better work harness. Every bit of material in it is extra heavy selected stock. Twenty years from now it will be on the job, doing as good work as it did the day you bought it. That is why it is economy to buy THE BOYT HARNESS. In cost per year of service it is the least expensive harness that you can buy.

THE BOYT HARNESS

RETAILS AT $100.00 PER SET.

Only the highest grade, extra heavy selected back leather is used in making THE BOYT HARNESS. Trimmed with Government bronze hardware, the best and strongest rust-resisting metal known—used on all high-grade Government harness. All sewed laps subject to friction are caught with solid brass rivet as well as stitched. Ripping impossible. Breeching is solid leather strap, not thin leather folded and filled with scraps. All straps operate in flat bearings—no strap-cutting rings. Blinds securely held by solid brass rivet through iron. Traces extra long and extra strong. Breast and pole strap connected with combination snap and slide. Breeching cannot fall down when unhitching.

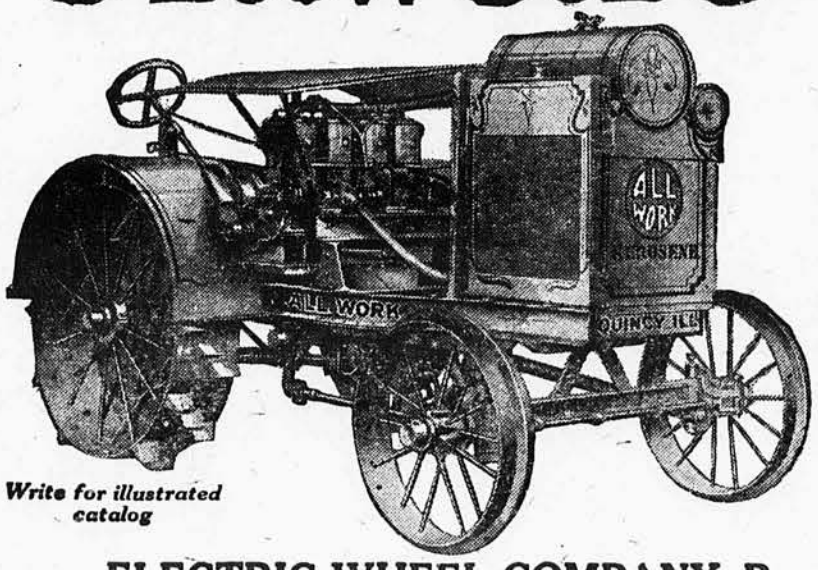
THE BOYT HARNESS is sold by harness and hardware dealers. Look for the BOYT dealer in your town. To be sure of getting THE BOYT HARNESS, look for the name stamped on the bronze buckles. If your dealer does not handle it, write us and we will tell you where you can get it. Use the coupon below to send for illustrated circular, describing THE BOYT HARNESS.

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

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

Please send me your Illustrated circular descriptive of THE BOYT HARNESS. My harness dealer is.....
(Name)
of .....
(Town)
My name .....
Town .....
R. F. D.....State.....

Allwork KEROSENE TRACTORS



Write for illustrated catalog

Wonderful Power Built Into This Light Tractor

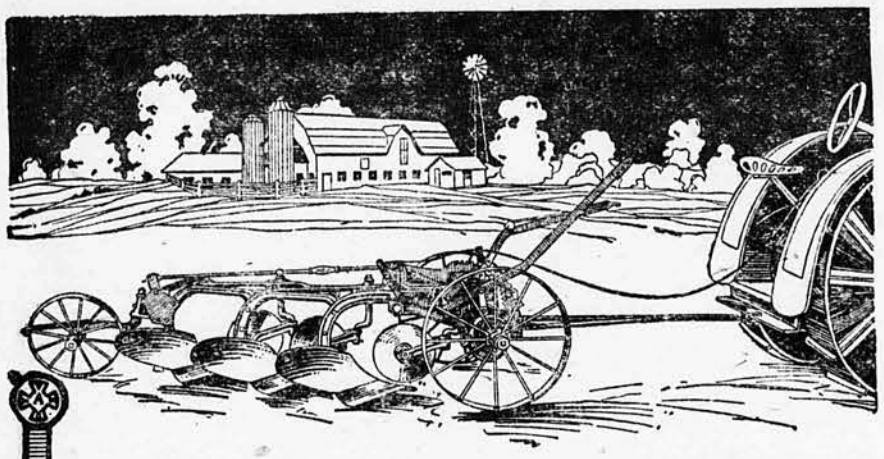
For All Kinds of Field and Belt Work

HERE is a lightweight tractor with a big four-cylinder 5 x 6 motor which gives you a substantial margin of reserve power for pulling three plows easily through the toughest kind of soil. The *Allwork* also furnishes sufficient belt power for a 24-in. separator, 16-in. ensilage cutter, etc.

Guaranteed to Burn Kerosene Successfully

This reliable tractor is a safe investment which will pay you big returns, and its excellent past performance insures satisfactory service and long life. During the six years the *Allwork* Tractor has been in actual use on thousands of farms in all parts of the country, it has retained the same sturdy design, while numerous improvements and refinements have been added from time to time, most of them being prompted by the farmers using this tractor.

ELECTRIC WHEEL COMPANY, Box 30A, Quincy, Illinois



Four Essentials in a Tractor Plow

First—A safe margin of strength in all parts subject to strain, because you can't afford delays when every hour is worth a two-dollar bill.

Second—Simplicity and strength in the power lift device, because delicate or complicated mechanism here is likely to go wrong under the stress of hard plowing.

Third—Convenience of handling, because of loss of time in running a tractor outfit runs into money rapidly.

Fourth—Plenty of clearance between plow bottoms and between front bottom and furrow wheel, to avoid clogging when plowing deeply in trashy or straw-covered fields.

B. F. Avery Tractor Plows

excel in all these respects. Axles, beams, beam braces and coulter stems are of extra size. Power lift device consists of a strong, simple clutch mounted on the furrow axle and directly connected with furrow lever—no chains or sprockets. The wheel box forms the moving part of the clutch, reducing the number of wearing parts.

Only one lever to adjust to change depth of plowing and this can be done without stopping the tractor.

Call on the B. F. Avery dealer and examine this plow.

FOUNDED 1825 **B.F.AVERY** AND SONS INCORPORATED 1877

LOUISVILLE, KENTUCKY

"I'll Tell the World"
says the Good Judge

The man who doesn't chew this class of tobacco is not getting real satisfaction out of his chewing.



A *small* chew. It holds its rich taste. You don't have to take so many fresh chews. Any man who uses the Real Tobacco Chew will tell you that.

Put Up In Two Styles

RIGHT CUT is a short-cut tobacco

W-B CUT is a long fine-cut tobacco

Weyman-Bruton Company, 1107 Broadway, New York City

Farming in Western Kansas

WHETHER mule-footed hogs are as susceptible to cholera as other hogs is a question that has been brought up by many letters received at the Fort Hays Experiment station recently. Hog cholera is a germ disease and the best authorities agree that no particular breed of hogs is less susceptible than others. It is safer to buy hog cholera serum and have it administered, making your hogs immune, than it is to take chances on the immunity of any breed. Even if this breed were more immune than other breeds the few that would be lost in a cholera infested section would pay many times the cost of the serum treatment.

Ellis County Boys Win

Ellis county boys and girls won $214 on their exhibits at the various fairs last fall. Besides this, half the championship exhibit of sorghums at the International Soil Products Show at Kansas City was furnished by the Ellis county clubs. These clubs were organized a few years ago with Louis Christenson as promoter of the project and the Fort Hays Experiment station furnishing seed and instructions free. Mr Christenson secured the assistance of L. E. Willoughby, district agricultural agent, last year, and the clubs had 150 active members. Next year will, no doubt, show a greater growth and better exhibits at the Golden Belt Fair, at Hutchinson, at Wichita and other big shows.

Besides winning these prizes three of the boys will be sent, with all expenses paid, to the Farm and Home Week of the Kansas State Agricultural college, February 2 to 7. The following are the winners who will enjoy this free trip: Edward Schrant, Walker; Tony Roth, Pfeifer, and Anthony D. Wassinger, Jr., Schoenchen.

Alfalfa Pays Well

Growing Alfalfa in Western Kansas is the title of Circular No. 73, of the Fort Hays Experiment station. Calls for this circular during the last few months indicate great interest in increasing the acreage of alfalfa in Western Kansas during the coming spring. In this bulletin Charles R. Weeks, superintendent of the Fort Hays Experiment station, details in the light of his experience with 350 acres of alfalfa on the station farm the methods of getting a stand of alfalfa that have proved successful for Western Kansas. There are thousands of acres in Western Kansas that should be planted to alfalfa as soon as the land can be prepared properly and the season is right. Alfalfa on the station farm has yielded the highest average acre profit of any crop. Circular No. 73 may be obtained free on application to the Fort Hays Experiment station, Hays, Kan.

Cowpeas in Western Kansas

Several years of careful investigation of various kinds of cowpeas at the Fort Hays Experiment station have given negative results. The average yield for the last five years was .78 ton of hay and 1.9 bushels of peas where the crop was not fenced and .59 ton of hay and 6.68 bushels of peas where the plots were fenced away from the rabbits. Grasshoppers work on cowpeas as much as on other legumes and some insect infested nearly all the pods of cowpeas in the field in 1918, destroying the seeds as they formed. Therefore, there does not seem to be any use of raising cowpeas in the vicinity of Hays or westward when one considers the low yields obtained, the high cost of seed and the difficulty of handling the crop.

Feeding Horses

The shortage of wheat pasture due to a slow growth last fall is bringing the problem of feeding horses to the front. Plenty of straw piles, many no doubt containing some wheat, are helping out and on many wheat farms this is all the horses are getting. Many farmers grew sorghums and this feed is used to supplement the wheat pasture and straw.

Horses being worked in the saddle should be fed oats or rolled barley. An occasional handful of linseed meal in the feed is good for work horses. Sudan grass has proved to be an excellent feed for horses at the Fort Hays Experiment station. It is less dusty and much cheaper to grow than alfalfa.

From Southwestern Kansas

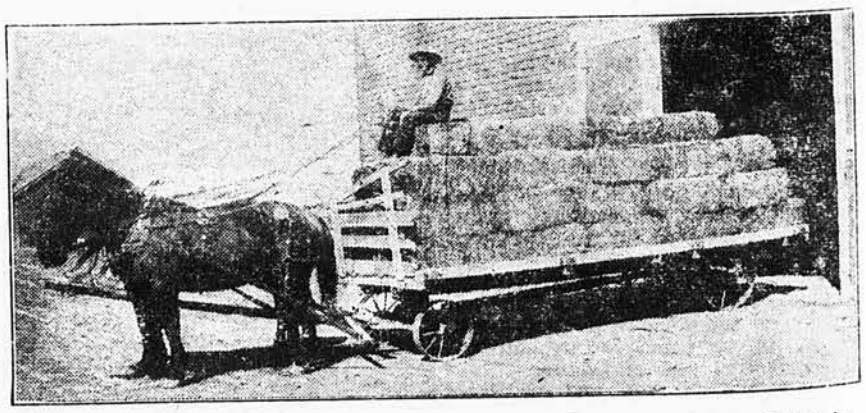
I am in need of some information and this county has no farm agent so I'm writing to you. I have just come from the East and I know I can't farm here as I did there. I have a quarter of "tight" land 20 miles Northeast of Elkhart. What crops should I try and what would be the best methods of culture? What breeds of hogs, cattle and chickens do best? What are the best methods of feeding and caring for farm animals here?

Your success in Western Kansas agriculture is half won when you recognize the necessity of not farming here as you did in the East. You are too far West to depend on winter wheat as your main money crop but you can give it a small place in your cropping system. Your chief reliance must be on the grain sorghums, broomcorn and livestock. The grain sorghums during the past years have yielded 15.2 bushels at Hays while corn yielded less than 6 bushels. You can count on grain sorghums such as kafir, feterita and milo producing you a money grain crop as well as roughage that can be marketed thru your cattle.

Livestock will give you a salable product during the months when you have nothing else to sell. On a farm the size of yours use dairy cattle, or if you can rent range nearby, use beef cattle. Chickens will work into your grain sorghum farming nicely, but go slow on the hogs except for your own use. Broomcorn has produced a good profit in your county and you would do well to study that crop. Visit the most successful farmers of your section and find out how they succeeded.

Protein and Prices

Cottonseed cake is becoming more popular every year as a stock food in Western Kansas. The high price of cake this year is tempting many men to buy low-grade cake. This usually is false economy because the weight that is not protein and oil consists of cottonseed hulls which are of practically the same feeding value as straw. A farmer in Western Kansas cannot afford to pay freight from Texas or Oklahoma on material that is no better than straw. He has plenty in his own fields. We buy the cake for its protein. It is, therefore, well to study the value



Alfalfa is the Most Profitable General Field Crop on the Lower Land in Western Kansas; the Acreage Should be Increased Greatly.

of cake on the basis of protein guaranteed. If you divide the cost by the guaranteeed percentage of protein in every case it will be easy to discover which furnished you the cheapest protein.

For example 45 per cent cake at $90 a ton would make your protein cost you 2 cents a pound. Low-grade cake testing 30 per cent to be of equal value would then have to sell at $60 a ton. But in the first place you are paying freight on only 550 pounds of non-protein material to the 1,000 pounds while with the low-grade cake you have to pay freight on 700 pounds of non-protein material for every half ton.

Galloway Men to Meet

E. E. Frizell of Larned, the newly elected president of the Galloway Association of America, has issued a call for a meeting of all Galloway breeders April 9 at the Fort Hays Experiment station. This will be the day before the seventh annual Round-up. Hundreds of stockmen from all over Western Kansas come to Hays every year in April to hear the reports of the season's livestock experiments and to verify the results with their own eyes.

Good Yields With Sorghums

L. L. Wheatcroft of Utica, Kan., reports that his Dwarf straight-necked yellow milo yielded 30 bushels an acre last year. This is another argument for grain sorghums in Western Kansas.

Making Income Tax Return

(Continued from Page 29.)

be deducted if the proceeds from such sales are returned as income.

The cost of minor repairs to the barn and other farm buildings, but not the dwelling, may be deducted, and also the cost of repairs to farm machinery and fences. The cost of materials for immediate use and farm tools which are used up in the course of a year or two, such as binding twine, stock powders, spades, etc., also may be claimed.

The cost of farm machinery such as a tractor or threshing machine represents "capital investment," and as such is not an allowable deduction. There may be claimed a reasonable allowance for depreciation of farm buildings other than the dwelling, farm machinery, work horses, and work wagons, and stock purchased for breeding purposes. No depreciation on stock raised or purchased for resale is allowed.

The farmer may deduct taxes paid or accrued during the year 1919 except income taxes and taxes assessed against local benefits of a kind tending to improve the value of the property. Losses sustained from fire or other casualty, or from theft, may be claimed if not compensated for by insurance. If a farmer in 1919 sustained a loss in any transaction entered into for profit, outside of his farming interests, he may claim the amount as a deduction. Such deduction was not allowed under the preceding act.

Debts ascertained to be worthless and charged off within the year may be deducted.

Pay in Installments

If the taxpayer desires he may pay the tax in full at the time of filing the return, or in four installments, the first of which is due on or before March 15, the second on or before June 15, the third on or before September 15, and the fourth on or before December 15. For failure to file an income tax return on time the penalty is a fine of $1,000 and an additional assessment of 25 per cent of the amount due.

For "wilfully refusing" to make a return and pay the tax within the time prescribed, the penalty is a fine of not more than $10,000 or one year's imprisonment, or both. A similar penalty is provided for making a false or fraudulent return together with an added assessment of 50 per cent of the amount due. The penalty for failing to pay the tax when due is a fine of not more than $1,000 and an added assessment of 5 per cent of the unpaid amount, plus 1 per cent interest for each full month during which it remains unpaid.

She (to dentist lover)—"Mother will not believe that I come here about my teeth so often."

He—"I will send her a bill tomorrow."—Boston Transcript.



Guaranteed in Writing to Burn Kerosene Under All Conditions

The OilPull Fuel System -another Proof of OilPull Quality

WHAT are the reasons behind the remarkable 10-year OilPull record of performance?

One of these reasons is to be found in the OilPull fuel system—it is the most efficient and economical fuel system yet devised for tractor use.

This system, patented and owned by the Advance-Rumely Company, enables the OilPull to operate on all grades of kerosene, under all conditions and at all loads to its full rated brake horsepower. But more than that—the Company absolutely *guarantees this in writing*—with no reservations and with no time limit.

But the success of the OilPull as a cheap fuel tractor is due to more than just its carburetor or the details of its fuel system. The successful oil burning tractor must be made, not "made over." A converted gasoline motor does not make an economical kerosene burning tractor.

The method of handling kerosene necessitates entirely different construction of the entire machine. The OilPull was originally designed and is built from the ground up to use kerosene for fuel—the motor, carburetor, cooling system—every part is built especially for that purpose.

The result is that no matter whether the OilPull is being used in drawbar or belt work, running at full load or light load, in wet weather or dry, coldest winter or hottest summer, any time, any place—cheap kerosene, is its fuel.

The OilPull has proved time and time again in public contests, its ability to plow an acre *at the lowest cost* and to use the *least fuel per horsepower*. Not one of the 15,000 OilPull owners but who will attest to the satisfaction and superiority of the OilPull as a cheap fuel burner.

And this OilPull oil fuel system merely typifies the high quality of OilPull construction throughout—is but one of the many reasons why thinking farmers place full cofidence in the ability of the OilPull to give them dependable, economical service.

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The Green Ledger	Miss M. E. Braddon
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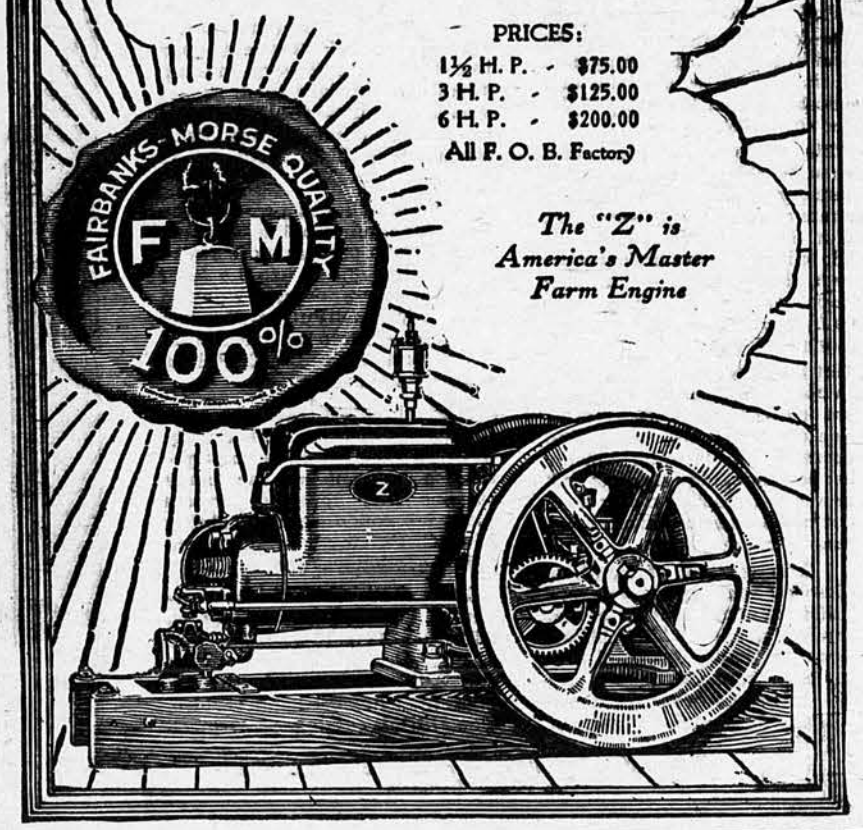
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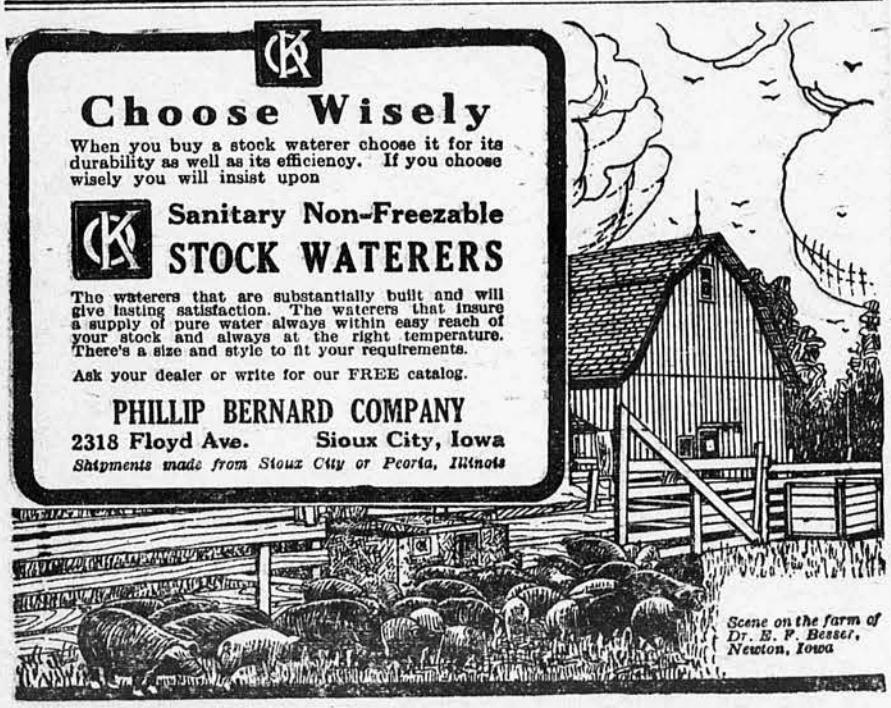
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Scene on the farm of Dr. E. F. Besser, Newton, Iowa

Rural Engineering Hints

By C. E. Jablow

WINTER will soon be gone and farmers will be busy with their spring work. Plowing, harrowing, and seeding must proceed at a rapid pace when once the work is started. It will be a good plan now to look all the farm machinery over carefully and make all the needed repairs. Broken parts and any new machinery or other equipment that will be needed should be ordered now. Don't wait until the last moment to make these preparations. The gas engine, the tractor, planters and drills all should be overhauled now.

Repairing Cylinders in Engines

Prof. F. W. Knipe, of the Iowa State Agricultural college, makes the following suggestions for repairing the cylinders of gas engines and tractors: "There is a misconception on the part of many persons," says Mr. Knipe, "that once a gas engine cylinder water jacket is cracked, it has been damaged beyond repair. Such is not the case. Of course cracks should be avoided and in 99 per cent of cases they can be avoided. However, if a crack does occur, don't discard the cylinder for it can be repaired and made as good as new right at home.

"The cylinder proper of an engine is rarely cracked, breaking taking place usually in the outside water jacket. There are four distinct ways in which repairs may be made, namely: First, by welding or brazing; secondly, by rusting; thirdly, by cementing;; fourthly, by sewing. A crack in a cylinder is similar to a tear in a pair of trousers—unless stopped it will tend to tear further. Therefore stop it first. This is accomplished by drilling a small hole at each end of the crack, tapping it out and putting in a stud bolt. Then cut the bolt off flush with the jacket, and thus effectually stop further cracking.

"The first method of repairing, namely by welding or brazing, cannot be accomplished on the farm. Therefore it will not be discussed here further than to say that it is a very satisfactory method when done by an expert welder.

"The second and third methods, namely rusting and cementing, are more or less makeshifts which do occasionally give fairly good results. Only very small cracks can be rusted. This is done by filling the water jacket with a solution of salammoniac and water in proportions of 1 pound of salammoniac to 1 gallon of water. As soon as this seeps thru the crack, drain the water jacket and flush with clean water but do not permit the clean water to remain in the jacket. After a few days the crack will have rusted completely shut. If the solution of salammoniac is permitted to remain in the jacket it will rust everything it comes in contact with which is undesirable. To cement a crack shut ordinary iron cement is used. This may be bought at any hardware store. A V-shaped seam is made the entire length of the crack and the iron cement forced into it. Over this seam is placed an iron band which is securely fastened to the jacket by means of studs screwed into those holes made to stop further tearing of the crack.

The fourth and possibly the best method of repairing a crack at home is to sew it. This is accomplished in a similar way to repairing a torn piece of cloth. Beginning just above the top of the crack, drill a hole, probably ⅜ of an inch in diameter, tap it out or thread it, and screw into it a stud bolt of the proper size. Cut this stud off flush with the jacket. Then drill another hole in the crack but slightly overlapping the first plug put in. Thread this, screw in another stud bolt and cut it off flush. Drill a third hole slightly overlapping the second, thread, screw in the stud and cut off flush with the jacket. Continue this performance, following the crack, until it is completely sewed or plugged up with the stud bolts.

"This is not a difficult task, much easier than dismantling the engine and taking it to town for a jobber to weld. The whole performance may be completed in two or three hours and costs very little while a trip to town with the cylinder and the accompanying delay may result in two or three days without tractor service right in the rush season. Further, a jobber will charge at least $5 for the job."

Sometimes in using the tractor we notice a considerable loss of power, or the engine seems to start with difficulty, and when operating runs rather sluggishly. There is a leak somewhere and the compressed gas seems to be getting away before it is burned. "To find the trouble," says Prof. H. J. Metcalf, of the Iowa State Agricultural college, "there are three possible sources that should be investigated: 1. Leaky valves. 2. Worn, broken or sticking piston rings. 3. A leaking cylinder head gasket.

Turn the engine over slowly, paying close attention to the strength required in the compression stroke for each cylinder. When operating correctly, there will be very little, if any, difference. Note the one that seems to turn the easiest and then examine it more closely to see what is causing the trouble. If the cylinders are cast together there is no need to pay much attention to leaky gasket unless all of the cylinders seem to have lost their compression. In that case, however, the trouble may be a leaky gasket.

"More often the trouble lies in leaky valves or badly worn piston rings. The exhaust valve always causes the most trouble and I would look at it first. The hot gases that are forced past it on the exhaust stroke, heat it to an extremely high temperature. A small piece of hard carbon or grit lodging under the valve may start it leaking. Even if the carbon or grit may not be found there when investigated, if it should remain there long enough for the hot gases to pass thru several times, a rough spot will be formed on the valve cap or seat, making it impossible for the valve spring to draw the valve down to a tight seat.

"It pays to keep the valves in good condition. To grind a valve is not a difficult job if done before the damage has gone too far. Every engine presents a difficult means of getting at the valves, on some a tap is removed from directly over the valve, which when removed leaves the valves open for grinding. In others, the valves are in cages, or in the cylinder head, while still others are found in the engine block itself and are uncovered when the cylinder head is removed. Regardless of the accessibility of the valves, the job of grinding them is not at all difficult.

How to Grind a Valve

To grind a valve, remove the valve spring, taking care not to bend or spring the stem and clean both the valve and the seat with kerosene. When the valve is out, scrape off all accumulation of soot and carbon from the cap and the stem, making sure that the valve works freely in the guide. If it binds, examine it for a spring stem. This is done by rolling it along on a smooth surface. If it shows to be warped ever so little, the best thing to do is to replace the valve with a new one. A warped valve stem is a nuisance.

Valve grinding compounds may be purchased at a garage or shop where gas engine work is done. Use the compound sparingly and make sure that it works only between the valve and the valve seat.

"Put the valve in place and using a carpenter's brace and a large screw driver bit, turn the valve a half revolution and back again 15 or 20 times and then lift the valve from the seat, turn it around and repeat the operation until the valve sets evenly.

"The dark spots found on the valve and the seat are the places where they are not touching. We must continue to grind until these spots are gone. In grinding valves, do not make complete revolutions, as making complete turns will have a tendency to cut rings completely around the valve or the valve seat, causing more trouble rather than helping things.

"While the engine is in the shop, it is a good time to look after the piston

rings. Pull out the pistons and clean all of the carbon and gummed oil out of the grooves with kerosene. If the rings are badly worn near the slit, compression is leaking out here also. Replace broken or badly worn rings with new ones. An engine that is difficult to start because of a loss of compression, may be started more easily if a little lubricating oil is poured in on top of the piston to help hold the compression."

Notes on Farm Poultry

Sometimes a few artificial nest eggs seem to help induce pullets to lay in the nests instead of in the litter on the floor. We cannot see that old hens are much influenced by artificial eggs, but the pullets do seem to be encouraged to use a nest which always contains at least one egg.

Now is the time to plan on the hatching egg business and order boxes or baskets in which to ship them. The boxes can be assembled now and it will save time next spring when other duties are pressing. Placing the advertising early seems to land enough orders to more than pay for it, and the advance orders are of great value in helping the poultryman to plan his business.

Overhaul the incubators and brooders and order any necessary repair parts. Chicks need their brooder at once when they leave the incubator and delays in operating it increase the mortality rate of the chicks.

A colony-house covered with roofing paper is a fine asset to the poultryman with a stove brooder, suggests a writer in the Ohio Farmer. It makes a winning combination for raising early-hatched chicks. We use all our colony-houses for stove brooders in the spring, and when the brooders are removed portable roosts are installed and the houses are used for growing the stock until fall. In this way a small investment answers for many purposes. Sometimes the colony-houses can be used thru the winter for special breeding pens.

Last year it seemed as if coal was too expensive for use in brooding chicks. We used oil-burning brooders in most of the colony-houses, but this year we are going to use both coal and oil, especially in the early spring when the coal fire is hard to beat if it is properly managed. Later in the year the oil brooders seem a little the best as they can be turned off on hot days and started in the evening in a short time.

If hatching eggs are needed to obtain new blood for the flock it will pay best to order them early and obtain early chicks. Last year we bought some expensive eggs at half-price after June first in the interests of economy. We wish now we had purchased half as many eggs in March or April so the stock hatched from those eggs would be more mature and more valuable for breeding purposes at this time.

About April first many breeders become greatly interested in chicks and then desire their hatching eggs promptly shipped by return mail. By placing the orders early they are usually able to get them at the desired time in the spring. If the orders are delayed until the breeder has sold many eggs in advance of their production it may mean a long wait for the eggs and a flock of late-hatched chicks.

When a few eggs are ordered to obtain cockerels for the farm flock it is especially necessary to order them early so the cockerels will have a long growing season and be fully mature and in the best condition for breeding early the following spring.

If only chickens are raised on the farm, why not vary the poultry menu on the home farm by growing a small flock of turkeys, ducks, geese or guineas? At this season there is an abundance of purebred breeding stock for sale and good birds can be purchased in pairs or trios for a moderate sum. Turkeys will often prove successful on clean soil where none have been raised for several years. Guineas are great foragers and collect many bugs and beetles to add to their ration. Ducks and geese can be economically produced where there is waste land or a small body of water. All of them make the most appetizing meals on the farm and help to make the farmer independent of his local market.

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This test gives to Essex proof of the greatest factor in motor car economy. Light cars are notable principally for their economy in saving of gasoline, oil and tires. These qualities Essex has revealed from the first. But real economy must also include freedom from repairs and mechanical attention—all costly items.

So what greater proof of Essex economy could be asked than its new world endurance mark.

5869 Miles in 94 Hours 22 Minutes Driving Time

These tests were not made to establish speed records. Two trials were made before the 50-hour run was completed. So, in all, the Essex went 5,869 miles in 94 hours, 22 minutes driving time, averaging more than a mile a minute. Sleet stopped one, after 27 hours, 58 minutes, and 1790 miles. Snow halted a second, three days later, after 16 hours 25 minutes and 1042 miles. The third, begun the next day, went the full 50 hours. These tests were made under American Automobile Association observation on the Cincinnati Speedway.

Think what they mean. The average car is driven little more than 5,000 miles in a season. The average driving speed is probably 25 miles an hour. The Essex went more than a mile a minute for 5,869 miles.

You might expect that a car of its weight would require frequent mechanical attention. But there was no need for that in the Essex.

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(124)



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Jayhawker's Farm Notes

By Harley Hatch

AT THIS writing, January 24, the ground is covered with an ice coating. I do not think it thick enough to kill the wheat but there is one thing certain, it is not going to help it any. As the winter proceeds it becomes more and more evident that wheat is not gaining; on the contrary, I think it would score less than it did last December. I do not think any wheat has been killed so far but it is thin on the ground and does not look thrifty. A favorable spring could work wonders with wheat but the coming three months will have to be more than commonly favorable if we raise a crop equal to the average of the last few years.

A Farm Sale

I was at a farm sale yesterday, which is the first one I have attended since last fall. It was a small affair and the stock was in very poor shape while the remains sold under the name of farm machinery were fit only for the junk man. A hay rake, which I don't think had been used more than three or four years was in such condition that it sold for $1. About that time I lost interest in the machinery and followed no farther down the line but I surmise that the rake was about the highest priced article sold.

Sheep in Demand

The few cattle sold for all they were worth for they showed plainly that good feed had been a stranger to them for many a day. Luckily sheep, like chickens, have their bony structures well covered so they looked fairly well and sold for a fair price. One lot of 16 sheep brought a few cents more than $16 each while another lot of 19 head brought $11 each. Sheep have been doing well in this locality for a number of years; it was formerly a theory that our heavy soil and occasional wet seasons would not be good for sheep but that theory has been routed by practice; sheep thrive here and at present prices are the most profitable of any farm animals unless it be mules. The horses sold looked like the "hind wheels of misery" and the owner apologized for their condition by saying that they had run in the corral all winter. The auctioneer continued the tale by saying, "And there wasn't anything there but the corral, either."

Early Sown Oats are Best

I have noted that the earliest sown oats are always the best here, other things being equal. We used to think that it was not safe to sow before March 1 here but have come to the conclusion that the safe sowing date should be set forward to February 20. At any rate, if conditions are right for oats sowing here this spring on February 20 we shall begin operations. I often have seen oats sown during a warm spell the last of February, and then just as they had sprouted, there would come a severe freeze but I never have seen them harmed by such conditions except on one occasion. In 1898 a hard freeze about March 10 thinned our oats somewhat but at that time we did not sow with a drill. The oats were sown broadcast and were then disked and harrowed in. The oats that were growing on the ridge where the corn stood were partly killed but those in the middle escaped. I have seen as severe a freeze on drilled oats since then and no harm resulted.

The Tractor and the Disk

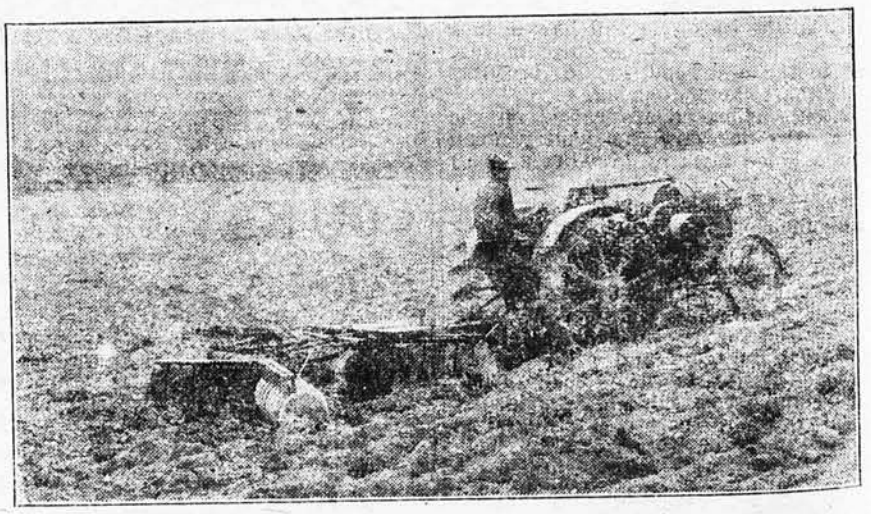
We gave in our order this week for a tandem disk to be pulled by the tractor. A disk of this kind has weight and does good work; when operated once over the field it leaves plowed land in garden condition if a two-section harrow is trailed behind. We intend to rig up our disk in such a way as to have a harrow pulled behind. The disk cuts 8 feet wide while a two-section harrow takes 11 feet. After going once over the field with this outfit I will disk the ground twice, and also will harrow most of it twice. Such a rig ought to put fall plowing in good condition for oats with one trip and we plan to start the drill right behind the disk this year instead of waiting for the old horse-drawn disk to make two trips over the field and then finish with the harrow.

About Growing Rape

I have a letter from a Saline county friend who refers to the advice I gave a Saline county farmer in this column about two weeks ago regarding sowing rape for hog pasture. I advised him to sow a patch of low lying, rich ground to rape and our friend writes that in a 20 years' residence in Saline county he has never seen a good rape hog pasture in either Saline or any of the adjoining counties. This would seem to settle the matter and it goes to show how easily one may err in making plans for another locality. In this county such land as was described by our Saline county inquirer would raise the best of rape and it is hard to see why it will not do so in Saline county. I have noticed that rape does best here in a moderately dry season, for in our soil hogs do more damage by tramping the heavy land in a wet time than dry weather does. Here rape will stop all growth and stand, during the last part of a dry summer and then, as soon as fall rains come, it will put out new leaves and provide pasture which is most keenly relished by hogs. Evidently the reason rape does well here on low, rich soil and does not do well in Saline county on the same soil is not so much a matter of climate as it is of soil. Perhaps our heavy soil is better suited to rape than the lighter, looser soil of Saline county.

Alfalfa and Sudan Grass

Our Saline county friend also puts a very high valuation on Sudan grass for hog pasture. I surmise that he may be going just a little too far in putting it above alfalfa. I should hesitate to do so without a long series of tests. Sudan grass is a cousin of sorghum and sorghum has no value as a legume. It will supply green matter and keep the hogs regulated but it will not take the place of clover, alfalfa or rape as a pasture for hogs. However if none of these plants are successful in Saline county, why, of course, the next best thing to do is to raise Sudan grass.



This Year We Plan to Use Our Tractor for a Number of Different Kinds of Work Such as Disking and Harrowing the Ground for Spring Crops.

Down here, in Coffey county I don't see much use for Sudan grass; we have plenty of hay, for most farms will raise alfalfa and the acreage of native grass is still large. For forage I think it is generally conceded here that the best practice is to raise it as a by-product of some grain crop. We formerly raised a large acreage of sorghum in this county as a fodder crop alone but a field of sowed sorghum is seldom seen now. I can well believe that Sudan grass is a splendid crop for any section where hay is scarce and moisture not plentiful but it isn't needed much in Coffey or adjoining counties.

Co-operative Farm Associations

One of the things of which it seems necessary to warn many newly started co-operative associations is not to draw too heavily on the profits in order to declare large dividends. A number of such associations have made good profits in this locality during the past year and I am glad to see that nearly all recognize the wisdom of having a surplus fund to fall back on. A very conservative invoicing is also a wise plan. It may cut down the apparent profits for the year but, when we consider what the coming year may hold for us in the way of business conditions, a low invoice value at this time may be a great help later. A man in close touch with a great deal of co-operative business says that one of the grave faults he has found is a tendency to draw too largely on the profits in order to make a big showing of dividends. It is just as necessary to make the main capital safe as it is to show a profit and there is nothing that puts backbone into any business like a substantial surplus. Now don't get the idea that I am predicting calamity; I am merely trying to show that in a time like this it is wise to play safe, when it can be done as easily as to go to the other extreme.

Sprouting Oats

BY F. E. MUSSEHL

Green feed for winter feeding is one of the essentials for winter egg production. Sprouted oats is one of the best of the easily available feeds and may be readily prepared with no expensive equipment.

Good heavy oats are soaked in water for 24 hours in candy pails or lard tubs. The water is then drained off and the oats are covered with a burlap sack. In about 24 hours the oats will begin to sprout and in the germinating process quite a bit of heat is developed which will cause the sprouting to proceed even more rapidly.

The candy pails or lard tubs should be about half full of oats at the time sprouting begins and from this time on, the oats should be turned from one pail to another twice a day to avoid overheating. The oats will be ready for feeding after the fifth or sixth day and as much may be fed as the hens will eat up clean in a 10 minute feeding period. Noon-time seems to be the best time to feed the sprouted oats.

Stirring the oats in the manner suggested tends to grow roots as well as top shoots and makes a very palatable feed, more palatable in fact, than is obtained when the oats are left to mat and grow green. Oats may be sprouted in a relatively cool room by following the suggestions outlined, and the equipment necessary to sprout oats for 200 hens should not cost more than $1 at the most.

Keep a Variety of Poultry

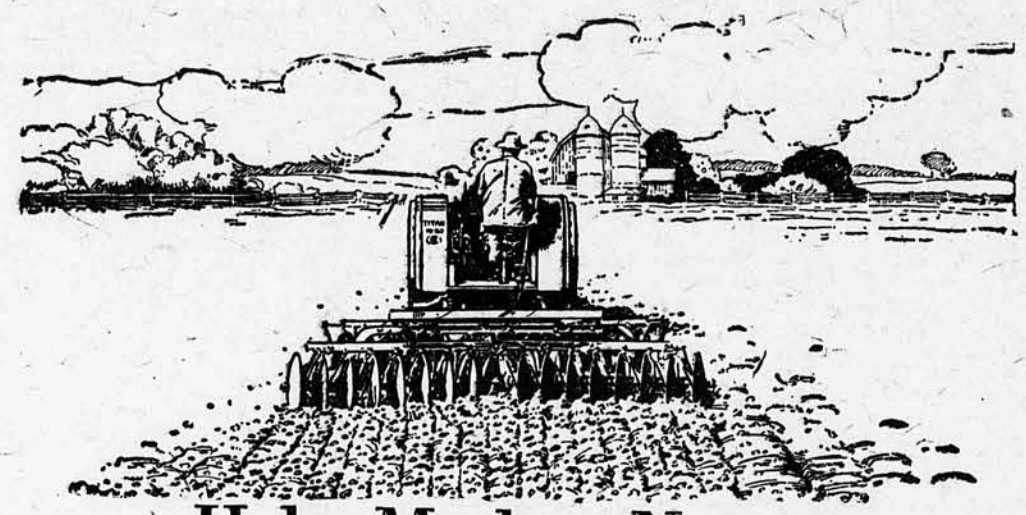
BY BRIANT SANDO

It pays to diversify the chicken raising just as it does general farming, and keep turkeys, ducks or geese as well as chickens. They are raised easily and are very profitable.

The value of turkeys is proved by the high prices that prevail every holiday season. There is money in having a good turkey crop, and no one who has a good range should be without a few of these valuable birds.

Geese, in addition to their market value, are profitable for their feathers, which can readily be sold at a good price or a fine feather bed can be made from their feathers by their owner.

Ducks are easy to raise, are good layers and sell readily at almost any age. The young ones can readily be marketed when 10 weeks old, or held until fall and fattened for roasting.



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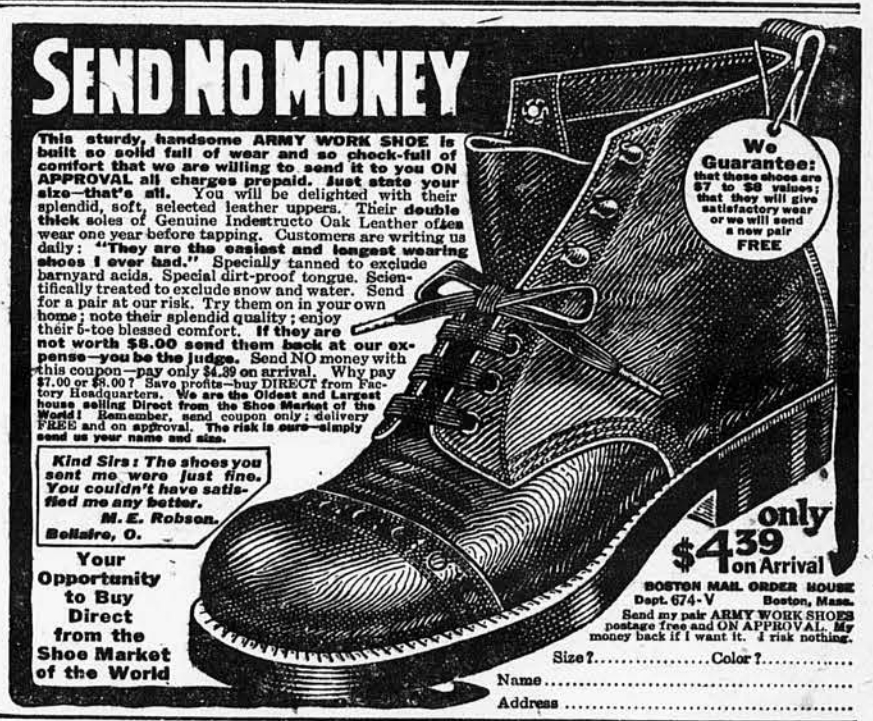


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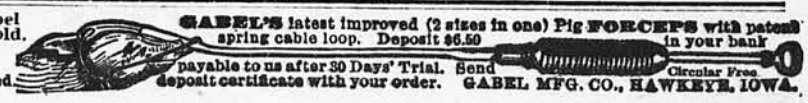
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8-32- 6	8	32	6	For example	8.25	.47	.53
9-39-12	9	39	12	8-32-6	7.25	.41½	.47
9-39- 6	9	39	6	3 inches, 3½, 3½,	9.25	.53	.59½
10-47-12	10	47	12	4½, 5¾, 6, 6	8.00	.45½	.51½
10-47- 6	10	47	6		10.25	.58½	.66
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H 7-26-12	7	26	12	Spacing between	9.90	.55	.64
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Health in the Family

BY DR. CHARLES H. LERRIGO

INFLUENZA is with us again in epidemic form. So far it does not show the malignant features of last year. Let us hope they will remain absent. But influenza is bad enough at best.

It is only a few weeks ago that I gave you a page of influenza advice. Let me repeat a few of the main heads. Avoid crowds in general and the spitting, sneezing person in particular. Keep yourself "fit" by having nourishing food, plenty of sleep, exercise in the open air and warm clothing.

If attacked, "Go to bed" at the first symptom. Do not resume work until thoroly well. A week "saved" in convalescence may cost you 10 years of your life. There is no prescription for influenza so good as "rest in bed."

Influenza is subject to quarantine. Carry the quarantine so far as to keep the patient away from all contact with others of the family except the nurse. In nursing a case protect yourself. Do not fear influenza, but respect it mightily.

Answers to Questions

Your questions will be answered in this department without charge. This service is maintained for your benefit, and Dr. Lerrigo will be glad to give you advice upon any matter that you may desire to consult him about.

Partial Deafness

I have been reading your advice to others and wish you to pass your opinion on my case. I had the measles, when 12 years old and took cold and had a relapse. This fever settled in my head but never bothered my hearing any till about 10 years ago. I am 48 years old now. I believe I have catarrh of the head also. Then seven years ago last October I lost my left arm, four inches below the elbow, in a corn shredder. Up to this time I could hear anyone at the back end of school house. That year I could hear the ordinary conversation all over the school room, but I could see my hearing gradually was leaving me. Two years ago I quit the work on this account, and since then it gradually has been getting worse. Would my arm being amputated have any effect on my hearing? My arm hurts all the time where they tied up the cords and leaders. G. A.

I am sorry to have to say that the medical profession has made little advance in the cure of deafness. Most deafness of gradual development is due to middle ear catarrh. The delicate little bones of the middle ear become stiffened, the drum becomes thickened and dead, and the sound waves are no longer conducted altho the auditory nerve may be just as keen as ever.

I think that in years to come some clever aurist will devise an operation by which hearing may be restored in such cases, the nerve being normal.

Since you lost hearing so rapidly at the time of your accident I think it was because the shock impaired your nervous system. Any treatment that gives you rest and builds up your system is calculated to give some little improvement to your hearing but it will not be very much.

Under the circumstances I do not think that you would be justified in spending much money on an ear specialist, but it is certainly worth while to have one thoro examination.

Skin Trouble

I am bothered with my hands peeling off about twice a year and become sore and tender. Is this called tetter and how can it be cured? A READER.

The medical name for your trouble is dermatitis exfoliativa. Occasionally it affects patients so badly that the skin peels from almost the entire body. There is some poisonous condition of the body as the cause of this. See that the excretions from bowels and kidneys are normal. Avoid any habits that could be depressing and wearing. Bring your general health up to the top notch.

Treatment for Rheumatism

Will you please tell whether there is a cure for rheumatism, and give the diet. What should be eaten, also what not to eat and oblige your readers. MRS. M. J. M.

Cures for rheumatism differ with every different case. Persons do not have rheumatism as often as of old. Now we know that the pains that used to be classed as rheumatism are often due to poisoning from some focus of infection in the body such as a diseased liver or appendix or even abscesses of teeth.

The idea was prevalent that rheumatic people should eat no meat. We say rather that they should eat nothing in excess, but follow a well-balanced diet of nourishing food.

Blackheads and Pimples

I would like to know how to get rid of blackheads and pimples. I have them for about three-fourths of a year and have a lot of them. What do they come from and mention some good remedies that are sure to cure them. J. G.

Blackheads and pimples are a very common ailment of young people from 15 to 25.

Blackheads are sometimes known as "skin worms," but as a matter of fact they are not worms at all, but are formed of a little plug of oily matter known as "sebum."

The cure is to take good care of the skin and encourage in it a vigorous circulation. Constipation may not cause the trouble but certainly aggravates it, so every victim should make special effort to encourage a regular normal evacuation of the bowels daily. Indigestible foods must be avoided. An improvement is obtained by reducing sweetstuffs and meat.

Daily bathing of the entire body with water as cool as can be borne, followed by a brisk rub with a dry towel, putting into it sufficient vigor to bring the skin to a glow, will do more to cure the trouble than any one thing.

When the blackheads come the face should be treated with hot applications and the plugs of sebum squeezed out by pressure around them with something like an old fashioned watch-key or hair pin. Doctors sometimes get very good results by injecting vaccines.

Strained Wrist

I have got a strained wrist and I can't use it very well, and it was hurt by cranking the tractor. I have to work all the time and it is hard work, too. I will try anything that will do my wrist any good. Tell me what to do. C. G.

You must remember that your arm is worth at least $5,000 to you. Treat it like something valuable. Don't try to keep on working. See a good physician. It is quite likely that you have a fracture instead of a strain. Find out for sure, and if it is a "green-stick" fracture, or any other kind, be sure to get it properly set.

Reducing Goiter

I am sixteen years old and have a very bad case of goiter which I have had a long time. What can I do? B. S.

Goiter of the simple kind can sometimes be successfully reduced by the injection of medicines. The exopthalmic variety which affects eyes and heart is not helped by the injection method. It may need surgical operation.

Mrs. W. A. E.: Have you had this lump in your side examined lately? It is not likely to be cancer, but it may be an abscess if you have had chronic appendicitis. You will readily understand that it is quite impossible to decide such a thing by mail.

Do not neglect it. Insist upon your doctor making a definite diagnosis.

Suffering One: The directions that you wish, while perfectly proper, are not such as can be printed in a family paper.

If you will send me an addressed and stamped envelope I will try to answer your questions.

Joining the Church

Two negroes were out under shell fire. The shells were coming over at a lively rate. Finally one landed perilously near, and the older man said to his buddie: "See heah, Jim, doan you all think it's high time you jined de church?"

The other whispered back: "G'wan away fum heah, Jackson, Ah dun jine de church wen dat fust shell cum over."—American Legion Weekly.

Poultry Disease Control

BY F. E. MUSSEHL

Poultry keeping is not unlike other lines of livestock production in that the maintenance of good health and vigor is the first essential for satisfactory profits. Disease in the poultry flock always means loss whether the bird recovers or not for no bird can make gains in weight or lay eggs when out of condition—vigor and health are the first essentials.

Preventive measures to control the spread of disease are especially important with poultry because the small size of the animal makes it comparatively expensive to spend time doctoring the individual and the conditions of practical poultry management under which birds are kept in rather large flocks makes it easy for a contagious disease to spread.

Doctoring May Not Pay

We always take a great risk in having a so called cured bird in our flocks since such birds may be carriers of a disease for a long time after they are apparently again in normal condition. But preventive measures always pay and especial stress should be put on them. Of greatest importance in this direction is the selection of good vigorous breeding stock. We firmly believe that our poultry disease troubles could be cut in half if more attention were paid to the selection of vigorous and active breeding stock, both male and female.

Next only in importance to the selection of healthy breeding stock is clean feeding and hygienic management. Since many birds drink from the same drinking fountain, clean water and clean vessels are very important. In the face of possible danger from the spread of an infection it may be advisable to add disinfectants to the water. One of the best disinfectants for this purpose is potassium permanganate. The following suggestions for its use are made. Get a small amount of the potassium permanganate crystals and place about a tablespoon of it in a small bottle holding 1 quart capacity, adding about 1 pint of water. This will give us a concentrated solution. Add just enough of this concentrated solution to the drinking water to give it a dark red color. The responsibility for a great deal of the digestive trouble with poultry may be traced to the use of musty, mouldy feeds. The use of poor feeds is always poor economy but especially so with poultry where so much depends on the maintenance of health and vigor.

Good Disinfectants

The regular use of a good disinfectant to spray the walls and roosts and for washing the drinking fountains is especially recommended. A 2 per cent solution of zenoleum, creolin, creosote or similar distillate by-products are very useful for general disinfection.

Let us not forget in recommending good disinfectants to mention pure and unadulterated sunlight. Nothing is cheaper and fewer disinfectants are more effective. Its value should surely be taken into account when the new poultry house is built or the old one remodeled.

Isolate Ailing Birds

The final suggestion for the control of poultry diseases is that all indisposed birds be quarantined as soon as their condition is noted. The most effective control method is to remove all well birds as soon as a communicable disease is noted in the flock. In this way birds are removed from quarters which may be a source of further infection.

When the removal of well birds is not practicable the immediate separation of all sick birds and the establishment of quarantine quarters is suggested. A small colony house or isolated pen of some kind must be available for quarantine purposes or in many instances the disease will run thru the entire flock.

In conclusion we must suggest that an ever watchful eye be trained for the early observance of any disease outbreak. As "the eye of the master fattenth his cattle," so the same eye will keep the poultry flock in good health.

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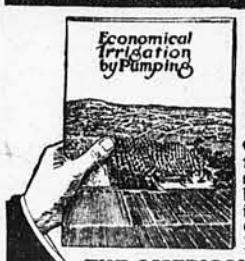
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at our risk. Return if not satisfied. $1000 offered for a lamp its equal. Write today for trial offer, learn how to get **YOURS FREE**

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Largest Coal-oil Mantle Lamp House in the World

How to Increase Your Crops And save them from drought every year.



THIS BOOK TELLS HOW

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Contains a lot of useful information and shows how irrigation by pumping greatly increases and insures Crops, especially POTATOES.

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General Office & Works: Dept. 18, Aurora, Ill.
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ONE MAN CAN RUN IT!

DO YOUR OWN CEMENT WORK WITH A LITTLE WHIRLWIND CONCRETE MIXER



Hand and power, the size you need at a price you'd like. Work done in one-fifth the time. Built of all steel and iron like the $500 mixers but simpler. **The Leader of Little Mixers.** Perfect work in any class of mixing. Empties Clean. Batch of about 3 cubic ft. a minute. Only practical mixer for farmer or contractor. Satisfaction guaranteed or Money refunded. Write for circulars or order from this advertisement to avoid delay.

THE LITTLE WHIRLWIND MIXER CO.
424 Gould St. LA CROSSE, WIS.

8 MEN CAN'T STICK IT

10 Patriotic Cards 10c We will send 10 lovely colored post cards postpaid for 10 cents in stamps or silver.
NOVELTY HOUSE, Dept. 20, Topeka, Kan.



Entertain Your Friends

Whether you want to sing or dance with your friends or whether you want to furnish music for some special event—you will find the Straube Player equal to the occasion.

With a Straube Player in your home you are fully prepared at all times to furnish an evening's entertainment at a moment's notice.

The Straube Player is always ready to play and anybody can play it. The songs your friends love best as well as the latest dance songs can be reproduced on your Straube. Words of songs are printed on the rolls for you to sing—always before your eyes.

The Straube Melo-Harp offers an unusual range of musical entertainment. It is first of all a player of highest quality and finest tone. Then there's the pneumatically controlled Melo-Harp which enables you to combine the melody of the harp with the tone of the piano.

Play your favorite selections yourself at the Straube dealer's store.

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Music in the Home Puts Sunshine in the Heart

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TENOR BANJO Ukulele, Hawaiian Guitar, Violin, Mandolin, Guitar, Cornet or Banjo

Wonderful new system of teaching note music by mail. To first pupils in each locality, we give a $20 superb Violin, Mandolin, Ukulele, Guitar, Hawaiin Guitar, Cornet, Tenor Banjo or Banjo absolutely free. Very small charge for lessons only. We guarantee success or no charge. Complete outfit free. Write now. No obligation.
SLINGERLAND SCHOOL OF MUSIC, Inc. Dept. 128 CHICAGO, ILL.

Don't Send a Cent



So sure are we that you will say these most comfortable and good wearing shoes are a big bargain that we will send them without a cent in advance. Send coupon. Shoes will be sent by return prepaid mail. Pay postman $4.60 on arrival. If you are not entirely satisfied on arrival return shoes and your money including return postage will be refunded.

SEND COUPON
We guarantee a saving of $2 a pair or your money back including return postage. Remember don't send a cent with order. Pay postman on arrival. Send now before you forget.

MEN'S EXTRA DURABLE WORK SHOE

Made in dark brown only, on U. S. Army Munson last, adopted by Government because it proved so comfortable for our boys over there. Only solid leather is used. Needs no breaking in. Made of solid leather specially treated, to stand hard wear. Blucher style. Dustproof bellows Tongue. Reinforced shank, krome elkskin uppers, (not split leather). Will dry soft after being wet. Solid leather broad heels. Krome Elk Soles, special tannage which makes them twice as durable. Will outwear 2 oak leather soles. Sizes 6 to 12. Widths, Medium, Wide, Extra Wide. Pay postman $4.60 on arrival. If not satisfied on arrival return shoes, and money, including return postage, will be refunded at once. *Use Coupon Now*

FIFTH AVE. BARGAIN HOUSE, Dept. C.N.175, N.Y.
Send shoes advertised. I will pay postman $4.60 on arrival. If not entirely satisfied, I will return shoes and you will refund my money, including return postage.
Size.....Width.....Style No. 393
Name.....
Address.....

A Source of Strength

Science reveals that cod-liver oil is a fruitful source of vitamins and that its use helps a child grow normally.

Scott's Emulsion

made of the richest and purest *Norwegian* cod-liver oil, never fails in its mission to nourish and strengthen. *Let the children have a plenitude of Scott's.*



Scott & Bowne, Bloomfield, N. J. 19-44

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FOREMOST AMONG BETTER GRINDERS
Crush and grind all the grains that grow; fine for hogs or coarser for cattle feeding. Corn in husk, Head Kafirs, and all small grains.
Strength, Durability and Service radiate from every line of these Masterful Grinders. Simple but effective in adjustment.
LIGHT RUNNING—LONG LIFE—EXTRA CAPACITY
CONE-SHAPED BURRS
10 sizes—2 to 25 H. P. or more. Also Sweep Mills. It pays well to investigate. Catalog FREE.
The N. F. Bowsher Co., South Bend, Ind.
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1225 W. 11th St., Kansas City, Mo.

For Our Young Readers

Grow Pussy Willows and Buy Pussy Willow Silk

BY FLORENCE L. SNOW
Douglas County



IF YOU would have a beautiful late winter bouquet go out now and cut some willow shoots. Some boys and girls begin forcing pussy willows in water as early as the middle of December, selecting the shoots that show the tiny buds that seem impatient for springtime. The middle of January is somewhat better for the first experiment, and of course any time later than that gives quicker results because the buds are further along.

Cut the shoots with a sharp knife or shears 18 inches or 2 feet long, and put them into a glass jar if you wish to watch the tiny white rootlets too. But some persons think an earthen jar is better as the roots are stronger in the dark. Your bouquet will be very lovely from start to finish in a wide-mouthed brown Rookwood vase. if you happen to have one. The fine soft tones of this beautiful American pottery are just the thing for the delicate browns and reds, grays and greens and yellows of the pussy stems and pods and blossoms. Whatever your container, be sure to keep plenty of water for your magic willow wands to drink.

Everyone loves to do all this for pleasure, but have you thought that this charming work could be done in such a way as to bring you money returns?

One Kansas woman who loves her flowers "as if they were children" is planning to do this. She lives in rather a large town and has a good many friends who come to her for the "pussies" for decoration because they are "so Japanese" and so full of the first breath of spring. They can be grown much more cheaply than flowers and yet bring her good returns. She knows a good many boys and girls who will be glad to help her, and she intends to plant a whole vacant lot to the willows, taking the slips from her one big tree. The tree is of the common variety which grows very rapidly, and the thicket will be a new kind, grown in rows so the pussies may be gathered easily.

Meantime she will force many more bouquets in her windows while the thicket is growing, and when she can begin cutting the shoots from the young trees, she hopes to have such a good business all ready and waiting that she can dress herself in the beautiful silk known as "pussy-willow taffeta." She says she has no patent on her idea, and would be only too glad to see other people earning pussy-willow clothing too. If you do not live far from town you could find a ready market for pussy willow bouquets. A vase of them used as a centerpiece would add charm to any dining table, and the woman who is to be hostess to a group of friends would welcome the opportunity to purchase such decorations.

Leavenworth Girls are Winners

The Bread Club girls of Leavenworth county have done their part to keep the bread box filled and to help mother feed the family. Sometimes mother has been almost too busy to help Mary with her baking and has thought it would be easier to do it herself, but when Mary learned how to do the family baking mother was glad to turn it over to her.

Eleven girls have baked 245 bakings of bread or 1,529 loaves, besides 102 bakings of biscuits and muffins, 15 bakings of cookies, 25 cakes and 66 pies, and one girl has prepared 56 extra dishes.

The bread club work includes good times as well as hard work. A bread demonstration team of three girls was trained during the summer and they made a trip to the fair at Topeka in September where they competed with similar teams from other counties and won a prize of $35. The girls also exhibited bread at Topeka and one club won the bread club honors which is a prize of $25 offered to the bread club in the state making the best exhibit as a club. Besides these prizes, the club girls won $11.50 in individual prizes on their exhibits at Topeka and Hutchinson. The prize of $25 was used to pay the expenses of two delegates to the Farm and Home Week program at Manhattan, February 2 to 7. The J. C. Lyle Milling company also gave $25 to pay the expenses of one or more girls to Farm and Home Week at Manhattan.

An Automatic Bird Feeder

A unique, economical and efficient feeding appliance for the winter birds is the invention of Edward Avis of Enfield, Conn. Mr. Avis is the well-known "bird mimic" who has delighted thousands of audiences with his wonderful art of bird-song imitation.

The device is simple, practical and highly recommended. It may be constructed as follows, says a writer for Our Dumb Animals: Bore a hole 8 inches deep, 2½ inches in diameter into one end of a smooth-barked log, at least 4 by 14 inches in size. With a 1-inch auger bore four holes, two on each side and about 3 inches apart, slanting a little downward from the outside to the large cavity. Fill a common quart milk bottle with hemp, rape or sunflower seed, finely chopped suet or scraps, and insert the inverted bottle into the log. Care should be taken that the neck of the bottle shall fit tightly so as to exclude all rain.

Fasten the feeder securely to a tree trunk or tall post. The birds will soon find their way to the food, and the appliance will serve them automatically as long as there is a supply in the bottle. The woodpeckers, nuthatches, chickadees, titmice and brown creepers, will be able to cling to the smooth bark and take the food from the openings, but the English sparrow lacks this accomplishment and therefore will be precluded from the feast.

Letters to a Farm Boy

(This is the second of the series of letters written by Mr. Case to a farm boy. In it will be found encouragement for the youth whose home does not offer advantages. It will also be an inspiration to the boy whose parents have planned big things for his future.)

Dear Robert—I am glad that you enjoyed my letter and that you wish for more. Sometimes it is easier to write the things that are in our hearts than to say them when we are face to face. American men are strange creatures. How often have I sung the praises of your good father when with other men and yet I do not recall saying any of these things to him. Yet because we do not fall upon each other's necks is no indication that we

do not feel deeply. The strong handclasp of an American may mean more than the fervid embrace of the men of a more emotional race.

I was talking, I believe, about the foundation upon which success must be built. Integrity is one of the most essential stones. No greater heritage could be bequeathed to you than the good name which your grandfather and your father bear. In the "good old days" it was an uncommon thing for a man who stood high in the community to give a written pledge for money borrowed. Even in this age of commercialism one frequently may find a man whose "word is as good as his bond," and whose unsecured note will be taken for many dollars more than it is really worth. The tomorrow tho, Robert, with all its glorious promise will demand more of men than heretofore. Integrity will be even a greater asset for the world is filled with scheming and dishonest men. Treasure this heritage for it will mean much to you.

Integrity, however, is not always inborn. Some of the greatest scoundrels have been sons of honest parents. Some of the greatest men, too, were sons of parents whose lives had been misspent. These are exceptions but no boy whose home life is not what he should wish it to be should be discouraged. Success may be won and the winning will be all the sweeter because of the upward climb. Ask your father to tell you the story of Little Jim Haynes, whom we both knew well. Jim's father was a ne'er-do-well who filled a drunkard's grave. His mother was a slatternly scold who cared little for her children or herself. And yet, reared in poverty, Jim worked his way thru high school and then went on to the college of agriculture where he not only supported himself but by working long hours every night earned money to send back home.

Little Jim Haynes today owns 160 acres of good land, has a good wife and a fine boy to call him "dad." The old-timers tell me that Jim is a "throwback" to Great-grandfather Haynes, who was a community leader in the long ago. That may be true but the easy way would have been to follow in the footsteps of his dad. But to his own boy Jim Haynes will bequeath much more than that 160 acres of fertile soil. He will leave him an honored name, a name that has been wiped clean of the stain that shadowed it more than half a century.

What will the third stone in your foundation be? A very homely stone, Robert, but a most essential one. Without it no man goes far. So until you hear from me again, goodbye.

Sincerely your friend,
John Francis Case.

HOW CAN YOU TELL A GIRL OF THE NAME OF ELLEN THAT SHE IS EVERYTHING THAT IS DELIGHTFUL IN EIGHT LETTERS?

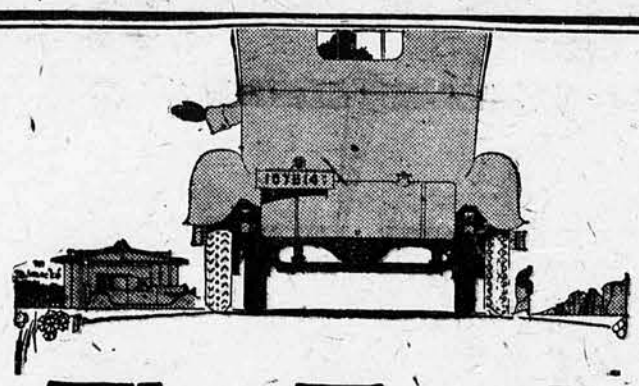
Send your answer to this puzzle to the Puzzle Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan. There will be packages of postcards for the first six boys and girls who send correct solutions. The first five letters in the answer are: U-R-A-Bu.

Solution January 24 puzzle—What is that which lives in winter, dies in summer and grows with its root upwards? An icicle. The prize winners: Jessie Joergensen, Loyd Messenger, Willie Soutag, Edward Stoppel, Marjorie Stockham, Ruth Jarvis.

Ready to Oblige

Mistress—"Now, Ada, I want you to show us what you can do tonight. We have a few very special friends coming for a musical evening."

Cook—"Well, mum, I 'aven't done any singin' to speak of for years, but as you insists upon it you can put me down for 'The 'Oly City'!"



The Truth
About Tire Mileage

How do you know that the tires you buy are the best tires you can get?

You should know. Tires differ vastly both in wear and uniformity.

You may be losing half the mileage due you.

The Extra Miles

Large tire users make comparisons. Some compare 20 makes of tires on millions of miles of road. This is done on stage lines, on taxis and on trucks.

Miller Tires are winning countless tests of this kind. And their mileage records have become the talk of Motordom.

You owe yourself a like test. Put a Miller Tire opposite the tire you are using now. Compare the service that you get. It will be a revelation.

We Never Guess

We know the results you will get. Night and day at our factory we are comparing rival tires with Millers. We wear out over 1,000 tires yearly to prove that Millers constantly excel.

Eight geared-up machines each run these tires 650 miles daily under rear-wheel conditions. Four Pierce-Arrows are driven by our men 320 miles a day. And we make constant comparisons on scores of taxis and jitneys.

We make extreme tests, using under-sized tires and heavy loads. But Miller Cords on our factory machines average 15,000 miles.

We have never found a tire which compares with Millers in the average mileage given.

Gained 50% to 75%

Green & Swett Co. of Boston say they have put Millers on hundreds of big cars which had used other makes. Mileage increased 50 per cent to 75 per cent. Blowouts were eliminated and only six tires in each thousand come back for adjustment.

They Do Not Vary

You will also find that Millers do not vary. Every tire is signed by the maker and inspector. Both are penalized if a tire comes back. So they don't let faults get through.

There are numerous large cities—like Buffalo—where not a single Miller Tire last year came back for adjustment.

We also prove daily that the tread will outlast the tire. Every lot of tread stock is vulcanized and tested in our laboratory. Not one Miller Tire built under these methods has come back with the tread gone.

So we know every day that Miller Tires will win tests when men make them. Stop guessing. Let Millers show you what new-day tires can do.

Try a Miller Tire and watch it. If you buy a new car this spring, specify Miller Tires.

THE MILLER RUBBER CO.
Akron, Ohio

Tread Patented

Center tread smooth with suction cup, for firm hold on wet asphalt. *Geared-to-the-Road* side treads, to mesh like cogs in dirt.



Miller Tires
GEARED-TO-THE-ROAD

Registered U. S. Patent Office

Specify Miller Tires on your new car if it lacks them. **Cords or Fabrics**

To dealers we offer a rare opportunity

BOYS You can earn fine premiums or cash commission by selling only 30 packs of garden seeds that grow at 10c a pack. Write today for details and premium list. **GIRLS**

NATIONAL SEED CO.,
Dept. V Lancaster, Pa.



Panama Canal Book 10c

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



STOP THAT LEAKING

of fuel and oil in your engine cylinders by using **VAPOR TIGHT PISTON RINGS**—only *two* needed to each piston. V T Rings prevent any leaking and give highest compression, getting *more work* from the engine—with *less fuel expense.*

We sell from factory to you, assuring quick delivery and *money-saving manufacturers' price.* Give cylinder diameter—and width and depth of grooves in pistons when ordering. Write for our Illustrated Circular and Price List if further information is wanted.

VAPOR TIGHT RING CO.,
Cedar and 28th Streets,
Dept. F Minneapolis, Minn.

Mother and Babe

EVERY MOTHER SHOULD HAVE THIS BOOK

Tells just what to do the instant baby is sick, before the doctor arrives. Take no chances losing baby. Every year thousands of little children suffer or die because the mother didn't know what to do. 500 pages. Fully illustrated, beautifully bound. **Only 50 cents.** Entirely new. Advice for expectant mothers and mid-wives. Send for it to-day. Money back if not satisfied. World's Medical Press, No. 642 Washington Street, Buffalo, N. Y.



Rider Agents Wanted

Everywhere to ride and exhibit the new **Ranger "Motorbike"** completely equipped with electric light and horn, carrier, stand, tool tank, coaster-brake, mud guards and anti-skid tires. **Choice of 44 other styles,** colors and sizes in the **"Ranger"** line of bicycles.

EASY PAYMENTS if desired at a small advance over our Special wholesale cash prices.

DELIVERED FREE on approval and **30 DAYS TRIAL.**

TIRES Lamps, Wheels, Sundries, and parts—at half usual prices. **SEND NO MONEY** but tell us exactly what you need. Do not buy until you get our prices, terms and the big FREE catalog.



MEAD CYCLE COMPANY
Dept. S177 Chicago

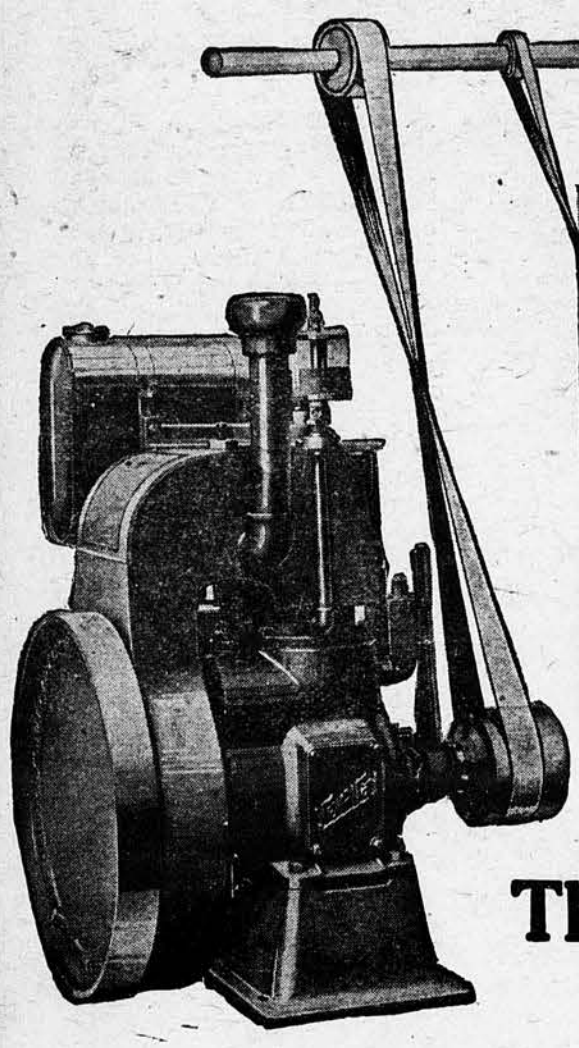
CIDER How to keep sweet, wholesome, sure aid for $1. Box 93, Boonville, Mo.

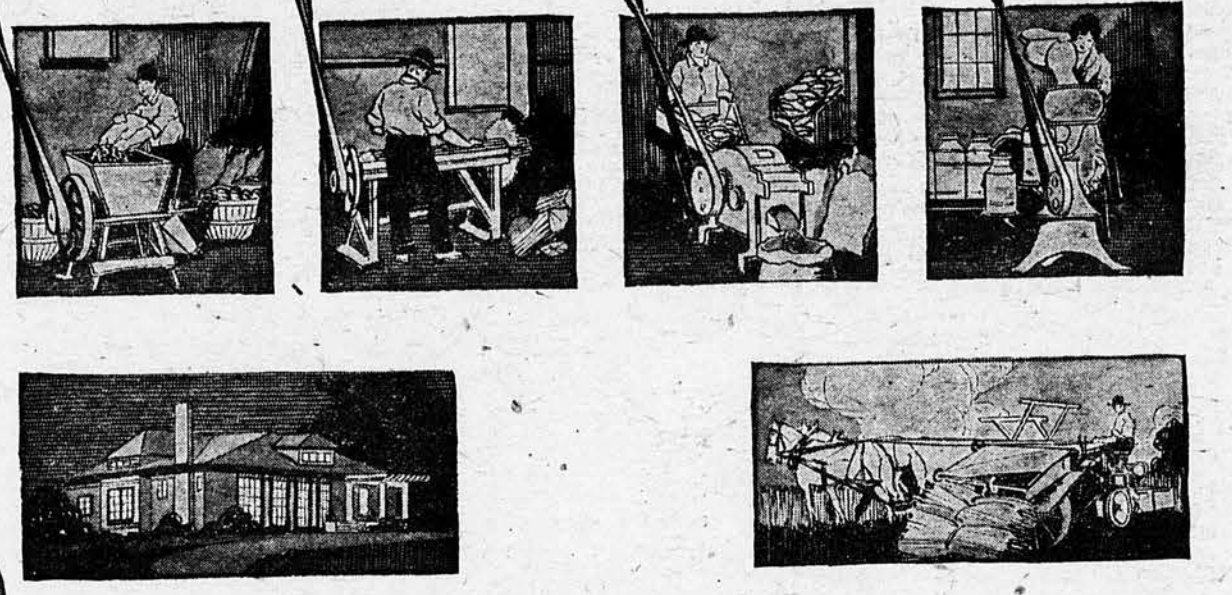
Classified Advertisements

Reach

You don't try to shoot ducks at night, so why "shoot in the dark" when you have something to buy or sell. The 125,000 readers of Kansas Farmer and Mail and Breeze fall naturally into the classes of buyers and sellers for myriads of articles. A classified ad shoots straight to the mark; it isn't a matter of luck.

Classified Buyers





At Last—

The Multi-Purpose Air-Cooled Engine that Marks a New Era

The long desired engine has arrived—the new motor that marks a new era!

Like the Liberty Motor it was approved by chosen engineers for army use during the war. It has the endorsement of our fifteen years' manufacturing leadership as the perfected new type engine that every one has longed for. It is many engines in one. Its variable power delivery gives it an extraordinary range of use—the equivalent of a whole series of styles and sizes of engines formerly required for the same purposes.

The Multi-Purpose Engine

This final "New-Way" is for all 2 to 5 horsepower requirements on the farm. It will light the place, cut the wood, grind the feed, shell the corn, pump the water, milk the cows, separate the cream, churn the butter, sharpen the tools, do the washing, and countless other things and will run the binder, spreader, potato digger, etc. There is no other farm engine on earth that has so wide a range of use—none with such a margin for surplus work.

Air-Cooled

In frozen climes or scorching tropic deserts the "New-Way" will operate continuously under the hardest heavy duty work for any length of time without the aid of water for cooling. It is the only stationary engine capable of such performance. All water nuisances have been eliminated. No freezing or bursting pipes, no boiling. No complicated cooling system. No pumps to pack. No hose to leak. No clouds of steam. The "New-Way" air cooling system has been proven absolutely ideal by many years of successful use.

The Final Engine

Its power range and surplus capacity enable this single model to meet all the requirements of 80 per cent of the engine demand and it combines in itself all the good qualities of the many models it displaces. Its superiority is so great that we have standardized our entire plant for the production of this one model. This means the highest possible quality in construction, workmanship and finish.

The Multi-Purpose, Air-Cooled "New-Way"

5 Engines in one

"New-Way" Advancements

1—Multi-Purpose
One engine for a multitude of uses. Variable power.

2—Air-Cooled
Water nuisances eliminated.

3—Surplus Power
Power for present and future requirements.

4—Bosch Magneto
Independence of battery ignition.

5—Light-weight
Portable—power where wanted.

6—Adaptability
Adaptable to any drive—any use—any fuel.

7—Dependability
Standardized perfected construction assures complete dependability.

8—Durability
Most rugged engine made. Lasts indefinitely.

9—Simplicity
Any one can operate it.

10—Automobile float-feed Carburetor
Throttle governed.

Other Great "New-Way" Features

Light Weight

The "New-Way" is the most compact and lightest-weight heavy duty engine, complete and ready to run, now made.

It delivers more horsepower for its operating weight than any other complete engine. It is so easily carried from place to place that it is absolutely the ideal all purpose farm engine.

Close Regulation

"New-Way" driven lighting plants have no "flicker" because the centrifugal ball-bearing governor prevents speed variation. All governing parts and gears are enclosed and protected from dust and dirt and run in oil baths. No other engine has these advancements.

Bosch Magneto

The "New-Way" is equipped with the famous dependable Bosch Magneto ignition so empty batteries never prevent its starting. It is independent of batteries and can be taken anywhere for any work, and its

Surplus Power

will do the work without straining the engine. Farms need more power every day. The "New-Way" has power for present and future requirements.

Adaptability

The "New-Way" is adapted to any kind of drive, direct, chain, belt or belt shaft. This feature, with its portability and variable power delivery, make it the most adaptable engine ever produced. Its variable speed, controlled by the governor, and its automobile float-feed carburetor regulate fuel consumption according to the power needed. This brings remarkable fuel economy. Burns gasoline or kerosene.

Dependability

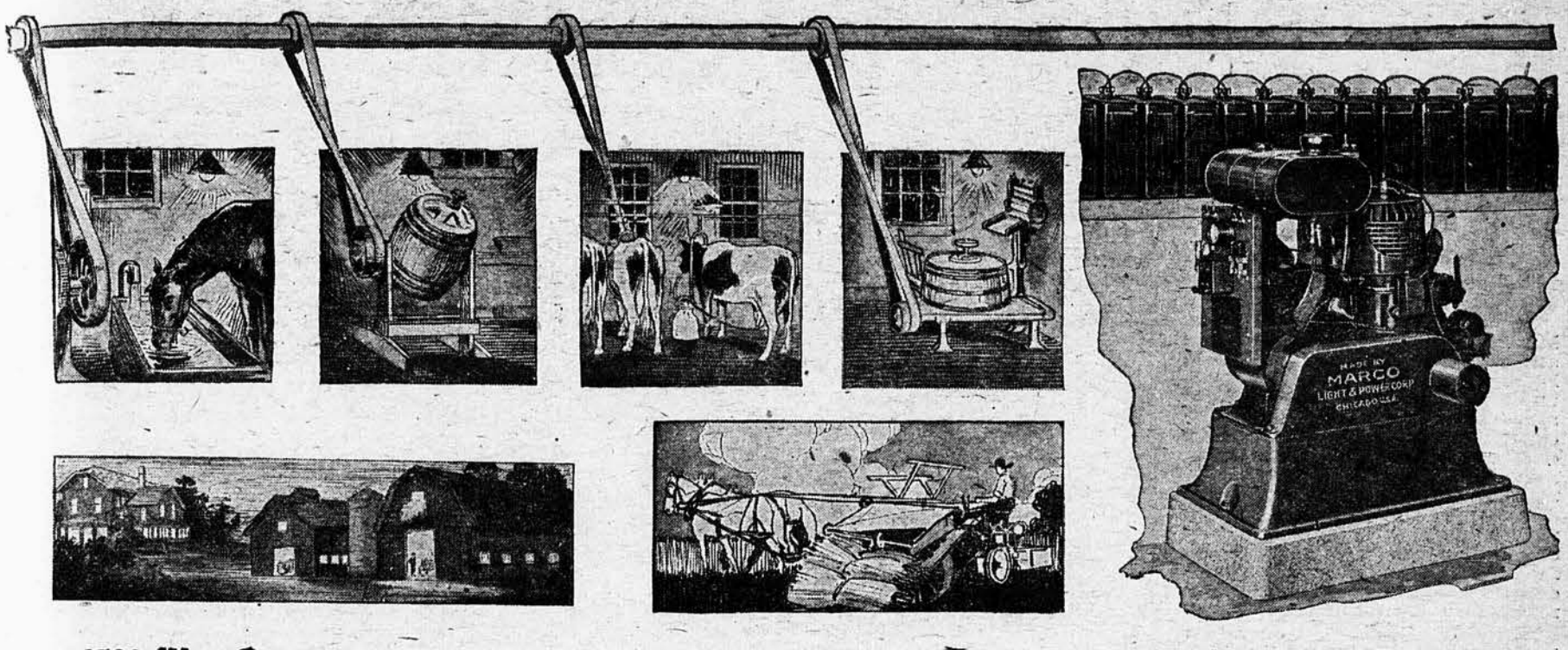
The "New-Way" is the most rugged engine made. Remember it was adopted by the U. S. Government only after the most terrific tests in comparison with other makes. It is built to stand hardship and abuse—to run under any conditions—and to deliver satisfaction year after year indefinitely. It has the features of a fine automobile or airplane engine. There is no vibration! It stands alone in quality and dependability.

Insist On "New-Way"

Whenever you buy small power farm equipment—a lighting plant, a power sprayer, binder, etc.—insist that it be equipped with a "New-Way" engine. Its value will be many times greater. The Government chose the "New-Way" for the Army's lighting plants. Get a "New-Way" on your farm. **Write for booklet** describing its superiorities and countless uses.

THE "NEW-WAY" MOTOR COMPANY
LANSING, MICHIGAN, U.S.A.

The "New-Way" Goes and Goes Right on Gasoline or Kerosene



1500-Watt Generator *5-Horsepower Engine*

The Army's BIG Electric Plant

Has Become the Nation's

Farms Everywhere Now Have this Complete Light and Power Station

The whole nation has adopted the Government's BIG electric plant. From farm to farm, from county to county, from state to state, enthusiastic farmers have spread the news of its remarkable performance. Everywhere it has proved its overwhelming superiority. Everywhere its many owners hail it as the long sought ideal farm plant — a complete light and power station for the farm.

Light and power

The Marco is the complete plant, engine and generator, that was adopted by the Government when Pershing's Army demanded a plant superior to any then known. Its development, like the Liberty Motor's, marked a sensational mechanical advancement. Its terrific official army tests, its gruelling use in actual war, its brilliant service since in all kinds of farm work, form a record that no man can doubt.

The Marco has power for everything. The big 1500 watt generator has fully double the average capacity. The Marco will operate machinery or run a line shaft and charge the batteries at the same time. It is actually a complete power station for the farm with all the surplus power the farmer really needs. Burns gasoline or kerosene.

Special "New-Way" Engine

The Marco plant has the remarkable air-cooled "New-Way" engine with special Marco features. This is the famous multi-purpose "5 engines in 1" motor whose sensational superiorities made it the Government's choice for this plant. The engine and generator are on one compact base. The light weight engine with ignition (high tension Bosch Magneto) can be removed in five minutes for field work on binder, spreader, etc. Its variable power delivery from 5 down to 2 H. P. makes its range of use extraordinary. It will light every building on the place and furnish just the power needed on minimum fuel for each job, big or little, from churning the butter to running the digger. The Marco is the most economical, the most rugged and the most dependable plant ever made.

MARCO
LIGHT & POWER
PLANT

Built First for U. S. Army

Single Base Unit
All on one base
Silent Chain Drive
Automobile principle
5 to 2 H. P. Engine
Removable for field work
in five minutes
Bosch Magneto Ignition
Self-Starter; no cranking
Automatic Charging Control
No puzzling devices
Most efficient Generator made —
double average capacity
Long life Storage Battery
Highest Grade Extra Thick Plates

Some Uses

Lights home and all farm buildings
Furnishes both mechanical and electrical power for

Pumping Water	Heating Irons
Shelling Corn	Washing Clothes
Separating Cream	Grinding Feed
Churning Butter	Sawing Wood
Washing Dishes	Running Diggers
Cleaning Rugs	Running Sprayers
Running Binders	Sharpening Tools
Running Spreaders	Shearing Sheep
Milking Cows	Clipping Stock

Built like an airplane engine

The trouble-proof dependability of the Marco is amazing. It is built like a fine automobile or airplane engine, jigged, ground and tooled to the perfection of accuracy.

The heart of the engine is the crankshaft and the Marco engine has a much larger, stronger crankshaft, as well as larger bearings. The Marco's record in actual farm service is a revelation. Farmers everywhere find their service costs are practically nothing through long continuous service.

Silent chain drive

Automobile engineers know how ruinous it is to drive engine and generator at same speed as with a direct connection. The Marco silent chain drive, as in high grade autos, is an exclusive Marco feature. It gives generator 2000 R. P. M. to slow engine speed of only 800 R. P. M. *No destructive over-speeding engine, or under-speeding generator as in direct connected type.* Long life. No belt trouble.

Throttling governor slows engine for light machine work.

Automatic control

This is one of the greatest advances in electrical mechanics. The flow of current is always under absolute control, the big, rugged, 1500 watt generator automatically tapering charging rate as batteries fill up. Over-charging, or burning out equipment is impossible. No meters, rheostats, or puzzling regulating devices. This plant is simplicity itself. Any one can operate it. Self starting.

This is the plant

Every farm will have an electric plant. That is settled. Now the question "Which plant?" has been settled also. Settled beyond question by the official U. S. Army tests of this plant and by its brilliant performance on farms everywhere. This plant has been definitely proven superior to anything known.

In its remarkable dependability, its simplicity, its extra value and its extra use it is a whole decade ahead of its time. Obviously, every one cannot secure this plant at once but those who act most quickly will. Write at once for prices and nearest dealer's name. Be sure to see this sensational plant before you decide on any.

MARCO LIGHT & POWER CORPORATION, 2430 S. Michigan Avenue, Chicago, Ill.

With the Homemakers

Stella Gertrude Nash
~EDITOR~

McPherson Homemakers are Interested in Sewing and Pressure Canners

ONE OF the most successful community schools held in McPherson county last year was that of the dressmaking school at Monitor Community Center, which was attended by 20 of the women of that locality. This school was held 10 days under the instruction of two of the specialists of the Kansas State Agricultural college. Each member of the class made a silk or a woolen dress, and some of them remodeled garments, also. Lectures were given each day dealing with instructions in garment making. One of the special features of the school was the ordering of dress forms for 15 of the women and remodeling them so they would more nearly resemble the figures of these women.

Last year, in six of the communities in McPherson county, Miss Maude Coe, Home Demonstration Agent, taught work in clothing. This work was principally along the line of teaching how to alter dress patterns so they would fit the individual and not cause needless waste of material. Other helpful points emphasized in this work had to do with the selection of materials, thought being given not only to the appropriateness of the material with relation to the purpose for which it was intended, but likewise careful selection with relation to color harmony. Many tests for quality of material were taught.

In the work with home conveniences as handled by Miss Coe during the last year, it was found the steam pressure canner was by far the most popular. The saving of time and fuel when the pressure canner is used appeals to those who have given this phase of the work any consideration. Twenty of the women of McPherson county purchased these cookers last year. In some instances they were of the 14-quart size, one being owned by two or three families living close together. The others were the smaller size which can so easily be used for the preparation of meals. Practically every community in McPherson county has at least some homes in which the meat supply for the summer was canned at butchering time. Miss Coe gave 13 demonstrations in meat canning and at each of four of these a quarter of beef was canned.

Health is not Forgotten

Home demonstration agents have a large field in which to work. Food, clothing, and club work receive a great deal of attention but the subject of health is not forgotten. Eleven meetings were held last year with an attendance of 790 persons. Home care of the sick was taught. Demonstrations and lectures were given by people specially trained in that line of work. In connection with the question of health, the importance of the hot dish with the school lunch was brought before the patrons of the county and just now a strong effort is being made to get every school interested in installing this plan of safeguarding the health of the children attending school.

That the homemakers of McPherson county appreciate the work of their home demonstration agent, is shown by the many calls sent in for her suggestions and help. On December 11 Miss Coe received a call from a homemaker living 10 miles south of McPherson, asking if it would be possible for her to come out to the house that afternoon and teach her how to can some meat. It was during the coldest weather of the first part of the month, but that did not hinder Miss Coe from packing her steam canner and driving to Mrs. Neufeldt's home. The afternoon was spent in canning 8 quarts of chicken, 5 quarts of veal, and 3 quarts of sausage and the principles involved in the canning of meat were discussed in an informal manner as the two worked over the kitchen stove. Mrs. Neufeldt said she had had a most profitable afternoon for she not only had a fine supply of meat canned for emergency and summer use but she learned the points that must be well understood and carefully applied if one is to have success in canning meat.

Mrs. Ida Migliario.



Twenty Women Attended the Dressmaking School at the Monitor Community Center in McPherson County Last Year.

She's in Favor of Clubs Now

Every woman owes it to herself to belong to at least one club, two are better. We know there are men who still look askance at the woman, especially the farm woman, who has the temerity to acknowledge she is interested in club work. He thinks and often expresses himself freely to the effect that the woman had better be at home tending to her chickens. He is just brim full of sympathy for the neglected husband and children. And the men are not the only guilty ones. There are women who will sweetly say, "It must be nice to go out to club meetings but I have my work to do."

No man really wants his wife to be a recluse and if she wishes to retain her friendship with her neighbors, she must go to see them at intervals. Then why not take an afternon every two weeks and visit with all of them at one home? The hostess will be prepared to entertain her friends, and will not be hindered in the performance of some duty, as is often the case when the caller is unexpected.

A friend tells the following story of her experience in club work. She was reared to believe a woman's work was at home with her family, and as hers was an exceptionally large family the job was strenuous. Other members of her household came and went at their pleasure, but she always was too busy. If for any reason it was necessary for her to be away a day or two, she wore herself out the day before preparing food to last until her return. Then the day following her return was an equally busy one for she must put things back in order. Is it any wonder father and the youngsters failed to appreciate or realize the load she carried?

Finally came a day when mother visited and was persuaded to join a club. Her family did not favor the idea, but knew from experience that mother was tolerably "set" in her way, so made no objections. It took the new club member only a short time to notice other mothers exacted more of their girls than she did. Little by little she left more of her work for her family to do, with the result that recently when called from home for a number of days, on her return she found the house spick and span, with baking all done, for outside workmen expected the next day. In fact, she believes she could go to Europe, and feel her family would get along well without her.

As for gossip, if you want to know how late Aramiuta's beau stayed last night, whether Mrs. Reynard's furs are paid for, or if the new doctor's wife was not a divorcee, never mind asking the club woman, ask the woman next door who never goes anywhere. She'll know.

Mrs. C. M. Madden.

Atchison Co., Kansas.

Milk is the Subject for March

The subject suggested for the March meeting of the Kansas Homemakers' clubs is "What to Do with a Quart of Milk." Mrs. Mary Whiting McFarlane of the Kansas State Agricultural college has prepared the following program which should be helpful to those who have the meeting in charge:

Roll Call—"My Best Milk Dish."

Paper—"What is in a Quart of Milk? (Note—Protein, 3 per cent; fat, 4 per cent; sugar, 5 per cent in round numbers; mineral, 1 per cent; water, 87 per cent.

1—Protein—The two principal proteins are casein and albumen. (Casein forms the main part of the curd when milk sours. Albumen stays in solution unless the milk is heated.)

2—Fat—The fat of milk contains some of the vitamines (fat soluble A) which are indispensable for growth of children.

3—Sugar—Sugar of milk is much less sweet than cane sugar but does not cause the digestive disturbances in young children that cane sugar does.

4—Mineral—Milk contains largest amounts of available lime for bone building and body regulating of any food. It also contains much phosphorus and some iron.

5—Water—The other growth determining vitamine, water, (soluble B) is contained in milk.

Round Table—"Best Ways of Using Milk" (5-minute discussion.)

1—For children who do not like its flavor.

2—To put it into the family dietary when children have to eat the same meals as the grownups.

3—Amounts which various members of the family need daily. (1 quart for each young child and at least 1 pint for each grownup is desirable.)

4—What portion of our food money should be spent for milk?

References—Farmers' Bulletin No. 413, "Care of Milk and Its Use in the Home"; "Newer Knowledge of Nutrition," E. V. McCollum; "Feeding the Family," Mary I. Rose.



A School Exhibit at the Lindsborg Community Fair Showing the Pressure Canner Which is Very Popular in McPherson County.

Aluminum Gives Service

Yes, aluminum does cost more than some other kitchen ware, but think of the convenience and durability! There's my aluminum roaster, for instance. It is oval and deep with a neat lid. It not only serves as a roaster, but on baking day it is a handy bread raiser. Then it serves as bread pan in which the bread is baked. When I take out the bread I place it on my bread board, cover it with the roaster and the crusts steam soft. There is no hard upper crust at all. On other days I use it for dishpan and the lid for draining the dishes. I bake cornbread, cookies and cake in the lid and it is just fine for chicken pie. When I have extra company and need extra kettles and frying pans, my roaster becomes a kettle with a tight cover or the lid is used as a frying pan and sauce pan.

When canning time comes my roaster is again my ready helper. It is excellent to scald fruit for canning and just as good for preserving and making butter. When I had a small amount of fruit or vegetables I wished to can by the cold pack method I put a false bottom in my roaster, put in my jars, put on the lid and processed them without using the whole stove top as with a boiler. I could spare all my kitchen utensils better than the roaster.

Mrs. Levi Gingrich.

Gove Co., Kansas.

Has a Sewing Session

We farm women should plan to do most of the spring sewing during the winter months so it will not crowd us when other spring work comes on. I have found it a good plan to do the children's plain sewing for the whole year between Christmas and March first. However, precaution must be taken to make the garments large enough so they may be worn out before they are outgrown. I always make the new things much larger than the old, just so they'll not appear clumsy, then use the new sparingly. In that way the children have a sort of reserve

wardrobe and do not outgrow it, either.

It saves time and one becomes more accurate and skilled when the sewing is all done in one "session." When the apron or blouse pattern is cut it is easier to cut out all the garments needed of that kind for the year than to get out the pattern separately for each article. I begin the sewing by cutting out all the garments, then I do all the machine work at one time. With practice very little basting is necessary. Of course, before doing the machine work I make sure the pattern fits and does not need to be tried on. After the stitching is done the handwork can be done at odd times. I plan to do the buttonholes while visiting a neighbor, or at a club meeting. In time the sewing is done, seemingly without taking so much time, or always staying at home to do it. I always feel when I get the garment down to the handwork it will be finished without much effort.

In these days of fast living, when we get the spring styles in January, it is much easier to sew ahead than it used to be. We can make even the best dresses several months before they are needed. When sewing for girls I like to have a plain, good fitting pattern for a foundation. It is much easier to change this plain pattern to the newer styles than to fit a new pattern for each style of dress. Several dresses can be cut at one time from the plain pattern, then finished up differently to conform to the individual taste and the material at hand.

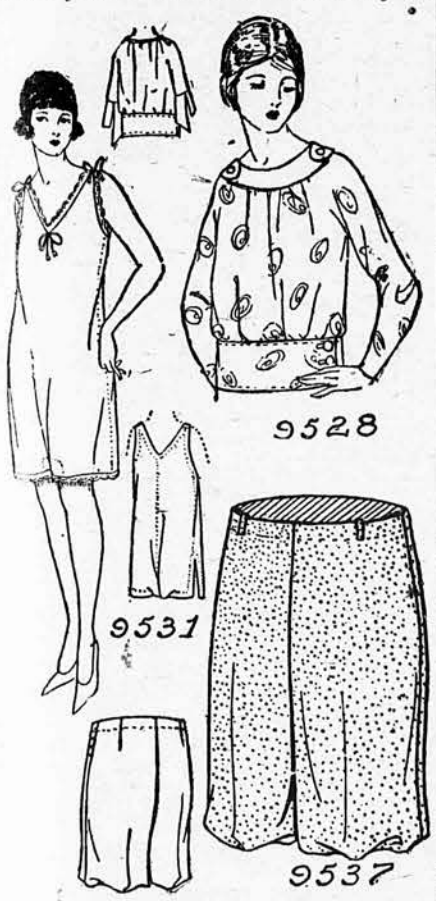
Mrs. W. H. Penix.

Saline Co., Kansas.

Blouse for Slender Figure

9528—Ladies' and Misses' Blouse. This style is becoming to the slender figure. Front and back are gathered into a deep band which buttons on the side. Sizes 34, 36, 38 and 40 inches bust measure.

9531—Ladies' and Misses' Envelope Chemise. The top may be in either of two styles. Hemstitched hems may be



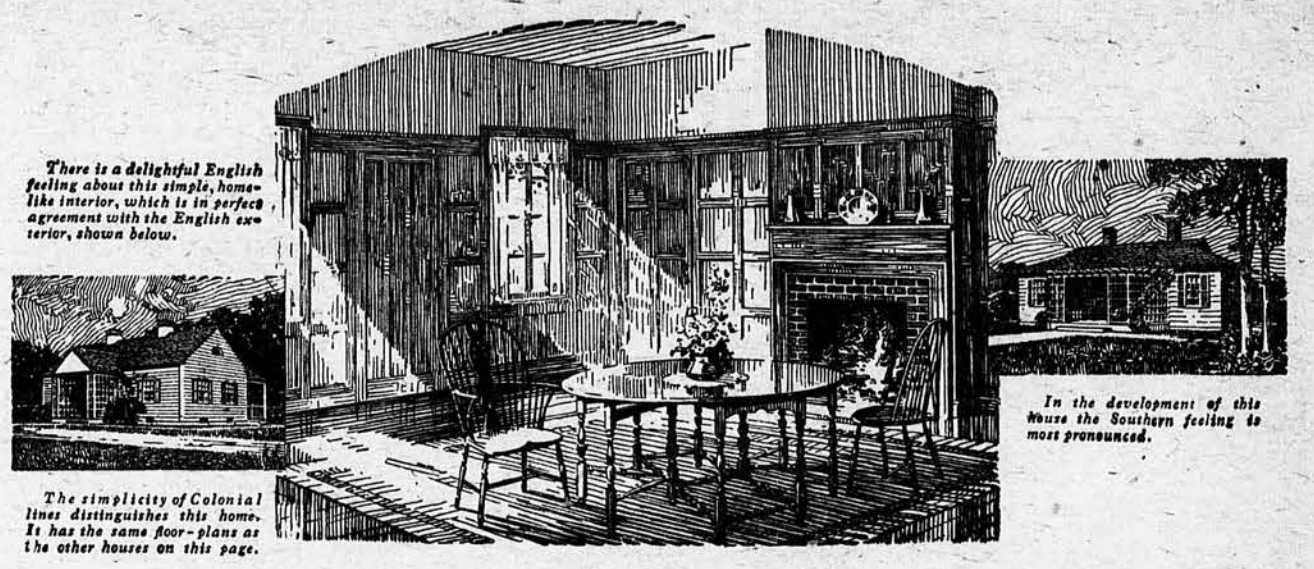
used as trimming instead of edging. Sizes 16 years and 36, 40, 44 and 48 inches bust measure.

9537—Boys' Trousers. An easy style to make. Darts take up any fullness and prevent sagging. Sizes 4, 6, 8, 10, 12 and 14 years.

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

Time to Move

Upon being asked why he deserted, a negro replied: "Well, suh, them scrapshell didn't scare me none and I wasn't much afeared of them ginades, but when a white man says they is goin' to shoot a garage at me ma feet just take me away from there."—Houston Post.



There is a delightful English feeling about this simple, home-like interior, which is in perfect agreement with the English exterior, shown below.

The simplicity of Colonial lines distinguishes this home. It has the same floor-plans as the other houses on this page.

In the development of this house the Southern feeling is most pronounced.

Beauty and Economy Meet in Curtis Woodwork

REALLY beautiful woodwork at reasonable cost has long been a cherished dream of home builders.

One could get good woodwork—honest wood and excellent workmanship—at a fair price. But to finish a home in woodwork architecturally true to some period or expression required the services of an architect to work out every detail of that woodwork. This done, it was necessary for some manufacturer to produce that woodwork to order.

No wonder beautiful homes used to be expensive.

We made good general woodwork and we made some of the special kind. Our ambition was to make the special kind for every home builder. It seemed that only in one way could the special kind of woodwork be put within the reach of all—that way is through standardization.

We standardized Curtis Woodwork from designs made by one of America's foremost architects. Standardization thus becomes the means through which you can have, at reasonable cost, the woodwork of your desire.

Curtis Woodwork is true to four architectural expressions—Colonial, English, Southern, and Western. Curtis Woodwork in these four expressions is available at any Curtis dealer's.

Your architect can use these Curtis standard sizes and designs in planning your home. He can save his time and your money by doing so. Nor will he sacrifice one single note of individuality either in his work or in your home.

If you cannot consult an architect you can build your home from Curtis plans, which your lumber dealer can obtain. These Curtis homes—of from three to eight rooms—were planned and designed by Trowbridge & Ackerman, New York architects, who also designed all the Curtis Woodwork now within the reach of all.

Ask your lumber dealer about Curtis Woodwork. It will be supplied through him when you build. Ask him to obtain for you, free, a portfolio of "Better Built Homes"; or send the coupon below, with 25 cents in postage, and the portfolio you name will be sent direct. Ask for portfolio No. VI, if you are interested in homes of 3, 4, and 5 rooms; portfolio No. VII, if in homes of 6, 7, and 8 rooms; or, if you are interested in houses particularly adapted for farm use, ask for portfolio No. VIII. Each portfolio contains illustrations of the exteriors, interiors and floor plans, with complete descriptions of thirty-two homes. Begin now to start action on realizing your dreams of a home of your own.

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Eastern offices at Pittsburgh and Baltimore

The makers of CURTIS *Woodwork guarantee complete satisfaction to its users. "We're not satisfied unless you are"*



This five-room English cottage is built for comfort and follows the best traditions of English construction.



This friendly-looking house carries out the lines of the Western expression.

1866 CURTIS WOODWORK

"The Permanent Furniture for Your Home"

CURTIS SERVICE BUREAU
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Enclosed find.....Cents in stamps, for which please send me Portfolio of Better Built Homes, Vol. VI (3, 4, 5 room houses) 25c. Portfolio of Better Built Homes, Vol. VII (6, 7, 8 room houses) 25c. Portfolio of Houses for Farm Use, Vol. VIII, 25c.

(Please check the one you wish)

Name.....

Street or R. F. D.....

Town..... State.....

Somebody Wants Everything

Whether it be cow or chicken, hay press or sewing machine—somebody wants it. If you called every person listed in your telephone book you might find that "somebody." But think of the time and trouble. With no trouble at all and very little cost a classified advertisement in Kansas Farmer and Mail and Breeze will "plug you in" with classified buyers—men and women looking for what you have to sell. Try it!

"Plug in" with buyers

Classified Ads Get Quick Results

Mayer HONORBILT SHOES

MILWAUKEE Mayer CUSTOM MADE HONORBILT

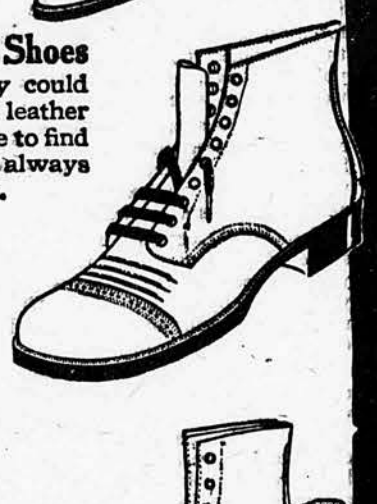


For the Whole Family

DRESS up shoes for everybody, work shoes, school shoes for the children and easy restful house shoes. *Honorbilt* Shoes contain the same good quality leathers they did 38 years ago; they are *built on honor*. The name *Honorbilt* stands for a heaping measure of service. Wear a pair and prove it for yourself.

Men's and Women's Fine Shoes

The fine shoes are all that anybody could ask for in style and you get choicest leather plus genuine comfort. You are sure to find the particular shape you want and always the latest styles, and a wide variety.



Work Shoes

Honorbilt Work Shoe leather is double tanned to resist the alkali in the soil, as well as barnyard juices. They are soft and easy on the feet yet long wearing and will not get hard when wet. Honorbilt Work Shoes will give double the wear of ordinary shoes.

Children's Shoes

Sturdy, well-built shoes that stand rough treatment—the kind boys and girls like, and their parents, too. Shaped for growing feet. The quality is there—*they wear like iron.*



No matter who in your family needs a pair of shoes next, see your dealer who handles the Mayer Honorbilt line. Look for the name *Honorbilt* on the soles.

F. Mayer Boot & Shoe Co.
Milwaukee, Wis.

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Pay only $5.25. $10.00 United States Government inspected Hip Rubber Boots. $6.50 Knee Rubber Boots, $3.89.



Value in every purchase. These boots sold elsewhere for double what we ask. No risk on your part. Satisfaction guaranteed or money refunded.

ALL SIZES

Please send me C. O. D. .....pairs of.....as advertised. Since I am buying these on approval, my money back at once if I want it. I risk nothing.

Name..... Size .....

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THE OLIVER OIL-GAS BURNER makes any cooking or heating stove a gas stove. Burns coal oil (kerosene). No coal or wood. Cooks and bakes better. Cheaper. Keeps your home warmer. You regulate flame. FITS ANY STOVE ANYWHERE. No fires to start, no ashes, no chopping, shoveling, poking and dragging of coal. Saves hours of work and loads of dirt. Simple. Safe. Easily put in or taken out. No damage to stove. Lasts a lifetime. Thousands of delighted users. In use eight years. Money-Back Guarantee. Free literature

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The Oliver Oil-Gas Burner makes 2 gals. oil equal 97 lbs. coal

FACE POWDER A box containing a generous supply of high grade face powder sent free and postpaid to all who send us only 10 cents for a 3-months' subscription to the Household, a magazine of from 20 to 32 pages monthly, containing stories, fashions, fancy work and recipes.
The Household, Dept. F.P.4, Topeka, Kan.

Fun on St. Valentine's Day

Cupid Plays a Big Part in These Jolly Parties

LETTERS FROM READERS

THE MOST successful valentine party I ever attended was a combination valentine - announcement party given by our school superintendent's wife for one of the teachers who was to be married when school closed.

Red paper hearts and cupids were used to decorate both the living room and the dining room. Perhaps the most interesting decorations were the large posters from the colored fronts of magazines, which represented various events in the bride-to-be's love story. The letters composing the title of the picture were jumbled and printed below. Each guest was given paper and pencil and asked to write what the pictures represented. The one guessing the greatest number correctly was given a prize.



Then the hostess told us she would tell us a story which each of us must help to act out after she had whispered to us our part. She began her story thus: "A certain lady one bright, sunshiny morning did her washing," whereupon one of the guests pretended to be washing. Then continuing the story, "She went into the garden to hang out the clothes." This part fell to the guest of honor who was shown into a room representing a garden with its clothes line, but the clothes, which were 12 linen napkins for the guest of honor, were already pinned on the line with smaH clothespins.

The refreshments, all homemade by the hostess, were quite unique. The first course consisted of heart-shaped patties filled with hot creamed tuna fish, heart-shaped sandwiches filled with chopped raisins and nuts, round sandwiches filled with a lettuce leaf and pressed chicken, and olives. The second course consisted of crullers, heart-shaped ginger cookies, kisses and cocoa. For the third course there was a big pink and white bride's cake and pink and white brick ice cream. In the cake were the traditional ring, thimble and money. Salted nuts were served last. Just before the guests left for their various homes they were given red carnations as favors.

Mrs. George L. Glenn.
Douglas Co., Kansas.

Enjoyed the Auction Game

This valentine party which was given by a Sunday school class proved to be quite a success. The rooms were decorated with red paper cupids and hearts which were strung on threads and used as portieres for the doors. The windows and piano were decorated with them, also.

Partners were obtained to work out a puzzle by matching small hearts which had been cut zigzag across. The couples then had to match large hearts which had been cut in many pieces. They were allowed a given number of minutes to accomplish this. The couple completing their heart first were given an appropriate prize.

After this we had an auction of hearts. Then gentlemen were provided with paper money and an auctioneer was selected from among the guests. Written on each heart was the name of a lady guest. This was kept secret. The hearts were then sold to the highest bidder. There being a few more ladies than gentlemen, some could purchase two hearts. This caused a great deal of fun for some would bid more than their purse could stand and then they had to borrow from a friend. The lady whose heart the gentlemen purchased was to be his partner at supper.

Refreshments of pink fruit salad and small cakes frosted in white with a red heart were served.

Our fortunes were told before we left. The guests were given a fishing pole and told to fish behind the piano. Their fortunes were placed on a hook by one of the hostesses. The fortunes were then read aloud. Each one had been written especially for every guest which made it more interesting.

Mrs. W. A. B.
Nemaha Co., Kansas.

Queen of Hearts was There

Our valentine party last year was declared by everyone to be the success of the season, altho it was given to rather a mixed country crowd at very small expense.

The invitations were written on white arrows, stuck thru red hearts and inclosed in envelopes. A few heart-shaped cooky cutters easily transformed buns, beet pickles and cake so that with pink and white ice cream they made a dainty valentine feast. We trimmed the table with ribbon and hearts, with a large red begonia and two kewpies for a centerpiece.

The real secret of our success was that we had something planned to fill every minute of the evening. We requested everyone to bring an unnamed valentine made by himself. As these were given to the hostess she put someone's name on them so when all arrived there was a valentine for everyone.

The guests were met by the hostess's little daughter who was dressed to represent the Queen of Hearts. She disposed of the wraps and gave each one a heart with a letter on it. After all had gathered we announced that there were four hearts of each letter and that each family of four would be given 20 minutes to see what they could produce together in the way of valentine poetry. A comic valentine was given to each person in the group that read the best verse.

We began an archery contest about an hour before time for refreshments. A large sheet was stretched across the end of a room, and a heart-shaped bull's eye pinned in the center. The ladies were given first chance to try their skill with the little bow and arrow, the winner being awarded a small silver arrow pin. The sheet was then turned over showing as many small numbered hearts as there were ladies present. Each lady was given a cupid numbered to correspond with the numbers on the sheet and the gentlemen were allowed to shoot for partners. Of course, there was a great deal of merriment when one missed the heart he was shooting at or got the one someone else wanted. When the hearts had all been pierced the numbers were matched and all went to the dining room.

After the lunch was finished the guests went back into the parlor to find the Queen of Hearts officiating at the valentine box. The valentines were compared and laughed over and after a few more stunts everyone went home, tired but happy. Grace A. Young.
Jewell Co., Kansas.

A Pink and White Luncheon

This describes a valentine party given to a literary club by its executive officers. The meeting was held in a home, the drapery of which was tastefully decorated with objects supposed to be dear to St. Valentine—cupids, hearts and bows and arrows.

Just before the dainty luncheon was served, each lady was presented with two hearts, one nearly covering the other, and tied with baby ribbon which she was requested to pin to her corsage. At the tables, each of which accommodated four guests, the club colors, pink and white, were in evidence. The white place cards supported a cupid offering a pink heart, the paper napkins were embellished with appropriate symbols, the cakes and ice cream displayed the same colors, as did the heart-shaped after dinner mints.

In place of toasts the guests were invited to examine their corsage hearts and read aloud what they found there. This gave a most agreeable surprise for every lady found there, in a short verse written especially for herself, and setting forth in graceful terms, some well known attribute of her nature. The verse below was dedicated to a woman inclined to poetry writing and is a fair sample of the others.

For thee, the birds and flowers and trees,
A message sweet contain,
Which moves thy poet soul to sing.
Its loving glad refrain.

Colorado. S. E. H.

Women's Service Corner

When you have a perplexing problem you cannot solve, send it to the Women's Service Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan.

More About Dressmaking Schools

If Mrs. W. V. H., Hartford, Kan., will write to Alma E. Molby, Barnes, Kan., and Mrs. Susie Miller, R. 1, Monmouth, Kan., they will tell her about home dressmaking schools in which they are interested.

Making Hominy Without Lye

Please print a recipe for making hominy without using lye.—G. C. C., Hiawatha, Kan.

One of our readers says she has had good results making hominy by adding 1 tablespoon of soda for every quart of corn used, covering with water and boiling until the hulls loosen. Rinse in several waters the same as in making lye hominy.

Getting Magazines Bound

Can you tell me where I can have several volumes of magazines bound?—Mrs. G. L. Whitcomb, Kansas.

The Western Bindery Co., Topeka, Kan., does work of this kind. I suggest that you write to this company for information as to prices, and so forth.

Good Books for Children

Can you give me a list of books suitable for children under 10 years?—Mrs. Alice J., Kansas.

The following books are favorites of many boys and girls: "The Candy Country," by Alcott; "Adventures of a Brownie," Craik; "New Baby World," Dodge; "Peter Rabbit" Books, Potter; "Six Nursery Classics," O'Shea; "Sunbonnet Babies Primer" and "Little Folks of Many Lands," Chance; "Just So Stories," Kipling; "Child Garden of Verse," Stevenson.

Suit the Color to the Person

I have black hair, blue eyes and an olive skin. What colors can I wear best?—A Reader, Wichita, Kan.

Any of the following colors look well on women of your type: Cream and pure white, chestnut and golden brown, navy blue, warm shades of gray, crimson, maize or amber, and old rose. You should not wear black unless you add cream or a touch of bright color.

To Remove Paint or Varnish

How can I remove paint and varnish from old furniture?—Mrs. A. A. N., Kansas.

There are many good paint and varnish removers on the market. They may be obtained from any hardware or paint store. Apply one coat of the remover with a brush and allow it to stand for 10 or 15 minutes. Then scrape off with a blunt knife or piece of glass. Clean with benzine, gasoline or wood alchol (being careful to have no flame near) and the surface is ready for refinishing. Do not rub the remover in with the brush. If the first coat fails to remove the paint or varnish, apply another coat and allow to stand 10 or 15 minutes before scraping and cleaning.

Teaching the Child Order

I experience much difficulty in trying to teach my children that they should hang up their coats and hats when they come into the house. Can you help me?—Mother of Four.

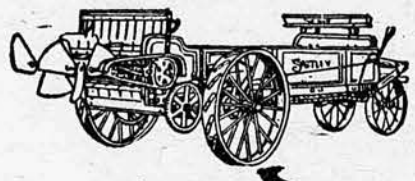
As a usual thing if children are made to feel that something is for their very own use they will take more interest in it. I would suggest that you place hooks on the inside of the closet door, low enough so that each child can reach them. Give certain hooks to each child and before long the use of the hooks will become a fixed habit.

Before You Buy

Farm Implements of any Kind Get Your Copy of Our New

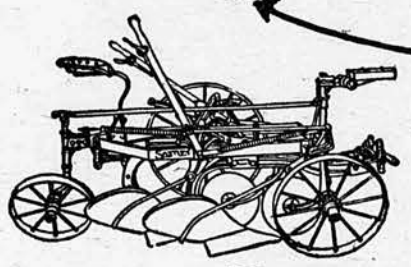
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A reliable guide when you want to buy farm machinery. It tells you all about the famous Sattley line of farm implements and how we can save you at least 30% on tools of standard quality. ***It will pay you to know***



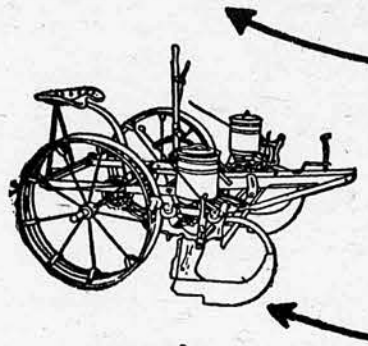
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We can save you about $50 on a low-down, wide-spread, light-draft Manure Spreader.



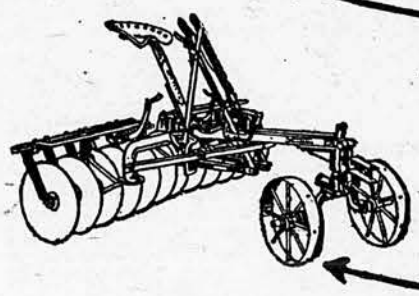
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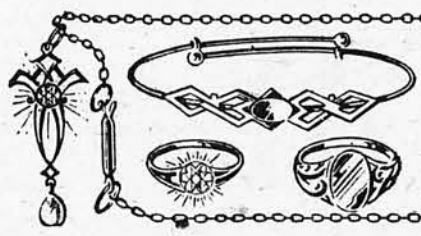
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CALUMET



—gives better bakings that go further. It strikes straight at the root of extravagance—waste—and reduces living cost in a sane, sensible, way.

Calumet Baking Powder never fails to properly raise all bakings—produce the best results.

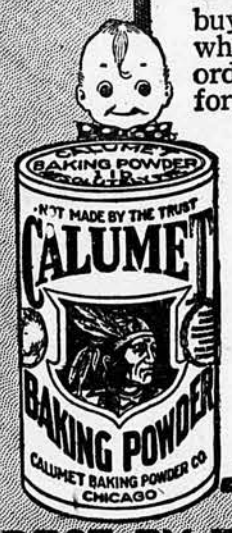
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Calumet bakings *do* go further, because they are deliciously good, are never thrown away. *And* because they have greatest of keeping quality—stay moist, tender and oven-fresh for days.

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Contains only such ingredients as have been officially approved by United States Food Authorities. Sold by your grocer under a definite money-back guarantee, if it doesn't prove "best by test"—in your own kitchen, in *any* baking.



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High Power Mantles

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Made to give service. Will last longer and stand rougher usage than any other mantle known. Made in our own factory by special patented process. Buy from your dealer or order direct from nearest office. Price per doz. $1.50.

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MORE CORN PER ACRE GUARANTEED

Clean Seed Insures Success.

You can easily guarantee yourself from 5 to 10 more bushels corn per acre this year and make several hundred dollars extra by spending a few hours in cleaning and grading your seed.

Home grown seed produces the best results because it is acclimated. But the trouble is that it contains many shriveled and imperfect grains as well as dirt. These objections are now easily and quickly overcome by the use of a simple and scientifically accurate Simplex Mill.

The Simplex Mill is made in two sizes and handles from 40 to 60 bushels per hour, so it is only a few hours' work to clean and grade your seed and guarantee yourself successful crops.

Being sold direct by mail to you at factory prices the Simplex Mill costs from $20 to $25 less than others, and in view of $1.50 to $1.75 corn next winter no farmer can afford to do without one. The Simplex Mill is sold on 30 days' trial, with nearly a year to pay, and should easily last a lifetime. It performs over 50 different cleaning and grading operations, such as separating wheat mixed with oats or rye, cockle or mustard with oats, alfalfa and dodder, clover and buckhorn—in fact, all kinds of mixtures.

My advice is for you to write a card or letter to I. D. Rice, Pres. Simplex Spreader Mfg. Co., 1703 Traders Bldg., and ask for his interesting descriptive matter and prices which will be sent free to any reader.

BABY CHICKS 15 cents each and up. 17 leading breeds. Catalog free.
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Any time that *any one* wants a delicious drink with a real, satisfying, sustaining food value.

We guarantee its purity and high quality. We have been making chocolate and cocoa for nearly 140 years.

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Established 1780. DORCHESTER, MASS

WHEN WRITING TO OUR ADVERTISERS PLEASE MENTION THIS PAPER.

Farm Home News

It seems a pity that at this time of the year when people feel they have some time for entertainments, visits, and pleasure there should be so many epidemics of contagious diseases. The need for care and good judgment in fighting the spread of influenza has caused local women to drop the food sales and entertainments planned for awhile. Our improved methods of travel must account largely for the rapidity with which an epidemic spreads. Yet, in old days when people seldom left home, the schools furnished a means of carrying diseases.

One result of the epidemic of last year has been to make us all pay more attention to health maxims. Even the boy who dislikes water is eager to have clean hands. The teacher who once tolerated the disturbing coughers is now sending them home. And some who enjoy home more than school are faking coughs that bring the desired marching orders.

The question being discussed at a recent meeting was how our grandmothers managed to do so much work. Some recalled their spinning and work with wool, their weaving and making of counterpanes. Others spoke of the work with flax—their linens and the making of all the clothing the family wore. The candles, dim lights for knitting, were of home manufacture. The blankets on the bed were homemade; the pillows contained home plucked feathers; the quilts were pieced and quilted with many stitches. There were many solutions to the problem of how our grandmothers were able to do more than we.

Some of those who knew the bill of fare in olden days pointed out that pies and cakes were not expected daily. One main dish with cornbread or something similar comprised the list for each meal. There were no telephones to take up time. Few books were in most homes for reading and very few newspapers found their way to the family's box in the postoffice. The getting of daily mail was unknown. There were times of bad roads when no mail was received for two weeks or more. Even for the purpose of accomplishing as much as our grandmothers, we would not do without our daily mail. Another reason for their many hand products was their unending industry. They seldom ceased work. If they went visiting, they took their work with them. If they sat down to get warm, there was some work ready to be picked up. That part of their industry we might well copy to some extent. Much of our failure to accomplish more things is due to the poor use to which we put our leisure time. Many women who didn't suppose they could do any more found they could do considerable knitting in time that had previously been wasted.

In the campaign for thrift that is now being conducted, the use of leisure hours in patching and making over old clothing might well be emphasized. The dyeing of cloth is a subject club women might well study for Thrift Week work. The making of new dresses from old is another subject worthy of attention. When a sufficient number of women will agree to attend a school for five days, a college instructor will teach them how to make dress forms for themselves and to cut and fit their dresses. One canning club in our county has planned for such a school in May. We are not so capable in this locality for some reason. At that time we feel the call to tend chickens and gardens and cannot get folks away from home for any length of time. The ones who really need such work most are least able to find the time to learn.

Mrs. Dora L. Thompson.
Jefferson Co., Kansas.

The Duties of Women Voters

The following is an extract from a speech made by Mrs. W. P. Lambertson of Fairview at the Kansas Day banquet at Topeka, January 31.

"The women of our sister states, lately enfranchised, looking in upon this mixed assembly, would doubtless say that Kansas women were pioneers in party affairs, and truly so. Yet we women here tonight do not have to remember back a long way to recall birthdays of Kansas when we were not invited to the banquet table. But we were interested and we kept "passing by" where the mice "sat down to spin" and after a while we "peeped in" to see if the banquet part were nearing an end. Quietly and unostentatiously we stole in and stood or sat near the door, drinking in the good Republican doctrine. A little later we were at the table with the men, upon their invitation; then the women were asked to take part on the program. Now for several years we have been meeting here in this splendid equality. I believe it was this fact that we are a living, working, equal part of this great organization, that made the women of the nation thrill with emotion when they read last May of that first national political conference of men and women ever held over which a woman presided, and we saw among the pictures of our leading Republican women of the nation one of our Kansas women.

"You may not agree with the foreign diplomat who was quoted as saying that the friendship of women of nations is essential to the amicable relations of those nations. Certain it is that the friendships and the mutual sympathy between our states in recent months, have welded us into a stronger unit. One of the happy results of the war is the fact that many a woman and some men who thought they had no inclination or time to be interested in the affairs of government before the war, are finding it impossible not to continue to function in community, state and national affairs. Political parties are the means thru which thinking men and women advance their ideals for the conduct and the conditions surrounding the place they call home. It is our way of applying patriotism in times of peace. This crucial time calls for the intelligence and devotion of every one of us. A passive loyalty should be considered disloyalty in 1920 as in 1918. It is our individual duty to decide which of the parties is the one to which we wish to entrust the government of the state and nation.

"As Republicans we believe that our party has meant the splendid development of the nation in the past, that it is the need of the nation in this present hour, and that the reins of government must be given it for the salvation and progress of the nation in the future. For 60 years the Republican party interpreted the purposes of those who wrote our constitution, and we believe that it is a turning away from these elemental principles that has plunged us into this maelstrom of difficulties. As Republicans we can always boast that in the war patriotism was kept above party; there was not a moment of faltering nor

The February Letter Box

January prize winners are Mrs. W. M. Chappell, Pottawatomie Co., Kansas, the $2 prize, and Mrs. A. L. Barriger, Allen Co., Kansas and Mrs. George L. Glenn, Douglas Co., Kansas the next two prizes.

For February a prize of $2 will be awarded for the best letter and $1 for each of the next two best received by February 25 on any of the following subjects: What plans have you for open air sleeping? If you have a sleeping porch, describe it, giving the benefits derived from it, its cost, and so forth. Give your experience in canning last year. How many jars did you can? How many did you lose? Give your experience with a pressure canner or hot water commercial canner. What other canning equipment have you that makes the work easier? What type of jars do you prefer? If you have a means of income independent of your husband's such as poultry raising, gardening, bee keeping, and so forth, tell about it, the profits, and so forth. Send a photograph to go with your letter if possible.

Address Stella G. Nash, Editor, Women's Pages, Kansas Farmer and Mail and Breeze, Topeka, Kan.

questioning until our arms had triumphed.

"Can any Democrat feel proud of the dilly-dallying of the present administration with regard to suffrage and prohibition? Does the Kansas housekeeper indorse the 2-pound sugar policy when millions of tons of our own sugar are exported and we fail to buy the Cuban crop? Do the farmers want the government to fix our wheat price at double the price before the war, but allow the price of calico to be multiplied five times? Everything is high, even low shoes. If the old woman who lived in a shoe were alive today, she wouldn't be able to pay the rent. We need to get back to ~~the~~ sane policy of rule under a leader who will make it possible for our habits of extravagance, waste and idleness to be corrected."

Hastening H. C. L.'s Downfall

Representatives of all of the women's clubs in Topeka were invited to meet with the Topeka Fair Price Commission recently. Mrs. W. R. Smith, who represented the Topeka Branch of the Collegiate Alumnae, summarized the ideas of the club women in alphabetical order in making a report to her organization. If everyone were to follow these suggestions of the club women the H. C. of L. would no doubt experience a sudden tumble. Here is the summary:

A—A stitch in time saves nine.
B—Buy only what you need.
C—Conserve food and fuel.
D—Demand lower prices.
E—Establish a savings account.
F — Furnish wholesome food, not fancy.
G—Give thought to your buying.
H—Home comes first in thought.
I—Invest in good securities.
J—Jump with both feet upon a real bargain.
K—Keep a record of expenditures.
L—Live within your income.
M—Make a budget.
N—Never buy what you cannot pay for.
O—Our duty is to teach thrift.
P—Pay bills promptly.
Q—Question to become informed.
R—Read advertisements.
S—Share with others your knowledge of affairs.
T—Take time to buy.
U—Use your old clothes.
W—Work and earn.
X—X-amine price lists. X-it extravagance.
Y—You are responsible.
Z—Zealous efforts will bring results.

Try These Good Dishes

Sweet Potato Pudding—Beat together 1 quart of grated sweet potatoes, 1 pint of sugar, 6 eggs and ½ pint of butter. Add 1 pint of sweet milk and 1 tablespoon of preferred spice. Beat thoroly and bake in a moderate oven, stirring frequently until almost done, then allow to brown on top. Care should be exercised to prevent burning.—Mrs. S. E. B.

Macaroni with Cheese and Tomato—Cook 1 cup of macaroni in boiling salt water until tender, add ½ cup of grated cheese, 1 cup of tomatoes, and pepper to taste. Mix well. Put in a baking dish, cover the top with bits of butter and cracker crumbs, add 1 cup of milk and bake.—Mrs. D. E. Waters.

Save the Feathers

BY BRIANT SANDO

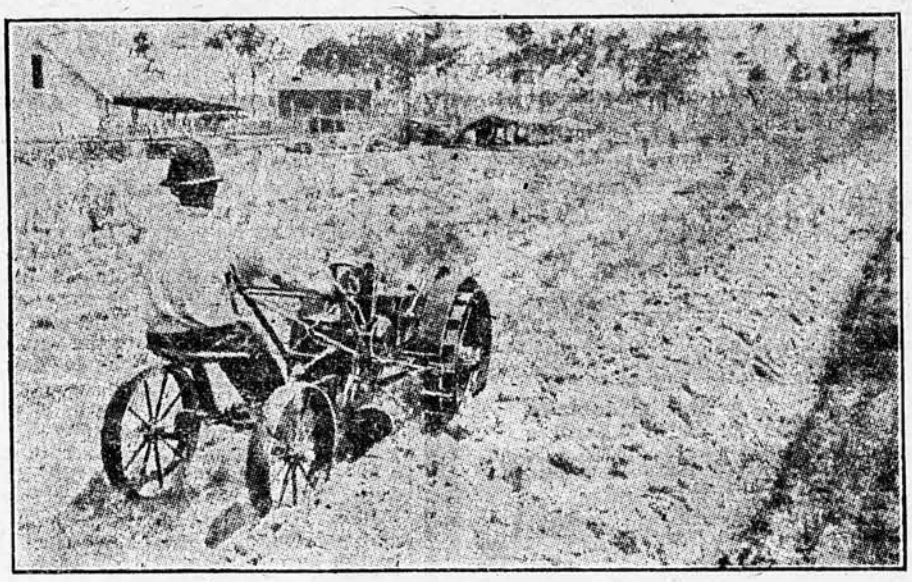
If you market very many fowls in a dressed condition, don't overlook the chance to make a little additional profit out of the feathers. Of course, to be of value the feathers must be dry picked, but this is the best way to prepare fowls anyway.

We have two receptacles at the side of the picker, one for the soft, fluffy and body feathers and another for those with heavy quills. The latter are of little or no value.

The feathers should be kept free from blood or dirt, and after the picking is finished the feathers should be spread out not more than 5 inches deep on a clean floor to dry. Stir them around every few days for about three weeks, then they are ready to be bagged and sold.

Plan to have a good garden this year.

A Practical Tractor for the Small Farm Owner at a Price Within His Reach



Plows, Harrows, Cultivates, Mows Hay, Pulls Light Loads; in fact, does practically all the jobs one horse or mule is used for. Also furnishes power for light belt work such as Sawing Wood, Pumping Water, etc.—jobs that a horse can't do.

The Oldsmar Garden Tractor

Efficient—Durable—Economical

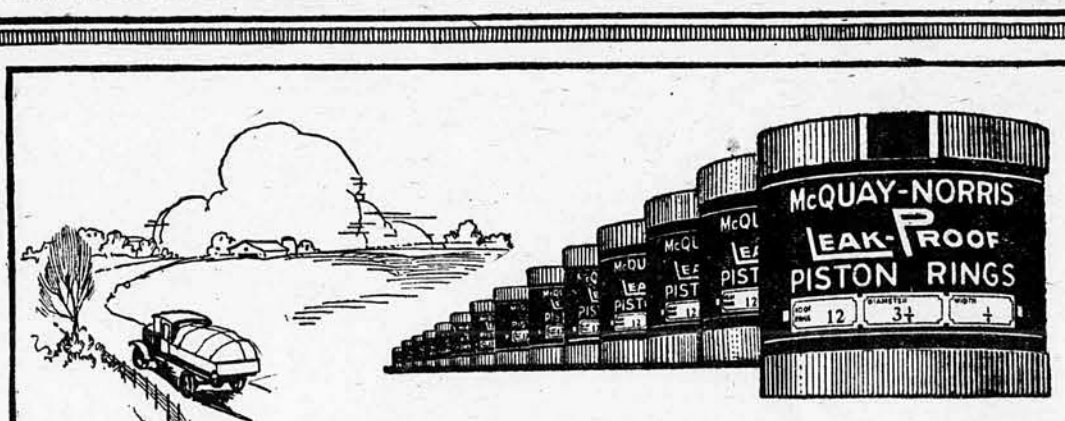
"Helps to take the drudgery out of the small farm owner's life."

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Compare THE OLDSMAR with larger and higher priced tractors at THE NATIONAL TRACTOR SHOW, or, write us and let us tell you more about this wonderful little tractor.

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For ten years these rings have stood the test—made good. And time is the severest test of any product. They are tried and true.

Genuine McQuay-Norris LEAK-PROOF Piston Rings, by creating uniform action on the cylinder walls, stop piston ring leakage, increase motor power, decrease carbon and save fuel and oil.

They are made in every size and over-size to fit every make and model of tractor, truck, passenger car or gasoline engine. Your dealer has them or can get proper sizes for you promptly from his jobber's complete stock.



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"To Have and to Hold Power," a valuable explanation of the relation of piston rings to power. Address Dept. A. C.



To Control Excess Oil

A special ring for motors that pump oil. Use in top grooves of each piston. In the lower grooves use McQuay-Norris LEAK-PROOF Piston Rings for complete compression—power.

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Tycos Cup

Because it's a time and labor saver—low in cost—economical—convenient—with a record for fifteen years of unfailing service as a wonderful hatching and brooding outfit.

Get into this profit-paying business now. It's money for you right from the start. Write today for Free catalog "Hatching Facts." It tells how easy it is to make big profits with my

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The Prize-Winning Hatcher with Fibre Board Double Walled construction—Self-regulator, Thermometer and Holder, Copper Tank, Safety Lamp, Deep Nursery, Egg Tester, etc. When ordered with my $7.55 Hot Water, Double-Walled 140-Chick Brooder—guaranteed to raise the chicks—making a complete hatching outfit—both only **$18.50**

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and allowed to points beyond. Used by over 815,000 successful poultry raisers. With this Guaranteed Hatching Outfit your success is assured. Save time—Order now—Share in my $1,000 in prizes—or write today for my big, Free catalog—"Hatching Facts," and get all the particulars. Jim Rohan, Pres

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THE LOWEST Priced Incubator Per Chick Hatched

This is proved by the "Successful" 27 year record. You want the "Successful" for a sure success this year. Sell more eggs and chickens—help feed the world.

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Write me a postal for book and prices. "Proper Care and Feeding of Chicks, Ducks and Turkeys" sent for 10 cents. "Successful" Grain Sprouters furnish green food—make hens lay in winter. Ask about my high-grade poultry—all leading varieties.



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Porter Soft-Heat Tubeless Incubator combines hot air and water. Automatic control of heat, moisture and ventilation. Center heat plan, round nest, eggs turn semi-automatically without removing tray,—saves time and money. Simple, Safe, Sure. Express Prepaid.

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Poultry Book Latest and best yet: 144 pages, 215 beautiful pictures, hatching, rearing, feeding and disease information. Describes busy Poultry Farm handling 53 pure-bred varieties and BABY CHICKS. Tells how to choose fowls, eggs, incubators, sprouters. Mailed for 10 cents.
Berry's Poultry Farm, Box 37, Clarinda, Iowa

For Sick Chickens

Preventive and curative of colds, roup, canker, swelled head, sore head, chicken pox, limber neck, sour crop, cholera, bowel trouble, etc. Mrs. T. A. Morley of Gallen, Mich., says: "Have used Germozone 17 yrs. for chickens and could not get along without it." Geo. F. Vickerman, Rockdale, N. Y., says: "Have used Germozone 12 years; the best for bowel troubles I ever found." Frank Sluka, Chicago, Ill., writes: "I have lost but 1 pigeon and no chickens in the 3 yrs. I have been using Germozone." C. O. Petrain, Moline, Ill.: "I never had a sick chick all last season." Bernard Horning, Kirksville, Mo., says: "Cured my puniest chicks this spring." Ralph Wurst, Erie, Pa., says: "Not a case of white diarrhoea in 3 yrs. I raise over a thousand a year." Good also for rabbits, birds, pet stock.

GERMOZONE is sold generally at drug and seed stores. Don't risk a substitute. We mail from Omaha postpaid in new 28c, 75c and $1.50 sizes. Poultry books free.
Geo. H. Lee Co., Dept. F-5, Omaha, Neb.

LIKE HEN'S NEST BUILT ROUND

Wonderful new kind of incubator, 16 remarkable new improvements. Built round—no cold corners. 1¼ gallons oil, and fill lamp twice to a hatch. Amazingly easy to operate.



NEW KIND OF INCUBATOR Powerful TRIPLE HEATER; patented heat diffuser; complete circuit radiator; hinged top; glass in top; automatic moisture vaporizer.

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20 leading varieties, day old chicks. Safe delivery guaranteed. Postpaid. One of the largest and best equipped hatcheries in the United States. Catalog FREE.
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How to Get More Eggs and Save Feed

—How to tell slackers and poor layers; how to get more fertile eggs, better hatches, stronger chicks and prevent bowel trouble is thoroughly explained in a bulletin which will be sent free to readers of this paper who write Prof. T. E. Quisenberry, of the American Poultry School, Dept. 337, Kansas City, Mo.—Advertisement.

Capper Poultry Club

Profits from Chickens Go for Education

BY LUCILE A. ELLIS
Assistant Secretary

A QUITTER is one who backs out before he gets in. No one who was closely connected with the work of the Capper Poultry club girls in last year's contest can say that they were quitters, for more girls completed their year's work by sending in annual reports and stories at the close of the contest than any previous year. And we're not forgetting that the mothers, too, deserve praise for the good work they did last year. It takes pep to make out a report and send it in when you know you stand no chance in competition for the prizes, but that is what a great many club members did. In so doing they were loyal to their county leader, their team mates and to the club secretary. I know they are happy in the knowledge that they have lived up to the club rules in every way from the beginning to the end of the contest. Such was the club spirit displayed last year, but I think I can safely predict that this year's club will make an even better showing, for we expect to have a larger membership in every department.

A large portion of the prize money won by the girls last year will be used by them to help to pay expenses in school. "I am going to use all of my prize money toward my education," writes Ruth Wheeler of Coffey county. "My sister and I expect to go to high school next year. We are going to let our chickens pay our way as much as possible."

Elma Parmley, a Linn county member, bought a cockerel for her pen with a part of her profits and with the rest of her money she is going to pay for music lessons this summer. Her sister, Hazel, will use her profits to help pay her expenses in her first year in high school. Elma says: "Isn't it great to feel independent or that you are helping meet your own expenses? I believe it makes us work harder." The Linn county girls recently sent a birthday box to the little French orphan they have adopted.

Better Poultry This Year

I know you have all heard of Hazel Horton, Linn county's leader in 1919 and winner of the pep trophy. Here is a paragraph from one of her recent letters: "You asked me how I am going to spend my prize money. Well, I am going to put it into some better stock. Mamma and I are going into the pure-bred business on a larger scale this year. We are going to try to get rid of all the scrubs on the place. You know I had Light Brahmas last year. This year I will enter a pen of White Leghorns."

Lenore Rosiska, leader of Clay county, also writes that she is planning to use the cash prize which she won to better her flock of chickens.

Myrtle Dirks, leader of the Butler county club, didn't win a very large cash prize, but exhibits the true club spirit in regard to it. "We were all very much surprised to find out that Dorothy and I both won prizes. It isn't so much the amount of money in the prize that I value as it is the fact that I won a prize with so many other girls trying to win it." Dorothy Dirks says she is going to try to make enough money from her chickens this year so that she can come to the big pep meeting at Topeka next fall. We hope she will succeed for we should all like to meet her.

And now I have some good news for you. We have received so many requests for copies of the Standard of Perfection that we have decided to order several copies of this book. We will keep them here and you may order them direct from us. It would be a good plan for the members in one county to club together and buy a Standard of Perfection for their library. If you would like one of these books write and let us know.

We are already receiving reports of good meetings held this month. The poultry club and pig club members of Rice county met at the home of Myrtle Edgar for their January meeting. Seven girls, three mothers and four boys were present. Ruth Stone tells about the meeting in a very interesting way. "Before dinner we just visited and after that we wrote letters to you. Then we had a short program and a talk. The talk was given by Waldo McBurney, pig club member. He didn't name his talk, but I call it 'Pep and Co-operation.' I tell you we are doing some plotting against that trophy cup. I won't tell you what Waldo said, but you very likely will see the effects of it. After the program we practiced our new club song and made plans for



Velma Sigle of Osborne County.

a county paper. We took some pictures too. We are planning to meet every month and would like to elect our county leader as soon as our membership is complete, which will be just as soon as one other girl files recommendations. Then we will be on the high road to success and the whole state will thrill with our doings." Better watch out for the Rice county girls. They are going to make the rest of you hustle to win that pep trophy this year.

Entry Blanks for Your Chickens

No doubt by this time you have received an entry blank for your chickens. Don't forget that while it isn't necessary for girls in the pen department to enter their chickens until April 15, they may be entered in the contest as early as February 1, and it is much better to get an early start in the club work. Girls in the baby chick department may also enter their chicks as early as February 1, but the latest date for entry in this division is May 15.

Just as soon as we can get Arthur Capper's signature on the Certificates of Achievement and Diplomas of Honor they will be sent out. I know that each one of you who receives one of these rewards for good work will prize it highly. Miss Schmidt and I are more than proud of the way in which the girls in last year's club carried on their work and are glad that so many of them will be with us again this year.

I'm sure you are glad to make the acquaintance of Velma Sigle of Osborne county. Velma held sixth place in the open contest. She entered Rose Comb Rhode Island Reds in the contest last year and made a profit of $198.77. Of course, she is planning to remain in the club another year.

An army mule at one of the cantonments "went West." The private who had charge of the last rites had to fill out the regulation form, and came across the suggestion, "Disposition of carcass."

After a moment's thought Sammie wrote on the blank line:

"Mean and deceitful."—Dallas Holland's Magazine.

Poultry Raising Machinery

BY F. E. MUSSEHL

Compared with other common farm animals the hen is rather short lived. The first two years of egg laying are the most profitable and very few birds lay enough eggs during their third year and after to pay their keep. The shortness of the period of profitable laying makes it important therefore that we replace the farm flock on an average of once every two years.

The improvement of the incubator and brooder has made it possible to hatch and raise stock needed for replacement with a minimum amount of labor. Twenty years ago incubators were novelties of the first class but now hundreds of thousands of incubators are in use on corn belt farms. The assessors reports show that 21,000 incubators and brooders are in use on the general farms of one Mid-West state alone. Verily incubators have become a necessity where early chicks are desired, where non-sitting breeds are kept, where many chicks are desired at one time and where labor is an important item.

Incubators have been so much improved as to be almost automatic at the present time, so that even the relatively inexperienced poultry keeper can by following the manufacturer's directions, hatch a good percentage of the eggs which are put into it.

The function of any incubator is simply to provide optimum conditions of temperature, moisture and ventilation for the growing embryo. Most of the standard makes of small lamp heated machines provide these conditions when properly managed and so fill a real usefulness as part of the poultry raising equipment on thousands of Mid-West farms.

During recent years the larger mammoth type of incubator has been perfected, their development being responsible for the rapid growth of the baby chick industry. The mammoth machines are usually heated by a hot water system which provides the radiant heat in the egg chambers in which the eggs are placed. Machines of this type with a capacity of as many as 30,000 eggs are being manufactured. The Lasher hatchery in the Petaluma district of California with a capacity of 125,000 eggs at one time, was until recently the largest commercial hatchery in this country but a Cleveland, Ohio hatchery now has a half million egg capacity.

Machinery for raising the chicks after they are hatched has also been much improved. The small lamp heated machines which were widely used seven or eight years ago, still fill a definite need when small flocks are to be raised, but these have been forced to give way to the coal burning brooder stoves in many instances. The economy of labor which is effected when chicks are raised in larger flocks is the factor that has made these machines especially popular. Brooder stoves can be used in permanent buildings or portable colony houses. When used in a colony house the pullets may be brought to maturity right in the house in which they are started.

Most of the brooder stoves are adapted to the use of both hard and soft coal tho hard coal is of course always preferable because it will hold fire better over night. The dependability of this kind of brooding equipment makes it especially useful for early brooding when outside temperatures may sometimes go down to near zero. At such times the advantage of a coal burning brooder over lamp burners will be very apparent.

A word of warning should be given here against over-estimating the capacity of these brooder stoves. From 100 to 500 chicks may be brooded with these brooder stoves, altho flocks of 350 are most desirable and beginners had best start with no more than 250 chicks in one flock. Special attention is advisable the first few nights after the chicks are put under the brooder to see that they do not crowd in the corners.

New ideas and new methods of hatching and raising poultry are constantly being tried out and the limit of possibilities has by no means yet been reached. Electric incubators and electric brooders are now being perfected and these will no doubt prove valuable additions to the poultry raising equipment of the future.

Healthy *and* Vigorous Fowls Mean Strong Livable Chicks



Mating Time

One of the most important seasons of the poultry year is at hand. At mating time your hens and roosters should be in the pink of condition. Start in now to condition your breeding stock for the spring hatch.

Dr. Hess Poultry Pan-a-ce-a

increases the vitality of the parent stock, gives you fertile eggs, insures a hatch of good, strong, vigorous chicks.

Speed up egg production during winter with Dr. Hess Poultry Pan-a-ce-a. It contains tonics that promote a hen's digestion, tonics that tone up the dormant egg organs—so that the proper amount of food goes to egg production—and not all to flesh and fat and laziness—when it's action and eggs you want.

Pan-a-ce-a supplies the additional iron for the blood—which is essential to the speeding-up process. It contains certain forms of lime, that supply needed material for making egg shells. Also internal antiseptics.

Feed Pan-a-ce-a to all your poultry to make and keep them healthy. The dealer refunds your money if it does not do as claimed. Tell the dealer how many fowls you have and he will tell you what sized package to buy. Always buy Pan-a-ce-a according to the size of your flock. 30c, 75c and $1.50 packages. 25-lb. pail, $3.00; 100-lb. drum, $10.00. Except in the far West and Canada.

DR. HESS & CLARK, Ashland, Ohio





GILBERT HESS, M.D., D.V.S.

Dr. Hess Stock Tonic
A Worm Expeller.
A Conditioner for Spring Work.

Dr. Hess Instant Louse Killer Kills Lice

Progressive Poultry People Are Raising Their Chickens with the

SURE HATCH INCUBATORS AND BROODERS

You can raise more chickens and do it easier than with hens. Less work and greater profits. Sure Hatch Incubators are time-tried and scientifically correct. Made of California redwood. Double walls, insulated. Copper hot water heating system. Automatic heat regulator. Roomy nursery with chick tray. Built in three sizes.



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beats 'em all for raising chicks. Cast iron stove heated with coal. Pure fresh air and even heat. No crowding or smothering. Raise all your chicks. Let us tell you about our Sure Hatch System.

FREE Send for Sure Hatch Book. Tells all about profitable poultry raising.

SURE HATCH INCUBATOR CO.
Box 14 Fremont, Nebr.

HOME MADE BROODERS

With warm medicated dirt floors and feather hovers. Saves the incubator chicks. You can change any old brooder into these, or make them from an ordinary box. We will send you this information absolutely free. Also tell you why chicks die in the shell just at hatching time. Send us your name today.

RAISALL REMEDY CO., BLACKWELL, OKLAHOMA

BOTH for $17.25 Freight Paid East of Rockies

You Take No Risk with an Ironclad THE IRON COVERED INCUBATOR

Why pay more? For $17.25 you can get these 2 unbeatable machines, set up complete, ready for use, delivered, freight paid east of Rockies.

Money Back if Not Satisfied We will send both machines—let you use them 30 days—and if you don't find them satisfactory, send them back—we'll pay the freight charges and return your money. You are absolutely safe.



150-Egg Incubator—150-Chick Brooder Don't class this big galvanized iron covered, dependable hatcher with cheaply constructed machines. Ironclads are not covered with cheap, thin metal and painted, like some, to cover up poor quality of material. Ironclads are shipped in the natural color—you can see exactly what you are getting. Made of genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery, hot water heater, COPPER tanks and boiler, self-regulator, Tycos thermometer, glass in door, and many other special advantages fully explained in free catalog. Write for it TODAY or order direct from this advertisement.

30 Day Trial 10 YEAR GUARANTEE!

IRONCLAD INCUBATOR CO., Box 87, Racine, Wis.





The Human Side of Service

More than a year has passed since the signing of the Armistice, yet all the world still feels the effects of the War. The Telephone Company is no exception.

More than 20,000 Bell telephone employees went to war; some of them never returned. For eighteen months we were shut off from practically all supplies.

War's demands took our employees and our materials, at the same time requiring increased service.

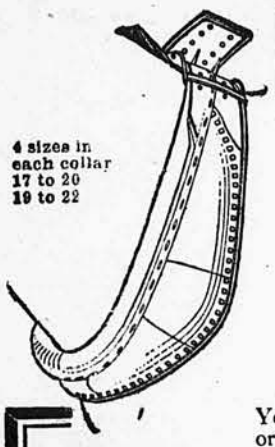
Some districts suffered. In many places the old, high standard of service has been restored.

In every place efforts at restoration are unremitting. The loyalty of employees who have staid at their tasks and the fine spirit of new employees deserve public appreciation.

They have worked at a disadvantage but they have never faltered, for they know their importance to both the commercial and social life of the country.

These two hundred thousand workers are just as human as the rest of us. They respond to kindly, considerate treatment and are worthy of adequate remuneration. And the reward should always be in keeping with the service desired.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY
AND ASSOCIATED COMPANIES
One Policy *One System* *Universal Service*



The Practical Adjustable Collar

See How Easy It is Adjusted

The top of the FitZall Adjustable Collar is two broad flaps with four sets of holes punched into each flap. Place the first pair of holes of each flap over the pegs on the cap to make the largest size, the second to make the next largest, etc.

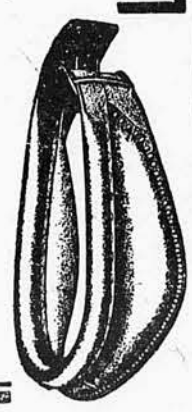
It Always Fits

You can change the size to fit the horse if he gets fatter or thinner—or to fit other horses perfectly. You know a collar that fits never hurts any horse.

FitZall Adjustable Collars Save

Save time because they never punish the horse but help to keep the horse in good working condition.

Save money because you never have to discard one when a horse dies or is sold. You don't need a collar for every horse—one for each harness is enough. FitZall collars wear longest because they're made right—but they cost no more.



FitZall Collars Are Guaranteed

Most dealers are glad to sell FitZall collars because they know FitZall collars are best for the horse. They know we back every collar with a guarantee of satisfaction or money back. Don't let any misinformed dealer talk you out of trying them. Write for prices. If your dealer can't supply you we will.

JOHN C. NICHOLS CO.
1706 Erie St., Sheboygan, Wis.
Makers of "Master Brand" Harness *America's Best*

Capper Pig Club News

This Stafford County Boy Won $90 in Prizes

BY EARLE H. WHITMAN
Club Manager

IN EVERY Capper Pig club contest Stafford county boys have shown up well. Individual members have been winners, and in 1918 the club narrowly missed winning the special county prize. It remained for Edward Slade, county leader for 1919, to take first place among the cash winners for last year, to receive a $50 prize gilt, and to show an enviable profit record.

Sometimes when a Capper Pig club member has shown up unusually well, folks have said, "Yes, he made his big money selling high priced breeding stock, and had to pay a big price for his contest sow." The real value, perhaps, of Edward Slade's record in 1919 is that it was made under ordinary farm conditions, with an average priced purebred sow, and with a litter only slightly above the average size for the contest.

After being awarded the $20 first cash prize and the fine $50 Duroc Jersey gilt from D. O. Bancroft's herd, Edward had another surprise. Just to prove that the boy's showing wasn't a "fluke," and that raising good hogs runs in the family, "Dad" Slade came across with a record for the year's work on the farm herd that placed him at the head in the father and son department. This added another $20 to Edward's prize money, making a total of $90 in prizes. Some winning for one boy, wasn't it? But Edward's a hustling chap, and he knows how to raise pigs. Here's his account of the year's contest work, written December 15, the date the contest for 1919 closed:

"One year ago today I sent in my application for membership in the Capper Pig club for 1919. I had been in it in 1917, but as my brother wanted to go in last year I did not join. I soon received the necessary blanks and after getting them properly signed I sent them in. I was soon a full member.

"I kept looking for a good sow all winter and on March 19 I purchased a Duroc Jersey from a neighbor for $60. She weighed 390 pounds. I took her home in a wagon, handling her as carefully as could be. I was surely proud of her and gave her the best of attention. I let her run on a large alfalfa patch and fed her in addition a little corn and shorts.

"On April 26 she farrowed 14 pigs but saved only eight. I was somewhat discouraged, but resolved to try all the harder. I kept the pen aired out well, bedding it down once a week with straw. I also sprayed it with disinfectant to kill all germs. My pigs grew just like weeds and on June 26 I weaned them and took my sow out of the contest. She weighed 400 pounds, a gain of 10 pounds. On July 1 I sold her for $65, a gain of $5.

"I took the best of care of my pigs during the summer months letting them run on alfalfa pasture, besides feeding them enough corn and shorts to keep them doing well. After the alfalfa pasture was gone I turned them in on some rye pasture and they seemed to do as well on it as they did on the alfalfa.

I took my pigs out of the contest December 9. The total pounds of pork produced including the 10 pounds gain on the sow was 1,810. The total feed fed to sow and pigs while in the contest is as follows, according to contest prices:

2,805 pounds of corn at $2.50 a hundred	$70.10
250 pounds of shorts at $2 a hundred.	5.00
2 months alfalfa pasture, 8 head at 25 cents	4.00
1¾ months rye pasture, 8 head at 20 cents	$ 2.80
Total cost of feed	$81.90

"The actual cost was a little cheaper as I did not have to give anything for the rye and alfalfa pasture. The total cash spent for feed was $80.50. I could have sold my pigs on December 9 for $252, but for breeding stock they would be cheap at $350. I am going to keep them until spring and will no doubt clear more than that by then. My actual profit on pigs and sow if sold would have been $181.

"Considering my pigs as breeding stock, I will clear $274.50. One reason why I fed so cheaply was the rye and alfalfa pasture. Another was the attention and care that I gave them. The more you work with pigs the better they will do.

"I have enjoyed the club work very much and it is with regret that I cannot go on with it for 1920. I have learned things that will help me in my business life, and nothing else could have helped me more in some things than the pig club has. I wish to thank Mr. Whitman for all that he has done for me. He is certainly a fine leader among boys and club work. I also wish to thank Mr. Capper for making it possible for me to be in such a fine club as his and I certainly hope that I may have the honor of voting for him for President some day. I will close wishing the 1920 club the best of success."

Here's some good news for Coffey county boys: The county now has a complete membership. This is the first time in three years that the county has had a full team, and you just watch the fur fly when those 10 hustlers start after the pep trophy. There'll be something doing, and by the end of the year the rest of Kansas will know just where Coffey county is located. Here's the lineup:

Name and address	Age
Noble Bazil, Waverly, R. 2	15
Chester Wheeler, Gridley, R. 1	15
Manford Bazil, Waverly, R. 2	14
Noel Cooper, Hall's Summit, R. 1	14
Roy Barnett, Hartford, R. 2	12
Henry Mays, Lebo, R. 1	12
Edward Osman, Lebo, R. 2	18
Ben Kaufman, Gridley, R. 1	16
James Grimes, Burlington, R. 3	15
Lloyd Gillispie, Hartford	12

Other counties are nearing full membership, and applications are coming in fast. Remember, enrollment ends March 1. Boys who now are members should get out and hustle some teammates, and the chaps who have put off joining better fill out and send in the application coupon without further delay.

Capper Pig and Poultry Clubs

Capper Building, Topeka, Kan.

Earle H. Whitman, Club Manager; Bertha G. Schmidt, Secretary. Send Pig Club applications to Mr. Whitman; Poultry Club to Miss Schmidt.

I hereby make application for selection as one of the representatives of.....county in the Capper .....Club.
(Write pig or poultry club)

I will try to get the required recommendations, and if chosen as a representative of my county I will carefully follow all instructions concerning the club work and will comply with the contest rules. I promise to read articles concerning club work in the Kansas Farmer and Mail and Breeze and will make every effort to acquire information about care and feeding of my contest entry.

Signed ..... Age .....

Approved ..... Parent or Guardian

Postoffice ..... R. F. D..... Date .....

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

Tom McNeal's Answers

Concerning Estates

(1) If a man died without will do the children have to sign deed if the land is sold?

Answer: If they are of age, yes. If they are minors the probate court could order the guardian to sign for them.

(2) In leasing farm for oil do the sons-in-law have to sign the lease?

Answer: If their wives have an interest in the land to be leased the husbands should sign with them.

(3) In case a man dies without will and one of his daughters dies, would the surviving husband of that daughter have to sign the oil lease?

Answer: If the daughter died before the parent no title had passed to her and consequently none passes to her husband. In that event he has no interest in the land and should not sign the lease. If however the daughter survived her parent, the inheritance passed to her and upon her death her husband inherits either half or all of her share of the estate and having an interest in the land should sign the lease.

(4) If man and wife have homestead and wife dies without will can children claim half of farm?

Answer: Unless the homestead was held jointly by the husband and wife no share of it passes to her children at her death and children consequently have no claim until the death of the father.

(5) If daughters inherit half of an estate where no will has been made and one daughter dies, does her husband inherit the undivided interest that belonged to his wife?

Answer: If the daughter had no children her surviving husband would inherit her interest in the estate if she left no will. If she left children they would inherit one half of their mother's interest.

Liability of Thresherman

A does B's threshing. After the job is completed B discovers that there has been an unusual amount of grain blown over into the straw and immediately claimed damage from A on account of bad job. A's partners admit that after finishing B's job they examined the separator and found the riddles out of fix. Is A legally liable for damage?
READER.

A is bound to do the job in a reasonably careful and workmanlike manner. If he did not do so he is liable. If B can prove that the machine was in a defective condition, so that it could not make a reasonably clean separation his measure of damages is the amount of grain lost by him on account of the defective machine.

Widow and Homestead

A man files on a homestead claim and after living on it four years dies, leaving a widow and children and the widow proves up on the land. After a few years she sold the land. Some of the children signed the deed while some did not. Can those who did not sign the deed hold the purchaser for a part of the land, or the proceeds of the sale?
SUNFLOWER.

In my opinion the widow had a right to sell the land and the signatures of the children to the deed were not necessary.

When Girl May Marry

Can a girl under 18 years old get married without her parent's consent in Nebraska? Is there any other state in which she can?
MRS. A. C. E.

The legal marriageable age in Nebraska is 18. Girls may marry when 12 years old without their parents' consent in Tennessee and at 16 in the states of Maryland and New Hampshire.

State Officers

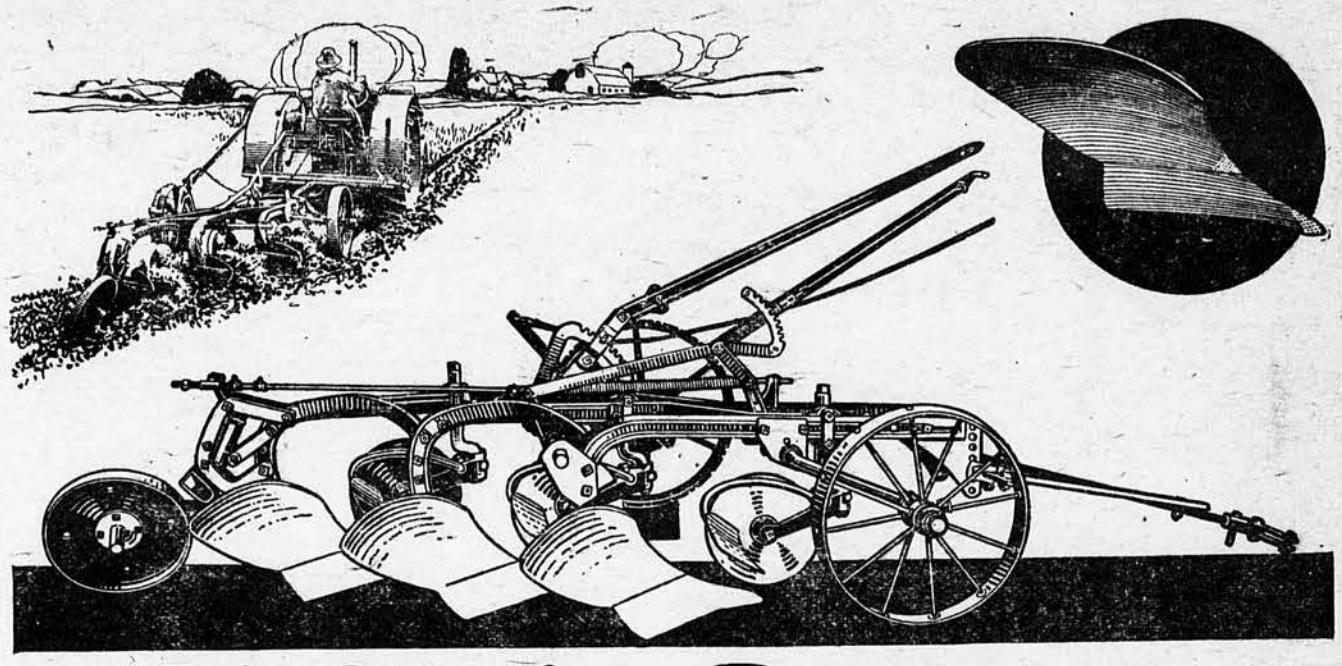
Will you please give me a list of the appointive officers and the officers elected in the state of Kansas?
LEO BRALEY.
Towanda, Kan.

There are several hundred elective and appointive officers in the state of Kansas. I have not the room to give all of them but if you will write to either the auditor of state or the secretary of state you may be able to get a pamphlet giving a complete list.

Taking Ice From Creek

I would like to know if we would have the right to forbid people taking ice from the creek that flows thru that part of our land described in the deed as follows: "So much of the west half of the northwest quarter of section twenty-five (25) as lies north of the southern bank of Marivaiesterre creek including said creek and its bed."
SUBSCRIBER.

You have a right to forbid the cutting of ice from the creek where it flows thru your land and belongs to you.



It's in the Bottoms

BOTTOMS are to a plow what the blade is to a knife or the barrel is to a gun. They govern the quality. They determine the investment value when you buy. Before you buy a tractor plow, take time to examine the bottoms on

JOHN DEERE
TRACTOR PLOWS

Into everyone of these bottoms goes the best of material and workmanship. They scour, make thorough seed beds and are long lived. There are shapes and styles to suit every requirement.

Compare them point by point with any other bottoms you have seen. Note the shape that assures good scouring, pulverizing and light draft, the special reinforcement at points where wear is greatest, the close-fitting of parts, and how the extra strong frog gives perfect support to the moldboard, share and landside.

Note the simple, durable, convenient device that makes the shares quick detachable and keeps them close fitting. You can remove a share by loosening one nut. Tighten the same nut and the share is on tight. *It stays tight.*

You'll like the way John Deere Tractor Plows are made throughout.



The beams are guaranteed not to bend or break—there is no time limit on this guarantee. The heavy beam braces are long lapped and securely joined to beams with heavy bolts and lock washers. The simple strong and positive power lift raises bottoms high and level.

The lifting mechanism moves only when the plow is being raised or lowered—practically no wear. There is great clearance in throat of beam—no clogging in trashy soil. The hitch is widely adjustable up and down or to the side—these plows can be used with any standard tractor

Don't fail to go to your John Deere dealer's store to see John Deere Tractor Plows. You can get the size to suit your tractor—two bottom, three bottom or four bottom.

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HOUSEHOLD MAGAZINE, Dept. F. B., Topeka, Kansas

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CAPPER'S FARMER, Picture Dept., Topeka, Kan.

Apron Pattern Free



This pretty new one piece house apron is one of the most practical that can be worn. It is simple, attractive and comfortable. The apron is a one-piece model, buttoning on shoulders. The pattern is cut in three sizes—small, medium and large.

Special 20 Day Offer. To quickly introduce The Household, a big story and family magazine, we make this liberal offer good only 20 days: Send 25 cents for a one-year subscription and we will send you this Apron Pattern Free. Be sure to give size and say you want pattern number 9008. Address

THE HOUSEHOLD
Dress Dept. 56, Topeka, Kan.

Automobile or Work Gloves



These Gloves are made Gauntlet style from Automobile top material and trimmings. They will outwear several pairs of ordinary cotton gloves. They will protect your hands and are exceedingly comfortable as they give plenty of finger freedom and they are waterproof.

These gloves are just the thing for fall and winter automobile driving or work gloves. They are well made, pliable and durable. We purchased a large supply of these gloves to give to our readers, and we want you to write for your pair today.

SPECIAL OFFER: We will send one pair of these gloves to all who send us $1.00 to pay for a one-year subscription to Kansas Farmer and Mail and Breeze, or $2.00 for a three-year subscription. New, renewal or extension subscriptions accepted on this offer.

KANSAS FARMER AND MAIL AND BREEZE, Topeka, Kansas.
Enclosed find $.....for which enter my subscription to Kansas Farmer and Mail and Breeze for the term of ..... years and send me a pair of gloves postpaid.

Name .....

Address .....

"This nation depends more on dairy foods for its physical welfare than any other foods, and the dairy farmer truly performs a tremendous service in the production of such foods."

—P. M. SHARPLES

"There are no substitutes for dairy foods."

There is a cream separator expert in your neighborhood—

the SHARPLES dealer

HIS advice on modern dairy equipment can mean a lot to you. He stands ready to help the farmer, and his sound judgment on farm and dairy equipment can be relied upon—proved by the fact that he sells the Sharples Suction-feed Cream Separator.

He has elected to sell the Sharples only after a careful study of all cream separators. He has proved to his own satisfaction that the Sharples *"does"* skim clean at any speed." He will gladly demonstrate that fact to you.

The Sharples Suction-feed has other exclusive features; simple, one-piece bowl (no discs), knee-low supply tank, automatic once-a-month oiling system, simple construction that means longer wear. Let the Sharples dealer in your neighborhood show you how these features (found on *no other separator*) will increase *your* dairy profits.

Sharples

SUCTION-FEED CREAM SEPARATOR



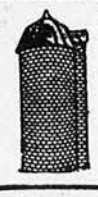
Skims clean at any speed

Write to nearest office for illustrated booklet describing the Sharples Suction-feed Separator.

Dept. 15

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Save 10% by ordering now. Pay later when silo arrives. Send for Catalog No. 5.
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116-inch Wheel Base
158-inch Spring Suspension
5-Pass. Touring

To drive and demonstrate 1920, 4-cyl., 37 H. P. BUSH Car—Timken Bearings—Willard Batteries—2-Unit Str. & Ltg.—Full Floating Axel. Write at once for the best Automobile Offer in existence—don't wait—prompt shipments. Money-back guarantee.

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gives that even, golden shade everybody wants. *Purely vegetable.* Harmless. Meets all laws. Small bottle costs few cents at any store. Enough to color 500 lbs.

Panama Canal Book 10c

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

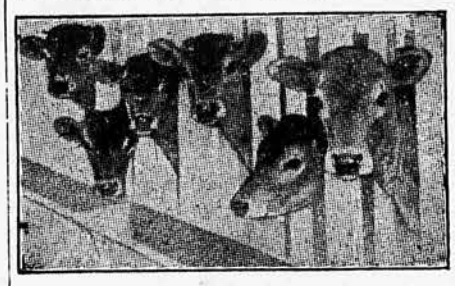
With the Capper Calf Club

What County Will Have Five Members First?

BY EARLE H. WHITMAN
Club Manager

DID I HEAR someone ask whether there is any enthusiasm in the Capper Calf club? I'll say there is! If you could see the piles of applications, recommendations and letters on the club manager's desk, you'd say, "The other Capper clubs are going to have to go some if they stay ahead of the Capper Calf club." And you'd be right, too, for many counties are getting a good start in membership, and in several counties only one or two places are vacant.

I'm just so eager to see what county will be the first to have five members enrolled. Pottawatomie stands the best chance, with four hustling boys in line. Boys, mind you! Where in the world are the Pottawatomie girls? Won't it be fun if we have some counties with five girls and some with five boys? Be some rivalry, won't there? After all, tho, I shouldn't wonder if the mixed teams will pull the best, for neither the boys nor the girls will be



Jerseys—and Proud of It.

willing to lag behind. We'll see when the contest really begins, and the one thing I am sure of is that the race for that big pep trophy will be something worth watching.

Already the boys and girls with pep are beginning to show up thru correspondence with the club manager. "I got my recommendations today," writes Emmett Herman of Dickinson county. "I didn't have a bit of trouble getting them. I went to town this morning before school started and got the cashier and postmaster to sign, and tonight I went to the neighbor. I tell you that old Dickinson county is going to lead this year. Let me hear from other club members as we want to make 1920 the greatest club year ever." Doesn't that sound snappy? There'll be something doing in Dickinson when Emmett gets three more teammates lined up—for he already has one.

Every day I'm much pleased to get letters from boys and girls who have been in other Capper clubs and who want to try the new one. Out in Lincoln county two old members, Donald Buchanan and Lewis Schmidt, have enrolled. Waverly Stearman of Harper is in the game, and says, "I'm sure going to have a full team for the Capper Calf club."

One time, a good many years ago, when I was a boy—not so very many years ago, either—I had as pretty a little Jersey calf as ever you saw. What a pet that calf was! She'd come to me from almost anywhere, and I really fear that she was babied and given better care than she deserved. Perhaps I had that pretty little Jersey heifer in mind last week when I promised to tell you something about the Jersey breed of cattle. Of course, I can't begin to tell you all the interesting things about the Jerseys, but I've tried to get together enough information so that you will have some knowledge of the breed if you decide to enter a couple of Jersey heifer calves.

Have you studied anything recently about the Channel Islands, over there in the English Channel between England and France? Well, on one of those islands—the Island of Jersey—originated the breed of cattle known as Jersey. Of course, there wasn't any first pair of Jerseys from which to start the breed. The inhabitants of the Island of Jersey probably crossed their native stock with some of the native stock from the European mainland, only a short distance away. The result of many years of breeding for better animals was the Jersey as we know the breed today. The best types were chosen from the herds on the Island, and soon a law was passed forbidding the importation of any cattle to be bred to the fine breed which the people of the island were building up.

Jerseys were first imported into the United States about the middle of the last century, and since that time more have been brought in almost every year. The breed probably has the largest numbers and widest distribution of all the dairy breeds in this country.

Jerseys vary considerably in color. The solid-colored animals are preferred by many breeders. Various shades of fawn, squirrel gray, mouse color, and very dark brown are common colors, and in the broken-colored animals white is mixed with these colors. The muzzles and tongues usually are black or lead colored, and it is very common for animals to have a light or mealy ring around the muzzle. A black switch also is a desirable feature. Next to the Guernsey the Jersey has the yellowest skin secretion of all the dairy breeds. The horns are small and waxy, and frequently are tipped with black.

Jerseys are the smallest of the dairy breeds. Mature cows range from 700 to 1,300 pounds in weight, with an average of about 900 pounds. Animals of this breed mature very early, in this respect excelling all other dairy breeds.

There, I believe that's about enough to give you some idea of what Jerseys should be, what they look like and where the breed originated. How do you like the idea of studying a little about each of the well-known breeds of cattle? Next week we'll talk about the Holsteins.

Success With Hogs

An interesting book on swine has just been issued by Forbes & Co., Chicago. This is Success With Hogs, by Charles Dawson, and it consists of 268 pages. The price is $1.25.

"I don't think that women have always been vain; you know that women were made before mirrors."

"Yes, and they have been before them ever since."—Utica Globe.

The Capper Calf Club

Capper Building, Topeka, Kan.
Earle H. Whitman, Club Manager

I hereby make application for selection as one of the representatives of.....county in the Capper Calf Club.

I will try to get the required recommendations, and if chosen as a representative of my county I will carefully follow all instructions concerning the club work and will comply with the contest rules. I promise to read articles concerning club work in the Kansas Farmer and Mail and Breeze and will make every effort to acquire information about care and feeding of my contest entry.

Signed ..... Age .....

Approved ..... Parent or Guardian

Postoffice .....R. F. D.....Date .....

Age Limit: 12 to 18

New Electric Milking Machine

A small electric milking machine mounted on wheels so it can be moved from cow to cow has just made a considerable stir in the dairy world. The new Moto-Milker requires no pipe-line or installation, is ready to use when unboxed, and is so simple and handy that it is suitable for the vast number of dairies having from eight to 20 cows.

Cups with rubber linings fit over the cows' teats, and a gentle suction sucks the milk out. Then, intermittently, compressed air squeezes and massages the teats to keep them in perfect condition. The milking is done almost exactly as the calf does it, and the method is really far more natural and calf-like than squeezing the teats by hand.

The gentle massage by compressed air is comfortable to the cow and makes her let her milk down faster. Fast milking is generally believed to increase a cow's milk production as time goes on, and government and other tests have proved it to be the case with this milker.

The same milking principle in exactly similar teat cups with the compressed air squeeze is now in use on over 1 million cows, many of them purebreds that have been milked in this way for six and seven years running. Hence the good effect on the cows is well established and is recognized by most agricultural colleges.

The new electric milker is simple in the extreme. An electric motor drives a slow moving piston which makes suction on the back stroke and compressed air on the forward stroke. This piston gives the slow pulsation of suction and pressure which milks the cow so comfortably. Rubber tubes connect the pump to the milk pail and teat cups. No gas engine is necessary and most of the parts needed on pipe-line milkers are eliminated. There are no pulsators, no gauges, no tanks, no belts, no pipe lines, no stall cocks, no springs, and the high speed pump and gas engine are eliminated. Any ¾ K. W. farm lighting plant will run the milker, the power cost being about 2 cents a day.

Two cows (eight teats) are milked at a time, and one man can milk about 18 to 20 cows an hour. Thus, one man does the work of approximately three persons not only releasing the other men for other work, but making the owner entirely independent of hired help so far as the dairy is concerned. The labor saving usually amounts to between $300 and $400 yearly. In a rush time or if the help should leave, the farmer can order one of these machines during the day and be using it the same evening.

Reasons for Testing Corn

The average farm has perhaps 25 acres of corn with an approximate stand of 72½ per cent. This means there are 5.87 slacker acres in every 25 acres of corn.

By a germination test of every seed ear, a perfect stand so far as seed is concerned can be had. Allowing 12½ per cent decrease for unavoidable losses, wind, weather and pests, a gain of 15 per cent of corn is still possible as a result of testing.

This additional 15 per cent of corn would mean approximately 4½ bushels an acre. On the average farm this would mean 112 bushels.

It costs 5 cents an acre to test each ear of seed corn.

Individual tests are necessary to attain maximum production.

These are reasons why seed corn should be tested before planting. After all, the appearance of the ear is not final—it must have good germinating qualities.

Advertisements Guaranteed

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



The Simple, Natural Way of Separating Cream

Here is the cream separator that does not fight Nature's laws. Works just like Nature—only in seconds in place of hours. *Light cream rises to the top of the bowl. Heavy milk flows to the bottom of the bowl. "Great Western's" way is the natural, the right way, to separate cream.*

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Warm water poured into the tank rinses the bowl, drains itself clear through and out the milk spout. Makes cleaning easy. A quick washing and scalding does the rest. The "Great Western" bowl can not clog—cannot run over. Self draining construction prevents it.

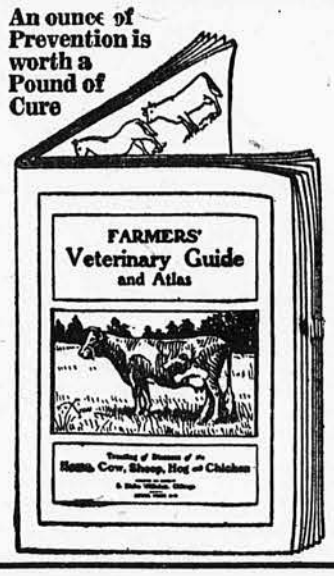
Extra low tank. Swings out of the way. Never has to be bailed out or lifted off. Ball bearings and perfectly balanced bowl guarantee easy operation. Standing or sitting the high crank turns with little effort. All gears enclosed. These, and a dozen other big features will decide you in favor of the "Great Western."

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GREAT-WESTERN THE WORLD'S BEST ROCK ISLAND PLOW CO.
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If Your Livestock Is Worth Money Is It Worth Saving?

The Farmers' Veterinary Guide and Atlas will show you how to treat diseases of livestock. You cannot afford to pass up a single word of this advertisement. He who knows how to keep his livestock healthy has the key to prosperity. **This Atlas means as much to your livestock as fertilizer means to your grain crops.** It enables you to know what is the matter with your horse, livestock or poultry when sick, and what to do in order to relieve them. It gives information which will be the means of SAVING HUNDREDS OF DOLLARS TO YOU in the course of a year.

A Wonderful Work of Reference—This Atlas contains 25 large colored charts showing the anatomy of the horse, cow, sheep, hog and poultry, together with full description of the symptoms, treatment and remedy for all common diseases of livestock.

How to Obtain Farmer's Veterinary Guide and Atlas Absolutely FREE!

Send us $1.00 for a year's subscription, or $2.00 for a three years' subscription, to Kansas Farmer and Mail and Breeze, and immediately on receipt of same we will forward this Atlas, **entirely free and postpaid.** This offer is open to both new and old subscribers. This Atlas will save you many times the cost of your subscription in less than a year. **Send for your Atlas today while the supply lasts! Do it now!**

Kansas Farmer and Mail and Breeze,
Topeka, Kansas.

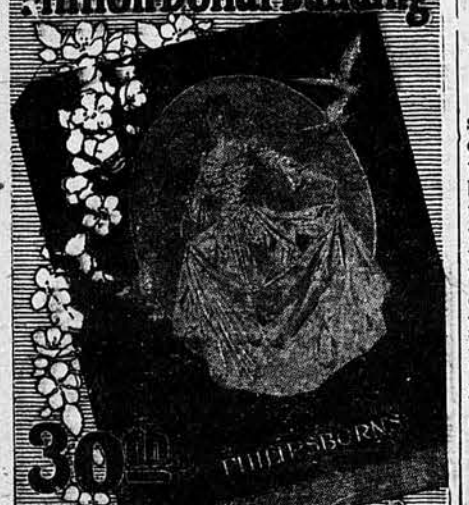
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Weeks Financial News

BY SANDERS SOSLAND

REDUCE YOUR loans! Reduce your loans! These are not the exact words of the Federal Reserve Bank of Kansas City, or of the other Federal Reserve Banks, but their urging for such a step on the part of banks and other interests is beginning to be heard almost everywhere. Quietly the Federal Reserve Banks have been urging a reduction in loans and the building up of reserves. Now they are openly and strongly pleading with the public to work with banks to effect liquidation of loans in every non-essential instance and on essentials where possible. This pleading is the factor around which every money market development is based. Nothing else compares with it in importance. It demands close attention.

So far as the probability of a decline in prosperity is concerned, it may be said that the calls for a reduction in loans will have exactly that effect. Having reached the limit of lending and seeing the need for reducing loans, the financial leaders of the country appreciate that to bring about the change means to reduce the amount of money in circulation. With less money circulating, there will be less to pay for commodities, whether silk shirts or food, and prices will therefore recede.

With discounting of loans on cattle at 6 per cent at the Federal Reserve Banks, the profit of banks in making loans to borrowers on cattle and everything else is reduced unless rates are raised. Besides, the Federal Reserve Banks prefer that no loans be discounted with them unless absolutely necessary. Now, with loans more difficult to obtain than a year ago and with some borrowers asked to pay higher interest rates, is it not probable that the competition for cattle among buyers for grazing purposes will be reduced? And does not reduced competition mean a bearish effect on prices? One might take any other livestock or farm product as an example and arrive at the same result. Conservatism is therefore in order. Where extreme scarcity is the rule prices will be least affected, of course, but even in these instances upward movements will be checked.

Higher Discount Rates Coming

Discount rates of the Federal Reserve Banks, it is again stated, will go higher and higher until loans are reduced. In the process of reducing loans, it will be well for those who appreciate the situation to anticipate the likelihood that the cost of money will be higher and that the supply will not be so great.

What, then, the farmer and the stockman may ask, shall we buy with surplus money which we are fortunate to have for investment outside of our immediate business needs? The answer is not different from what has been urged in this department of The Kansas Farmer and Mail and Breeze for many weeks—high grade, sound bonds. As the cost of money goes up, the bond market is weakened. But as the prices decline, business profits may recede. The owners of stocks, which represent share ownership in companies of various sorts, will find their division of dividends declining as profits of the corporations are reduced. But bonds, being liens against the companies for which the owners of stocks are responsible, will be safest and will return their annual interest before the owners of stocks receive any distribution. And when liquidation of loans has been completed and money begins to become cheaper, bonds will advance in principal and the interest returned by these securities will buy more food, more clothing, will pay for more rent and purchase more luxuries as well. There is more profit in sight, too, in buying farm mortgages which do not carry too heavy a loan an acre than in buying the land against which these mortgages are made. The land is based as a rule on high prices for products. The interest the mortgage bears, if the mortgage happens to be a new one especially, is based on the fact that just now the dollar does not mean so much. When the dollar buys more the land will not be so desirable while the mortgage will be more desirable because the interest from it will be unchanged. When money markets change so that lower rates are in sight, this department will record the situation. For the present, there is not in prospect anything except high rates on loans. Ultimately a reaction will come.

New low rates on foreign exchange have been recorded. This means encouragement to sell foreign goods to this country and a reduction in European buying here. Prices of stocks are easy. The bond market is quiet, with confidence in its future growing. Liberty Bonds are temporarily easy on account of continued pressure to stop borrowing against them, and no immediate improvement in their prices is probable. They are already very cheap, however.

Reducing Supply of Money

Pressure for a reduction in borrowing in the United States is increasing. More general attention is being given to the growing belief that over-expansion of credits was brought about in the past year. The reductions in the volume of loans now sought mean a decrease in the amount of currency in circulation and downturns in prices. The outlook is for dearer money to borrowers and for less lending even at higher rates of interest.

Sound long term bonds or first mortgages against property not valued at too high prices are the most attractive investments under present conditions.

Mohler Addresses Farmers

In an address before the annual meeting of the Farmers' Union of Kansas at Hutchinson recently, J. C. Mohler, secretary of the state board of agriculture, paid high tribute to the farmers of Kansas for responding to war-time needs by setting a new mark in the scale of their operations. Productions of wheat were particularly noteworthy, said the secretary, Kansas having produced during the war period 100 million bushels more wheat than the state ranking second.

Secretary Mohler emphatically denied the accusations of Eastern editors that the farmers were profiteering. He declared it was impossible for the farmers to profiteer, for the reason that they had nothing whatever to say as to what price they should receive for their products. Because the price of wheat has been much higher in the past few years than heretofore, farmers have very generally jumped to the conclusions that producers were making an unfair profit, entirely ignoring the fact that the cost of growing wheat has kept pace with the advance in price. Realizing that mere details will have little effect, Secretary Mohler informed the meeting that the state board of agriculture had gathered data direct from 2,000 wheat growers on cost of producing the 1919 wheat crop, and that these data were now being compiled in his office.

"The wheat growers of Kansas ask only fair play and no favors, and we are putting forth every effort to see that agriculture is given the recognition it deserves in these days of economic changes and readjustments. The facts we are assembling should be of great assistance."

More efficient practices were urged as thru diversified agriculture, with more livestock, alfalfa, sorghums, and silos, and greater use of the latest improved labor and time saving machinery.

Bright cheery homes are the most attractive. Why not buy that home electric light plant you have been talking about?

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Right Now is the time to look in your copy of our Annual Sale Book and anticipate your needs for two or three months at tremendous saving. If you haven't a copy borrow your neighbor's, or send us your name and address at once.

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MILKOLINE FOR HOGS 2¢ A GALLON

Hustles Heavy Hogs to Market

Cuts your feeding costs. Have bigger pigs, fatter hogs. Get them ready for market in far less time. You can do it. Prove at our risk that **Milkoline** is the surest farm money maker known.

Guaranteed Trial Offer We will ship you ten gallons, half a barrel, or a barrel. Take 30 days—feed half to your hogs and poultry. If not **absolutely satisfied** return the unused part and we will refund every cent you paid us—no charge for the half you used.

Milkoline has a base of Pure Modified Buttermilk to which essential fats and acids are added. **Milkoline** comes in condensed form. Will keep indefinitely in any climate. Will not mould, sour or rot. Flies will not come near it.

2c a Gallon For feeding mix one part **Milkoline** with 50 parts water or swill and feed with your usual grain feeds. It helps keep hogs healthy, their appetites keen and makes more pork per bushel of grain. Stop buying buttermilk of uncertain quality. Use **Milkoline** and you will always be sure of uniform acidity, and at a cost of 2c a gallon or less when fed as directed. Many users say **Milkoline** saves them one-third on feed bills because it makes their hogs and poultry assimilate all their feed.

1400% Profit W. H. Graham, Middleton, Mo., writes that he got an extra $420 worth of pork from $30 worth of **Milkoline** in a sixty day feed. He made an actual test of this lot of hogs in comparison with another bunch. We could quote hundreds of testimonials, but the best proof is that we legally guarantee **Milkoline** to be satisfactory or refund your money, (you are the judge) and refer you to S. W. Blvd. Bank of Kansas City, Mo., and R. G. Dunn & Co. **MILKOLINE is just as good for Poultry as for Hogs.**

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Farming Outruns Dictionary

A great many terms in common use in agricultural discussions have never found a place in the dictionaries. So widely used and important a term as "vitamin" has not yet found its way into the principal unabridged dictionaries. For the public, therefore, there exists no approved spelling, no approved pronunciation, and no approved definition of the name of a thing that is vital to all living things. There are scores of terms, indispensable in agricultural writing or speaking, that have not been recognized by the lexicographers, and there are quite as many new usages of established words. "Blood line," a term commonly used in discussions of breeding, is not in the dictionaries. Nobody knows whether it is one word, two words, or a hyphenated word. "Overrun," a term widely used to express the thing that is practically the determining factor of profits in creamery establishments, is unknown to the dictionaries. "Standardbred," "trap nest," and any number of other commonly used terms, understood well enough by agriculturists, remain undefined for the accurate information of the general public.

The United States Department of Agriculture, thru the joint efforts of the Bureau of Animal Industry and the Division of Publications, has begun a movement to standardize the use of such terms, and about 30 of them are on the griddle now. Three points of view are taken—that of the field man who knows the common usage of the layman, that of the scientist who has the viewpoint of the specialist, and the point of view that looks merely to the use of good English. Each word is submitted to the various classes of persons interested, together with the proposed usage and the authority or lack of authority for it. From the suggestions received in reply, the finally approved usage will be determined.

The first agricultural term to be acted upon in the manner described was "corn belt." That was considered more appropriate than corn-belt or cornbelt.

Altho the principal purpose is to establish approved usage for Department of Agriculture publications, lists of terms evolved will be supplied later to dictionary editors with the view of obtaining uniform national usage. The co-operation of agricultural experts and editors is invited.

Be Loyal

"If you work for a man, in Heaven's name, work for him. If he pays wages that supply you your bread and butter, work for him, speak well of him, think well of him, stand by him, and stand by the institution he represents.

"I think if I worked for a man, I would work for him. I would not work for him a part of his time, but all of his time. I would give an undivided service or none.

"If put to the pinch an ounce of loyalty is worth a pound of cleverness. If you must vilify, condemn and eternally disparage, why, resign your position, and when you are outside, damn to your heart's content.

"But, I pray you, so long as you are a part of an institution, do not condemn it. Not that you will injure the institution—not that—but when you disparage the concern of which you are a part, you disparage yourself."

--Elbert Hubbard.

Graded Eggs Bring Premium

Eggs from the Pacific coast in large amounts were first shipped across the continent to the New York City market two years ago. Now they are bringing a premium of from 1 to 2 cents, according to market quotations.

That this is due to the strict grading practiced by the shippers of the Far West is the belief of men in the Bureau of Markets, United States Department of Agriculture. The reputation for careful grading which the Westerners have attained in other products shipped East has spread to include eggs.

The Kansas Farmer and Mail and Breeze desires to get letters from all of its readers in regard to their successes or failures in farming last year. We will pay for all that we accept and publish.

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Saves the Grain — Stacks the Straw
THE INDIANA MANUFACTURING CO
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Southwest Mfg. Co., Oklahoma City, Okla.
Swayne, Robinson & Company, Richmond, Ind.
The Westinghouse Company, Schenectady, N. Y.

Canada

Robt. Bell Engine & Thresher Co., Ltd., Seaforth, Ont.
Dominion Thresher Co., Ltd., New Hamburg, Ont.
J. B. Dore & Fils., Ltd., Laprairie, Que.
Ernst Bros. Co., Ltd., Mt. Forest, Ont.
John Goodison Thresher Co., Ltd., Sarnia, Ont.
Hergott Bros., Ltd., Mildmay, Ont.
MacDonald Thresher Co., Ltd., Stratford, Ont.
Sawyer-Massey Co., Ltd., Hamilton, Ont.
Stewart Sheaf Loader Co., Ltd., Winnipeg, Man.
Wallace Machine Works, Ltd., Sussex, N. B.
Waterloo Manufacturing Co., Ltd., Waterloo, Ont.
R. Watt Machine Works, Ltd., Ridgetown, Ont.
George White & Sons Co., Ltd., London, Ont.

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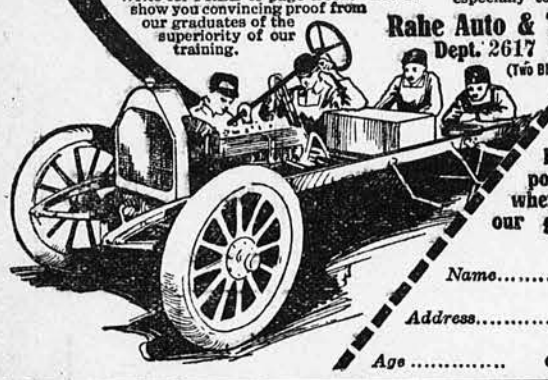
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E. McKENZIE, Manager
205 Capital Building, Topeka, Kansas

Kansas' Greatest Livestock Show

(Continued from Page 19.)

have won a lot of prizes, from third to seventh, had they been fitted. There is opportunity for some real educational work among the many comparatively new breeders who have a chance to benefit from participation in this show and this should be considered by the secretary of the Kansas Hereford Breeders' association.

Exhibitors—R. H. Hazlett, Eldorado, Kan.; Carl Miller, Belvue, Kan.; Klaus Bros., Bendena, Kan.; Warren T. McCray, Kentland, Ind.; W. H. Slicklau, Haven, Kan.; W. H. Tonn, Haven, Kan.; W. C. Cummings, Heston, Kan.; C. M. Largent, Merkel, Tex.; V. O. Johnson, Aulne, Kan.; The Howards, Comiskey, Kan.; Frank Brown, Byron, Okla.; Clyde Althenread, Hutchinson, Kan.; J. F. Miller, Driftwood, Okla.; William Fogo, Hutchinson, Kan.; J. E. Seibert, Pretty Prairie, Kan.; J. Blaine Adams, Dexter, Kan.; W. L. Biggs, Muskogee, Okla.

Judge—Prof. W. L. Blizzard, Stillwater, Okla.

Bulls—Aged: 1, McCray on Brummel Fairfax; 2, Hazlett on Vernon Druid; 3, Klaus Bros. on Beau Onward 52nd; 4, The Howards on Prince Rupert 64th. Two-year-olds: 1, Hazlett on Beau Blanchard 54th; 2, Romeo Fairfax; 3, Brown on Vernet Fairfax 17th; 4, V. O. Johnson on Caldo's Fashion. Senior yearlings: 1, Carl Miller on Gay Lad 71st; 2, Hazlett on Beau Gudgell; 3, Largent on Prince Lad 2nd; J. F. Miller on Beau Republican 6th; 5, Hazlett on Beau Hampton 2nd; 6, Schlickau on Lord Fairfax. Junior yearlings: 1 and 3, Hazlett on Bocaldo 17th and Bocaldo 19th; 2, Brown on Bonnie Boy; 4, Altenread on Leon 2nd; 5, 6 and 7, Cummings on Dirigo 12th, 11th and 9th; 8, Klaus Bros. on Beau Onward 85th; 9, Fogo on Good Enough. Senior calves: Hazlett on Hazford Bocaldo 3rd; 2, Largent on Prince Fairfax 2nd; 3, Kansas State Agricultural college on Rupert's Model; 4, Hazlett on Republican 12th; 5, Largent on Prince Fairfax Jr.; 6, Klaus Bros. on Beau Onward 86th; 7, Johnson on Beau Wonder; 8, Largent on Rhome Lad; 9, J. E. Seibert on Excellent Grant; 10, Carl Miller on Echo Lad 23rd. Junior calves: 1, McCray on Lowden Fairfax; 2, Hazlett on Publican 20th; 3 and 4, Johnson on Beau Baladin and Bright Lester 6th; 5, 6, 8 and 10, Schlikau on Ray, Omer Fairfax, Samson and Prime; 7, Cummings on Dirigo 17th; 9, J. Blaine Adams on Park Brummel 7th.

Cows—Aged: 1, McCray on Lena Fairfax; 2, Largent on New Year's Joy; 3, Klaus Bros. on Miss Onward 33rd; 4, Altenread on Opal 4th; 5, Brown on Dolores 5th; 6, Johnson on Princess de Best; 7, Schlikau on Jeanette; 8, Cummings on Maxino. Two-year-olds: 1, McCray on Lady Donald 1st; 2, Largent on Lad's Juliet; 3, Johnson on Echo Lass 111th; 4, Klaus Bros. on Miss Onward 33rd; 5, Cummings on Violet's Best; 6 and 7, Schlikau on Freda and Easter. Senior yearlings: 1, Hazlett on Buleen 3rd; 2 and 3, McCray on Orphan Lassie and Cynthia Fairfax; 4, Largent on Frances Lassie; 5, Johnson on Colone; 6, Kansas State Agricultural college on Elena Jean; 7, Schlikau on Belle 3rd. Junior yearlings: 1, Largent on Beauty Fairfax 2nd; 2, Carl Miller on Echo Lass 162nd; 3, W. L. Biggs on Orme Fairfax; 4, 7 and 8, Klaus Bros. on Miss Onward 65th, Miss Onward 64th and Miss Onward 59th; 5 and 6, Johnson on Daisy Ardmore and Mille; 9, Cummings on Lady Julia. Senior calves: 1, Hazlett on Donabel 2nd; 2, McCray on Hazel Farmer; 3 and 6, Largent on Patricia and Formoso 3rd; 4, Hazlett on Hazford Lass 12th; 5 and 7, Brown on Disturber Queen 5th and Goldie; 8, Klaus Bros. on Miss Onward 70th. Junior calves: 1, McCray on Jewel Fairfax; 2 and 3, Largent on Beauty Fairfax 2nd and Lady Olie; 4, Carl Miller on Echo Lass 179th; 5, W. L. Biggs on Josie B; 6, Brown on Baby Fairfax; 7 and 9, Johnson on Princess Fairfax and Elsie Fairfax; 8, Klaus Bros. on Miss Onward 78th.

Championships—Senior and grand champion bull: McCray on Brummel Fairfax. Junior champion bull: Hazlett on Bocaldo 17th. Senior grand champion female: McCray on Lena Fairfax. Junior champion female: Hazlett on Buleen 3rd.

Groups—Senior herd: 1, McCray; 2, Klaus Bros.; 3, Schlikau. Junior herd: 1, McCray; 2, Largent; 3, Klaus Bros. Calf herd: 1, Hazlett; 2, McCray; 3 and 4, Largent; 5, Klaus Bros. Get of sire: 1, McCray on get on Perfection Fairfax; 2, Hazlett on get of Bocaldo 6th; 3, Largent on get of Beau Onward. Produce of cow: 1, McCray; 2, Hazlett; 3, 4 and 5, Largent; 6, Johnson; 7, Klaus Bros.

Holstein-Friesian Cattle

The Holstein exhibit was the most attractive in the building and one of the largest, there being between 25 and 30 herds represented. The ring of aged cows was so remarkable that the management of the show ordered a photograph made of the nine money winners. There were 27 cows in that ring, a stronger showing of Holsteins than has ever been seen except in the national dairy shows. The number of valuable herd bulls on exhibition was hardly less remarkable. The degree of satisfaction expressed by participants and management indicates that the Holstein section of the Kansas National is just getting a good start.

Exhibitors—Robinson & Shultz, Independence, Kan.; Harry W. Mollhagen, Bushton, Kan.; J. R. Pringle, Wichita, Kan.; O. G. High, Derby, Kan.; Axtell & Hershey, Newton, Kan.; C. L. Goodin, Derby, Kan.; A. S. Neale, Manhattan, Kan.; Fred R. Waples, Wichita, Kan.; Stubbs Farm Co., Mulvane, Kan.; Mott Bros. & Branch, Herington, Kan.; W. R. Crow, Hutchinson, Kan.; Coleman & Sons, Denison, Kan.; Wilkie & Swinehart, Derby, Kan.; Sam Carpenter, Jr., Oswego, Kan.; Santa Fe Dairy Co., Newton, Kan.; Collins Farm Co., Sabetha, Kan.; G. Regier, Whitewater, Kan.; F. J. Bock, Wichita, Kan.; B. R. Gosney, Mulvane, Kan.; Vernon Walling, Wichita, Kan.; Victor Stuewe, Alma, Kan.; A. N. Jones, Manhattan, Kan.; Mr. Thompson, Harper, Kan.

Judge—A. L. Haecker, Lincoln, Neb.

Bulls—Aged: 1, Carpenter on Sir Petreje Ormby Fobes; 2, Neale on Lakeside King Segis; 3, Bradfield on King Fobes Kolestead. Two-year-olds: 1, Bock on H. S. P. H. Wayne of Mapleside; 2, Mollhagen on King Howty Maid Canary. Senior yearlings: 1, Stubbs on King Fobes Jenesta Homestead; 2, Robinson & Schultz on King Korndyke Sadie Vale; 3, Wapple on King Julo Carcastic; 4, Pringle on Riverside Segis Petreje. Calf: 1, Santa Fe Dairy on Santa Fe Butter Boy; 2, Axtell & Hershey on King Pontiac Wera Bell; 3, ———; 4, Stubbs Farm on King Genista Homestead; 5, Coleman & Sons on Sir Polka Dot Cornucopia De Kol; 6, Collins Farm Co. on U. S. Ormsby Akkrummer Skylark.

Cows—Aged: 1, Mott Bros. & Branch; 2, Axtell & Hershey; 3, Stubbs Farm Co.; 4, A. N. Jones; 5, A. S. Neale. Three-year-olds: 1, Robinson & Shultz; 2, Axtell & Hershey; 3, Harry W. Mollhagen; 4, G. Regier; 5, Sam Carpenter; 6, A. S. Neale; 7, Axtell & Hershey. Two-year-olds: 1 and 9, Victor Stuewe; 2, Stubbs Farm Co.; 3, Fred R. Waples; 4, Mott Bros. & Branch; 5, David Coleman; 6, Robinson & Shultz; 7, Vernon Walling; 8, Goodin. Yearlings: 1, Victor Stuewe; 2, Harry Mollhagen; 3, Robinson & Shultz; 4, Stubbs Farm Co.; 5, Victor Stuewe; 6, A. S. Neale. Senior calves: 1, Thompson; 2, G. Regier; 3, Thompson; 4, Neale; 5, Neale. Junior calves: 1, Santa Fe Dairy Co.; 2, G. Regier; 3, A. S. Neale; 4, Stubbs Farm Co.; 5, Robinson & Shultz.

Championships—Senior and grand champion bull: Sam Carpenter, Jr., on Sir Pieterje Ormsby Fobes. Senior and grand champion cow: Mott Bros. & Branch on Empress Wayne Gerben.

Groups—Aged herds: 1, A. S. Neale. Junior herds: 1, Stubbs Farm Co.; 2, Robinson & Shultz; 3, A. S. Neale. Get of sire: 1, Stubbs Farm Co. on get of Canary Paul Fobes Homestead; 2, Neale on get of Lakeside King Segis Albon De Kol; 3, Harry Mollhagen on get of Sun Flower King Walker; 4, Robinson & Shultz on get of Sir Juliana Grace De Kol; 5, Neale on get of Kingwood Maplecrest Johanna Rue. Produce of dam: 1, Stubbs Farm Co.; 2, Victor F. Stuewe; 3, Mollhagen; 4, Robinson & Shultz; 5, Neale. Best four females, bred and owned by one exhibitor: 1, Robinson & Shultz; 2, G. Regier; 3, Neale.

Aberdeen Angus

In the Aberdeen Angus section there were eight exhibitors but only one herd that was really fitted. This, the herd of L. R. Kershaw, took nearly every prize for which it was entered.

Exhibitors—L. R. Kershaw, Muskogee, Okla.; Kansas State Agricultural college, Manhattan, Kan.; R. S. Porteus, Lawrence, Kan.; E. E. Blandford & Sons, Hayward, Okla.; Balthrope Bros., Whiting, Kan.; Joe Zeller, Brownell, Kan.; Johnson Workman, Russell, Kan.; Wilcox Estate, Muscotah, Kan.

Judge—A. V. Sawyer, Norborne, Mo.

Bulls—Two-year-olds: 1, Kershaw on Ben Hur 2nd of Lone Bell. Junior yearlings: 1, Kershaw on Black Inverne; 2, Zeller on Black Pride; 3, Porteus on Queen's Quo Vadis 3rd. Senior calves: 1 and 2, Blandford on Blackman Royal and Black Royal B.; 3, Porteus on Blackbird Bruce. Junior calves: 1, Kershaw on Eilenveer; 2 and 4, Porteus on Blackbird Maston and Bartlett Gay Lad; 3, Blandford on Norroy 2nd.

Cows—Aged: 1, Kershaw on Twin Burn Pride 5th; 2, K. S. A. C. on Lad's Black Gem; 3, Balthrope Bros. on Pride 16th of Woodlawn; 4, K. S. A. C. on Sarah K. Two-year-olds: 1, Kershaw on Muskogee Ida; 2 and 3, Johnson Workman on Louise Fern and Queen Louise W. Senior yearlings: 1, Kershaw on Muskogee May 7th; 2, 3 and 4, Johnson Workman on My Lucy, Louise Again and Jetty of Russel. Junior yearlings: Kershaw on Pride of Muskogee 3rd; 2 and 3, Wilcox Estate on Quakeress A and Pride Elf; 4, Kershaw on High Tide Dot. Senior calves: 1, Kershaw on Muskogee Pride Krivina; 2, K. S. A. C. on Aristo Lady; 3, Blandford on Muskogee Erica 8th. Junior calves: 1, Kershaw on Pride of Muskogee 4th; 2 and 3, Blandford on Lola 5th of Grassland and Blackbird 6th of Grassland; 4, Porteus on Miss Maxton.

Championships—Senior and grand champion bull: Kershaw on Ben Hur 2nd of Lone Bell. Junior champion bull: Kershaw on Ellenveer. Senior and grand champion cow: Kershaw on Twin Burn Pride 5th. Junior champion cow: Kershaw on Pride of Muskogee 3rd.

Percheron Horses

It was hardly expected that the Percheron show would bring out 15 or 20 exhibitors, but such was the case. Only a part of the exhibits were fitted, but the representation of popular blood lines was large and contributed an added interest. Corsa of Illinois, Bowman of Nebraska and the Gossard Estates of Kansas were the leading contenders, but other home breeders got into the money, as the appended list of awards will show.

Exhibitors—Kra. E. Rusk, Wellington, Kan.; Ed Nickelson, Leonardville, Kan.; Harry Glenn, Newton, Kan.; J. C. Robison, Towanda, Kan.; Gossard Breeding Co., Turon, Kan.; Ross A. Coffman, Overbrook, Kan.; G. W. Forbes, Cherryvale, Kan.; W. S. Corsa, White Hall, Ill.; E. B. Bowman, Boone, Neb.; Thos. Reed, Newton, Kan.; F. E. Hunter, Newton, Kan.; Wm. Branson, Overbrook, Kan.; H. G. Eshelman, Sedgwick, Kan.; Chas. Rezeau, Cullison, Kan.; Kansas State Agricultural college, Manhattan, Kan.; Eberling & Scofield, Ponca City, Okla.; T. C. Miles, Conway Springs, Kan.

Judges—W. L. Blizzard, Stillwater, Okla.; A. P. Coons, Lincoln, Neb.

Stallions—Aged: 1, Bowman on Calypso; 2, Glenn on Lorengo; 3, Gossard Breeding Co. on Kapitaine; 4, Eshelman on Shamrock; 5, Bowman on Houleux. Two-year-olds: 1, 2 and 3, Bowman on Kommandor, Carchaleux and Bumperde; 4, Rezeau; 5, Eshelman on Carmet. Yearlings: 1, Corsa on Wolfington; 2, Corsa on Docarnon; 3, Corsa on Iocapre; 4, K. S. A. C. on Tartarin; 5, Robison on Clemenceau. Colts: 1, Branson on Overbrook Hector; 2, Eberling & Schofield on Kevolte; 3, Gossard Breeding Co. on Grenzelat; 4, Miles on Summer.

Mares—Aged: 1, Bowman on Dorothy R.; 2, Gossard Breeding Co. on Koicottie; 3, Bowman on Iola; 4, Gossard Breeding Co. on Garzelda; 5, Bowman on Beuleu. Two-year-olds: 1, Bowman on Lamonge; 2, Corsa on Carnona; 3, Eberling & Scofield on Hermina 2nd. Yearlings: 1, Corsa on Iocarnaute; 2, Bowman on Koncorness; 3, Eberling & Scofield on Lauret; 4, Gossard Breeding Co. on Marzelda; 5, Eshelman on Cassie Bonheur. Colts: 1, Bowman on Oberta Kantac; 2, Eshelman on Marie; 3, Gossard Breeding Co. on Grenacia.

Groups—Herds: 1, Bowman; 2, Bowman; 3, Gossard. Produce of dam: 1, Bowman; 2, Bowman; 3, Gossard Breeding Co. Get of sire: 1, Corsa; 2, Bowman; 3, Rusk.

Best exhibit, any age: 1, Bowman; 2, Corsa; 3, Gossard Breeding Co.
Championships—Senior champion stallion: Bowman on Calypso. Junior and grand champion: Corsa on Wolfuizton. Senior champion mare: Bowman on Dorothy B. Junior and grand champion: Bowman on Lamonge.

The Sheep Show

The growing interest in sheep brought an increased number of visitors to the limited exhibition of Shropshires, Hampshires and Cotswolds to which a half dozen breeders contributed. The quality of the exhibitors was good and the interest given added stimulus by the successful public sale held the fore part of the show. The following are the awards on two breeds:

Shropshire Sheep

Exhibitors—Gilmorelands, Fredonia, Kan.; Gilmore & Hague, Peabody, Kan.; Homan & Sons, Peabody, Kan.; J. I. Tonn, Havens, Kan.
Judge—W. L. Blizzard, Stillwater, Okla.
Rams—Aged: 1, Homan & Sons; 2, Gilmorelands; 3, Gilmore & Hague. Yearlings: 1, Tonn; 2, Gilmorelands; 3, Gilmore & Hague. Lambs: 1 and 2, Gilmore & Hague; 3, Homan & Sons.
Ewes—Aged: 1, Homan & Sons; 2 and 3, Gilmorelands. Yearlings: 1, Gilmorelands; 2, Homan & Sons; 3, Gilmore & Hague. Lambs: 1, Gilmorelands; 2, Homan & Sons; 3, Gilmore & Hague.
Pen of Four Lambs—1, Gilmorelands; 2, Gilmore & Hague; 3, Homan & Sons.
Get of Sire—1, Gilmorelands; 2, Gilmore & Hague; 3, Homan & Sons.
Flock—1, Gilmorelands; 2, Homan & Sons; 3, Gilmore & Hague.
Champions—Ram: Homan & Son. Ewe: Gilmorelands on yearling ewe.

Hampshires

Exhibitors—Sherwood Bros., Shelbyville, Mo.; Anoka Farms, Waukesha, Wis.
Judge—Prof. W. L. Blizzard, Stillwater, Okla.
All awards in this section went to Sherwood Bros., excepting third in yearling rams.

Tankage for Chickens

BY ROSS M. SHERWOOD.

"Does it pay to feed meat scrap, tankage or skimmilk to hens or can I feed my hens for less without any of these?" asked a prosperous Kansas farmer to himself not long ago. He decided he must consider at least two things before he could make a final decision on the matter. The most important factors in this case were cost of feed and number of eggs gathered. From these he could figure the cost of eggs a dozen and could also figure the relation between the income of the fowls and the cost of feed.

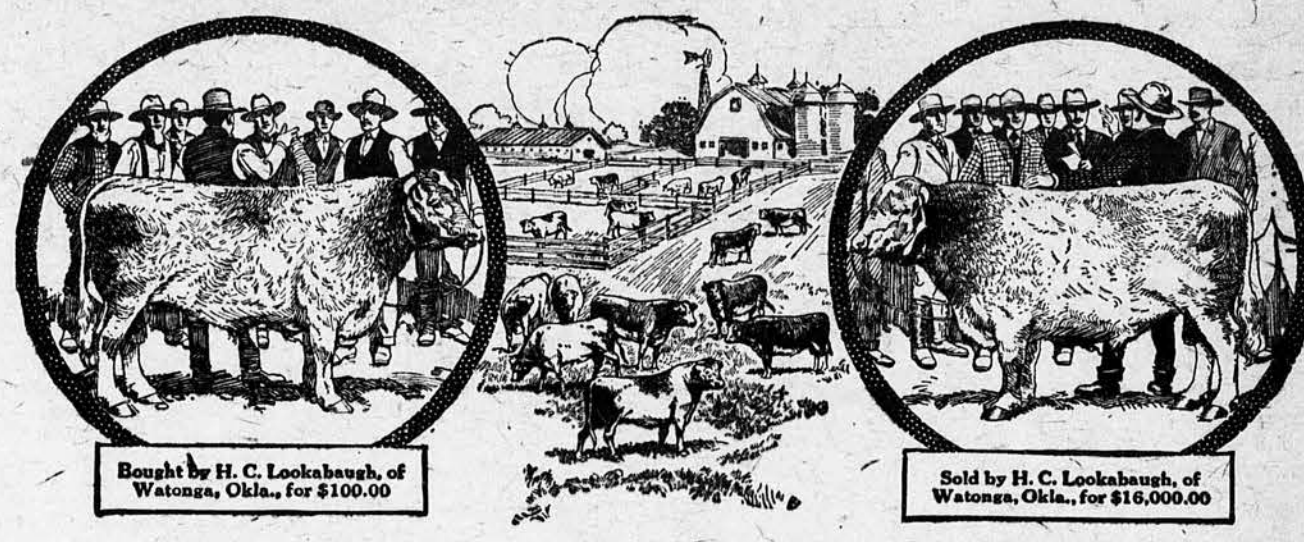
A careful study of a number of bulletins showed that hens fed meat scrap, tankage or skimmilk averaged 144 eggs while those that did not get any of these forms of protein feeds laid only 58 eggs. The average number of pounds of feed eaten by the hens that had meat scrap, tankage or skimmilk was 65.5 pounds a year while those that did not receive any of these forms of feed ate 63.7 pounds of feed a year.

It required only about 5.3 pounds of feed to produce a dozen eggs in the case of the fowls that received protein from meat scrap, tankage or skimmilk as compared with 13.3 pounds for those that did not get any of these feeds.

These figures were enough to convince the Kansas farmer that he must feed one of these protein feeds in order to get the best results. He looked over the experiments from various places and found that there was no great difference between meat scrap, tankage and skimmilk. In some experiments the milk ration would make the best showing a head, in others it would be meat scrap and in still other tests the tankage lots would lead. He talked the matter over with his neighbors and came to the conclusion that whenever he could supply his hens with all the sour milk they could drink he would do this instead of feeding either meat scrap or tankage. If milk was not available he would use either tankage or meat scrap. In either case he would be careful to see that these feeds were fresh and free from putrid material.

When meat scrap or tankage is fed it may be mixed with bran, shorts and finely ground corn chops in the proportion of 1 part of meat scrap or tankage with 3 or 4 parts of the other feeds. These may be kept before the fowls in hoppers at all times. When milk is fed, the bran, shorts and finely ground corn chops may be fed in a hopper and the milk may be kept before the hens in crocks or other similar dishes.

In all cases grain should be fed in addition to the mash feeds. Possibly a grain ration that is as economical as any this year is corn, kafir or milo maize 2 pounds with 1 pound of heavy oats or wheat.



Today's Bull Brought 160 Times the Price Paid for the Foundation Animal

A dozen years ago an Oklahoma stock breeder paid $100 for a pure-bred Shorthorn bull for stock foundation.

A stiff price, he thought.

Last spring from his herd he sold to another breeder a pure-bred bull for $16,000!

And the buyer was well satisfied that he had received his full money's worth.

Both of these bulls were pure-bred animals of the same breed. *Yet one sold for one hundred and sixty times as much as the other.*

What caused this great rise in values in so short a time?

In each instance the price was based on the intrinsic value of the animal — plus the ability to transmit this value.

Stockraisers are willing to pay high prices for bulls that can transmit to their descendants the kind of carcass that has a maximum proportion of valuable cuts. Armour and Company pay higher prices on foot for such beef animals and the producer is willing to pay for the right kind of sire to produce them.

If a sire is to beget other animals capable of transmitting this valuable trait, then he is worth sums perhaps greater than this breeder paid. If he sires top grade market animals the question of whether a bull is worth $300 or $3,000 depends on the number of calves he can annually sire.

Armour and Company want to help you in this endeavor

A highly developed organization like Armour and Company helps to maintain a constant profitable market for the producer. At the same time the consumer is assured a constant, ever-fresh supply of meats and meat products.

To assure profitable returns, increased production of better cattle is urged. Larger volume means greater opportunity for you to profit.

The growth of the Armour institution is the result of success in extending the markets for the American producers, improving the conditions of marketing, and encouraging the breeding of better meat animals.

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Each variety is put up in a separate plainly marked envelope, containing a generous supply of seed for all purposes.

ONE PACKET EACH OF THE FOLLOWING VARIETIES

Sweet Pea—Choice mixed.
Nasturtium—Fancy colors.
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Dianthus—Early flowering.
Pansy—Fancy bright colors.
Zinnia—Immense double flowers.
Sweet Alyssum—Snow-white flowers.

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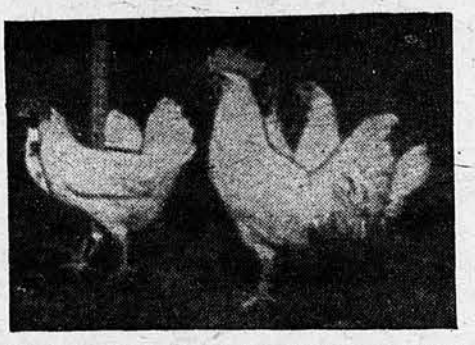
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Enclosed find $..... for which send me Kansas Farmer and Mail and Breeze for the term of ?..... years and send me the 17 packets of flower seeds free.
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Prize Winners

at American Egg Laying Contest at Leavenworth, Kan., 1918

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FIRST PRIZE PEN—FIRST PRIZE HEN

Eggs from this pen, mated to a fine male from an egg strain dating back fifteen years, are $7.50 for 18 eggs.

Hatching eggs, selected, $10 per hundred; ten extra eggs with every hundred. Orders billed in rotation; 25 per cent cash with order, balance within three days of shipping.

My 750 hens in January, 1920, yielded $356.90 profit. My egg sale, commercial only, was $496.90, with only $140 feed and other expense.

Write for further particulars, or a personal inspection will be appreciated.

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National Fur & Tanning Co
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WHEAT TO SELL FOR $3 IN 1920.

How to Get From 5 to 15 More Bushels Per Acre and Prevent Winter-Kill and Soil-Blow.

Any farmer can easily make a lot of money from wheat in 1920 if he will watch the signs of the times. South American crops can't be shipped on account of lack of boats. Russian fields are unplanted, while Australian crops are killed by drouth. Less than one-half the usual acreage is planted in the U. S. Spring wheat recently sold for $3 in Minneapolis. These facts insure wheat being higher than ever before in 1920—$3 to $3.50 certain.

Next spring thousands of farmers will find their wheat so damaged by winter-kill that they will plow it up—but not the farmer who guarantees his crop by spreading straw—he will get from 5 to 15 more bushels per acre and make more wheat money than ever before. Straw spreading not only prevents winter-kill and soil-blow, it also has more fertilizing value than manure, according to experts, and adds greatly to land values.

A wonderful invention makes it easy for any farmer to straw-spread his entire field in 3 to 10 days—a simple, scientific machine that will spread either light, wet, rotten or chunky straw or manure 20 to 25 feet wide—10 to 20 acres a day. Readers will be glad to know that they can get just such a machine in the Simplex Straw Spreader on a 30-day guaranteed trial with a year to pay. As the Simplex costs much less than $100 it easily pays for itself from 5 to 10 times the first year.

A wonderful, illustrated book, "How Straw Spreading Increases Crop Yields," tells all about straw spreading and how it benefits all crops. Mr. L. D. Rice, President, Simplex Mfg. Co., 1603 Traders Bldg., Kansas City, Mo., says he will gladly send a copy of this interesting book free to any reader of this paper. My advice is to write him today—no obligation and your name on a card will do.

Crochet and Knitting Book The book is a treasure of attractive ideas for beginners as well as expert crochet workers. Anyone can follow the simple instructions and do beautiful work. Contains more than sixty-five new designs.

We are going to give one of these crochet and tatting books, postage paid, with a yearly subscription to the Household at 30c. Address, **Household, Dept. C.K., Topeka, Kan.**

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Farmers Ask for New Laws

Capper-Hersman Bill Favors Rural Interests

BY JOHN W. WILKINSON

KANSAS farmers are looking forward with interest to the early action of Congress on the Capper-Hersman Bill which will authorize collective bargaining. Present laws unless amended or changed virtually exclude farmers from exercising this privilege and put them absolutely at the mercy of profiteers. If such legislation cannot be obtained thru the action of Congress the state should pass remedial legislation at the next session that is held. New York and a number of other states already have done this.

The condition of wheat in many counties is reported as somewhat unfavorable. The sleet and ice that came in January after the snow melted injured the wheat a great deal. Some localities report that considerable young wheat has been killed by the Hessian fly and unless prompt control measures are adopted serious losses to the crop of 1920 may be expected. Areas hopelessly infested should be plowed deeply and harrowed thoroly by March 1. The land should then be planted to oats or some other immune quick-growing crop. Success in this attempt will depend largely upon community co-operation.

Seeds for field crops of good quality are somewhat scarce and high in price. Kentucky bluegrass seed has advanced $1 a hundredweight. Alsike clover and Red clover have advanced about $1.50 a hundredweight. Those who need seed should make their orders now before the supply of the seed houses becomes exhausted. Not much farm work has been done yet but some plowing has been done. Local conditions in the state are shown in the following county crop reports:

Atchison—Weather has been warm and pleasant. Corn shucking is finished and crop yields range from 20 to 40 bushels an acre. Farmers are getting up a supply of wood. Mules bring good prices, but horses sell cheap. Milk cows also sell high. Quite a number of public sales have been held and most articles brought good prices.—Alfred Cole, Jan. 31.

Barber—Weather is bright, clear and warm. Some farmers think wheat has been damaged by dry weather, but a favorable spring will lessen the damage. Farmers are beginning to prepare for early spring work. Livestock is doing exceptionally well, and we have sufficient feed to last until grass comes. All feed is high, and alfalfa sells from $25 to $30 a ton. Very little livestock is going to market. A large acreage of spring crops will be put in.—Homer Hastings, Jan. 31.

Chautauqua—Weather is very unpleasant today, but has been warm all week. Wheat ground doesn't look as if it had ever been sown. Farmers produce took another drop but everything we have to buy went higher. Cattle are cheap and feed is high and scarce. Outlook is discouraging. Eggs are 45c; butter 45c; butterfat 56c; hogs 10c to 13c.—A. A. Nance, Jan. 31.

Cherokee—Mud is very deep. Weather has been cloudy and frosty for past two weeks. Livestock is in satisfactory condition and feed is very high. Farmers are doing chores and cutting hedge. Wheat fields are unsatisfactory. Eggs 50c; butter 50c; butterfat 56c.—L. Smyres, Jan. 31.

Cheyenne—Weather has been cloudy and cold and a light snow fell January 23. Wheat is going to market as fast as cars can be obtained to haul it. Roads are good. Livestock is in good condition, generally, and some is being pastured on wheat. Hogs are getting scarce, and sell high at public sales. One sale will be held this week. A number of farmers and stockmen attended the Denver stock show. Wheat is worth $2.30; butterfat 62c.—F. M. Hurlock, Jan. 24.

Cowley—The past week was pleasant and roads are improving. Wheat is alive yet but is not as far along as it should be on account of the freezing weather. Not many public sales have been held. Seed oats are selling for $1.25. Ground still is too wet to plow. Hogs are $13; cows $6 to $8; No. 1 wheat $2.30; bran $2.10; corn $1.35; alfalfa $29; prairie hay $18; butterfat 58c; eggs 50c.—Fred Page, Feb. 1.

Ellsworth—January has been exceptionally mild, with very little moisture. Livestock is doing well on a small amount of feed. Wheat does not look good but farmers think it has not been damaged. Influenza is prevalent, and schools and public gathering places are closed. Corn $1.65; wheat $2.40; oats 90c; eggs 46c.—W. L. Reed, Jan. 31.

Finney—Weather has been ideal for three weeks. Wheat is in satisfactory condition. Threshing is nearly finished. A great deal of kafir, milo, feterita and cane are being marketed. Cattle are doing well. There has been a shortage of cars to ship grain.—Max Engler, Jan. 29.

Ford—We are having very pleasant weather and wheat is in good condition, but a rain would be beneficial. Threshing of sorghums is nearly finished. No relief in the car shortage is in sight. Influenza is spreading, and in some families every member is down with the disease.—John Zurbuchen, Jan. 30.

Hodgeman—Weather is warm and sunshiny. Wheat needs moisture. Livestock is fattening on wheat pasture. Wheat is $2.50; cream 58c; eggs 48c; chickens 16c.—W. B. Severs, Jan. 30.

Lincoln—Weather is warm and dry. Wheat is not showing up very well. Farmers are getting ground ready for oats and barley. There is not enough moisture in the ground to assure a large acreage being sown. Feed is holding out well. Cattle are in good condition for this time of year. Hogs are scarce. Mules are high, but horses bring low prices. Eggs are 47c; corn $1.57, shipped in.—E. J. G. Walker, Jan. 31.

Kearny—Weather has been pleasant the past week. Several public sales have been held, and livestock and implements sell well. There is not much demand for horses.—Cecil A. Long, Jan. 31.

Linn—Farmers are cutting hedge and doing other odd jobs. All livestock, and especially horses and mules, bring big prices at public sales. Oil activities are increasing.—Mrs. O. J. Mitchell, Jan. 31.

Logan—We have had zero weather for last few days. Threshing is not finished, and it will take three weeks of pleasant weather to complete the work. We have a great deal of cane seed, and it is a good quality. Farmers will begin to sow barley next month if frost is out of ground. Livestock looks well, and we have plenty of rough feed. Corn is $1.20; barley $1.05; oats 80c; hay $15.—T. J. Daw, Jan. 25.

Lyon—The warm weather in January helped wheat to take new life, and livestock is improving after the cold sleety weather in December. We have plenty of feed, except corn. Farmers are buying shipped-in corn for next spring and summer. No disease among livestock has been reported. A few cases of influenza are in the county, but none are serious. Butter 60c; eggs 55c; potatoes $3.50.—E. R. Griffith, Jan. 31.

Nemaha—All but two days of the past week were spring-like. No snow has fallen and roads are smooth and hard. We have no influenza here. Land is high, and improved farms sell for $150 to $200 an acre. Spring pig crop is light and many hogs are being marketed. Wheat is $2.60; shorts $3; bran $2.15.—A. M. C., Jan. 30.

Osage—Weather is like April, except for the wind. All kinds of property sells well. Hogs are scarce. There is not as much poultry in the county as usual, and eggs will be high as many will be used for hatching. Feed is high, but fodder will be cheap if the weather continues mild. Most farm renters have obtained farms, or have settled in town. Prices for cream vary. Some farmers are hauling wheat contracted at $2.60, but the price is $2.30.—H. L. Ferris, Jan. 31.

Pratt—Weather has been mild, and farmers are doing all kinds of winter work. Wheat looks good, but is small. Livestock is in satisfactory condition. No public sales have been held. Some farmers have been plowing for oats.—J. L. Phelps, Jan. 31.

Rawlins—Weather has been fair and warm and frost is almost out of the ground. Wheat is in good condition. Livestock came thru the winter very well. Farmers are hauling wheat to town, and dumping it on the ground, waiting for cars. Eggs, butter and cream are coming down, and everything the farmer has to buy is higher.—A. Madsen, Jan. 29.

Rice—Weather is cold and a light snow has fallen. Wheat has not been damaged by the cold. A good many farms have been sold at prices ranging from $100 to $130 an acre. Wheat is worth $2.60; corn $1.55; butter 55c; eggs 50c; alfalfa $25.—George Buntz, Jan. 24.

Riley—We have had a mild winter. Roads are satisfactory and some cattle and hogs have been taken to market. Wheat still is in good condition. A number of farm sales have been held, and livestock brings good prices. Livestock is healthy. We have no influenza here yet. Census takers are finishing their work. Corn $1.50; wheat $2.60; eggs 55c; cream 56c.—P. G. Hawkinson, Jan. 31.

Rooks—Weather is changeable. Wheat is standing the extreme weather conditions fairly well. Its estimated condition is 75 per cent. Not many sales have been held. Some farmers are shelling corn. A few chickens have been hatched. Eggs are 46c; butter 50c; corn $1.40.—C. O. Thomas, Jan. 31.

Russell—The windy dry weather compels farmers to take livestock from wheat pastures, but we have plenty of roughness. Farmers have finished shelling corn, and are threshing kafir and Sudan grasses. We raised some good seed on this river bottom, of white and pink varieties.—Mrs. M. Bushell, Jan. 29.

Saline—We are having spring weather which is benefiting livestock. Farmers are selling cattle and hogs that are in condition to be sold. Very few hogs have been kept for breeding. Milk cows bring good prices. Low markets are causing farmers to butcher more cattle than usual. Wheat is in excellent condition. Soil is dry, as only a little sleet fell during January. Wheat is $2.30; corn $1.65; butter 57c; butterfat 60c; eggs 45c to 47c.—J. P. Nelson, Jan. 31.

Scott—Weather is warm for this time of year. Cane, milo and kafir have not been threshed, also some barley. Thousands of bushels of grain are dumped on the ground. Elevators are full, and we have no cars to ship grain. Livestock is wintering well. Wheat needs moisture on top, but there is plenty of moisture in the subsoil. Real estate men are busy.—J. M. Helfrick, Jan. 30.

Sherman—Quite a few farmers are sowing winter wheat, as the ground is thawed out on top, and soil is in excellent condition. A little snow or rain would help growing wheat, as the ground surface is dry and full of small cracks. Livestock is grazing, and little feed is needed. Farmers are ordering cars and shipping their own wheat and seem to get better prices for the grain than the elevators receive for they mix different grades and kinds because of lack of necessary cars.—J. B. Moore, Jan. 31.

Stafford—Weather is foggy today, but has been dry. Early sown wheat is in good condition, but late sown looks poor. Livestock is doing well. Farmers are scattering straw on wheat fields. Quite a number of public sales will be held soon. Wheat is worth $2.45; corn $1.35; hogs $13.50; eggs 45c; butter 48c; prairie hay $20; alfalfa $25 to $30.—H. A. Kachelman, Jan. 31.

Sumner—Weather has been very pleasant for past two weeks. Livestock is doing well. Prospects for wheat are not good. Late sown fields are not up yet, and early sown fields look very poor.—E. L. Stocking, Jan. 31.

Wichita—Threshing machines are busy, and a great deal of threshing is yet to be

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The demand for men who understand the operation and repair of automobiles and tractors at salaries of $100 to $400 monthly is so great that D. T. Bartlett, president of Bartlett's Wichita Automobile & Tractor School offers to send, without charge, to all who want to learn the business, a large illustrated book entitled "The Way to a Better Job." If you are interested just drop a card to Mr. Bartlett, 154 North Topeka Ave., Wichita, Kansas, and request a free copy.



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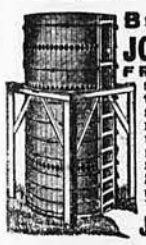
Admiral Hay Press

T. T. Jones, Hickox, Ga., an Admiral owner says he expects to make $1000 extra this season. John Marks, St. Marys, Kansas, baled 98 bales in one hour, 80 tons in 10 hours. For 30 years the Admiral has been fastest, simplest, most powerful baler made—many doing fast work after 16 years service.



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THE HOUSEHOLD
Dress Dept. 66, Topeka, Kan.

The Hen Will Lay

Hens will lay eggs if given the proper care and the raw material from which to make them. We cannot, however, expect hens to lay eggs unless we give them the feeds which contain the necessary egg material. An egg contains albumen or protein matter obtained by the hen from the proteins of grains and animal food she eats. The egg also contains fats made from the starches of grains. The mineral matter of the shell is nearly all common lime.

All of these materials may be found in any one grain but not in the same proportion as in the egg. Practically all of our common grains are decidedly lacking in digestible protein matter when compared with an egg. Take wheat, for example. If a hen were fed on wheat alone she would not receive enough protein to lay oftener than once in three or four days, she would not receive lime enough to lay oftener than once in 10 days and she would have starch enough to make the fat of seven or eight eggs in one day.

Under such conditions one would naturally suppose that the hen would substitute inferior materials and so lay a counterfeit egg. This is not the case, however, as repeated experiments at the Wisconsin Experiment station have shown that if the hen does not receive a sufficient amount of all the materials necessary to make a standard egg, she simply cannot lay at all but waits until she has secured enough material to make a first-class egg.

A New Secretary

The President is to be congratulated on the appointment of E. T. Meredith of Iowa to succeed D. F. Houston as Secretary of the United States Department of Agriculture. He could have looked over the country in vain for a more highly qualified chief of the Department, or for a representative of the farming industry who possessed to such a degree the confidence of the rank and file. Mr. Meredith is known to the farmers of the West. He is familiar with the farming industry from top to bottom. He is gifted with common sense. The American farm will have a true representative in the cabinet with Meredith to speak for it, to defend its rights and interests and to demand for it the dignity of treatment belonging to the foremost industry of the land.

A Profit in Turkeys

Mrs. Art Henn of Plainville has figured up the amount of turkeys she sold last fall and finds it to be $1,047.60. In addition, she still has 100 left for selling and breeding purposes. She also sold 100 dressed geese. The turkeys required no special care or feed. About three weeks before placing them on the market, she began feeding grain. Altho the turkeys ranged long distances the coyotes did not bother them. However, during harvest an old badger and four full grown young ones got away with 80 head of young turkeys before they were trapped.

Does All Kinds of Work

BY BRUCE BOWERS
Halls Summit, Kan.

I have done all kinds of farm work such as plowing, disking, harrowing, seeding and cutting grain with my 12-20 Emerson-Brantingham tractor. I find it a great advantage in plowing ground for wheat in July and August as you can plow from 7½ to 8 inches deep with a tractor while with horses you can only plow from 4½ to 5 inches deep. I pull three 14-inch mold board plows and plow 10 acres a day at the small cost of 50 cents an acre.

done. Weather is favorable for livestock and farm work. We have plenty of feed. Some public sales have been held and all articles bring good prices. Much real estate is changing hands. Butter is worth 50c; butterfat, 52c; potatoes, $3.90; flour, $4.25; cane seed, 90c.—Edwin White, Jan. 30.

Woodson—Weather has been warm for past few days and farmers will begin to plow in a few days. Kafir threshing is in progress, also cane and milo. Early planted wheat is satisfactory but late sown does not look so well. We have plenty of feed and cattle are doing well. Hogs are scarce. Corn is $1.58; kafir, $1.50; cream, 61c.—E. F. Opperman, Jan. 30.

LOUDEN Hay Tools





Louden Senior Hay Carrier

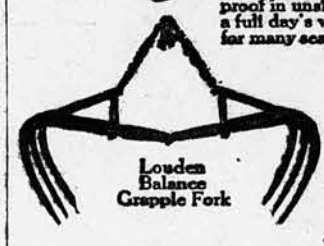
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With Louden Hay Tools at hand you can feel much easier about the safety of your hay crop, in spite a shortage of help which invariably occurs during haying time. They speed up the work enormously and have saved many a big crop which would have been lost without them. The labor they save pays for them several times over every season.

Simple, strong construction makes them trouble proof in unskilled hands—you can always rely on a full day's work every day throughout the season—for many seasons to come.



Wm. Lemmen Whose labor saving Louden equipment is used in over a million barns.



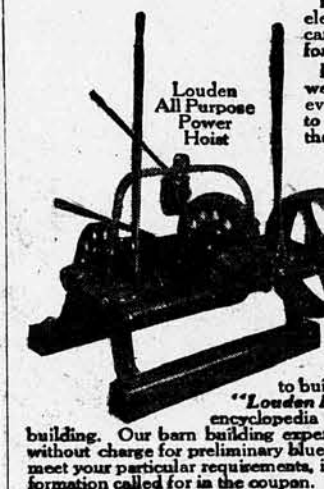
Louden Balance Grapple Fork

Handle Any Kind of Hay or Fodder

Louden Balance Grapple Fork is the only fork that handles short clover, alfalfa or cow peas as perfectly as long timothy. Picks up half a ton at a time, grips it tight and drops it exactly where wanted well spread out—saves half the labor of mowing back.

Louden Senior Hay Carrier carries its load up close to the track and over beams. Stores tons more hay in the loft. Never fails to register from whatever angle load is drawn. No rope troubles; no binding on track. Strong enough to handle 1500 pounds continuously without straining. Roller bearing rope wheels mean easy operation.

Louden Power Hoist saves a man and team in storing your hay. It elevates load, draws it into mow or over stack, brings back empty carrier. Takes up all slack rope, no dragging on the ground. Available for every kind of heavy lifting on the farm. A boy can operate it.



Louden All Purpose Power Hoist

In addition to the above we make other types of forks and carriers as well as the famous line of Louden slings—the simplest and best sling ever put together. All Louden Hay Tools are quality built—guaranteed to do all we claim for them and more, their cost is trifling compared to the work they do and the labor they save.

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SEEDS.

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WANTED

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WANTED.

WANTED—HEDGE POSTS IN CARLOAD lots. Chas. Peterson, Thayer, Kan.

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BANTAMS.

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PEKIN DUCKS—DRAKES $2, DUCKS $1.50. Mrs. Simon, Olsburg, Kan.

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EGGS.

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WHITE LANGSHAN EGGS, NONE BETter. Minnie Tucker, Independence, Kan., Route 4.

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BUFF ORPINGTON EGGS FROM PRIZE winning stock. Orders booked now. W. M. Jamison, 127 N. Poplar, Wichita, Kan.

TOM BARRON STRAIN S. COMB WHITE Leghorn hens, have large lop combs. Eggs $7 hundred. Leander Scott, Windom, Kan.

BARRON STRAIN WHITE LEGHORN eggs, 200, $15; 100, $10. Mrs. Laura J. Brown, Route 4, Box 159, Woodward, Okla.

BUFF ORPINGTON EGGS FROM STATE show winning stock, $5 per setting. Some cockerels for sale. H. F. Moseman, Holton, Kan.

SINGLE COMB WHITE LEGHORN EGGS, baby chicks, Barrow Smith strain, for sale by Mrs. M. L. Zimmerman, Route 3, Troy, Kan.

WRITE GRANT, THE WHITE LEGHORN Man at Elk Falls, Kansas. 10,000 hatching eggs and chicks to offer. Satisfaction guaranteed.

YOU WANT BARRED ROCK EGGS FROM stock that has won in government laying contests. Write Farnsworth, 224 Tyler St., Topeka, Kan.

SINGLE COMB REDS, STATE FAIR WINners, trap-nested stock. Eggs $1.50 per 15, prepaid. Thomas Owen, Jr., Route 7, Topeka, Kan.

PURE BRED ROSE COMB BROWN LEGhorn eggs, $18 per hundred. Baby chicks 20 cents prepaid. Mrs. Lee Smith, Route 2, Kanopolis, Kan.

EGGS—S. C. RHODE ISLAND REDS, standard bred, prize winning stock, $3 per setting; $20 per hundred. V. B. Newell, Stafford, Kan.

BUTTERCUPS THAT ARE BRED TO LAY and win. Eggs per setting, $2.50; 100, $10. Mrs. J. Shell, Silver Shade Poultry Yards, Pittsburg, Kan.

MODLIN'S POULTRY FARM, LARGEST IN the West. Hatching eggs. Free circular. Write today. Thirty best varieties. Route 7, Topeka, Kansas.

EGGS.

FERRIS 264-EGG WHITE LEGHORNS. Eggs. Delpha Sheard, Esbon, Kan.

ROSE COMB BUFF LEGHORN EGGS, $10 per hundred. Baby chicks, 20 cents each. Mrs. John Zimmerman, Sabetha, Kan.

WHITE ROCK EGGS FROM TRAPNESTED and exhibition strains, $3 and $5 per 15 prepaid, 26 years exclusively. Thomas Owens, Route 7, Topeka, Kan.

BARRED ROCK EGGS, UTILITY $8 PER hundred, $5 per 50; $2 per 15. Special matings $5 per 15. Order direct from ad. C. C. Lindamood, Walton, Kan.

EGGS FOR HATCHING, BY SETTING OR by hundreds from prize winning Buff Orpington chickens. Orders booked now. W. G. Saip, Belleville, Kan.

EXTRA FINE PURE THOROUGHBRED Black Langshan eggs from hens ten lbs., cockerels 15. Extra layers. 15 eggs $5; 100, $15. Maggie Burch, Oyer, Mo.

S. C. REDS—14 YEARS' BREEDING FROM best layers, guaranteed fertility. 15 eggs, $1.25; 100, $7; baby chix, 20 cents. Mrs. F. H. Holmes, Monument, Kan.

EGGS FROM PRIZE WINNING SINGLE Comb White Leghorns, $2 per 15; $8 per 100. Mrs. Henry Melgren, Osage City, Kan. Formerly Selma Fagers, Admire, Kan.

EGGS FROM LARGE SINGLE COMB White Leghorns, selected stock. Egg producers; $8 per 100, postpaid, prompt shipment. Alvin G. Westwood, Waco, Neb.

WHITE ROCK EGGS FOR HATCHING, booking orders now. Guaranteed pure, $2 per 15; $6 50; $10 100. Express prepaid. Cockerels, $5. F. D. Webb, Sterling, Kan.

CHOICE ROSE COMB SILVER LACED Wyandotte eggs, from my flock of carefully selected beauties, 30 for $3.25; 50 for $5. Mrs. Ethel Woolfolk, Protection, Kan.

BARRED ROCK, BOTH MATINGS, BIG bone, deep narrow barring, winning and laying strain. Eggs $2 to $5 per 15; $8 per 100. Mating list free. Mrs. Sylvan Miller, Humboldt, Kan.

WHITE WYANDOTTE EGGS FOR SALE, $2.50 per setting; won 1st cock; 1st, 2nd, 3rd, cockerels; 1st and 2nd pen; 3rd hen at Kansas State Poultry show. A. E. Waterman, Peabody, Kan.

S. C. W. LEGHORN EGGS, TOM BARRON (284 egg strain). World's best winter layers. Sold over 2,000 eggs in January this year. $10 per hundred, delivered. Harry Givens, Manhattan, Kan.

ROSE COMB RED EGGS FROM THE EVEN surface, rich, brilliant, red kind—seven grand matings $5 per 15; or $12 per 50 from run of yards. We guarantee or replace free of charge. Fred Kelm, Seneca, Kan.

"QUALITY" ROSE COMB WHITE WYANdottes, Martin-Kellerstrass strains direct. Great winter layers, 15 eggs $2; 30, $3.50; 100, $9. Satisfaction, safe delivery guaranteed. Garland Johnson, Mound City, Kan.

FOR 1920—WHITE LEGHORN EGGS, BAby chicks, write me. Hogan tested. Trap nested females. Mated to Tom Barron males, whose dam record 290 eggs. Few cockerels for sale. Order now. Mrs. J. C. Vincent, Jamestown, Kan.

WHITE WYANDOTTE EGGS, KELLERDUstain, Stevens American, and Barron English laying strains. From record laying stock, reddish brown eyes, yellow legs, $8 per hundred. Satisfaction guaranteed. O. R. Eby, New Albany, Kan.

EGGS, RANGE FLOCK, $1.25; SETTING, $7; per hundred, $8—Express charges prepaid. Special pen show stock eggs, $3.50 setting; one grand pen S. C. Buff Orpington high show quality type, $5 setting, Meidinger strain; 1 pen dark R. C. Red, eggs $3 setting; white Embden goose eggs, 35c each. V. P. Johnson, Saronville, Neb.

GEESE.

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

GUINEAS.

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

HAMBURGS

PURE BRED ROSE COMB SILVER Spangled Hamburg cockerels, $3. Mrs. M. Hoehn, Lenexa, Kan.

SINGLE SPANGLED HAMBURGS THAT have won ribbons this year at sixteen shows in eight states can be obtained from Roland Talbott, Waukomis, Okla.

LANGSHANS.

PURE BLACK LANGSHANS. MARY McCaul, Elk City, Kan.

WHITE LANGSHAN COCKERELS. WM. Wischmeier, Mayetta, Kan.

BLACK LANGSHAN COCKERELS; $3. Mrs. G. W. King, Solomon, Kan.

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

BLACK LANGSHAN COCKERELS, $2.50 each. N. D. Patterson, Bucklin, Kan.

PURE WHITE LANGSHAN STOCK FOR sale. Mrs. Edna Vance, Fontana, Kan.

PURE BRED WHITE LANGSHAN STOCK for sale. Mrs. Geo. McLain, Beagle, Kan.

LANGSHAN COCKERELS BOTH BLACK and white, $3. Bertha Klelle, Raymond, Kan.

PURE BRED BLACK LANGSHAN COCKerels, $3.50 each; 2 or more, $3. Chas. S. Moon, Pratt, Kan.

THOROBRED WHITE LANGSHAN COCKerels, extra fine, $3.50 each. Mrs. Mattie Toyne, Linwood, Kan.

FINE WHITE LANGSHAN COCKERELS, $2.50. Eggs, $1.50 per 15; $8 per 100. Emma Olson, Mullinville, Kan.

MY YARDS NOW CONTAIN FIRST PRIZE Langshan cockerel at Illinois State show 1918, Kansas 1919, St. Louis 1920. Mating list ready. John Lovette, Mullinville, Kan.

LEGHORNS.

S. C. WHITE LEGHORN COCKERELS, $1.50. F. W. Wirt, Preston, Kan.

ROSE COMB BROWN LEGHORN COCKerels, $1.50. Otto Borth, Plains, Kan.

SINGLE COMB WHITE LEGHORN COCKerels, Franz, Ferris, Winterlay strain, $3 each; 2-$5. Arthur Blanchat, Danville, Kan.

LEGHORNS.

ROSE COMB BROWN LEGHORN COCKerels, $2. Ida Standiferd, Reading, Kan.

CHOICE SINGLE COMB WHITE LEGHORN cockerels, $2. Lawrence Diebolt, Iola, Kan.

SINGLE COMB BUFF LEGHORN COCKerels, $2.50. Ida Alexander, Madison, Kan.

PURE SINGLE COMB WHITE LEGHORN cockerels, $2. Chas. McFadden, Moreland, Kan.

SINGLE COMB BUFF LEGHORN COCKerels, $2.50. E. C. Liston, Junction City, Kan.

PURE BRED SINGLE COMB WHITE LEGhorn cockerels, $2. Iola Buhrle, Russell, Kan.

R. C. B. LEGHORNS, LONG, WIDE COMBS, $1.50; choice $2.50. A. H. Brust, Lincoln, Kan.

SINGLE COMB WHITE LEGHORNS, cockerels, eggs. Mrs. Ennefer, Pleasanton, Kan.

SINGLE COMB BROWN LEGHORN COCKerels, $2.50, $3. John Linke, Raymond, Kan.

SINGLE COMB WHITE LEGHORN COCKerels, $1.50. Herman Pautsch, Lincoln, Kan.

ROSE COMB BROWN LEGHORN COCKerels, $1.50 each. Roam Ames, Keats, Kan.

PURE BRED SINGLE COMB BUFF LEGhorn cockerels, $2.50. Harley Myers, Milo, Kan.

FINE SINGLE COMB BUFF LEGHORN cockerels, $1.50 each. Mrs. Ernest Kobs, Meade, Kan.

S. C. BROWN LEGHORN COCKERELS, $2 each. None better. Mrs. L. H. Hastings, Thayer, Kan.

SINGLE COMB WHITE AND BROWN Leghorn cockerels, $2 to $5. H. N. Holdeman, Meade, Kan.

S. C. BUFF LEGHORN COCKERELS, $1.50 and $2.50, some higher. V. P. Johnson, Saronville, Neb.

PUREBRED BROWN LEGHORNS, GOOD layers, eggs $8 per hundred. John Mooney, Ellinwood, Kan.

PURE SINGLE COMB WHITE LEGHORN cockerels, $2 each. Elizabeth Green, Route 1, Concordia, Kan.

LARGE BONED, YELLOW LEGGED Barred Rock cockerels, $2 each. L. K. Poos, Lowemont, Kan.

ROSE COMB BROWN LEGHORN COCKERels, $2 each. Eggs in season. M. E. Hoskins, Fowler, Kan.

ROSE COMB BROWN LEGHORN COCKerels, $2 each. Eggs in season. Albert Stahl, Louisburg, Kan.

PURE BRED BUFF LEGHORN COCKERels, prices reasonable. Lula Roberts, Paola, Kansas, Route 9.

P. B. S. C. BUFF LEGHORN COCKERELS $2. Ella Mans, Sta. B., Rte. 7, Topeka, Kansas. Auburn Phone.

PURE BRED SINGLE COMB WHITE LEGhorn cockerels, $2. Mae Henderson, Hooker, Okla., Route 4.

PURE BRED ROSE COMB BROWN LEGhorn cockerels and hens, $1.75. Mrs. Art Johnston, Concordia, Kan.

PURE BRED S. C. BROWN LEGHORN cockerels $1.50 each. Good birds. Lottie Bingham, Blue Mound, Kan.

287 EGG BARRON'S STRAIN WHITE LEGhorns. Vigorous cockerels, eggs, chicks. Joseph Creitz, Beloit, Kan.

ROSE COMB BROWN LEGHORN COCKerels, thorobreds from prize stock, $2.50. Mary Smith, Wilmore, Kan.

DARK BROWN LEGHORN COCKERELS, from extra good laying strain, $2.50 to $5. Mrs. Helen Cass, Collyer, Kan.

DARK STRAIN S. C. BROWN LEGHORNS. Fine winter layers. Eggs, $6 per 100. Mrs. G. M. Jennings, Melvern, Kan.

PURE BRED SINGLE COMB BUFF LEGhorn cockerels, well marked, fine layers, $2.50. A. J. Wempe, Frankfort, Kan.

SINGLE COMB BROWN AND WHITE LEGhorn cockerels $1.25 each. Mrs. Ollie Baker, Great Bend, Kan., R. 6, Box 67.

SMITH STRAIN SINGLE COMB WHITE Leghorn cockerels, $2.50 to $5. Satisfaction guaranteed. Judson O'Neal, McPherson, Kan.

PURE BRED SINGLE COMB WHITE LEGhorn eggs. Money laying strain. $7 for 100; $3.75 for 50; $1.25 for 15. Jacob Wedel, Elyria, Kan.

ROSE COMB BROWN LEGHORN COCKerels, $2 each. I have been breeding pure bred Leghorns for 25 years. A. F. Stauffer, Holton, Kan.

SINGLE COMB BUFF LEGHORN COCKerels, exhibition and egg producing strain, $5. McNeave & Myers, 2050 Woodland Ave., Wichita, Kan.

IF YOU WANT WINTER LAYERS TRY G. A. Leonard's S. C. Leghorns. None better. Stock and eggs for sale. G. A. Leonard, Enterprise, Kan.

ROSE COMB WHITE LEGHORN COCKerels $2-$5. Eggs $6 per 100. Seabright bantams, hens and cockerels, 75c. L. H. Dicke, Lyndon, Kan.

S. C. SNOW WHITE LEGHORN FOUNDAtion eggs start you right, once for always. Supply smuted orders early. C. E. Morris, Box 184, Cimarron, Kan.

IMPORTED ENGLISH S. C. WHITE LEGhorns, averaged 288 eggs each, per year. Fine cockerels, hens, eggs, chicks. Geo. Patterson, Melvern, Kan.

S. C. W. LEGHORN COCKERELS, YOUNG'S 283 egg and Ferris strain, $2.50 each for 2 or more. A few frosted comb ones, $1.50. Ray Fulmer, Wamego, Kan.

IS IT EGGS YOU WANT? TRY EGGBRED Single Comb Buff Leghorn cockerels, $2 up. $20 dozen. My hens are laying. Are yours? Chester Hines, Emporia, Kan.

CLASSY SINGLE COMB WHITE LEGhorns. Eggs, cockerels. Special agent Johnson's incubators. Incubator-eggs. Order, attractive. Mrs. Albert Ray, Delavan, Kan.

RIVERSIDE POULTRY FARM SINGLE Comb White Leghorns. Fifteen years in business. Chicks, hatching eggs. Circular free. H. D. Walker & Sons, LaJunta, Colo.

BUFF LEGHORN COCKERELS—BROTHers to our "Heart of America" and State show winners, $10, $7.50, and $5. Eggs $2, 15; $10, 120, postpaid. Haines, Rosalia, Kan.

ENGLISH WHITE LEGHORNS IMPORTED stock. All matings for egg production. Sixteen years in business. Leghorns with national reputation, eggs, chicks. (Booklet free, tells how we make poultry pay). Sunny Slope Farm, Morrison, Okla.

LEGHORNS.

CHOICE FARM FLOCK, SINGLE COMB White Leghorns, Young-Yesterlaid strains. Nice large eggs, 100, $7.50. Fertility and packing guaranteed. Geo. F. Wright, Kiowa, Kan.

SINGLE COMB WHITE LEGHORNS, BARron strain, pedigreed stock. Cockerels $3 and $5 each. Eggs $1.50 per 15; $7 per 100. Pens $3 per 15; $15 per 100. Sadie Lunceford, Mapleton, Kan.

DARK BROWN LEGHORN COCKERELS, extra choice, heavy laying strain, $3 and $5. Booking orders for eggs, $2.50 per 15; $8 per 100. Always extra eggs. Plainview Poultry Farm, Lebo, Kan.

SINGLE COMB WHITE LEGHORN EGGS for hatching, $8 hundred, prepaid. Ferris strain, closely culled, have free range, greatest winter layers, high fertility guaranteed. Ed Wiemeyer, Harper, Kan.

S. C. WHITE LEGHORNS—FOUNDATION from Young-Ferris-Yesterlaid 200 to 288 egg lines. Free range eggs $8 per hundred prepaid. Satisfaction guaranteed. L. O. Wiemeyers, Anthony, Kan., Route 1.

RUSSELL'S RUSTLERS. AMERICA'S famous Single Comb Brown Leghorns—would $195 per month from a farm flock interest you? Write for our big free catalog. Mr. and Mrs. George Russell, Chilhowee, Mo.

WINTERLAY-BARLOW'S WELL KNOWN strain, Hoganized Single Comb White Leghorns, standard. Bred to lay and do it. Flock of 160 laid 146 eggs January 17th. Eggs, chicks, catalog. Barlow & Sons, Kinsley, Kan.

WILSON'S BUFF LEGHORNS, EXHIBItion quality and bred to lay. Make clean sweep Kansas State show, Wichita, first, second cockerel; first, second pullet; first, second hen; seven cock on seven entries. First cock bought from me. Buy the best. Mating list ready. Herb Wilson, Holton, Kan.

MINORCAS

SINGLE COMB BLACK MINORCA COCKerels, $3 each. Perry Yoder, Garnett, Kan.

S. C. B. MINORCA COCKERELS, $2.50 AND $3.50. L. F. Edinborough, Eastonville, Colo.

SINGLE COMB BLACK MINORCA COCKerels, three and five dollars each. Eggs in season, eight dollars per hundred. H. H. Dunlap, Liberal, Kan.

MUST SELL 100 BLACK MINORCA HENS and pullets, 4 roosters, cannot keep penned. Best layers. Beginning now, $2.50 each. Mrs. W. Mead, Lees Summit, Mo.

ORPINGTONS.

BUFF ORPINGTONS — COCKERELS, $3 and $5. Chas. Hoferr, Wamego, Kan.

COCKERELS, BUFF ORPINGTON, 8 LB., $3; fancy, $4. S. Peltier, Concordia, Kan.

WHITE ORPINGTON COCKERELS THREE dollars, delivered. Milo Hakes, Clyde, Kan.

PURE BRED BUFF ORPINGTONS, COCKerels, $2.50 to $5. Wm. Knop, Preston, Kan.

WHITE ORPINGTON COCKS, $3; COCKerels, $2.50 each. G. L. Jeschke, Sparks, Kan.

BUFF ORPINGTON COCKERELS, $5 TO $10; hens, $2.50. P. A. Unruh, Pawnee Rock, Kan.

BUFF ORPINGTON STOCK AND EGGS for sale from prize winners. J. C. Baughman, Topeka, Kan.

EXTRA CHOICE BUFF ORPINGTON cockerels, $5 and $7.50. Mrs. M. F. Carlson, Cherokee, Kan.

FINE PURE BLOOD BUFF ORPINGTON cockerels, score 90 to 95. Mrs. J. E. Wiggins, Little River, Kan.

PURE BRED SINGLE COMB BUFF ORPington cocks and cockerels, $3 each. Mrs. Jas. Dunham, Sitka, Kan.

PURE BRED WHITE ORPINGTONS. KELlerstrass strain, cockerels $3; hens $2. Dewy Koci, Auburn, Kan.

WHITE ORPINGTON COCKERELS, YEARling cock from 200-egg hen, $5 each. Mrs. Helen Lill, Mt. Hope, Kan.

BUFF ORPINGTON DRAKES, PRIZE WINners, $2.50. Mammoth Toulouse ganders, $5. Mrs. Frank Doty, Rose, Kan.

BUFF ORPINGTON COCKERELS FOR sale, $4 and $5 each; pullets, $20 per dozen. No culls. W. H. Fulks, Turon, Kan.

WHITE ORPINGTON COCKERELS, FOR sale. Kellerstrass strain $3 each. Eggs $5 per hundred. Fred Alexander, Wilsonville, Neb.

WHITE ORPINGTONS, THE GREAT ALLaround breed. Stock and eggs from Blue ribbon winners. Goodrich and Harper, 712 Topeka Avenue, Topeka, Kan.

PURE BRED BUFF ORPINGTON COCKerels. Extra good laying strain. Good color, $5 each. Eggs for hatching. Baby chix for sale. Mrs. J. B. Randels, Anthony, Kan.

BUFF ORPINGTON, MARCH HATCHED, pullets of large, choice, pure bred laying strain. 15 years' careful breeding. Eggs in season. Orders booked. Mrs. Anton Triska, Hanover, Kan.

SINGLE COMB BUFF ORPINGTON COCKerels, large boned, good even buff, true Orpington type. All choice birds $3, $5, and $7.50. Satisfaction guaranteed. Mrs. Perry Higley, Cummings, Kan.

BUFF ORPINGTON—IN A LARGE CLASS I won more firsts at this year's Kansas state show than all others combined. Eggs for hatching from choice matings at three dollars up. Write for list. Carl W. Moore, Topeka, Kan.

S. C. BUFF ORPINGTON COCKERELS $8 and $10 each. Eggs $2 per 15; $10 per 100. Fancy pullets $10, $15 to $20 each. Have won blue ribbons at best shows of West. Have been breeding fancy Orpingtons for last 12 years. Reference Judge Southard and I. N. Chapman, County Farm Agent, Leavenworth, Kan. Come look them over. J. M. Clevenger, Lawrence, Kan., Route 7.

PIGEONS

OLD STRONG FLYING PIGEONS WANTED. 15c each delivered April 5th. Coops loaned free. The Copes, Topeka, Kan.

10,000 COMMON PIGEONS WANTED. State how many you have and price wanted by first mail. R. S. Elliott, 7500 Independence Ave., Kansas City, Mo.

PLYMOUTH ROCKS.

BUFF ROCK COCKERELS. GEO. SCHERman, Olathe, Kan.

PURE BRED BUFF ROCKS—MRS. THOMas S. Ward, Holton, Kan.

PURE BRED WHITE ROCK COCKERELS. W. T. Holligan, Emmett, Kan.

PURE BARRED ROCK COCKERELS, $3, $5. Earl Moore, Deerhead, Kan.

PARTRIDGE ROCK COCKERELS, $5. Clarence Hoffman, Preston, Kan.

BARRED ROCK COCKERELS, WRITE Mrs. Chris Bearman, Ottawa, Kan.

BARRED ROCKS, 80 PREMIUMS. MATtie A. Gillespie, Clay Center, Kan.

BUFF ROCK COCKERELS, $3.50 AND $5. E. L. Stephens, Garden City, Kan.

PLYMOUTH ROCK COCKERELS $2.50 each. Frank Lohrmeyer, Logan, Kan.

PURE BRED BARRED ROCK COCKERELS $2.50. Inis Van Scoyoc, Oakhill, Kan.

LARGE BARRED ROCK COCKERELS, $3 each. Mrs. Wm. Slayter, Jewell, Kan.

THREE BUFF ROCK COCKERELS, $3 each. Mrs. Perry Myers, Fredonia, Kan.

BUFF ROCK COCKERELS. EGGS IN season. W. K. Stillings, Cumming, Kan.

QUALITY BUFF ROCKS—COCKERELS $5 each. Mrs. S. H. Hendrickson, R. 1, Okeene, Okla.

BARRED ROCK COCKERELS, $2.50 EACH if taken soon. C. S. Jordan, Brewster, Kan.

BARRED ROCK COCKERELS, $3. LAYing strain. F. C. Gerardy, Clay Center, Kan.

PURE WHITE ROCK COCKERELS $2, $2.50, $3. Mrs. Lorin Whitney, Fairview, Kan.

IVORY WHITE ROCK COCKEREL, $3; Farm raised. Alfred Vollmer, Bronson, Kan.

BARRED ROCK COCKERELS FOR SALE. Write your wants to L. Thomas, Wetmore, Kan.

ARISTOCRAT BARRED ROCK COCKerels, $2.50 each. Mrs. W. S. Adams, Lewis, Kan.

SNOW WHITE ROCKS ON APPROVAL, 3 and 5 dollars. I. L. Heaton, Route 1, Harper, Kan.

PURE BRED WHITE ROCK COCKERELS $3, $4. Fishel strain, Claire Donnelly, Sterling, Kan.

THOMPSON STRAIN BARRED ROCK cockerels, $3 and $5. Mrs. W. W. Scott, Russell, Kansas.

CLOSING OUT BUFF ROCK HENS, $2; Pullets, $2.50. Good ones. Mrs. Ennefer, Pleasanton, Kan.

FISHEL WHITE ROCKS (STRAIN DIRECT last year). Cockerels, $5. Mrs. W. J. Coyle, Sterling, Kan.

BUFF ROCKS, PRIZE WINNERS, STOCK and eggs. J. K. Hammond, 312 S. Lorraine, Wichita, Kan.

BARRED ROCKS. COCKERELS BRED TO lay strain. Eggs in season. E. M. McArthur, Walton, Kan.

LARGE BONED, YELLOW LEGGED Barred Rock cockerels, $2 each. L. K. Poos, Lowemont, Kan.

PARKS 200 EGG STRAIN BARRED ROCK cockerels, $2 to $10. Eggs in season. R. B. Snell, Colby, Kan.

25 WHITE PLYMOUTH ROCK COCKERELS from college stock, $3.50 to $5. Mrs. J. H. Taylor, Chapman, Kan.

"RINGLET" PULLET BRED PURE Barred Rock cockerels, $3.50. Mrs. Roy Hedge, Hoxie, Kan.

PURE BARRED ROCK COCKERELS, BRED for eggs and quality, $3. Mrs. Howard Field, Randall, Kan.

BARRED ROCKS, HEAVY LAYERS, REDeyed, nicely barred. Eggs, $2 per 15. Mrs. Dora Ward, Ames, Kan.

PURE BARRED ROCK COCKERELS, THE large kind, bred for laying, $4 and $5. C. H. Wempe, Seneca, Kan.

GOLDEN ROD PLYMOUTH ROCKS—stock and eggs for sale, $5 per setting. A. H. Waddell, Wichita, Kan.

PURE BLOOD RINGLET BARRED ROCK cockerels, choice individuals, $3-$5 each. E. M. Wayde, Burlington, Kan.

BARRED PLYMOUTH ROCKS, SELECTED. Purebred farm flock. Eggs 10 cents each. Mrs. Will Bocker, Solomon, Kan.

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

BARRED ROCK COCKERELS, WINNERS, $3 up. Eggs $6 per 100 prepaid, after March 1st. Lan Harter, Centralia, Kan.

BARRED ROCK COCKERELS, LARGE, well barred, good laying strain, $4 each; 6 for $20. Mrs. John Blough, Emporia, Kan.

WEIGHER-LAYER BARRED ROCKS. Utility $8, 100; pen $5, $7.50 setting, cockerels, $5 and up. C. F. Fickley, Earleton, Kan.

BARRED PLYMOUTH ROCK COCKERELS at $3 and $4 apiece. Satisfaction guaranteed. Mrs. Gus H. Brune, Lawrence, Kan.

PURE BARRED COCKERELS, HEALTHY, good barrings, large size, excellent laying strain, 6—$15; 12—$29. Mrs. S. Van Scoyoc, Oakhill, Kan.

ARISTOCRAT BARRED ROCK COCKERels, $3 to $5. Satisfaction guaranteed. Send us your order. James H. Parsons, Quinter, Kan.

WHITE ROCK COCKERELS, EGGS AND exhibition strains. Result of 26 years' breeding, exclusively. Thomas Owen, R. 7, Topeka, Kan.

PURE BRED BARRED ROCK COCKerels, 15 years breeding, winter laying strain. Price $4 each. Mrs. John P. Rielly, Emmett, Kan.

PURE BARRED ROCK COCKERELS. Heavy bone, good markings, $2 and $3. Indian Runner drakes, $1.50. Glendale Farm, Olivet, Kan.

WHITE PLYMOUTH ROCKS OF LAYING and exhibition quality. Choice cockerels and pullets; eggs in season. C. F. Carr, R. 4, North Topeka, Kan.

SKINNER'S WINTER LAYING STRAIN Barred Rocks, 36 years. Eggs, $5 for 100; $1 per 15. Valuable circular free. O. E. Skinner, Columbus, Kan.

PLYMOUTH ROCK COCKERELS, NICELY barred, yellow legged, red eyed, show winning strain, $3 each; $16 for six. Mattie Shearer, Frankfort, Kan.

THIRTY PURE RINGLET BARRED ROCK cockerels of quality. Satisfaction or money back. Description and prices on application. J. L. Deeds, Lyons, Kan.

PLYMOTH ROCKS.

BARRED ROCK COCKERELS, $3 and $5 each. William Harris, Waverly, Kan.

BARRED ROCKS, WINNERS AT LEADing shows. Cockerels, $5 to $15, light or dark. Eggs, $3.50 and $5 per 15. McKinley & Sturgeon, Stigler, Okla.

QUALITY STOCK GUARANTEED BARRED and Partridge Rocks, Buffs, Black Cochin and Golden Seabright bantams, New Zealand rabbits. W. K. Brooks, Burden, Kan.

DARK BARRED COCKERELS FROM choicest, purebred Aristocrats. Pedigrees furnished. Satisfaction guaranteed; $5 to $25. Mrs. Blanche Freeman, McAllaster, Kan.

LARGEST AND BEST WHITE ROCKS. Fishel-Ivory strains. Good layers. Fine cockerels at $3, $5, $10, $15 each on approval. Best "range" eggs, 100, $8. Fertility and packing guaranteed. Geo. F. Wright, Kiowa, Kan.

GRANDVIEW WHITE ROCKS, FARM raised, trapnested, exhibition strain, matured cockerels, $3.50, $5. Pen eggs from state show winners, $5-15; range $2-15; $8-100. Eggs prepaid. Satisfaction guaranteed. Chas Blackwelder, Isabel, Kan.

SIMS' BARRED ROCKS WON JANUARY 1920 at Kansas City Poultry Show, eight regular prizes and tied for best display. Great winter layers. All cockerels sold. Fine line of hens and pullets yet at $5 each. Pens mated for egg trade. George Sims, LeRoy, Kansas.

RHODE ISLAND REDS.

ROSE COMB RED COCKERELS, $3 TO $5. Laura Tegarden, Turon, Kan.

EXTRA FINE S. C. RED COCKERELS, $5. Mrs. B. J. Herd, Wilmore, Kan.

SINGLE COMB RED COCKERELS, $3 TO $7. Mrs. Ira Amend, Stafford, Kan.

LARGE S. C. RED COCKERELS, $2.50 each. John Malone, Lyons, Kan.

GOOD ROSE COMB RED COCKERELS, $2.50. Mrs. Guy Hall, Utopia, Kan.

FINE S. C. RED COCKERELS $3 to $5. Mrs. Minnie Miller, Kincaid, Kan.

LARGE, DARK RED, ROSE COMB REDS, $2 up. Mrs. F. Hawley, Belpre, Kan.

SINGLE COMB RED COCKERELS, $3 to $5. Roger Sullivan, Effingham, Kan.

GOOD SINGLE COMB RED COCKERELS, $3. Mrs. W. P. McFall, Sawyer, Kan.

ROSE COMB RED COCKERELS, $3 TO $4 each. Downie McGuire, Paradise, Kan.

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

FINE ROSE COMB RED COCKERELS, $2.50-$4. Verne Paddock, Hunnewell, Kan.

SINGLE COMB RED COCKERELS, NICE birds, $3 to $5. Bert Ferguson, Walton, Kan.

BRILLIANT REDS, SINGLE COMB, large bone, $3. Claude Meade, Anthony, Kan.

SPLENDID ROSE COMB RED COCKERels, $2.50 to $5. Lucy Ruppenthal, Lucas, Kan.

SINGLE COMB RHODE ISLAND RED cockrels, $2 each. Mary Smutz, Linn, Kan.

CHOICE S. C. RED COCKERELS AND hens, $2 up. M. E. Hawkins, Mound City, Kan.

VELVETY ROSE COMB RHODE ISLAND cockerels, $3, $5. Mina Johnson, Route 1, Erie, Kan.

ROSE COMB R. I. COCKERELS, BUSCHman strain. F. S. Myer, 217 Greenwood, Topeka, Kan.

ROSE COMB RHODE ISLAND COCKerels, $3; pullets, $2. Delia Schultze, Quenemo, Kan.

LARGE, DARK VELVETY RED COCKerels, Single Comb, $2.50. Edna Knisley, Talmage, Kan.

ROSE COMB REDS—EGGS FOR HATCHing. Mating list free. Alfred S. Alberty, Cherokee, Kan.

PURE BRED ROSE COMB RHODE ISLAND Red cockerels, $2 to $5 each. C. S. Holtzinger, Ellis, Kan.

SINGLE COMB COCKERELS, TEN YEARS a breeder. Satisfaction. J. J. Smith, Burlingame, Kan.

FINE S. C. R. I. RED COCKERELS, tested for fertility, $3 and $5 each. B. N. Wells, Rice, Kan.

EXTRA CHOICE RHODE ISLAND RED cockerels, $5 and $7.50. Mrs. M. F. Carlson, Cherokee, Kan.

CHOICE ROSE COMB RHODE ISLAND Red cockerels, $2.50 and $3. Chas. E. Booth, Paradise, Kan.

THOROBRED ROSE COMB DARK RED cockerels, Bean strain, $3-$5. Mrs. Lillie Wayde, Burlington, Kan.

LARGE, DARK RED R. C. R. I. COCKERels. The Red quill kind. $3 to $5 each. W. A. Fish, Concordia, Kan.

PURE ROSE COMB RED COCKERELS, good shape and color, $1.50-$3. Mrs. Walter Miller, Winfield, Kan.

CHOICE ROSE COMB RED COCKERELS, vigorous winter laying strain, $4 and $5. Vaughn DeGeer, Deerhead, Kan.

SINGLE COMB REDS, PULLETS AND cockerels, Rickseeker strain, cheap, good reasons. Robt. Murdoch, Baldwin, Kan.

EARLY HATCH, DARK RED ROSE COMB Rhode Island cockerels, $3, $4. Guaranteed. Walter Baird, Deerhead, Kan.

ROSE COMB RED COCKERELS, $3 AND up. Chicks and eggs from prize winning stock. Mrs. R. E. Hailey, Wilsey, Kan.

ROSE AND SINGLE COMB RHODE ISland Red cockerels for $3, $5, $10. Ten years show record. Marshall, LaCygne, Kan.

DARK ROSE COMB RHODE ISLAND RED cockerels, also three cocks, large, bony type, $3.50 and $4. Chas. Jacob, Chapman, Kan.

ROSE COMB REDS—FINE LOT OF RObust, deep colored cockerels. Longfield strain, $3 and $5. A. R. Hoffman, Haddam, Kan.

MY ROSECOMB REDS WON FIRST PEN state show three years straight. Cockerels $2.50 to $7. Morris Roberts, Holsington, Kan.

RHODE ISLAND RED COCKERELS, strictly pure and fine, three to five dollars. Guaranteed. M. A. Jones, Scottsville, Kan.

S. C. R. I. REDS, FARM RAISED, BRED to lay, and do lay. Eggs in quantity, now or later, $10 per hundred; $2 per 15. Mrs. Gertrude Donald, Emmett, Kan.

RHODE ISLAND REDS.

ROSE COMB RED COCKERELS, $3. JOHN Nicholas, Argonia, Kan.

PURE S. C. RED COCKERELS, $3-$5. Mrs. Finney, Ogden, Kan.

LUNCEFORD'S SINGLE COMB QUALITY Reds, cockerels $5 each. Eggs $1.50 per 15; $7 per 100. Sadie Lunceford, Mapleton, Kan.

ROSE COMB RED COCKERELS, DARK red, large bone, from good layers, $3 to $5; pullets, $3. Mrs. Maude Smith, Alden, Kan.

S. C. R. I. RED COCKERELS FROM BLUE ribbon winners; ten and fifteen dollars each. H. L. White, 1803 Ontario, Omaha, Neb.

EGGS IN BOTH COMBS FROM OUR state show winners, $3 per 15. Ask for mating list. Brumley Red Yards, Wellington, Kan.

LARGE DARK SINGLE COMB RHODE ISland Red cockerels, big boned, from scored birds, $3 to $5. Mrs. Frank Melcher, Seneca, Kan.

LARGE S. C. RED COCKERELS FOR SALE. $3 to $5. Eggs $2 per setting; $5.50 per 50; $10 per hundred Mrs. Mattie Grover, Lebo, Kan.

ROSE COMB REDS, COCKERELS AND cocks. We guarantee satisfaction. Will ship on approval. Redview Poultry Farm, Hays, Kan.

S. C. RHODE ISLAND RED COCKERELS that characterize true Reds. Will give absolute satisfaction. Mrs. E. S. Monroe, Ottawa, Kan.

FINE LARGE BONED S. C. RED COCKerels from the famous C. P. Scott strain direct. Eggs in season. Mrs. W. W. Scott, Route 5, Topeka, Kan.

COFFMAN'S FAMOUS REDS MAKE ANother sweep at state show, finest cockerels. Eggs from finest matings. D. F. Coffman, Josephine, Tex.

LARGE, DARK, VELVETY RED COCKerels, Single Combs, $2, $3, $5 each. Fine Bourbon Red turkey toms, $6; hens, $5. Mrs. T. A. Hawkins, Wakeeney, Kan.

PURE S. C. RHODE ISLAND REDS, EGGS $7 per hundred from healthy range chickens. Some baby chicks $15 per 100. Mrs. Israel Spitler, Grenola, Kan.

RHODE ISLAND REDS THAT ARE RED for sale. Cockerels, large single comb, $2, $3, $5 each. We have tested nine years for laying qualities. Eggs $10 per hundred. Henry Lenhert, Hope, Kan.

SINGLE COMBED COCKERELS, VIGORous, farm ranged, big boned, standard weight, early hatched from winter layers. Winners at big Free fair. $3.50 to $10 each. Longview Farm, Route 7, Topeka, Kan.

HEART OF AMERICA WINNER SINGLE Comb Reds. Tenth cockerel in class of 92. Cockerels with good color, type and vigor, $5 to $15. Choice hatching eggs, mating list free. Olive E. Jones, Parsons, Kan.

HARRISON'S FAMOUS "EXHIBITION egg strain." Single and Rose Comb Reds. Show winning, non-sitting, developed layers. Red breeding bulletins and mating lists on request. Robert Harrison, "The Redman," Station C, Lincoln, Neb.

FORTY MALES AND FEMALES, BOTH combs, large boned, rich red, vigorous birds. High-scoring show birds. Pen headers, breeding stock. Prices $3 up. Oldest breeder in Kansas. Winners Kansas state show. Judge A. M. Butler, Wichita, Kan.

BOTH COMBS, REDS WITH GOOD COLOR, type and heavy bone. From heavy laying stock. Choice $10 and $12 Rose Comb cockerels reduced to $7 and $10. May hatched, $5. Few cheaper. Single combs, $3.50, $5, $7, all on approval. Best value in hatching eggs from carefully selected farm flocks, 100 single, $8; rose, $9. Strong fertility and safe arrival guaranteed. Lists. Geo. F. Wright, Kiowa, Kan.

RHODE ISLAND WHITES.

ROSE COMB RHODE ISLAND WHITES, large, excellent layers. Eggs setting $1.50; 100, $8. Mrs. Frank Sloman, Effingham, Kansas.

ROSE COMB RHODE ISLAND WHITE cockerels, $5, $7.50 and $10. Guaranteed satisfaction. Seven years a Rhode Island White breeder. Mrs. John F. Nevin, Arrington, Kan.

ROSE COMB RHODE ISLAND WHITES—cockerels $3, $4, $5. This breed took first and second at national egg laying contest 1919. Catalog. Eggs 100, $12; 50, $6; 15, $2.50. Col. Warren Russell, Winfield, Kan.

WYANDOTTES.

GOOD SILVER WYANDOTTE COCKERELS. Henry L. Brunner, R. 5, Newton, Kan.

PURE WHITE WYANDOTTE COCKERELS, $3 choice. Nora Elliott, Haviland, Kan.

WHITE WYANDOTTE COCKERELS. three dollars. Mary Lowe, Alma, Kan.

PURE BRED WHITE WYANDOTTE COCKerels. Mrs. J. R. Antram, Galesburg, Kan.

I AM STILL SELLING SILVER WYANdottes. M. B. Caldwell, Broughton, Kan.

PURE ROSE COMB WHITE WYANDOTTE cockerels, $2. Vernie Smith, Studley, Kan.

GOOD GOLDEN WYANDOTTE COCKerels, $2.50. Mrs. Geo. Effland, Victor, Kan.

WHITE WYANDOTTE COCKERELS, $3 each. Mrs. Emma Arnold, Manhattan, Kan.

WHITE WYANDOTTE COCKERELS. BARron laying strain. Mayme Sheard, Esbon, Kan.

ROSE COMB SILVER LACED WYANdotte cockerels. Barton Morris, Protection, Kan.

CHOICE GOLDEN WYANDOTTE COCKerels, $2 each. Frank Dietrich, Miltonvale, Kan.

THOROBRED WHITE WYANDOTTE cockerels, $2.50 each. Mrs. John Howard, Clyde, Kan.

ROSE COMB WHITE WYANDOTTE COCKerels, $2.50. Sade Springer, R. 4, Manhattan, Kan.

ROSE COMB SILVER LACED WYANdotte cockerels $2.50 each. Henry Blasing, Zeandale, Kan.

MAMMOTH BRONZE GOLDBANK STRAIN toms, $10 and $15. Freda Peckenpaugh, Lake City, Kan.

SANDERS SILVER WYANDOTTES, PRIZE winners, Kansas City show. Cockerels $3 and $5. Ralph Sanders, Osage City, Kan.

WYANDOTTES.

WHITE WYANDOTTES, COCKERELS AND eggs. H. O. Collins, Fontana, Kan.

SILVER WYANDOTTE COCKERELS, $2.50, up. Mrs. Clinton Wells, Gridley, Kan.

THOROBRED WHITE WYANDOTTE COCKerels, $3 to $5. Eggs, $7 per 100. Bruce Taylor, Alma, Kan.

QUALITY WHITE WYANDOTTE COCKERels with records to back them. G. L. Wright, Coats, Kan.

PRIZE WINNING WHITE WYANDOTTES. Laying strain, cockerels $3 to $7. Clara Long, Idana, Kan.

ROSE COMB WHITE WYANDOTTE COCKerels, $3; hens, $2. Dustin strain. J. O. Stewart, Wamego, Kan.

BEAUTIFUL LAYING BUFF WYANandottes, females $3, cockerels $4. H. O. Bartlett, Abilene, Kan.

COLUMBIAN WYANDOTTES, STOCK AND eggs in season, also fancy pigeons. J. J. Pauls, Hillsboro, Kan.

GOOD SILVER LACED WYANDOTTE cockerels, $3 each. Mrs. W. S. Heffelfinger, Effingham, Kan.

SILVER WYANDOTTES, COCKERELS $3, $4, $5; eggs $3; two settings $5. Charles Flanders, Springhill, Kan.

WHITE WYANDOTTE COCKERELS, Fischel-Regal strains, $2.50. Eggs. Herman Dierking, Bremen, Kan.

WHITE WYANDOTTE COCKERELS $3.50. Satisfaction guaranteed. Eggs $7 per 100. Fred Borger, Pierceville, Kan.

ROSE COMB SILVER LACED WYANdotte cockerels, $2.50 each. Walter E. Christian, Route 5, Clyde, Kan.

WHITE WYANDOTTE COCKERELS, BRED from record layers. Catalog free. Mrs. A. J. Higgens, Effingham, Kan.

REGAL WHITE WYANDOTTES. BLUE ribbon winners. Eggs for hatching. Mrs. Gomer Davies, Concordia, Kan.

SILVER WYANDOTTE COCKERELS, laced right, sized right, priced right. Genuinely pure. Ralph Sanders, Osage City, Kan.

PREMIER PARTRIDGE WYANDOTTE cockerels, $5 to $10. Satisfaction guaranteed. Speak up. F. R. Beery, Concordia, Kan.

FINE PURE BRED WHITE WYANDOTTE cockerels $5, $8 and $10. These are real Wyandottes. J. A. Robinson, jeweler, Nickerson, Kan.

CHOICE ROSE COMB SILVER LACED Wyandotte cockerels, laying strain, best ever, $3 to $5. Eggs in season, $3 setting. Henry Olivier, Danville, Kan.

BLOCK'S WHITE WYANDOTTE FARM, Clay Center, Kan. Home of the Henrietta. Bred-to-lay, pen method. 26 years with Wyandottes. Cockerels and hens for sale.

FOR SALE—A FEW CHOICE WHITE Wyandotte hens. Bred from trap-nested egg producers. Very cheap at $4 each. Mrs. R. C. Obrecht, Topeka, Kan., Route 28, Phone 878 J-2.

TURKEYS.

WHITE HOLLAND TURKEYS—GEORGE Waters, Elk City, Kan.

PURE BOURBON RED TOMS, $7. F. E. Conn, Route 3, Haven, Kan.

BOURBON RED TOMS, $10; HENS, $7. Mrs. H. Passmore, Wayne, Kan.

BOURBON RED TOMS, $10 AND $8; HENS, $7. Carrie Yapp, Jewell, Kan.

BOURBON RED HENS $6 AND $7. Vaughn DeGeer, Deerhead, Kan.

FOR FINE BOURBON RED TURKEYS write Rena Gilchrist, Peabody, Kan.

PURE WHITE HOLLAND TOMS $10; HENS $7. Mrs. Will Jones, Wetmore, Kan.

FINE WHITE HOLLAND TURKEY TOMS, $8. Jennie C. Broady, Kincaid, Kan.

PURE WHITE HOLLAND TURKEY TOMS, $8; hens, $6. Frank Darst, Fredonia, Kan.

MAMMOTH BRONZE TOMS, LARGE boned, $10 and $8. Ellen Hern, Plainville, Kan.

NARRAGANSETT TOMS, LATE HATCH 15 to 19 pounds. Fred C. Sackhoff, Downs, Kan.

GOLDBANK BRONZE TURKEYS, BEAUties; toms, $10; hens, $7.50. Mrs. A. Burg, Lucin, Kan.

FOR EXTRA FINE YOUNG MAMMOTH Bronze turkeys write to R. L. Parrott, Osborne, Kan.

PURE BRED MAMMOTH BRONZE TURkeys. Toms, $12; hens, $7. W. Williams, Carlton, Kan.

PRIZE WINNING WHITE HOLLAND TURkeys. Toms, $10; hens, $6. Grace Scott, Anthony, Kan.

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

MAMMOTH BRONZE MAY TOMS, 26 LBS., $10, hens $7. Satisfaction guaranteed. Arthur Sawtry, Fowler, Kan.

LARGE, WHITE HOLLAND TOMS, $10; hens, $6. Barred Rock cockerels, $3. Norman Gross, Russell, Kan.

BIG TYPE GIANT BRONZE TURKEYS. Choice unrelated trios. Two extra fine toms. Vira Bailey, Kinsley, Kan.

WANTED TURKEYS—PAY 40 CENTS LB. alive. Fancy price paid on all breeding stock. Shelton Poultry Co., Denver, Colo.

PRIZE BRONZE TURKEY TOMS $12 each. Golden Laced Wyandotte cockerels $2 each. Mrs. J. W. Hyde, Altoona, Kan.

MAMMOTH BRONZE COCKERELS, SIRE from $200, 50 pound tom. Hens 20-25 pounds. Eggs in season. Cecil McArthur, Burton, Kan.

EXTRAORDINARY FINE MAMMOTH Bronze turkeys for sale. None better. Exceptional prices. Gertrude Washington, Washington, Kan.

MAMMOTH BRONZE TURKEYS OF QUALity. Large, vigorous, well marked birds. Flock headed by Chicago winner. Mrs. E. Powell, Higginsville, Mo.

PURE BRED BOURBON RED TURKEYS. Toms pure white tail except 1 feather, $10; others $8. Hens $5, $6. Dark, even color. Mrs. John Hime, Manchester, Okla.

GIANT BRONZE TURKEY EGGS, PULsire weighed 25 pounds at five months. Mammoth males. Bird Brothers' "Goldbank" strain. Prices right; 5 toms yet at $15 and $20. Guaranteed. Geo. F. Wright, Kinsley, Kansas.

TURKEYS.

PRIZE WINNING MAMMOTH WHITE Hollands. "The big boned, pink legged kind." Toms, $12 and $15. Eggs, $1.50 each. Mrs. E. V. Collins, Belleville, Kansas.

BOURBON RED TURKEYS—TOMS $9—Hens, $6. Mammoth Pekin drakes, $2.50 each; 3—$7. White Rock cockerels, $3. Eggs for hatching from above stock. R. W. Kunze, Randolph, Kan.

GOLDBANK MAMMOTH BRONZE TURkeys. At three state shows I have won six 1sts, three 2nds, one 3rd, one 4th and 2 5ths. Cockerels $15 to $20. Pullets $8 and $10. Mrs. James Aitkin, Severy, Kan.

GIANT STRAIN WHITE HOLLAND EGGS, from large healthy stock, $1 each, every egg guaranteed fertile. Prize mating, $1.50 each. Raise show birds. No turkeys for sale. Henry Montgomery, Troy, Kan.

SEVERAL VARIETIES.

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

MONEY MAKERS, SUSSEX, REDS, ANconas; eggs in season. Clara McPheeters, Baldwin, Kan.

CHOICE WHITE ROCK COCKERELS, white guineas, Buff Orpington ducks. Mrs. Chas. Snyder, Effingham, Kan.

68 BREEDS, FINE PUREBRED CHICKens, ducks, geese, turkeys. Stock and eggs. Catalog 4c. A. A. Ziemer, Austin, Minn.

PURE BRED WHITE ROCK AND RHODE Island White cockerels, four and five dollars. Exceptionally fine birds. M. A. Jones, Scottsville, Kan.

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

FOR BEST VALUES IN HATCHING EGGS at farmers' prices from most popular strains of Reds, White Leghorns, White Rocks and Bronze turkeys. Write Wright's Poultry Farm, Kiowa, Kansas.

GAME BIRDS, POULTRY AND CANARIES, Pheasants, Peafowl. Chickens, "Ringlet" Barred Plymouth Rocks, Buff Cochin Bantams, Silkies. Turkeys, Mammoth Bronze, "Goldbank" Strain. Splendid 18 months old toms $15. Mallard ducks, $5 trio. Mrs. Iver Christenson, Jamestown, Kan.

POULTRY WANTED.

RUNNER DUCKS WANTED. EMMA AHLstedt, Lindsborg, Kan.

PAYING FOR No. 1 CAPONS, 32c; HENS, 30c; turkeys, 38c pound. Coops loaned free. "The Copes", Topeka.

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

WANTED—900 RUNNER DUCKS AND ALL leading varieties thoroughbred fowls, also Hamburgs, Campines, Games and Hares. Describe what you have. Name lowest wholesale price. I buy entire flocks. P. W. Frehse, Clarinda, Iowa.

POULTRY SUPPLIES.

MANDY LEE INCUBATOR, 200 EGG, GOOD condition, $30. Buff Rock cockerels. Maggie Stevens, Humboldt, Kan.

CLAY COUNTY POULTRY AND PET Stock association, all breeds and varieties. Directory free. Sec'y H. L. Boge, Harvard, Neb.

YOU CAN RAISE EVERY CHICK YOU hatch if you start them on Brooks' Best chick-starter. This is a pure baby chick food that contains dried milk, meat scraps, kiln dried meals, and etc. It does not contain weed seeds, grain screenings, etc., like are used in many grain feeds. Ask your dealer, if he won't supply you, will ship direct. 100 pound sacks $5.50 or 500 pounds $26.25 on cars here. We do not ship less than 100 pounds. The Brooks Mfgrs., Fort Scott, Kansas.

STRAY LIST.

TAKEN UP BY J. F. PARSONS, WHO RESides in Center township in Stevens county, on the 8th day of December, 1919, one red steer, branded "N" on right side. Age, past one year. C. A. Bell, county clerk.

TAKEN UP BY C. M. BOSLEY, OF OLIVET, Olivet township, on the ninth day of October, 1919, one female fox hound; color black and tan with some white. Age, about 8 months. Stella Olcott, county clerk.

TAKEN UP BY OSCAR OLSON, WHO RESides at Osage City in Grant township, on the 5th day of November, 1919, one steer, weight about 600 pounds, color red with part white face; with horns; left ear split. Stella Olcott, county clerk.

Grow Quality Poultry

BY G. C. WHEELER

It will pay to grow quality poultry, and this means the keeping of flocks of standard-bred varieties instead of mongrels or even crosses or grades of standard varieties. The present indications are that within a few years the demand for the poorer quality of poultry so much in evidence now will be greatly reduced.

A new impetus has been given to the production of poultry meat during the past few years. The shortage of other meats as a result of war-time demands has helped to foster and encourage this movement. The demand and popularity of poultry meat has increased. Increased quantities were consumed during the war and the habit has been acquired. It is interesting to note in this connection that the most marked increase in demand has been for the higher quality, well finished product.

In Kansas during recent years it has been quite common to hear farm poultry raisers remark, "There is just as much money in raising mongrels or mixed breed chickens as in raising standard- or pure-bred varieties." There is but one reply to this and similar remarks. Namely, that any profits made with mongrels is not because of them but in spite of them and because the market did not discriminate against them as it should. With the increasing demand for the higher quality finished product, we are fast approaching the time when all poultry will be bought on a strictly graded basis. This will of course mean a severe penalty on the poor quality mongrel stock and a liberal price for the good quality standard-bred poultry.

Every poultry breeder and farm poultry raiser who has dressed birds of various varieties for home use knows that white feathered varieties dress to better advantage than others. The buff varieties are nearly as good as the white in this respect, whereas the black feathered varieties do not present a good appearance when dressed. The following varieties are especially desirable, and good quality in these varieties should bring top prices: White Plymouth Rocks, White Wyandottes, White Orpingtons, Buff Plymouth Rocks, Buff Wyandottes, Buff Orpingtons, and White Rhode Islands. Particolored standard varieties of good quality are also desirable and should command prices just a little lower than the above. These include: Barred Plymouth Rocks, Rhode Island Reds, Silver Wyandottes, etc.

From a market poultry standpoint there is no place for the mongrel or nondescript chicken so common in parts of Kansas. Even where standard-bred males of the larger varieties are introduced to improve a mixed flock there will be a flock that is far from uniform in size, shape and color. These are important factors and have an influence on the price which may be secured for the finished product. There are too many farms on which no effort is made even to keep up the size of the birds. A great many farms in this state have just chickens and the owners keep the chickens instead of having the chickens help to keep the owners.

The mongrel is largely a result of the application of the "Survival of the Fittest" theory. Many poultry raisers who keep mongrels claim that they are hardier than the purebreds. This is not the case. To claim that they are tougher is nearer the truth. The fact that they are the result of careless handling and are a mixture of several varieties makes this the case. Poultry of this class often causes loss to buyers who fatten because of the large number of deaths during the finishing period. The fowls also show smaller gains than standard-bred birds and are not attractive when dressed.

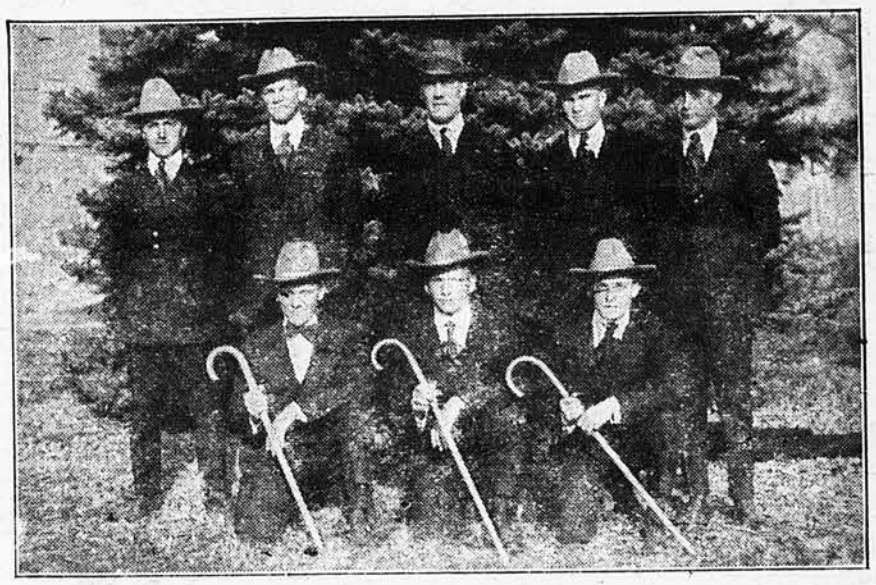
This is the time of year when farm poultry raisers should make their plans for the coming season. It is advisable that the matter be considered from all angles. To decide on raising a certain number is not sufficient. If the present flock is composed of a mixture it will surely be worth while to make a fresh start with a variety having the advantage of good meat production as well as good egg production. If a standard variety is now being kept but with unsatisfactory results, it is possible that some one line of the returns is not showing up to advantage. To realize a fair profit from poultry in this part of the country it is important that no one line of returns be depended upon. It is necessary that we consider the income from the sale of broilers as well as the income from eggs sold. The value of hens sold after they have passed a profitable stage as layers should also be considered. A change of the variety kept may mean changing from loss to profit or it may mean increasing the profits. It is well to consider such matters in advance of the season so that orders for hatching eggs, baby chicks or breeding stock may be placed early. This will insure a better opportunity of obtaining just what is wanted.

Do You Wish Better Harness?

Have you ever taken time to estimate how many horses are injured and maimed every year thru the use of poor and improper harness? Have you ever thought what it would mean to have harness with no buckles, no holes in the straps, no loops, no snaps, no billets, and no friction on the straps? Often a set of ordinary harness may have as many as 68 buckles, 275 holes in the straps, 10 to 14 snaps, 100 loops, 70 billets, and about 275 places where the straps wear thru by friction against metal rings and other metal bearings. Look your harness over carefully and make an inventory of these things and then write us what you observe. Tell us what kind of harness you are using and how you think it can be improved. Do you want something better? Do you want us to suggest something to you? If we get suggestions from every one, it will be an easy matter to determine what would be the best kind of harness to have. Send us your suggestion by return mail. We wish to hear from all of our subscribers. Prizes will be given for the best letters and we will pay for all the other letters we publish at regular rates. Address all letters to John W. Wilkinson, Farm Letter Department, Kansas Farmer and Mail and Breeze, Topeka, Kan.

Winning Stock Judges

The stock judging team from the Kansas State Agricultural college has been unusually successful. It won first at the National Western Live Stock Show at Denver and third at the International Exposition at Chicago. The members of the team are, reading from left to right, top row: P. E. Neale, Manhattan; Nevels Pearson, Manhattan; F. W. Bell, Manhattan, coach; K. D. Thompson, Densmore, and J. D. Montague, Anthony. Bottom row: F. D. Welsh, Emporia; W. R. Horlacher, Colby, and H. R. Guilbert, Wallace.



The Stock Judging Team of the Kansas State Agricultural College, Winners of First Place at the Western Live Stock Show at Denver.

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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.*

KANSAS

WESTERN LANDS FOR SALE OR TRADE.
J. E. Stohr, Ensign, Kansas.

50 Southeastern Kan. farms for sale. Possession March 1. **Robbins & Craig, Thayer, Kan.**

FOR SALE. All kind of farms. Write for list. **Carl Johnsmeyer, Clay Center. Kan.**

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

WRITE your wants to Bersie Agency, Eldorado, Kansas, for land bargains.

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

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

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

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

FOR SALE—1,000 acres, well improved wheat, alfalfa and stock ranch.
A. C. Bailey, Kinsley, Kansas.

730 ACRES, good wheat and corn land, for sale. Two bodies, terms. Write owner.
E. E. White, Akron, Colorado.

80 ACRES, 1 mile of Westphalia, highly improved, $70 acre.
W. J. Poire, Westphalia, Kansas.

160 ACRES, improved, half pasture. Well watered, good soil. $40 acre. $2,000 will handle. **Chase Agency, Severy, Kansas.**

320 OR 640 ACRES fine unimproved Kansas farm land, $10.00 acre.
Claude Chandler, Syracuse, Kansas.

WESTERN KANSAS LAND
We will buy your land if price right.
W. A. Layton, Salina, Kansas.

WE CAN SUIT YOU in stock and dairy farms in Leavenworth county, any size.
Will Newby, Tonganoxie, Kansas.

FINE HOME—160 near Emporia, all alfalfa, new buildings, near school; $15,000.
T. B. Godsey, Emporia, Kansas.

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

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

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

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

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

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

160 ACRES, 4 miles Culver, 1 mile school; 80 a. wheat, ⅓ goes; spring crop and pasture; good house and other buildings. $70 a. Terms. **Art Miller, R. 6, Minneapolis, Kan.**

OFFER A GOOD FARM, well improved, for a good stock merchandise, also some western lands, and some cash for merchandise.
Lock Box 448, Sterling, Kansas.

WANT 10 TO 30 ACRES, adjoining good R. R. town, good water and improvements. Description and price given.
T. J. Meadows, Walnut, Kansas.

240 ACRES, 6 miles town, 70 a. in cultivation, balance grass, good imp., $42.50 per acre, close to school and church, 1 mi. good gas field. **C. H. Wilson, Moline, Kansas.**

BARGAINS—Wheat, corn, alfalfa and grass lands in Virdigris or Fall River bottom. Any size tract you want.
L. S. Hover, Eureka, Kansas.

TWO SQUARE SECTIONS
Living water; 6 miles to county seat. Price $22.50 per acre. Terms.
D. F. Carter, Leoti, (Wichita Co.) Kan.

BUY THIS BARGAIN—40 a. improved in Osage County, Kansas; 20 a. growing wheat; $3,200 gets it if sold quick. Address
Owner, 315 Quinton, Topeka, Kan.

THREE GOOD Douglas Co., Kan., improved farms for sale cheap if taken soon, nine to eleven miles southwest of Lawrence.
Roy Flory, Lone Star, Kansas.

FARMS ranging from 80 to 600 acres, well improved, for sale. Black loam soil from $75 to $100 per acre.
Jake Brown, Olpe, Kansas.

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.

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

KANSAS

FOR SALE—202 acres well improved bottom farm, 4 miles from Abilene. Write for description.
Mrs. W. T. Reed, R. 1, Enterprise, Kan.

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

WE HAVE several choice Kaw valley alfalfa and potato farms. Some fine upland farms, good black rich soil, well improved. Close to Lawrence and university. Write **Wilson & Clevenger, Merchants Bank Bldg., Lawrence, Kan.**

320 ACRES, Lane county, Kansas; close to town, mostly smooth, 190 acres wheat, good improvements, big bargain, only $32.50 acre, attractive terms. **Mansfield Investment & Realty Company, Healy, Kansas.**

240 ACRES, well improved, price $100.
145 acres, 60 in wheat, price $75.
316 acres, price $125 per acre.
Write for description.
Triplett Land Co., Garnett, Kansas.

480 ACRES, smooth as floor, only half mile town, Lane county, Kansas; 300 acres wheat, highly improved, good road. Price $40 per acre, terms.
Philip Robinson, Healy, Kansas.

240 ACRES LYON COUNTY
Part creek bottom, priced to sell $85. 61 acres bottom, $185.
JAS. C. DWELLE,
Emporia, Kan.

WE HAVE A FARM in the oil belt and have an oil man ready to drill if buyer will lease. Price $16,000 which is its value as a farm. Other farms.
Holcomb Realty Co., Garnett, Kansas.

80 ACRES, well improved, good 9 room house. Good barn, 50 a. in cultivation. 10 a. blue grass pasture, 12 a. prairie hay, 8 miles Waverly, 3 mi. smaller town. Price $5,200, terms. **W. H. Lathram, Waverly, Kan.**

WE HAVE some splendid. 40's, 80's, 160's close Ottawa, well improved, good corn, wheat land. Priced worth the money, at your service. Write us.
Bridwell-Gilley, Ottawa, Kansas.

FOR SALE—160 a. good upland, 80 a. cult., 50 pasture, bal. hay land. Good orchard. Fair improvements, 14 miles of Topeka, 3 mi. of high school and 1½ mi. of grade school. **W. F., Kansas Farmer and Mail and Breeze, Topeka, Kansas.**

120 ACRES, ¾ mile from depot LeRoy, Kan. Good house, nearly new barn, smoke house, other outbldgs. Land all lays fine, good soil and well watered. Price $125 per acre. Will give possession March 1st if sold soon.
LeRoy Realty Co., LeRoy, Kansas.

160 ACRES, $2,000. $687.50 cash, balance $187.50 yearly, 6%. 10 miles from town. Half choice, tillable land, balance fine pasture, 60 acres cult. Immediate possession. No improvements. No trades.
Griffith & Baughman, Liberal, Kan.

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

122 ACRES, 1 mile town, large improvements, some alfalfa, all creek bottom land, 25 acres wheat, 25 acres blue grass pasture, balance for spring crops, fine water, big bargain. Price $150 per acre. Write **W. T. Porter, of Kansas Land Co., Ottawa, Kan.**

WE HAVE some bargains in 80s, 160s, 320s. Well improved good corn and wheat land in Greenwood and Elk county, Kan. Some bottom land; also a few ranches. At your service. Write us.
Brandt & Stine, Severy, Kansas.

KANSAS—3,120 acres, 2,000 under plow, 7 sets imps., 35 miles fence stone posts, good water. Sold with crops, livestock, machinery or without. Syndicate proposition and a good one. Look it over. No trade. Cut into tracts, if too large.
L. C. Walbridge, Russell, Kansas.

115 ACRES, 3 miles Ottawa. Well improved. Large silo, etc. 35 wheat, 12 alfalfa. Nice home. Possession at once.
155 acres, 4½ miles Ottawa. Well improved. 25 wheat. 100 hog tight. Beautiful piece of land. Immediate possession. Write for full descriptions, booklet and list No. 456.
Mansfield Land & Loan Co., Ottawa, Kan.

KANSAS

POSSESSION NOW—Several good farms, share crops to go, one-half section, living water, 60 bottom, 4 miles out, horses, cows, implements, etc., only $36.25 an acre. If wanting home, get illustrated list 33 real snaps before locating.
Buxton Whitmer Co., Ransom, Kansas.

GOOD GRAIN AND STOCK FARM
720 acres, 6 miles from town, 220 acres in cultivation, 160 acres fine wheat, balance splendid pasture. Well improved. Price only forty dollars per acre, with good terms. Write for new land list.
Justin T. Avery, Traer, Decatur County, Kan.

320 ACRES WHEAT LAND
Near Spearville, small improvements, all fenced, 110 acres pasture, 210 acres wheat, all goes, good road to town, telephone and daily mail, plenty of water, possession any time. $65 per acre.
Chas. E. Stapleton, Owner, Spearville, Kan.

480 ACRES
Combination stock, grain and alfalfa farm. Well watered with fine springs; 280 acres in cultivation; 100 acres wheat to buyer; for quick sale, $28,000, with terms.
W. B. POWELL REAL ESTATE CO.,
305-6 Bitting Building, Wichita, Kansas.

STOCK FARM BARGAIN
560 acres, 5 miles out, 100 a. valley land in cult., 460 a. all fine prairie meadow and pasture; 60 a. wheat goes. Fine stock ranch. 5 room house, barn 40x60. Bargain for quick sale. $42.50 per a. Possession now.
M. T. Spong, Fredonia, Kansas.

BEAUTIFUL FARM HOME
Located 4 miles town, Lane County, Kansas, all smooth land, 160 pasture, 160 farm land, only $10,500. Terms. Write for bargain list and Kansas map.
Mansfield Investment & Realty Co.,
Healy, Lane Co., Kansas.

FOR SALE—80 acres, improved, 5 miles Ottawa; price, $8,000, $2,000 down, long time on balance.
320 acres, 7 miles Franklin Co. town, all good bottom, good improvements. Price $100 per a. Inc., $14,000, 4 yrs. 6%. If you have anything to exchange write, **J. T. Printy, with Kansas Land Company, Ottawa, Kan.**

QUICK SALE
Three hundred twenty acres. Pawnee county, good house, small barn, splendid land, no better. Two hundred to wheat. Possession. $10,000 will handle it. Balance long time six per cent. Worth over hundred per acre, will take eighty-five.
Lock Box 448, Sterling, Kansas.

240 ACRES, 8 miles from Anthony, 1½ miles from elevator; tenant improvements. 25 acres in pasture, balance first class productive crop land, laying in fine neighborhood. Price $67.50 per acre. Landlord's share of crop goes.
Couch Land Company, Anthony, Kan.

FOR SALE—330 acres, 4½ miles of Franklin county town, 12 miles Ottawa, 250 acres in cultivation, balance pasture and mow land, spring water, 8 room house, fair barn, silo and other buildings. Price for quick sale, $100 per acre, or might take smaller farm 80 to 100 acres. Write **R. R. Tucker, of Kansas Land Company, Ottawa, Kansas.**

A DANDY BARGAIN—160 acres, Ness county, Kansas; 4 miles from market; about 80 acres in wheat, share with place; light improvements; close to school; possession of improvements and pasture land at once; offered for quick sale for $35 an acre. This is a bargain. **Jas. H. Little, The Land Man, LaCrosse, Kansas.**

FOR SALE—Brick business building in McDonald, 30x75 feet basement and storeroom. Eleven office and living rooms in second story. Fine club room in basement, wired for electric lights, steam heat, toilets, baths, hot and cold water. Fully rented, built two years. Priced about half what would cost to build now.
Box 137, McDonald, Kansas.

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

FOR SALE—640 acres, one of the best stock farms in Eastern Kansas, 175 acres cultivation, 30 acres prairie meadow, 25 acres alfalfa, balance good pasture with abundance of good water, all fenced. Improvements: 4 room house, good barn, other outbuildings, just fair. This farm is priced worth the money at $75 per acre, being an estate must be sold. Write for full description and pictures. **R. R. Tucker, with Kansas Land Company, Ottawa, Kansas.**

160 ACRES, 4½ MILES LAWRENCE
Two miles R. R., elevator and store, ¾ mile school, 1½ miles church. 157 acres tillable, 85 acres wheat goes, 15 pasture, balance spring crop. House 6 rooms, barn 38x40, 100 ton silo. Granary 40x40, chicken house, garage. Never failing water. Land smooth. A real farm home in splendid neighborhood. Price $155 per acre. Possession March 1, 1920.
Hesford Investment & Mortgage Company, Lawrence, Kansas.

KANSAS

CREEK AND RIVER FARM—200 acres, 4½ miles from here, 4 miles from Strawn, good 8 room house, basement under it all. Barn and sheds and fine chicken house. Young orchard. 20 acres alfalfa, 130 acres fine alfalfa land, 25 a. in wheat, 40 acres native prairie pasture, plenty of timber on creek. This is as good a farm as you can find anywhere. Price only $150 per acre till February 1, 1920.
R. R. Johnson, Hartford, Kan.

320 ACRES of land 2 miles from Olpe, Kan., large house, good double crib and large barn, improvements in good condition. 145 acres in cultivation, 100 acres of which is sowed to Kanred wheat, balance of farm in pasture. Price $80 per acre including wheat if sold within 30 days.
A good 160 acre farm, 5 miles from Olpe, Kan., 90 acres in cultivation partly in wheat. Balance in pasture. This is as good a small farm as there is in the country. Price $65 per acre.
Bradfield & Hathaway, Olpe, Kansas.

320 ACRES, 1½ miles good town, new rural high school, fine improvements, 8 room house, large barn, silo, etc. Plenty good water. Land lays well, 160 acres grass, balance plow. About 100 acres wheat goes. $127.50.
480 acres, Anderson county; 6 miles to two good towns; 10 room house, full basement, good barn. Good water, land all lays well, no breaks, rock nor gravel. 300 acres good grass, balance in plow, about 50 acres wheat. Sacrifice price for quick sale $75 acre. Possession at once. School at corner of farm. Write today for list of other good farms. **Dickey Land Co., Ottawa, Kan.**

SOUTHWEST KANSAS is developing fast. Farmers are making good profits on small investments. It is the best place today for the man of moderate means. You can get 160 acres for $200 to $300 down, and no further payment on principal for two years, then balance one-eighth of purchase price annually, interest only 6%—price $12.50 to $20 an acre.
Write for our book of letters from farmers who are making good there now, also illustrated folder with particulars of our easy purchase contract. Address **W. T. Cliver, Santa Fe Land Improvement Company, 404 Santa Fe Bldg., Topeka, Kansas.**

LYON and CHASE CO.

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

The Bargain Counter

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

80 Fine Acre Farm

3 miles Ottawa, Kan., 56 miles Kansas City, all fine tillable land; 15 acres blue grass; 25 acres wheat; 7 room house; natural gas; good barn; never failing water; County Highway; R. F. D. telephone. Possession at once. Good terms if wanted.
80 acre farm 4 miles Princeton, Kansas, 12 miles Ottawa. Brand new improvements; all fine land; price $125 per acre; $2500 or more cash, remainder good terms, if wanted.
CASIDA & CLARK LAND CO.,
Ottawa, Kansas.

Coffey County Bargains

160 a., 3 mi. of Waverly, on main road, lays smooth, 40 a. wheat, ⅓ goes, 40 a. native grass, bal. for spring crops; 5-room house, new barn 36x44 ft. Plenty of water, 1 mi. to school. Price $90 per acre. Good terms.
80 a. 5½ mi. of town, 20 rods to school, lays good; 30 a. for spring crops, 30 a. good pasture, 20 a. tame grass meadow. Good house of 7 rooms, new barn 30x30 ft. Abundance of everlasting water, on main traveled road; price $6,500. Good terms.
Many other good bargains in any size tract. Write for list.
Geo. M. Reynolds, Waverly, Kansas.

For Sale

2720 acres in Phillips and Rooks counties all in one body, best of soil, open water in all pastures, some timber, 1200 acres in cultivation. Can be divided in four tracts with improvements for each. Possession at once.

SPANGLER BROS.
Hutchinson, Kansas.

1800 ACRE RANCH FOR SALE

Located on Cimarron river between two railroads, 8 miles to one station, 12 miles to another. About 800 acres of bottom land, shallow to water a good per cent of which is choice alfalfa land. About 140 acres natural hay meadow, cut 16 good ricks of hay this year; about 140 acres in cultivation, balance natural grass. Good one and a half story six room house; good milk house thru which water is pumped by windmill to stock tanks; granary with about 2,000 bushel capacity; good barn about 40 by 120 feet; good board corral with branding chute; new garage with cement floor. There are numerous other sheds and buildings on the place, in fact all the improvements necessary are now there. There is an apple orchard with 25 or 30 trees probably 18 inches thru, which were loaded with apples this year. There is also enough timber around the improvements to shelter all the stock the ranch will carry and furnish fuel and posts for all time to come. This is the most ideal ranch on the Cimarron. Possession April 20, 1920. Will sell on reasonable terms. Price $20 per acre.
McKINLEY & ELY, ASHLAND, KAN.

PAYING BUSINESS FOR SALE

Want to change locations and will sell my four and half ton ice plant, moving picture show (the only one in town), $5,000 stock general mdse., small equity in well located real estate, equity in some pasture leases, etc.; also my real estate and insurance business. For quick sale of whole business, will take 70% of actual value. Come see me.

M. W. PETERSON, JETMORE, KANSAS

For Sale: 340 Acres in Reno Co., Kan.

Fair improvements, fine soil and water.
220 acres in wheat. Possession at once.

S. S. Spangler, Hutchinson, Kansas

KANSAS

560 ACRES, 230 acres of which is good bottom land, 2 miles from Medicine Lodge, on Elm creek. 200 acres in cultivation; 80 acres in alfalfa. Good improvements, plenty of pasture and plenty of good running water. Price $50 per acre. Terms on $20,000.

2,000 acres of fine grass land, Ochiltree Co., Texas. On Wolf creek, 300 to 400 acres bottom land, plenty of running water, large per cent can be cultivated. This is an A No. 1 ranch. Price $12.50 per acre.
John Ferriter, Wichita, Kansas.

Own Some Wheat Land
Write for list of wheat land at $50 an acre.
Young Realty Co., Oberlin, Kansas.

Land Auction
566 Acres of Land

To settle Estate of D. B. Howe and Eliza A. Howe, we will sell at Public Auction, starting at the home place 1:00 p. m. sharp.

Monday, Feb. 16

Located in Sedgwick County, Kan.

N.E. ¼, S. 16, T. 25, R. 2 W. \ S.E. ¼, S. 15, T. 25, R. 2 W. 246 acres pasture and meadow land in 21-25-2 West.

DESCRIPTION OF LAND AS FOLLOWS: N.E. ¼ of 16-25-2 West, dark sandy loam. All of quarter is ready for spring crop. Best of corn, wheat and oats land.

IMPROVEMENTS: Large two story house, 32x32. Nine large rooms. Two room basement. Each room in cellar 16x32. Large barn, 35x72. Large double corn crib. Possession given March first.

S.E. ¼ of S. 16-25-2 West, dark sandy loam. 60 acres wheat, ⅓ goes with place. 20 acres extra good meadow, 17 acres pasture.

IMPROVEMENTS: Good two room house 14x28. New barn built last year 36x48.

246 acres river land in section 21-25-2 West. 90 acres extra good meadow land, balance 156 acres good bottom land pasture. Good windmill in pasture.

All the land lies in the rich Arkansas River bottom, 10 feet to water so is sub-irrigated.

LOCATION: 24 miles N. W. of Wichita, Kan. 1 mile west of Bentley. 8 miles south and 1 west of Halstead. 5 miles north of Colwich. 2 miles south and 6 miles west of Sedgwick. Land is 1 mile of good grade school, 1 mile from Rural Township High School and 1 mile church privileges. Any of these farms will make one of the best farm homes in Kansas both from a residental and business standpoint as they are located in one of the best farm communities and neighborhoods in Kansas. Oil test drilling 2 miles from land.

DO NOT FORGET DATE OF AUCTION. Land positively to be sold to the highest bidder.

LUNCH SERVED ON GROUND BY LADIES AID.

TERMS: 20% cash, day of sale, balance within thirty days. For further information refer to Clerk or Auctioneer.

HATTIE M. LOGUE, Administratrix, Bentley, Kan.
C. V. BASORE, Clerk, Bentley, Kan.
BOYD NEWCOMB, Auctioneer, Wichita, Kan.

ARKANSAS

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

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

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

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

N. W. ARK.—Bargains in fruit, stock and grain farms; good soil, water and climate.
Fredricks Realty Co., Springdale, Ark.

IMPROVED, $5 TO $12; stock, fruit, grain; 40 to 1,000; R. R. two large rivers; payments.
Hitchcock, Norfolk, Baxter Co., Arkansas.

FOSTER REAL ESTATE COMPANY, Gravette, Arkansas.

Leaders in farm and town property.

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

53 Acres for $1,200

WILL BE ON NEW HIGHWAY

53 acres, only 1¼ to railroad station, 40 acres under cultivation, all under good fence, 6-room house and outbuildings, family orchard, good well and spring. Price only $1,200. Send at once for copy of large farm bulletin with complete descriptions of farm bargains.
STUART LAND CO., DE QUEEN, ARK.

CALIFORNIA

300,000,000 ACRES of free land in U. S. "The New Homeseeker," a 100 page book describing millions of acres of vacant public homesteads, timber mines and grazing lands. Contains township plats and illustrations. Founded on historical facts. Does not mislead. Read official warnings, eliminates crooked land agents. Tells whereabouts of government land in Arizona, New Mexico, Nevada, California, Idaho, Oregon, Montana, Washington, Utah and Old Mexico. Describes water, soil and climatic conditions, all the principal U. S. land laws. A marvelous publication, just off the press. Mailed anywhere, $1.00. Address, **The Homeseeker, Dept. 104, 3rd Floor Grant Bldg., Los Angeles, Calif.**

COLORADO

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

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

FEW CHOICE FARMS AND RANCHES for sale where you deal with owner and save commission. Write or call at residence.
E. B. Furrow, Holyoke, Colo.

FOR SALE—Improved farms in eastern Colorado. Close to town and school. If interested write, or see,
J. Youngberg, Stoneham, Colorado.

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

SOUTHEASTERN COLORADO farms and ranches, any size, lowest prices, best terms, good crops, excellent climate. Send for free descriptive booklet and list.
The Gregg Realty Company, Lamar, Colo.

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

WASHINGTON COUNTY, eastern Colorado, crop producing lands, $40 to $80 per acre, none better, ideal climate, good water. Write us for particulars, or see us.
The Co-Operative Investment Co., Otis, Colo.

SOUTHEASTERN COLORADO farms and ranches in the rich, productive lands of Baca county, Colorado. Wheat 30 bushels to acre, corn 40 bushels to acre. Land $15 per acre up according to improvements.
F. J. Graves, Springfield, Colorado.

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

FARMERS ATTENTION—Do you own land or is your farm too small and hindering your operations? If so, write for information regarding fine farm land which I own in the Bijou Valley, 50 miles east of Denver and will sell in sections and half sections at bargain prices and give liberal terms. Write the owner,
John W. Baughman, Liberal, Kansas.

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

FOR SALE—160 acre irrigated farm in the San Luis Valley of Colorado. Has first class water right for irrigation and an artesian well of pure, soft water for domestic use. It has fair improvements and is fenced hog tight. All in cultivation, of which 130 acres is fine stand alfalfa. Is in consolidated school district. Price $130 per acre. Now rented for $2,000 cash, tenant will gladly take it for term of years at same rate. Send for literature regarding the San Luis Valley.
ELMER E. FOLEY, 1001 Schweiter Bldg, Wichita, Kan.

GET THE FACTS ABOUT COLORADO LANDS

Write today to the Colorado Board of Immigration for complete, authentic information on agricultural, dairying and live stock opportunities in various irrigated and non-irrigated districts of Colorado. We have no land to sell, but will help you find good land at a fair price. Our "1919 Year Book" contains detailed discussion of resources, crop production, financial conditions, etc., by counties. A few copies left at 75c each to cover printing and binding cost. Send cash or money order if you want one.

Room 68, State Capitol, Denver, Colo.

Best Lands

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

TAKE A HUNCH FROM US

AND get in on this wave of prosperity now coming to the Eastern Colorado Farmer.

Send for folder and lists.

Wolf Land Company
Yuma, Burlington, and Stratton, Colorado.

FLORIDA

FLORIDA COMBINATION bearing orange and grapefruit grove, $600. $10 cash, $10 month. I stand all expense for five years and guarantee ship you not less than 150 boxes fruit. Write for facts and photos.
Judd Q. Lloyd, 100 Magnolia Ave., Brooksville, Fla.

MISSISSIPPI

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

MISSOURI

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

ALL SIZED FARMS, fruit farms and timber land. **Noll, Mt. View, Missouri.**

MISSOURI

LISTEN! 160 acre valley farm, $50; 160 fruit farm, $5,000. **McGrath, Mtn. View, Mo.**

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

IMP. FARMS, ranches, timber lands. Exchanges. **Goff Realty Co., Willow Springs, Mo.**

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

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

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.**

FORTY ACRES, all in cultivation, four room house, good barn, spring, on state highway, $1,600. **Houston Realty Co., Houston, Mo.**

REAL BARGAINS in Mo. farms; write for illustrated booklet and list.
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ATTENTION FARMERS—Improved farms in southwest Missouri, $25 to $50 per acre. Write, **Frank M. Hamel, Marshfield, Mo.**

FREE—All about the Ozark country, map and list of cheap lands.
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IF YOU WANT a large or small prairie or timber farm, pure spring water, no crop failures, write **J. E. Loy, Flemington, Mo.**

3,700 ACRES, good timber, plenty water, $7.50 per acre. Farms of all sizes.
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FOR SALE—232 acre north Missouri farm, black land, lays good, good buildings, good water, close to town, Chariton county. Price right. **Box 72, Colony, Kansas.**

626 ACRES, 325 cultivated, $21 per acre. Five room house, barn, part rich bottom, well watered, south Missouri. This and many other farm bargains.
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80 ACRES, house, barn, good water. All fenced, most all good plow land orchard, good water, beautiful location. Price $3,000, $1,000 down.
Tom King, Weaubleau, Missouri.

NEW YORK

Crystal Spring Farm

216 acres. Ten acres timber, value over $5,000. Farm well fenced and in a high state of cultivation. Adapted to wheat growing and dairying. On state road, one mile from R. R. station, ¼ mile from school, ¾ mile from Borden's milk station. Between two villages, 6 and 4 miles distant. Elegant newly painted buildings, lighted by gas. 90 fruit trees, 30 head Holsteins, 4 horses, 10 H. P. gas engine, blower for silo filling, wood sawing outfit. All farm implements, corn harvester, reaper, etc. Tenant house. Running water at house and barn. I have lived on this farm and worked it for the last 40 years. $45,000—$20,000 cash, balance on mortgage 5%. Write for pictures of the place. No agents.
Philip E. Quick, Catatonk, N. Y.

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

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

203 ACRES, well improved, joins town, 3 sets improvements, will subdivide, $75 a.
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WRITE US for prices on good wheat, alfalfa and ranch land, 80 a. to 3,000 a. **E. M. Dempsey, 124½ West Randolph, Enid, Okla.**

$20 TO $60 PER ACRE. Fine wheat, oats, alfalfa, corn and cotton lands. Write for free illustrated folder.
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IMPROVED FARMS $50 TO $100
Raw land less. 35 inch rainfall belt of Southeastern Oklahoma. Government book free.
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140 ACRES, two miles R. R. town 1,500, in this county. All bottom and second bottom land. 120 acres cult., balance timber. Fair improvements. $45 per acre. Terms.
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GOOD GRAIN, COTTON AND STOCK FARMS
$50 acre up. Eastern Oklahoma. New country, rapid development. Ask us.
Malone & Ryan, Allen, Oklahoma.

160 ACRES, 6 miles out, ½ from school, R. F. D. 100 acres in cult., splendid soil, lays good, 60 acres best of pasture, fenced hog tight with some timber along spring branch. 6 room frame house, large barn with loft, granary, driveway, arched cave. Basement under house. 50 acres wheat. A splendid farm and home with pure soft water. Possession 30 days. Price $8,500 with 40 years time $4,000. Free list and map.
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Get This

100% profit in 5 years. The cash value of Oklahoma's five leading crops is $553,765,000 on 14,000,000 acres only. Land values average $50 per acre. 1,000 farms. Priced from $20 to $150 per acre. Oklahoma, Texas and Arkansas.

Crops and increase of land sure. Buy now.

Bonded Securities Company
702 Oil Exchange Building, Oklahoma City, Oklahoma.

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

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WANT TO HEAR from party having farm for sale. Give particulars and lowest price.
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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.

MISCELLANEOUS

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

BEST BET YET—$50,000 telephone exchange (700 phones), $37,500. No competition.
Prairie Realty Co., Bremen, Kansas.

SELL YOUR PROPERTY quickly for cash, no matter where located, particulars free.
Real Estate Salesman Co., 515 Brownell, Lincoln, Nebraska.

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

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.**

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

344-Acre Midwest Farm, $5,000; on State Road,

Near R. R. center, motor bus passes farm; well-drained productive tillage; stream-watered pasture; wood; timber; fruit; 10-room house, steam-heat; large barns, etc. To settle quickly, low price $5,000 is made, easy terms. Details page 73 Strout's Catalog Farm Bargains 23 States; copy free.
E. A. STROUT FARM AGENCY, 831E New York Life Bldg., Kansas City, Mo.

Farm AND Ranch Loans

Kansas and Oklahoma

Lowest Current Rate
Quick Service. Liberal Option.
Interest Annual or Semi-Annual.
THE PIONEER MORTGAGE CO., TOPEKA, KANSAS.

Why Poultry Farms Fail

BY H. L. KEMPSTER

The other day one of the extension poultrymen visited a farm on which poultry is the main activity and on which the term "failure" is written in glaring reality. Briefly speaking the farm of 20 acres has an investment of $10,000. At the present time the owner has about 250 hens and has received no eggs for a month. To say that he is discouraged is putting it mildly. He is, so to speak "down and out." What he wishes to do is to get out from under and is willing to sell for about one-half of the original investment. The poultry industry has gotten another black eye all because of lack of proper vision of what is essential in poultry keeping. This man was a traveling salesman. He had no idea of the problems of poultry keeping but imagined as do many that it was an easy road to wealth. Using no discretion he plunged and lavishly spent his savings. As an example he spent $250 for five birds for his foundation flock. His poultry houses are elaborate; he has unlimited fencing and concrete construction galore. As an illustration of his pathetic lack of knowledge of the essentials of poultry keeping at the time of the visit, all that he was feeding his hens was kafir and bran. He little realized that either milk or meat scrap or tankage is absolutely necessary if one expects hens to be productive.

Those who make a success of poultry keeping are content with less elaborate equipment. They are content to start in the business in a modest way and then increase as experience dictates. In this way the overhead expense is reduced to a minimum and the poultry man learns the business as the business increases. While this plan does not appeal to the plunger, if more practiced that principle there would be fewer hard luck stories to tell. Poultry keeping is making good returns to the conservative intelligent poultryman and those with speculative turn of mind should remember that to plunge is hazardous.

HEREFORD CATTLE

Blue Ribbon Stock Farm
HEREFORDS
200 cows, heifers and bulls—200. Chief herd sire, Don Balboa 14th 596021 by Don Carlos, a bull with over 40 Gudgell & Simpson crosses. Mated with 60 two-year-old heifers sired by Sir Dare 417529 by Paragon 12th. We have what you want and the prices are in line.
Lee Bros., Harveyville, Kan.
Wabaunsee County

Southard's Monarch Herefords
Write for my new mail order plan for selling Monarch Herefords.
You get the best, express prepaid, you to inspect animals before you pay.
Also ask for my big spring sale catalog; 200 head.
For 30 days I will send all who write about my new selling plan a picture of the mighty Monarch.
J. O. SOUTHARD, COMISKEY, KAN.

PLEASANT VIEW STOCK FARM
Herefords, Percherons, Durocs
For sale. Five bulls from 10 to 12 months old, by Domineer by Domino. A nice string bull calves and six bred cows. A nice young stallion. Address,
Mora E. Gideon, Emmett, Kan.
(Pottawatomie county)

Anxiety and Fairfax HEREFORDS
Females bred to sons of Bright Stanway and Perfection Fairfax. Herd header bulls ready for service. Open heifers. Write today to
J. R. GOODMAN, WHITE CITY, KAN.

HEREFORD COW BARGAINS
Twenty 5-year-old bred cows at $200 per head. A few young bulls at $85 to $125 per head. All registered. Prices for immediate sale.
Fred O. Peterson, R. 5, Lawrence, Kan.

Discriminating Hereford Buyers We Offer NOW
12 coming yearling bulls, Columbus, Anxiety strains. Breedy character and proper conformation. Unpampered but in better than pasture condition. 7 registered, 5 unregistered, but equally well bred. All high class farm bulls.
If you want one or more of the 12 yearling bulls write now to **W. C. Cummings, Hesston, Kan.**

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Purebred Livestock Sales a Specialty.

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President of largest auction school in world. Special four weeks term opens soon. Auctioneers are making big money everywhere. Write today for 67-page annual. It's free. Address
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Know characteristics and score of breeds, and when to sell. Can compile your catalogs. Reference Iowa and Kansas banks. Write me about stock or land.



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Experienced auctioneer. Pedigreed livestock and big sales of all kinds.

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Purebred livestock auctioneer. Reference furnished on request. **GOODLAND, KAN.**

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OFFICE: 320 DENHAM BUILDING, DENVER, COLO.

Homer Rule, Ottawa, Kan. Specializing in purebred sales. Secure your date early. Address as above.

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

Workshop for Every Farm

A Repair Made in Time Will Save Nine

BY A. C. HARTENBOWER

DURING the disagreeable days of this past month I finished the installing of the tools in my farm shop. I am glad to know that I can now do many of the simple repair jobs that I have had heretofore to take to town, often at considerable expense in delay in addition to the cost of gasoline and time. During the past two weeks only I did four jobs that I would have had to send to town had I not my own repair shop.

At present prices, as a general estimate, around $200 will put up a shop building 12 by 18 feet in size. Some farmers will not wish so large a shop but from personal observation I know that too many of the few farm shops now on farms are too small. Just a few days ago, I had ocasion to help a neighbor in his shop. He has excellent equipment but it was difficult to find many of his carpenter tools because he does not have room sufficient to properly arrange them. Furthermore, his blacksmith tools were almost all in a pile and it was evident that any repair upon machinery could only be made after taking an implement down and working on the pieces. The size noted above, 12 by 18 feet, with a height of at least 8 feet at the eaves makes a very convenient size. In such a shop an entire farm machine, including wagons, can be worked on in the shop and not outside of it.

On most any farm there is to be found some building that is giving but little return on the money invested in it. A part of such a building or all of it, depending upon the size, can be made into a farm shop. But, in any case, I believe that almost every farmer would find it a saving to have a shop, even if obliged to construct a new building for that purpose.

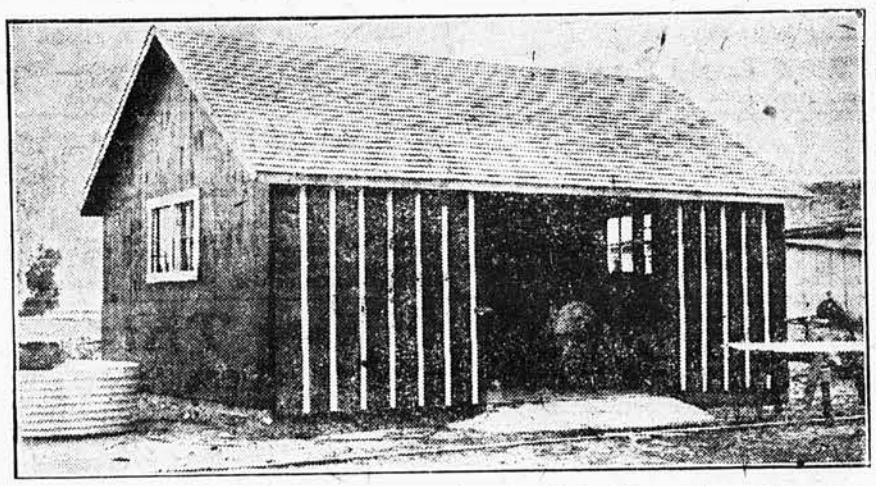
The following table, taken from a recent publication of the Kansas State Agricultural college, gives a list of the material needed in building a 12 by 18 foot shop: Windows, 6 sash 2 by 3, 6 frames 2 by 3. Doors: 1 small door 2 by 6, hand made, 1 large door 7 by 9, hand made. Hardware: 1 door latch, 1 pair strap hinges, 2 hooks and staples, 1 track and door hangers, 5 pounds nails, 20d, 27 pounds nails, 10d, 10 pounds nails, 6d, 15 pounds nails, 4d, 6 rods ½ inch by 18 inches, 6 rods ½ inch by 24 inches, threaded both ends, nuts and washers, 3 rods ¾ inch by 5 inches, threaded both ends, nuts and washers. Lumber and building material, 3,000 shingles, 400 bd. ft. roof boards, 600 bd. ft. match siding, 4 by 6, 18 ft., 9 2 by 6, 12 ft., 6 2 by 6, 14 ft., 6 2 by 6, 10 ft., 1 2 by 4, 14 ft., 1 2 by 4, 12 ft., 8 2 by 4, 10 ft., 1 2 by 4, 8 ft.

Footings: 20 cu. ft. concrete 1 by 2½ by 5, 4 sacks cement. 9 cu. ft. sand, ⅓ yd., 18 cu. ft. stone, ⅔ yd.

I am using a plain dirt floor, altho eventually I shall put in a concrete floor. A further very necessary piece of equipment, in my opinion, is a cheap stove. I find that there are cold, disagreeable days when we could do no outside work but we can work in the shop if we keep a fire going. Without the stove, I would find it necessary to use the shop only on warm days.

Select a good heavy anvil, not a light ornamental one that you will almost be afraid to hit with a heavy blacksmith hammer.

In selecting a forge, price should be a minor consideration. Get a good forge, one which you can use for welding sickles and such parts. Many cheap, farmers' forges are advertised, but get a good one. Of course, I do



A Good Work Shop Where Repairs Can be Made Promptly will Save Many Dollars of Useless Expense on Any Good Farm.

To Aid Western Kansas

EVERY high type of experimental work is being done by the Fort Hays Experiment station. Under the leadership of Charles R. Weeks, the superintendent, this station is doing much in a study of the better farming methods adapted to that section. Especially have the men at this station had the vision of a sane and substantial farming system for Western Kansas, founded on livestock and the growing of sure feed crops. The livestock experimental work at Hays has been especially high class; the results are presented from year to year at the annual "Roundups" held in the spring. Some excellent crops work has been done with the sorghums; Pink kafir was developed on this station.

Naturally the staff of the Hays station has been helped greatly by the connection this institution has with the Kansas State Agricultural college. The specialists at Manhattan have been available in solving any abnormal problems which have been encountered. It is a very happy thing that in the past, the law makers of Kansas arranged for the work of the branch stations to be done under the leadership of the college, for this naturally allows the work to be carried on with a big vision of the future, and avoids duplication.

The Hays station has had a fortunate location for its work; an ample amount of land is available. Much help has been obtained from the national government; co-operation has done much to increase the efficiency of the station. Every effort is being made to get the results to the people; many days there are several dozen visitors at the station, and the number of letters answered every day is even larger. If you have any special problem on which you would like help you can get full information in regard to the results at Hays if you will write to Charles R. Weeks, superintendent, Fort Hays Experiment station, Hays. The investigational work has covered every phase of farming adapted to Western Kansas.

HORSES AND JACK STOCK.

Having rented our farm we will sell our Entire Herd Of
Registered Percherons
at public sale, at the farm, 3 miles east of
Durham, Kansas, February 17
3 Black Stallions—1, 2 and 3-years-old; 16 Mares—from 1 to 7-years-old, 1 gray, 2 sorrels and 13 blacks. Also 6 grade horses, some cattle, and all farm implements. Everything goes. No reserve.
"STEWARTS" Tampa, Kansas

LAST CALL DISPERSAL SALE
4 Percheron Stallions
2 Belgian Stallions
2 Belgian Mares
1 Percheron Mare
6 15-hand or better black jacks.
They will sell at
Lyons, Kansas, Feb. 12
H. R. COWDERY, LYONS, KANSAS

Purchase Percherons
TIPPED The horse business is tipping the other way from the direction it has been leaning during the last 5 years. A typical example of what is happening at farm sales follows: Near Bowen, Ill., a 1700 lb. grade Percheron mare sold at public auction for $180 a little more than a month ago, and less than 3 weeks later this same mare brought $257 in a public sale; less than five miles distant from where she was sold before. Commission men report that draft horses cost $50 more per head in the country than they did a year ago.



Booklets will be mailed free if you give acreage farmed and number of horses kept. Address,
Percheron Society of America
WAYNE DINSMORE, Secretary,
Exchange Ave., Union Stock Yards, Chicago.

EWING BROS.' PERCHERONS AND SHORTHORNS
Some extra good stallions and mares. Meknes 106640 (106084) in service. Village Knight 1398231 herd header. Stock for sale.
EWING BROS.
1438 12th St., Great Bend, Kansas
R. 1, Pawnee Rock, Kansas

Mammoth Jacks, Percheron Stallions and Mares
A lot of big boned jacks, 3 to 5 years old, weight up to 1200 pounds, 15 to 16 hands. Also a fine lot of Percheron stallions, blacks and greys, weight up to 2400 pounds. A lot of large mares, 3 and 4 year olds, showing colts. Will sell one or a carload. All stock guaranteed.
Al. E. Smith, R. 1, Lawrence, Kansas.
40 miles west of Kansas City.



Jacks and Jennets
15 large mammoth black jacks for sale, ages from 2 to 6 years; large, heavy boned. Special prices for early sales. Twenty good jennets for sale. Come and see me.
Phil Walker, Moline, Elk County, Kansas

For Sale Registered Percheron Mares
and fillies, 2 coming 4 years old, 2 coming 3 years old; well broke; sound; all black. Also a few choice stallions coming 2-year-olds and yearlings; all registered; blacks; sound; size and quality. Large black jack, 8 years old, 1050 pounds, prompt and sure. Will buy an extra good herd horse.
A. J. WEMPE, FRANKFORT, KANSAS.

not mean that any farmer should have as elaborate a forge as most blacksmiths have. A vise serves in so many cases that the best is none too strong to stand up under the strain. Cheap, inferior vises should not be included in any list of equipment.

Many shop owners insist that the post drill and screw plate are tools that pay for themselves 500 times within five years. So they should be well constructed. Only the most common sizes of threads will be cut on the farm and it would be useless to have other dies. At least two kinds of tongs are needed, namely: a flat lipped, and a curved lipped.

Other tools which are considered necessary are: a ball pein hammer, say, three pounds; a hack saw; a hardy; a cold cutter; and a hot cutter. Three others that are useful but not absolutely necessary in most farm shops are a ½ inch top fuller, a ½ inch bottom fuller, and a flatter.

Carpenter Tools

Most farmers have a few tools for carpenter work. Yet how many of these tools are scattered over the farm and in different buildings, and how few of them are cared for. It is not uncommon at all to see saws that are covered with rust and bits and wood chisels that could not be made to really serve the purpose for which they were made. It is a job even to start to use such tools.

Here are the tools which are most commonly used on the farm: bench screw, wood mallet, a cross-cut and a rip saw, a compass saw, a square, a screw driver, a tape line, a pair of dividers, a whetstone, a set of brace and bits, a claw hammer, a good hatchet, a jack plane, a level, and wood chisels, say three sizes, namely, ½ inch, ¾ inch, and 1 inch.

In purchasing carpenter tools quality should govern if the farmer does not permit his children and his neighbors to use them. Of course, in an especially built farm shop with a padlock on it much of the annoyance coming from dulled and otherwise damaged tools is avoided.

Other Tools Needed in the Shop

It is very probable that the farmer will wish to include in his equipment, simple tools, such as an awl, a rivet set, and a rivet punch for doing repair work on his harness. I know that harness bills, unless the easier repair work is done at home, amount to many dollars on the larger farms in the course of a year. It is not desirable, I feel, for the farmer to attempt the more difficult repair jobs. That is work for the harness maker and it will generally prove cheaper in the end to have the job well done rather than half done by the amateur. A soldering outfit, including a blow torch, soldering iron, and the soldering material will be found useful in most farm shops. I have fixed many buckets, for example, that I probably would have junked rather than taken them to town for being repaired.

A good assortment of wrenches, including a monkey wrench, a set of S wrenches and two pipe wrenches, will be, of course, a necessity. Other generally necessary tools are a pair of tinner's snips, three kinds of files, namely, flat, taper, and round, a good grindstone, a wagon and buggy jack, a pinch bar, a good pair of pliers, say, 8 inch, a saw set, and a rasp. A set of pipe cutters and of pipe stocks and dies may be necessary on the larger farms altho many farmers will be able to get along without them at least in the beginning.

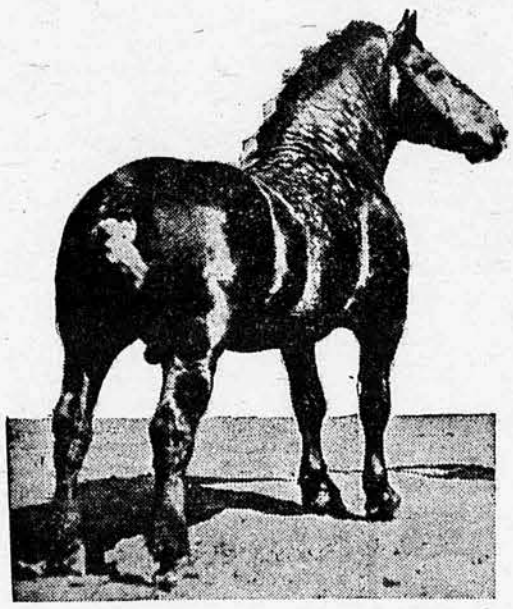
Care of Tools

It is almost useless to purchase tools, especially good ones, and not give them good care. This care applies to keeping them clean, oiled and sharp. Have at hand a piece of burlap, or some similar cloth, saturated with good oil and rub this over the surfaces of tools immediately after using them.

"THE FARM TRADE RESPONDS"

I want you to change my ad to read $15.00 to $25.00 instead of $15.00 to $20.00 and run two weeks and then stop till I send new ad.

I think you are right what you said in your letter of December 2 regarding the farm trade responding to advertising in the Kansas Farmer and Mail and Breeze as I am sure getting results. You said you would be on the lookout for an appropriate letterhead for me. Tell me what you think would be best.—E. J. Bliss, Breeder of Duroc Jerseys, Bloomington, Kansas.



Nebraska Pure Bred Horse Breeders' Ass'n

will hold their 6th annual sale at

Grand Island, Neb., Feb. 19-20

125 Stallions and Mares

consigned by the best breeders in the state.

Percherons, Shires, Belgians

Annual meeting will be held at Koehler Hotel, February 18, 7:30 P. M. Annual banquet February 19, 6:30 P. M. **This Is Your Sale. Help Us Make It A Success.** For catalogs address

C. F. Way, Lincoln, Nebraska

Auctioneers: Col. P. McGuire and assistants.

PERCHERONS

Stallions and mares for sale by members of the Illinois Percheron Breeders' Association. For up-to-date sales list address the secretary,

J. L. EDMONDS, URBANA, ILLINOIS

For Sale, Reg. Percheron Stallion

Perfection 122699, coming 4 years old. Strong in the blood of Brilliant with several noted sires in pedigree. A good individual and gentle. Broke to work.

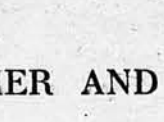
C. Walter Sander, R. 2, Stockton, Kansas

JACK AND PERCHERON

For sale or trade. Might exchange for young mules. Reg. Mo. Jack, black, white points, heavy bone, extra good individual. Purebred Percheron stallion, coal black, 8 years old, 1850 lbs., an extra good one.

W. S. HOAG, IONIA, KANSAS

Percherons—Belgians—Shires



State Fair prize-winning stallions and registered mares bred to Champion stallion for sale. Also extra heavy black Mammoth Jacks.

Fred Chandler, Rt. 7, Chariton, Ia.

Coburn Farm Percherons

Percheron Mares and Stallions—all blacks. Mares, yearlings up to mature ages. Stallions, yearlings, two-year-olds and one extra 6-year-old, a ton horse. Two-year-olds weighing 1,800.

Mahlon Groenmiller, Pomona, Kansas, (Franklin Co.)

TO CLOSE PARTNERSHIP

Will sell our Percheron stallion and mammoth jack. Both registered, large, young. Write for particulars. **J. W. Yeoman, Barclay, Kan.**

Pleasant View Stock Farm

2 good big jacks that get good mules and my French Draft stallion. Investigate if you want profitable jacks and stallion. **M. R. Peterson, Troy, Kan., Doniphan Co.**

Five Registered Percheron Stallions

for sale. 1 coming 5 years; 2 coming 4 years; 2 weanlings. All blacks. **F. J. Bruns, Nortonville, Kan.**

Purebred Shire Stallion For Sale

7 years old. **W. H. Poppelreiter, Bushton, Kan.**

DARK GREY PERCHERON STALLION

Coming 3, will weigh over a ton at maturity, from imported sire and dam, well broke to work, price $100.

J. T. Mowrer, Lost Springs, Kansas

3 REGISTERED PERCHERON STALLIONS

at draft gelding prices.

C. E. WHITTLESEY, Mound Valley, Kansas

RED POLLED CATTLE.

FORT LARNED RANCH

200 HEAD OF REGISTERED RED POLL CATTLE

A number of choice one and two-year-old bulls and heifers from one to three years old.

E. E. FRIZELL & SONS, FRIZELL, KAN.

Milk—Butter—Beef RED POLLED

We can now furnish a few young bulls from large, thick-fleshed cows, yielding 9,000 to 13,000 pounds of milk per year. One of our bulls will increase the production of your herd.

20th Century Stock Farm, Quinter, Kansas

COBURN FARM RED POLLS

Red Poll Cattle—7 Bulls, 10 to 15 months old, also weaned bull calves and a few heifers, calves up to 2 years old. 90 head in herd.

Mahlon Groenmiller, Pomona, Kansas, (Franklin Co.)

Red Polled Cattle

U. S. accredited herd. Bulls from 8 to 15 months old; big, lusty fellows that will make ton sires. Best of quality, type and breeding.

W. F. SCHWAB, FULTON, MISSOURI

Red Polls 1 coming 3-year-old bull and 2 bull calves. Well bred good individuals.

C. Walter Sander, R. 2, Box 9, Stockton, Kan.

RED POLLS. Choice young bulls and heifers. Write for prices and descriptions.

Chas. Morrison & Son, Phillipsburg, Kansas.

FOSTER'S RED POLLED CATTLE

Choice young bulls, priced reasonable.

C. E. Foster, R. 4, Eldorado, Kansas

Closing Out Sale

Tuesday, February 17th

At Our Barn in

Circleville, Jackson Co., Kansas



Registered Jacks, Jennets and Registered Percheron Horses and Mares.

NINE REGISTERED JACKS

Including Mammoth Glenn No. 4455, our herd Jack, 15¾ hands Standard, 35 in. ears, 10 in. bone. He topped the big sales in 1915 when we bought him. The other Jacks are all his colts from 14½ to 15¾ hands Standard.

EIGHT JENNETS

The big rugged kind. All are bred to **Mammoth Glenn. Sarbord,** an aged Imported Stallion. Percheron Romy, a two year old Percheron Stud, a good one by Sarbord. Ruth and Kate, Percheron brood mares, registered and their mare colts, May and June.

This stock will go to the highest bidder regardless of price. Will also sell our breeding barn and lots. Barn 66 by 34 ft. Has 10 box stalls, granary, and room for 100 tons of hay. My son has moved on his farm, and I am getting too old to look after them. Catalogs ready to mail. Write for yours now. Address

M. H. Roller & Son, Circleville, Jackson Co., Kansas

Auctioneer, C. Pool. J. W. Johnson, Fieldman, Capper Farm Press.

NOTE—Parties coming from the northwest via central branch should come to Whiting and change to Rock Island for Holton. Autos meet everyone there. Those coming the evening before stay all night at Holton.

JACK, JENNET, PERCHERON DISPERSION



Determined to discontinue the breeding business I will sell at PUBLIC AUCTION, ATTICA, HARPER CO., KANSAS, FEBRUARY 23, at my farm my entire breeding herd. 1 registered Percheron stallion; 10 jennets and 12 jacks ranging from 1 to 6 years old. At the head of this herd is Jumbo King, a registered mammoth jack, 6 years old, 16 hands, 1,200 pounds, broke to either mares or jennets. To those wishing it 6 months time will be given. Strangers bring bank references. Out of town buyers will be met at 11:59 a. m. train. Cols. Snyder and Bowman, auctioneers. **D. E. Gill, owner, Attica, Kansas.**

Bargains In DRAFT STALLIONS

Our horse barns have been torn down to make way for city residences. We have a few high-class Belgian, Percheron and Shire stallions for sale right. We offer special inducements to dealers who can handle them all. Now is the time to push the draft stallion business. Horses were never so scarce.

Woods Bros. Co., Lincoln, Neb.

A. P. Coon, Manager

20 BIG, REGISTERED BLACK JACKS



Ages from 2 to 8 years. Height from 15 to 16 hands. Can show more bone and weight than anybody. In October we shipped a carload of the finest big registered jacks we could find in Tennessee to our farms. They are acclimated now and ready to make good.

We also have several 15 and 16-hand that have made stands here on our farms. We can show colts or mares in foal. Must sell this stock this season. We can ship on the Santa Fe, Missouri Pacific or Frisco. Address,

J. P. Malone, Lyons, Kan., (new location) **or M. H. Malone, Chase, Kan.**

Will meet trains at Lyons or Chase.

Scotch Shorthorns

In a Public Sale of Good Ones

Ottawa, Kan., February 20, 1920

You will want the catalog showing the choice breeding of Amos Cruickshank and other great Scotch breeders, close to the top of the pedigrees. Do not fail to get it. A dozen of the most desirable and time tested families that have given Scotch cattle their prestige will be found in this offering of

50 HEAD—40 Females; 10 Bulls

28 of this offering are Scotch, and in the remaining 22 there is a lot of equally excellent breeding.

As a sample attraction and specimen of the Scotch breeding, note this lot: Rosewood Emma, white, a Cruickshank Secret with white heifer calf at foot by Missie's Last (one of the deepest ribbed and meatiest bulls living) and in calf again to Lavender Stamp. The bulls and breeders in this pedigree are known as among the best.

As a sample of the Scotch topped cattle note this: Mary Lee, a young Mary of Warfield foundation carrying the best breeding of the times. Above the Warfields come the names of such Scotch and American breeders as Duthie, Hanna and Rankin.

You will want this catalog and can have it for the asking.

Beside the great line up of heifers and cows (7 of the Scotch cows have calves at foot) there is some herd bull material which cannot be described in the space available.

These cattle are tuberculin tested and will be sold under a strict guarantee by the owners, Kelly & Mitchell. Sale will be at Ottawa about 50 miles from Kansas City on Santa Fe and Missouri Pacific. Be sure to send for catalog, mentioning this paper, and address,

Lyman Mitchell
4210 Holmes St.,
Kansas City, Missouri

Frank Kelly
(Johnson County)
Gardner, Kansas

Jefferson County Shorthorn Breeders

A carefully selected offering
40—Thrifty Shorthorns—40

Valley Falls, Kan., Tuesday, Feb. 24

A carefully selected offering of useful cattle in fine condition, drafted from the best herds in the county. 20 cows, 15 heifers, five bulls.

20 thick fleshed cows, a number with calves at foot, others heavy springers. 15 choice heifers, several safe in calf. Five rugged useful bulls, from eight to 15 months old, decidedly the best lot ever offered in the county.

These cattle represent such sires as Dale Cumberland, Gwendolines Lad, Sultan Supreme, Silk Goods.

The catalog tells the whole story. For one address,

E. S. Mitchell, Sale Director, Valley Falls, Kan.

From Everywhere

The 250 show Shorthorns which will be sold in the Third National Shorthorn Congress Sale at Chicago, Feb. 17, 18, 19, are representative of the breed's best productions in all parts of the United States. Every animal competing for the $5,000 prize awards will be sold at auction.

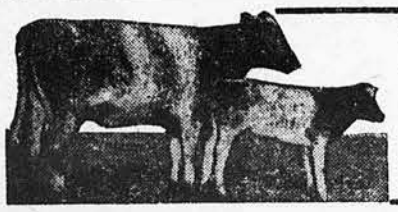


It is the great get-together event for Shorthorn folks and all others who are interested in bovine improvement.

You and your neighbors are cordially invited to attend and take advantage of the occasion to extend your acquaintanceship among progressive folks from all parts of this country and abroad.

The meetings and banquets will be addressed by prominent Shorthorn authorities.

American Shorthorn Breeders' Association
13 Dexter Park Ave., Chicago, Ill.



Polled Shorthorns
175 in herd. Young bulls for sale.
J. C. Banbury & Sons,
Phone 2803 Plevna, Kan.

A Big Movement With Hay

BY SANDERS SOSLAND

Kansas City and other Western markets are receiving more hay, particularly alfalfa, than the handling capacity of their tracks actually permits. The total hay arrivals in Kansas City, the largest terminal forage market in the United States, have aggregated an average of more than 300 cars a day in recent weeks.

Much Alfalfa

Because of the comparative scarcity of the better grades, prices are holding up firmly. Dairymen of surrounding territory, including Kansas points, and of the East, North and Southeast, are good buyers of the leafy and green alfalfa, and cattle feeders generally are calling for such hay. Choice alfalfa, only an insignificant amount of which is being received, is quoted around $37 to $38 a ton in Kansas City, and the No. 1 grade is bringing $35 to $36 a ton. The amount of alfalfa of good quality yet remaining in the country is not large, and with the demand holding up, some dealers manifest doubt as to the probability of a recession. However, the cheaper grades display extreme weakness, which is wielding pressure on choice and No. 1 alfalfa. Feeders could possibly profit by purchasing standard and No. 2 alfalfa.

Cheaper Grades are Weak

The prairie hay situation is somewhat similar to that of alfalfa, the cheaper grades being extremely weak and choice and No. 1 hay firm. The wild hay is selling at an extreme range of $13 to $23. The country as a rule is bearish on prairie, such a view being based on enormous stocks yet remaining in the interior, and there is eagerness to market supplies. The car situation, however, remains acute, and is holding back shipments. Stock yards have bought prairie freely, and mild winter weather has lessened the requirements of feeders of cattle. Timothy displays probably the greatest strength, the best grades selling at a top of $29 a ton. There is a liberal movement of timothy from surrounding territory and from Iowa, with the Southeast the principal outlet. Unfavorable weather in the Central states, which has checked the movement from that important producing territory, has been a helpful influence on the strength of the market.

The recovery in wheat prices has not been sufficient to bring out large quantities of the bread grain, and producers who still are holding stocks should not be concerned over the course of the market. Wheat is in a bullish position, tho recent fluctuations in values have been very erratic with signs of extreme weakness. But this is merely a temporary situation, and it is probable that before March 1 values will again have soared to the $3-level on the Kansas City market. In the last week some of the recent sharp downturns were recovered, hard winter and dark hard wheat showing a rise of 7 to 13 cents a bushel, with red winter up 15 to 20 cents. For some months we have predicted in these columns that red wheat would rise to at least a parity with hard winter offerings. The prediction was first made when a difference of as much as 50 cents a bushel prevailed between the two varieties. The parity already has been reached, and in instances the red winter offerings are commanding a slight premium.

Fluctuations in corn, both carlots and futures, are narrow, with the trend of values for the present inclined upward. Carlots last week were as much as 4 cents a bushel higher, with a top of $1.55 on yellow corn. But the general market was unchanged to 2 cents higher. Demand was irregular, orders for prompt shipment being generally light.

An Advance in Oats

Oats advanced 1 to 4½ cents a bushel, feeding grades reaching a top of 93 cents on the white variety, and rapidly approaching the $1-mark forecasted in these columns when the market was around 70 cents in Kansas City. Carlots met with a good demand from the South and in surrounding territory, while offerings continue of a restricted volume. There was independent strength in the speculative market, but the May option gained only fractionally, having been affected by resales of oats at the seaboard and low exchange rates.

SHORTHORN CATTLE.

Salt Creek Valley Shorthorn Cattle

Pioneer Republic County Herd
Established in 1878

For Sale: A splendid two year old Scotch bull, solid red, wt. at maturity 2500 lbs. Also a fine Scotch youngster and 10 Scotch tops. Ages from six to 16 months.

E. A. Cory & Sons, Talmo, Kan.

Amcoats Shorthorns

Scotch and Scotch Tops. Some choice females to sell. Bulls ready for service: Six, two pure Scotch, four Scotch topped.

S. B. Amcoats, Clay Center, Kan.
Visitors met at Rock Island or Union Pacific Depots.

SCOTCH and SCOTCH TOPS

Five yearling bulls, three pure Scotch, two Scotch topped.
Six spring bull calves, pure Scotch and Scotch topped.
Reds, whites, roans. Write for full descriptions and prices.
E. P. FLANAGAN, CHAPMAN, KANSAS.
Dickinson County

Bulls Bulls Bulls

8 two-year-old bulls, by Secret's Sultan and Master Butterfly 5th. 12 yearling bulls. Reds and roans.
Can ship over Mo. P., U. P., Rock Island.
W. F. BLEAM & SONS, Bloomington, Kan.

PEARL SHORTHORNS

Bulls, Scotch and Scotch topped, six to 18 months, for sale. Reds and roans. Can ship over Rock Island, Santa Fe, Missouri Pacific and Union Pacific.
C. W. TAYLOR, ABILENE, KANSAS
DICKINSON COUNTY.

ELMHURST SHORTHORNS

I have been breeding registered Shorthorns for 15 years using the blood of such bulls as Gallant Knight, Hampton's Best, Lord Mayor, Lavender Viscount and Avondale. Several good young bulls for sale. Also 10 to 15 very desirable females. An excellent chance for a foundation herd.
W. J. SAYRE, CEDAR POINT, KANSAS

FOR SHORTHORN BULLS

All ages. Address
HUNT BROS., BLUE RAPIDS, KAN.

Vail & Scott's Shorthorns

Scotch and Scotch-tops for sale. Includes our herd bull bred by Owens Bros., Homestead, Iowa; 2 yearling and 4 10-month-old bulls—good rugged fellows.
VAIL & SCOTT, POMONA, KANSAS

Shorthorn Cattle

For Sale—Five young Scotch bulls and ten head of females, bred or calves at foot.
H. H. HOLMES, R. F. D. 28, Topeka, Kan.

CEDAR HEIGHTS SHORTHORNS

Five bulls for sale, pure Scotch, splendid individuals. Ages 12 to 20 months. Farm joins Topeka on the west. HARRY T. FORBES, R. 8, Topeka, Kan.

New Buttergask Shorthorns

For sale—Bulls, Scotch and Scotch topped, ready for service. Also bred cows.
MEALL BROS., CAWKER CITY, KANSAS
Mitchell County

FOR SALE, 4 SCOTCH and SCOTCH-TOPPED SHORTHORN BULLS

from 12 to 18 months of age, red and roan. Also some Scotch bred females with calves by side. Come and see them. H. C. GRANER, Lancaster, Kansas.

Scotch and Scotch Topped

bulls. Serviceable ages, Reds, roans and white. Some real herd bull material. Visitors met at U. P. or Rock Island trains.
Jacob Nelson, Broughton, Kan. (Clay Co.)

PLEASANT VIEW STOCK FARM SHORTHORNS

A pure Scotch bull, 12 mo. old, by Orange Cumberland. Dark red. Also a few Scotch topped cows and heifers. M. R. Peterson, Troy, Kan., Doniphan Co.

Saline Valley Shorthorns For Sale

Registered bulls, all reds, 6 to 20 months old. For descriptions and prices write O. O. Runyan, Ogallah, Kan.

GROSNICK FARM SHORTHORNS

Good husky bull at a low price. Herd headed by Color Bearer, grandson of Avondale. O. E. R. Schulz, Ellsworth, Kansas.

POLLED SHORTHORNS.

10 Polled SHORTHORN Bulls

Big husky reds and roans 12 to 20 mos. old. Priced to sell. Can spare a few females.
C. M. HOWARD, HAMMOND, KANSAS.

SHORTHORN CATTLE.

Park Place Shorthorns



SHORTHORN BULLS, herd header prospects and rugged young fellows for the farmer. SHORTHORN FEMALES, foundation stock for the breeder and others suited to the farmer's needs. If you want cows, heifers or bulls, one to a carload, we can please you. Every animal guaranteed a breeder. Health certificates furnished. Write me when you will call.

Park E. Salter, Wichita, Kansas
Fourth National Bank Bldg.

SHORTHORN Bulls for Sale

4—Scotch Bulls—4

Some herd bull material here. A few good Scotch topped bulls. All good individuals. Bred right and priced right.

C. H. White, Burlington, Kansas.

SHORTHORN AUCTION

Sale at Grandview Stock Farm, one mile east and three and a half miles north of

Beverly, Kansas
Wednesday, February 11, 1920
(Lincoln County)
(Lincoln Branch U. P.)

Included is **Valiant's Heir**, six years old. 14 young bulls, 11 months to two years old. Reds and roans and sired by Valiant's Heir and the great white bull, **Silver King.** Low blocky fellows. Also nine cows, some with calves at foot, others to calve soon. **Everything registered.** Will meet morning train at Beverly. Write for information.

E. M. Phillips & Sons, Beverly, Kan.

Shorthorn Dispersion

Private Sale.

Have 1 herd bull, 16 cows and 12 young bulls at private sale. Herd bull Brilliant Type by Cumberland Type; a 2-year-old red bull. One Scotch cow with bull calf 3 months old at foot. 15 Scotch topped cows, 12 will have calves in February, March and April. The young bulls are from 6 to 12 months old. Write for list giving age and breeding. I will be pleased to show you these cattle. Parties will be met at train when notified.

Warren Watts, Clay Center, Ks.

Genuine Herd Bulls by Master of the Dales and out of Collynie Bred Cows

Master of the Dales bulls are proving themselves splendid breeding bulls and we can show you a few real bulls of first class herd heading character.

They are a practical, husky and well grown lot that will appeal to breeders wanting bulls of real merit.

H. M. Hill, La Fontaine, Kan.

SHORTHORN HERD FOR SALE

I must reduce my herd and will sell worth the money: 25 cows and heifers, 30 calves, 6 one and two-year old bulls, 1 Scotch herd bull. Special price on entire herd.

FRANK H. YEAGER, BAZAAR, KAN.

Milking Shorthorns

(Of the Best Bates Breeding)

We have bred them exclusively for 20 years and find that if you want beef and milk under the same hide you certainly can get it from the Bates bred Shorthorn. Bulls for sale. Write for descriptive list.

O. M. Healy & Son, Route 1, Muscatine, Ia.

PROSPECT PARK SHORTHORNS

1 red Shorthorn bull 29 months old; 1 white, 2 roan and 4 red Shorthorn bulls 10 to 16 months old.

J. H. TAYLOR & SONS, CHAPMAN, KAN.

Cheaper Grass for Cattle

BY SAMUEL SOSLAND

Cattle trade interests on the Kansas City market and in the Southwest are turning to the pasture stuation in Kansas in an effort to forecast the next trend of prices on steers. Naturally, the owners of pastures in Kansas are interested in the viewpoint of the market interests.

That Kansas will receive less money for leases from pastures this year than in 1919 is already certain. A careful canvass by the writer indicates that thus far contracts have been closed in Kansas at $10 to $10.50 a steer for the season. One of the better pastures in Chase county is reported to have been leased at $10 a head, with 5 acres allowed to the steer. There has been a little other contracting at $10.50 a head. That the leases will be made largely at $10 to $12 a head is now the forecast heard most widely in the trade, altho there is some doubt about the latter figure. A year ago the better pastures ruled between $16 and $20 a head for the season, the highest price in the history of the famous Flint Hills pasture area of Kansas.

Summer Grazing

"Some of the big cattlemen of a year ago are out of the business of bringing cattle from Texas to Kansas for summer grazing," remarked a Kansas City stock yard operator. "They lost so much money last year that they are unable to continue in the business on an extensive scale. Besides, the stringency in money markets is acting as a check on cattle buying and on leasing of pastures. In Texas range conditions are so good that holders are not yet manifesting any eagerness to sell."

Just as trading in leases has been quiet, so has the contracting of cattle for spring delivery in Kansas been very light thus far in Texas. Prices show little change, and there is a feeling in many places that the Texas holders are too bullish and that they are affected in their views by their local range conditions as much as by the state of the market, if not giving greater attention to their supply of feed.

Texas Prices

Cattle are quoted largely as follows on Texas ranges, these prices being for the better grades: 4-year-old steers, $100 to $120; 3-year-olds, $75 to $90; 2-year-olds, $50 to $70; yearlings, $40 to $55. One offer has come to Kansas City of rather plain 4-year-old steers at $80, but this is not representative of the general market. Compared with prices on stock yards, the 3 and 4-year-old steers are more on a parity than the young cattle.

The top sale of cattle in Kansas City last week was $15.75, compared with $18 a year ago. Sales were made slowly, and the bulk of the heavier steers brought only $10.50 to $12.50. Stockers and feeders were firm early, but weakened later, with some sales up to $12.50 and $13, high prices in comparison with fat cattle values. Cows went to packers largely at $8 to $9. Veal calves sold up to $17, being helped partly by the lofty lamb market. Sales of stock cows and heifers were made between $5.75 and $10.50. Stock calves were quoted at $6 to $11.50.

The Hog Trade

Conditions in the hog trade show little change. Receipts continue to run behind last year. It is reported that Great Britain has requested a reduction of 25 per cent in shipments on her orders in February and a decrease of 50 per cent in March orders. These advices, of course, are unfavorable, but confidence in the market is unshaken, except in rare instances. The domestic trade situation is encouraging. Higher prices are expected by a large majority in the next two months. On the Kansas City market last week hogs sold up to $16, but reacted and closed about 25 cents lower. Pigs sold up to $16.

When a market reaches a very high level, it is time to become cautious. This applies to the trade in lambs and sheep. A new January record, $21, was paid for lambs in Kansas City last week, this price being the highest since March, 1918. Lambs showed a rise of $1 in that period, and sheep gained 50 to 75 cents. Some feeding lambs sold as high as $18.75. The bulk of feeding lambs, at $17.50 to $18.50, were considered fair purchases, but buyers were urged not to pay more money.

1886—Tomson Shorthorns—1920

Headquarters for Herd Bulls

We offer a large number of extra good bulls that are ready for service. They are some of the champion Village Marshal by Cumberland Marshal; **Beaver Creek Sultan,** a grandson of Whitehall Sultan; **Gregg's Villager,** one of the great sons of Villager; **Imp. Newton Champion, Imp. Lawton Tommy** and **Diamond Baron.**

They are of the most fashionable strains out of imported and home bred dams of the Augusts, Marigold, Jilt, Victoria, Roan Lady, Lavender, Orange Blossom, Duchess of Gloster, Sunnyblink and other very select tribes. They are nearly all roans and of extra good individuality. Come and see them.

TOMSON BROS.

Carbondale, Kansas or **Dover, Kansas**
R. R. Station Wakarusa on Main line of Santa Fe
R. R. Station Willard on Main line of Rock Island



The Bell Cow for Profit

Jersey Cows don't eat merely to live, but to produce the richest quality of milk from the smallest amount of feed. They are the money-makers.

Any breeder will tell you that a dollar's worth of feed goes farther and yields a greater return when fed to a Jersey. Jersey Milk averages 5.37% butter fat. Jersey Milk, Jersey butter and Jersey cheese bring the biggest prices on the market.

JEREY

Breeders will tell you that the Jersey is the Pride-Prize-Profit breed. Let us tell you why the Jersey is *the* investment cow! Write for free literature about Jerseys.

THE AMERICAN JERSEY CATTLE CLUB
322-I West 23rd Street New York, N. Y.
An Institution for the benefit of every Jersey owner

JERSEY CATTLE.

Hillcroft Farms Jerseys headed by Queens' Fairy Boy, pronounced the best bred Jersey bull in Missouri, a Register of Merit son of Raleigh's Fairy Boy, the greatest bull ever imported, 54 tested daughters, 86 tested granddaughters and 34 producing sons. Choice bull calves for sale. Reference Bradstreet.

M. L. GOLLADAY, PROPR., HOLDEN, MO.

REGISTERED JERSEYS FOR SALE

"Hood Farm Breeding." My herd bull Royal Missel's Torono, also three choice bulls by him, ready for service; a few females. Have rented my farm and want to sell.

S. S. SMITH, CLAY CENTER, KANSAS

Registered Jerseys For Sale

Bulls or cows. **C. E. Cochran, Kincaid, Kan.**

REGISTERED JERSEY BULL CALVES, sired by Oakland's Sultan 2nd, $50.

PERCY LILL, MT. HOPE, KANSAS.

FOR SALE—Registered yearling Jersey bull, solid color, fine breeding. Write for price, picture, pedigree. **A. H. Knoeppel, Colony, Kan.**

JERSEY CATTLE.

Pure Bred Jersey Cattle

Registered, and in the Government Accredited Herd List. Our herd is strong in the blood of Oxford Lad, sire of 46, and 22 sons with producing daughters. We have for sale at present a few select bulls ready for service. Kindly write us your wants.

J. B. PORTER & SONS, MAYETTA, KAN.

GUERNSEY CATTLE.

For Sale Reg. Guernsey Cow

7 yrs. old, in milk and rebred; a heavy producer and excellent type; price $350. Reg. heifer, coming 3 yrs. old; bred; this heifer is from above cow, price $250. Both are extra well bred. Four high grade Guernsey cows, just fresh; 2 extra heavy producing Jersey cows and 7 high grade Guernsey heifers. One registered and one high grade Guernsey bull yearlings. For photos and descriptions write.

DR. E. G. L. HARBOUR, Box 113, Lawrence, Kan.

WHEN WRITING TO ADVERTISERS MENTION KANSAS FARMER AND MAIL AND BREEZE.

Holstein-Friesians In Auction

An offering of the highest quality made possible because of close culling and the retaining of only production Holsteins.

Sale Near Town

Nortonville, Kan., Thursday, Feb. 12



"Tongy," a beautiful Holstein cow in the Meyer herd, and two of Mr. Meyer's young sons learning the dairy business. "Tongy" goes in the sale.

Here is the line up.

8 registered cows, some fresh sale day. 4 coming two year old registered heifers bred. 8 purebred heifers coming yearlings. 1 two year old reg. bull and one coming year old bull. 10 coming year old high grade heifers. 24 high grade cows, all bred to a registered bull.

This is a small herd of registered and high grade Holsteins sold strictly on their merits. Not a speculator's sale but an auction of dairy cattle that are in their every day clothes and a working herd.

Auctioneers—C. M. Crews, Topeka, Kan.; McCullough and O'Brien, Tonganoxie, Kan.; and Frank Reagan.

W. J. O'Brien, Sale Manager, Tonganoxie, Kan.

For catalogs address either the sales manager or

J. W. MEYER, Owner, Nortonville, Kansas

Catalogs ready to mail right now. **J. W. Johnson, fieldman, Capper Farm Press.**

NOTE—Nortonville is easily reached via Topeka from the south or Atchison from the north.

First Annual Tri-State Holstein Show and Sale

At the Union Stock Yards Sale Pavilion

South Omaha, Neb., Feb. 24, 25 & 26

100 HEAD, 85 Cows and Heifers and 15 Bulls

Every One a Show Animal

And a Producer that has been specially selected by the Tri-State committee as qualified to enter this great show and sale.

Every Cow Has a Creditable A. R. O. Record

The heifers are by 30-lb. sires and out of dams eligible to the sale.

The bulls are mostly by 30-lb. sires, several out of 30-lb. dams, one of them is a

Son of Niva Kalmuck Nebraska's Champion 45-lb. Cow

Five cows have A. R. O. records above 30 lbs. in 7 days.
Two cows have 7-day records above 29 lbs.
Twenty cows have 7-day records above 25 lbs.
One heifer, Nebraska's 2-year-old champion, has a record above 23 lbs.
Eight heifers have 2-year records above 20 lbs.
Twenty cows and heifers are bred to

The World's Champion Long Distance Sire, Sir Ormsby Akkrummer Hengerveld

His sire is a son of the world's champion yearly record cow

Duchess Skylark Ormsby

His dam has a 7-day record of 39.56 lbs. of butter and 620.6 lbs. milk. Sire is about to complete her yearly record which will undoubtedly exceed 1200 lbs. of butter.

40 Head are from the Noted Friesland Farm Herd Owned by B. B. Davis, Omaha

He has consigned many of his choicest animals which include

Three 30-lb. Cows, a Son of the 45-lb. Cow, Niva Kalmuck

and one of his herd sires, Alcartra Hengerveld Segis De Kol, son of the $50,000 bull, King Segis Pontiac Alcartra.

His dam is Meta Hengerveld, a 30-lb. daughter of Hengerveld De Kol; he is a proven sire suitable for service in any herd in the country.

Some are bred to

King Echo Sylvia Waldorf

whose two nearest dams average 889 lbs. milk and 38.68 butter in 7 days. His sire is a son of May Echo Sylvia the only cow in the world to produce over 1,000 lbs. of milk in 7 days.

Some are bred to King Pontiac Konigen a son of King Segis and the sire of the 43.59-lb. 4-year-old Lady Netherland Pontiac.

Three are bred to a son of the 37-lb. cow Erma Pietertje De Kol Beets.

Two are bred to King Segis Lyons a son of King Segis and the sire of ten 30-lb. daughters; one of them above 38 lbs.

Twenty prominent breeders of Nebraska, Kansas and Wisconsin have entered the contest for highest honors in show and sale ring.

Prof. H. H. Kildee of Ames, Iowa, will judge the cattle Tuesday, February 24th and they will be sold with their ribbons Wednesday and Thursday, February 25th and 26th.

All lovers of purebred cattle are invited to come to the show and sale and also to the

Banquet at the Castle Hotel, 6:30 P. M., February 24th

The annual meeting of the Nebraska Holstein-Friesian Club will be held immediately following the banquet. Everybody is welcome. Write for catalog to

DWIGHT WILLIAMS, Sale Manager, Stock Yards Sta., OMAHA, NEB.
A. W. Thompson, J. E. Mack, R. E. Haeger, E. M. Little, Auctioneers.
S. T. Wood in the Box.

The Kind You Can Afford To Buy
High Grade Holstein Cows and Heifers

At the farm, six miles south and one and a half miles west of

Abilene, Kan., Wed., February 11

37 Cows ranging from 3 to 5 years old. This is a choice lot of cows which we are proud to put into a sale ring. Come look them over—they speak for themselves. They are from a reliable herd, noted for their production records. This herd stands as one of the leading herds in the Dickinson County Cow Testing Association—cows that have butter records up to 70 lbs. in 30 days. Every producing cow has been tested and milk and butter records will be furnished on day of sale. Most of these are giving a good flow of milk at present, freshening in the fall and through the winter.

20 Choice Heifers—Some bred and others still open. This is a fine string of heifers from some of our high producing cows.

Health Condition. These cattle have been tuberculin tested and will be sold subject to 60 days re-test. They are in the best of condition to go thru the remainder of the season.

This is an offering of high quality Holsteins, high grade cows and heifers from one of the best herds in Dickinson county. Write for information. Address,

D. S. Engle & Sons, Abilene, Kan.

Auctioneers—Jas. T. McCulloch, Clay Center, Kan. E. L. Hoffman, Abilene, J. G. Engle, Abilene.
J. W. Johnson, fieldman, Capper Farm Press

Public Sales of Livestock

Holsteins.

Feb. 9—F. D. Wiggins, Lawrence, Kan.
Feb. 10—R. C. Smith, Sedgwick, Kan.
Feb. 11—D. S. Engle & Sons, Abilene, Kan.
Feb. 12—J. W. Meyer, Nortonville, Kan.
Feb. 17-18—Iowa, Nebraska, Kansas combination sale. Dwight Williams, Mgr., Omaha, Neb.
Feb. 24-25-26—Tri-State Holstein Show and Sale, Omaha, Neb.
Feb. 24—Edw. L. Hutchins & Sons, Salina, Kan.
Mar. 5—F. J. Searle, Oskaloosa, Kan. Sale at Topeka.
Mar. 19—C. E. Pearse at So. Omaha, Neb. Dwight Williams, Sale Mgr.
Mch. 25-26—Annual sale Holstein-Friesian Association of Kansas at Topeka. W. H. Mott, Sales Mgr., Herington, Kan.

Shorthorn Cattle.

Feb. 11—E. M. Phillips & Sons, Beverly, Kan.
Feb. 20—Kelley & Mitchell, Gardner, Kan. Sale at Ottawa, Kan.
Feb. 24—Jefferson Co. Shorthorn Breeders, Valley Falls, Kan. E. S. Mitchell, Valley Falls, Sale Director.
Mar. 12—E. D. Dale, Protection, Kan.
Mar. 16—Edw. F. Gehley, Orleans, Neb.
Mar. 25—Eastern Kansas Shorthorn Breeders 'Assn., Ottawa, Kan., F. J. Robbins, Sale Mgr., Ottawa, Kan.
Mar. 30—J. P. Ray & Sons, Lewis, Kan.
Mch. 31-Apr. 1—Central Shorthorn Breeders' Ass'n. Sale at Kansas City, Mo.
Apr. 2—S. E. Kansas Shorthorn Assn., G. A. Laude, Sec'y. Sale at Independence, Kan.
Apr. 28—Sumner County Assn., W. A. Boys, Co. Agt., Mgr., Wellington, Kan.
Apr. 28—Northwest Kansas Shorthorn Breeders' Ass'n.; Sale at Concordia. E. A. Corey, Sales Mgr., Talmo, Kan.
June 5—A. L. Johnston, Lock Box 86, Lane, Kan., at Ottawa, Kan.

Polled Shorthorn Cattle.

Mch. 2—T. M. Willson, Lebanon, Kan.

Angus

Feb. 10—Alex Spong, Chanute, Kan.

Red Polled Cattle.

Feb. 10—R. C. Smith, Sedgwick, Kan.

Percheron.

Feb. 12—H. R. Cowdery, Lyons, Kan.
Feb. 17—M. H. Roller, Circleville, Kan.
Feb. 23—D. E. Gill, Attica, Kan.
Mar. 3—Nebraska Purebred Horse Breeders' Assn., Grand Island, Neb. C. F. Way, Lincoln, Neb., Mgr.

Jacks.

Feb. 12—H. R. Cowdery, Lyons, Kan.
Feb. 16—G. C. Roan, La Plata, Mo.
Feb. 17—M. H. Roller, Circleville, Kan.
Feb. 23—D. E. Gill, Attica, Kan.
Mar. 18—H. T. Hineman & Sons, Dighton, Kan.

Poland China Hogs.

Feb. 10—A. J. Erhart & Sons, Oregon, Mo.
Feb. 11—Ross & Vincent, Sterling, Kan.
Feb. 12—F. Olivier & Sons, Danville, Kan. Sale at Harper.
Feb. 14—C. S. Nevius & Sons, Chiles, Kan.
Feb. 14—R. B. Donham, Talmo, at Concordia, Kan.
Feb. 14—W. D. McClelland & Sons, Blair, Kan.
Feb. 17—Updegraff & Son, R. 6, Topeka, Kan.
Feb. 17—Otto Gloe, Martel, Neb.
Feb. 18—Henry Koch, Edina, Mo.
Feb. 20—Isaac F. Tyson, Harrisonville, Mo.
Feb. 21—W. A. Prewett, Asherville, Kan.
Feb. 21—Stafford Co. Purebred Livestock Assn., Stafford, Kan.
Feb. 21—Stafford County Assn., E. J. Wanderscheid, Seward, Kan., Mgr.
Feb. 25—Harry Wales, Peculiar, Mo.
Feb. 27—C. B. Schrader, Clifton, Kan. Sale at Clay Center, Kan.
Mch. 2—T. M. Willson, Lebanon, Kan.
Mch. 5—Willis & Blough, Emporia, Kan.
Apr. 28—Fred G. Laptad, Lawrence, Kan.

Spotted Poland China Hogs.

Feb. 18—Manti Hog Farms, Shenandoah, Ia.
Mch. 17—Manti Hog Farms, Shenandoah, Ia.

Duroc Jersey Hogs.

Feb. 9—J. R. Breed, Hydro, Okla.
Feb. 9—A. A. Russell, Geneva, Neb.
Feb. 10—R. C. Smith, Sedgwick, Kan.
Feb. 10—L. L. Humes, Glen Elder, Kan.
Feb. 11—John Petford, Saffordville, Kan.
Feb. 11—W. A. Dugan, Coin, Ia.
Feb. 12—W. T. McBride, Parker, Kan.
Feb. 12—W. W. Otey, Winfield, Kan.
Feb. 13—Theison Bros., Osmond, Neb.
Feb. 13—Zink Stock Farm, Turon, Kan.
Feb. 14—G. M. Shepherd, Lyons, Kansas.
Feb. 16—John C. Simon, Humboldt, Neb.
Feb. 16—Wilcoxen & Porter, Bowling Green, Mo.
Feb. 17—E. H. Carpenter, Fontanelle, Neb.
Feb. 18—Wooddell & Danner, Winfield, Kan.
Feb. 18—Fern J. Moser, Sabetha, Kan.
Feb. 19—Gwin Bros., Morrowville, Kan., at Washington, Kan.
Feb. 20—Isaac F. Tyson, Harrisonville, Mo.
Feb. 20—B. W. Conyers, Marion, Kan.
Feb. 21—H. W. Flook and Chas. Pedigo, Stanley, Kan.
Feb. 21—Stafford Co. Purebred Livestock Assn., Stafford, Kan.
Feb. 21—B. R. Anderson, McPherson, Kan.
Feb. 21—W. L. Fogo, Burr Oak, Kan.
Feb. 23—John Loomis, Emporia, Kan.
Feb. 24—Gordon & Hamilton, Horton, Kan.
Feb. 25—Kempin Bros. and W. Hilbert, Corning, Kan.
Feb. 25—J. R. Grover, Sentinel, Okla.
Feb. 26—John W. Jones, Minneapolis, Kan., at Concordia, Kan.
Feb. 26—Adolph Anderson, Davenport, Neb.
Feb. 28—C. W. Johnston, Red Cloud, Neb.
Apr. 17—Rule & Woodlief, Ottawa, Kan.
Apr. 28—Fred G. Laptad, Lawrence, Kan.
Apr. 29—Sisco & Doerschlag, Topeka, Kan., at Fair Grounds.

Hampshire Hogs.

Feb. 25—Geo. W. Ela, Valley Falls, Kan.
Mch. 2—Whitaker & Darby, Miami, Mo. Sale at Marshall, Mo.
Mar. 3—C. I. Ward, Cameron, Mo.

Berkshire Hogs.

Feb. 26—T. A. Harris & Sons, Lamine, Mo.

Sale Reports

The North Platte Duroc Circuit.

The breeders of the North Platte Duroc sale circuit held a week of very successful sales. There was a good crowd in attendance. H. C. Holt & Sons, Kearney, Neb., started the sale circuit Tuesday afternoon followed by H. E. Labart's sale, Wednesday, at Lexington; H. D. Gelken's sale at Gothenburg, Wednesday night; A. C. French's sale, Lexington, Thursday; C. T. White's, Thursday night; Mr. and Mrs. R. E. Tyler's, Friday, and L. B. Benson's, Saturday. This crowd was given two banquets, free moving

ABERDEEN ANGUS CATTLE.



MARTIN'S ANGUS
20 Bulls, 12 to 30 months old. Car of 3 and 4 year old cows, bred, at $125. Come or write.
J. D. MARTIN & SONS
R. 2, Lawrence, Kan.

Cherry Vale Angus Farm
Offers 6 bulls, ranging from 8 to 23 months old, also Herd Bull Roland L. No. 187220. Write for prices.
J. W. TAYLOR, R. 8, CLAY CENTER, KAN.

Special Angus Offering
30 registered young cows bred to show bulls. 15 three-year-old heifers bred. 35 yearling heifers. Young bulls serviceable ages. A few two-year-olds.
SUTTON FARM, RUSSELL, KANSAS

AYRSHIRE CATTLE.

Linndale Farm Ayrshires
Our bull calf offerings are the best we have ever had, they are all out of A. R. cows or cows now on test and are sired by one of our herd bulls who are both sons of world record cows.
Write for prices and descriptions.
JOHN LINN & SON, MANHATTAN, KAN.

CAMPBELL'S AYRSHIRES
Young Ayrshires, both sex, bulls ready for service, heifers bred or open. Finlayston and Armour strains.
ROBERT P. CAMPBELL, ATTICA, KAN.

HOLSTEIN CATTLE.



Holstein-Friesian Calves
Large and Strong at Birth
Healthy—Vigorous—Thrifty
Grow quickly into large, profitable, producing cows and prepotent sires. Raise good Calves for future herds.
Send for Free Illustrated Booklets.
The Holstein-Friesian Association
292 Hudson Street
Brattleboro, Vermont

Mon., Feb. 9th
(Registered Bulls)
We will sell at auction Mon., Feb. 9th our 3-year-old registered Hereford herd Bull. Our 2-year-old registered Holstein herd bull. 20 head of high grade Hereford stock cows, heifers, and young bulls.
One 10-20 Titan tractor and three Ford cars.
WIEBE BROTHERS
Lehigh, Kansas

Valley Breeze Korndyke Winona
26-lb. dam, 42-lb. sire whose dam (Korndyke Winona) was tested at Cabana's. Valley Breeze Dutchland Korndyke from A. R. O. heifer whose dam (Canary Inka) made 28-lbs. His sire N. C. Dutchland Korndyke is from the world's record 2-year-old twin, 31-lbs. These two bulls are ready for service—priced right and will go quick.
VALLEY BREEZE FARM,
ORIN R. BALES, R. 4, LAWRENCE, KANSAS.

Persistency In Production
Is one of the most desirable qualities a dairy animal can have. Vanderkamp Segis Pontiac is our herd sire. His dam is one of less than 20 cows in the world to produce over 30 pounds of butter in 4 consecutive lactation periods. Twenty-three of his nearest dams average over 27 pounds of butter in 7 days. We have several young bulls to offer sired by this remarkable bull. Prices $100 and up.
COLLINS FARM CO., SABETHA, KANSAS.

Nemaha Valley Stock Farm
Registered Holstein-Friesians. One of the first government accredited herds in Kansas and one of the largest in the list. Young bulls for sale by Pontiac Beauty de Kol Segis 139642. His dam, as a 3 year old, made nearly 29 lbs. in 7 days and 114.63 lbs. butter and 2587.9 lbs. milk in one month. His grandsires are King Segis and King of the Pontiacs. Address H. D. Burger, Proprietor, Seneca, Kansas

pictures of different livestock herds and free entertainment the entire week. These sales were conducted in a most capable manner by Colonels Putman and Shaver.

Percherons at Wichita.

39 mares averaged $318
24 stallions averaged 348
63 head averaged 330

A young stallion consigned by W. S. Corsa, White Hall, Ill., went to Mr. Tate, Saskatchewan, Can., for the top price of $1,000.

Durocs at Wichita.

31 sows and gilts averaged.....$ 85
1 boar sold for..... 175

The Durocs sold fast but were taken at prices more satisfactory to the buyers than the sellers. The consignors to the sale are of the opinion, however, that the ground has been broken for much good Duroc business at the Kansas National in the future.

Polands at Wichita.

44 sows and gilts averaged.....$121.25
4 boars averaged 90.00

Lot No. 128, consigned by R. L. Barnes, Grenola, Kan., topped the sows, going to Ross Coffman, Overbrook, Kan., at $425. Lot No. 129, consigned by the same party, topped the boars, going to H. L. Burgess, Chelsea, Okla., for $100.

Jacks and Jennets at Wichita.

17 jacks averaged $508
13 jennets averaged 60
30 head averaged 314

The top jack was lot No. 10, consigned by J. A. Godman, Devon, Kan., going to H. L. Burgess, Chelsea, Okla., for $2,000. Lot No. 33, a jennet consigned by L. Puls, Dover, Okla., topped the jennets at $155.

Benson Averages $102.

L. D. Benson closed the week of sales on the North Platte circuit, January 31, with an average of $102 per head on 47 Durocs. This being his first sale and the fifth sale to be held in Lexington, that week, he was pleased with the outcome. The spring gilts were all of late farrow and a number of them sold open. Following is a partial list of buyers:

Lot No.
1—Stanton Allen, Lincoln, Neb.....$155.00
2—Bert Arbuckle, Lexington..... 110.00
3—E. D. Gosnell, Smithfield, Neb... 135.00
4—R. Smith, Lexington..... 112.50
5—Tom Costello, Lexington..... 107.50
6—Arthur Anderson, Lexington..... 140.00
8—O. C. Thomas, Smithfield..... 110.00
9—O. C. Thomas..... 132.50
10—Arthur Anderson 110.00
11—E. D. Gosnell..... 112.50
12—Bert Arbuckle 117.50
13—Stanton Allen 120.00
14—Pfander & McClelland, Clarinda, Ia. 150.00
15—Dawson Co. Farms..... 115.00
16—C. T. White, Lexington..... 75.00
17—Alva Anderson, Lexington..... 90.00
18—Alva Anderson 112.50
19—O. C. Thomas..... 120.00

Kansas National Angus Sale.

41 Females averaged.....$221.70
6 Bulls averaged..... 165.55
50 Head averaged..... 214.90

The Angus sale held Friday afternoon in the Forum, Wichita, Kan., was only a fair sale. The quality of the cattle sold was only fair as the average would indicate. The top of the sale was lot 628 Eppy 10th of Five Gates consigned by W. C. Taft, Paola, Kan., and sold to Yoxall & Wells, of Paradise, Kan., for $900. The 2nd highest priced cow was lot 583 Lad's Black Gem, consigned by Kansas State Agricultural college and sold to Caldwell & Son of Canadian, Texas, at $835. The top of the bull section was lot 588, consigned by the Wilcox estate, Muscotah, Kan., and sold to O. D. Hutchings, Osage City, Kan., at $300. Caldwell & Son, Canadian, Texas; Geo. W. Clealand, Hiawatha, Kan.; F. B. Cornell, Nickerson, Kan., and Ivan R. Zook, Milan, Kan., were among the good buyers of the sale. Following is a representative list of sales:

FEMALES

Lot
576 Wyckoff Bros., Luray, Kan.....$230
580 J. R. Dickerson, Adams, Kan..... 290
581 Geo. W. Clealand, Hiawatha, Kan.. 190
582 Caldwell & Son, Canadian, Texas... 350
587 Leo Archibald Carrollton, N. M..... 240
590 F. B. Cornell, Nickerson, Kan..... 170
591 F. B. Cornell, Nickerson, Kan..... 235
596 Ivan R. Zook, Milan, Kan..... 160

Geiken's Offering Good.

H. C. Geiken held a night sale at Gothenburg, Neb. He had prepared a large banquet for those in attendance and a large crowd was on hand to partake of it. Fifty-three Durocs were sold, averaging $132 per head. The offering was good and sold for reasonable prices. Colonels Chaver and Putman had charge of the sale. Following is a list of the buyers:

Lot No.
1—A. R. Barnes, Chappell, Neb.....$190
2—Farley & Harney, Aurora, Neb..... 275
3—A. R. Barnes Aurora, Neb..... 105
4—Putman & Sons, Tecumseh, Neb.... 145
5—Harvey Deets, Kearney..... 140
6—Herbert Geiken, Cozad, Neb..... 145
7—H. S. Browning, Manning, Ia..... 205
8—Ed Creston, Steinburg, Ia..... 125
11—A. C. French, Lexington..... 370
12—W. H. Turpey, Galesburg, Ill..... 295
13—J. R. Walker, Waterloo, Ia..... 260
14—C. T. White..... 300
15—Jas. Shepherd, Lyons, Neb..... 215
16—H. C. Holt & Sons, Kearney, Neb.. 115
17—A. B. Ash, Broken Bow, Neb..... 120
18—Mason Hyde, Broken Bow..... 110
19—Fred Nielson, Cozad..... 125
20—Wm. King, Horace, Neb..... 105
22—O. E. Easton, Alma, Neb..... 145
24—R. B. Murray, Elwood, Neb..... 110
26—W. Larson, Gothenburg, Neb..... 107
32—Frank Strolberg, North Platte, Neb. 140
33—R. B. Murray, Elwood, Neb..... 245
34—L. C. Smith, Tobias, Neb..... 140
36—H. C. Holt & Son..... 100

Jones Bros.' Poland Sale.

46 head average.....$117

The Jones Bros., Hiawatha, Kan., held their annual bred sow sale as advertised on January 31. A large crowd of farmers and breeders were present. The top price of $350 was paid for lot number 19, going to Geo. Lenier, Armstrong, Mo. This was an exceptionally good fall yearling sired by Walters Jumbo Timm. No sensational prices figured in the auction, yet the average was only fair and low enough to permit of liberal investment for high class breeding stock. Several of the older brood sows that were tried breeders should have brought more money as they were considered safe investments and had proven money makers for the Jones Bros. Col. R. E. Miller did the selling, assisted by Cols. Scott and Dickerson. Following is a representative list of sales:

Lot No.
1—S. C. McKelvie & Son, Fairfield, Neb. .....$ 75.00
2—H. B. Walter & Son, Effingham, Kan. 175.00
3—C. E. Moore, Muscotah, Kan..... 185.00
5—M. B. Goodwin, White Cloud, Kan. 150.00
6—R. N. Hillyer, Hiawatha, Kan... 100.00
7—S. McKelvie & Son..... 90.00
8—Thos. Cook, Hiawatha, Kan..... 80.00
12—M. B. Goodwin..... 80.00
11—T. B. Cook, Rulo, Neb..... 95.00
19—Geo. Lensir, Armstrong, Mo..... 350.00
20—H. Gronniger & Sons, Bendena, Kan. 155.00
21—Geo. Richards, Cain, Ia..... 82.50
22—R. A. Coupe & Son, Falls City, Neb. 155.00
23—R. N. Hillyer..... 145.00
27—Emmet Stover, Morrill, Kan..... 80.00
28—O. M. Garlock, Stanley, Kan..... 105.00
30—A. G. Carpenter, Muscotah, Kan. 100.00
31—M. E. Watkins, Hiawatha, Kan.. 77.50
38—Schmitz Bros., Seneca, Kan..... 110.00
40—H. J. Wellmer, Hiawatha, Kan.. 85.00
41—Ridgway Farmers, Blanchard, Ia. 200.00
44—R. A. Coupe..... 170.00

Morton-Wenrich-Warren Poland Sales.

Geo. Morton, 34 head averaged.....$164.30
H. R. Wenrich, 35 head averaged.... 131.15
Ezra Warren, 35 head averaged..... 132.25

Few Poland China boars equal in importance the three great sons of Disher's Giant, which head the herds of the above breeders. Sows and gilts sired by or bred to these boars comprised the offerings that these men sold in their sale circuit: Geo. Morton, Oxford, Kan., January 22; H. R. Wenrich, Oxford, Kan., January 23, and Ezra Warren, Clearwater, Kan., January 24. The attendance at each sale was over 300 in spite of bad weather and sleet covered roads. This good attendance stands as a tribute to the quality of the offerings at each sale. A relatively large number of the buyers were farmers who have not been raising purebred hogs but are now starting foundation herds. At the Morton sale the 34 lots went to 25 different homes, 27 head staying in Kansas, five going to Oklahoma, one to Indiana and one to Nebraska; the 35 head sold by H. R. Wenrich went to 21 different homes, 29 in Kansas, three in Oklahoma and four in Mis-

Holsteins Are Making the West a Dairy Country And Cashing Farm Feeds for the Highest Dollar

My 8th Annual Sale
Fair Grounds, Topeka, March 5
F. J. Searle, Oskaloosa, Kan.

Harry Mollhagen, Bushton, Kan.
In our herd are 13 cows with an average of 23.77 pounds butter in seven days. Bull calves from dams with records from 22 to 28 pounds. Health of herd under federal control.

Ben Schneider, Nortonville, Kansas
Six Holstein bulls, 6 months old to yearlings; 1 from 25-pound, 1 from 21-pound cow; 1 from 17-pound 2 year old. Priced to sell. Duroc gilts priced right.

Chas. V. Sass, 409 Minn. Av., Kansas City, Ks.
10 registered cows and heifers, also 20 grade cows and heifers. 10 registered bulls, three months to three years old. Registered cows $175 per head up. Grade bred heifers $125 up. Bull calves $100 and up.

Windmoor Farm Holsteins
For sale—Bull calves sired by 30-lb. son of Johanna McKinley Segis and out of good dams; $50 and up. For particulars write
CHAS. C. WILSON, MANAGER, EDNA, KANSAS.

David Coleman & Sons, Denison, Kan.
We have bull calves for sale from cows with semi-official yearly records.

SPLENDID 30-lb. BULL
Old enough for light service; straight; mostly white, beautifully marked. Sire, one of best sons of King Of The Pontiacs and a 1st prize winner at Kansas National. Dam, 30-lb. cow holding state record. Price $750. Axtell & Hershey, Newton, Kansas.

P. W. Enns & Son, Newton, Kan.
As we will keep purebreds only in future our high grade cows and 3 heifers will sell to first applicant. Dams of these grades made from 13,000 to 16,000 pounds milk.

R. E. Stuewe, Alma, Kan.
For sale—10 cows with A. R. O. records. Five bulls 10 mo. old, five two-year-old heifers and five yearlings.

Victor F. Stuewe, Alma, Kansas
Watch for later announcement! Herd sire Oak De Kol Ollie Homestead Fobes 99030, ¾ brother to noted grand champion bull at National Dairy Show '16 and '17. He carries the most popular and best producing blood of the day.

W. J. O'Brien, Tonganoxie, Kansas
an experienced auctioneer, specializing in Holstein sales, and breeder of registered cattle.

J. A. Jamison & Sons, R. D. 2 Leavenworth, Kan.
Southside Holstein Farm. Herd sire: King Korndyke Akkrummer Ormsby 31.11 lb., 7 day record. Has full sister with 39.67 lb. Few of his calves for sale.

W. E. Zoll & Son, R. D. 6, Leavenworth, Kan.
Two very well marked registered bulls for sale. Ready for light service. Priced right.

C. A. Treff, Bonner Springs, Kan.
I offer for sale my 30 pound herd bull, **King Peter 18.** He is nearly white, five years old and sold fully guaranteed. Write at once.

Dr. L. E. Shay, Atchison, Kansas
For Sale: Registered Holstein yearling heifers and 2 royally bred bulls from A. R. O. dams, and old enough for service.

Advertisers in this Department are Members of the Holstein-Friesian Association of Kansas.

G. B. APPLEMAN, Pres., Mulvane, Kan.
P. W. ENNS, Vice-Pres., Newton, Kan.
A. S. NEALE, Sec'y-Treas., Manhattan, Kan.
W. H. MOTT, Sale Mgr., Herington, Kan.

Annual meeting and two days' association sale, Topeka's big, modern sale pavilion, Topeka, Kan., March 25-26.

SAND SPRINGS FARM
Specialize in long time test—persistency means profit. Several young males from record cows. No grades. Herd sire Prince Ormsby Pontiac Mercedes from 32-lb. daughter of Sir Pieterje Ormsby Mercedes. E. S. ENGLE & SON, ABILENE, KAN.

Geo. L. Allgire, Clay Center, Kan., R. D. 8
Farm near town. Individual production rather than numbers. Something to offer later on.

J. P. Mast, Scranton, Kansas
Ten cows and heifers, some just fresh; three bulls ready for light service; 32 to 35-pound breeding.

Dr. W. E. Bentley, Manhattan, Ks.
For Sale—3 heavy grade springers; 1 young heavy milker, fresh, registered.

Ross' Holsteins
Bull calves by Hamilton Prilly 5th whose dam made a record of 26.49 lbs. butter in 7 days, 105.6 lbs. in 30 days. Pictures sent on application.
S. E. ROSS, R. 4, IOLA, KANSAS

Hillcrest Farm
A few young bulls out of A. R. O. dams ready for service this fall. Inspection invited.
FITZGERALD, PETERSON & WEDDLE, Jamestown, Kansas

Geo. Lenhert, Abilene, Kansas
It is poor grade judgment to use a grade bull when you can "swap" him for a purebred ready for service by December.

PERSISTENCY IN PRODUCTION
The dam of Vanderkamp Segis Pontiac, our herd sire, is one of only 19 cows in the world to make 30-pound records for 4 consecutive lactations. Young bulls for sale by this sire $100 and up.
Collins Farm Company, Sabetha, Kansas

A. S. Neale, Mahattan, Kan.
Write immediately for the catalog of my big dispersion sale. 150 head of females. The big book tells all about the offering. Address as above.

C. A. Branch, Marion, Kansas
Clear Creek Holsteins—Have a number of open and bred registered heifers to sell. Some young bull calves. Buy a good bull calf and raise your own sire.

Braeburn Holsteins
Bulls and bull calves. One sire has a world-record dam and sire's dam; the other averages 648-32.62 for dam and sire's dam.
H. B. COWLES, 608 Kan. Ave., TOPEKA, KAN.

BULLS We have 6 head now ready for service, purebred and registered, out of high testing dams. Prices $100 to $150.
LILAC FARM DAIRY, R. 2, TOPEKA, KANSAS

Shunga Valley Holsteins
Closing out grades. Why not buy a fine heifer calf or yearling from granddaughters King Segis Pontiac (and from son of great Koenigen bull) producing up to 75-lbs. a day. Few registered females and bulls. Ira Romig & Son, Sta. B, Topeka, Kan.

THE CEDARLAWN HOLSTEIN FARM
Bull calves for sale sired by King Segis Pontiac Repeater 210981 and from good A. R. O. dams. Prices reasonable.
T. M. EWING, INDEPENDENCE, KAN.

Albechar Holstein Farm
For Sale: A few good purebred heifers, mostly bred to our great herd sire, King Korndyke Daisy Sadie Vale.
Robinson & Shultz, Independence, Kansas

Mott Bros. & Branch, Herington, Kan.
No females for sale. Choice 10-month bull by Duke Johanna Beets out of one of our best cows; straight top, nicely marked, wonderful individual; first $150 buys him. He must please you or money returned.

SOME GOOD BULL CALVES NOW
Will make attractive prices if taken while young. P. O., Erie, Kan. Roy Johnston, South Mound, Kan.

BULLS We have some splendid bulls for sale at very reasonable prices; from a few weeks to 1 year old; dams' records from 16 lbs. (2-yr.-old) to over 30 lbs. Write us just what you need in bulls.
Mark Abildgaard, Mgr., Mulvane, Kansas

Appleman Bros., Mulvane, Ks.
Young cows due to freshen soon all sold. Still have 2 or 3 young bulls old enough for service out of A. R. cows and 30-pound bull.

B. R. Gosney, Mulvane, Kan.
Coming 2-year-old heifer, heavy in calf to King Pontiac Beuchler; 5-month-old heifer calf, double cross of the Pontiacs breeding.

Al. Howard, Mulvane, Ks.
Bulls ready for service this fall. Write for descriptions and prices.

Wilkie & Swinehart, Derby, Kan.
Bull calf, evenly marked, out of the great show bull Johanna Bonheur Champion 2nd. Price $100 F. O. B.

Bull Calves by Our Herd Sire
Dam has 28.65-784—in 7 days; has 1000 lb. sister, one 34, one 30 and 11 above 20. A few services for sale to approved cows. We have all A. R. O. Cows. GOODIN STOCK FARM, C. L. GOODIN, PROPRIETOR, DERBY, KANSAS.

Chas. P. High, Derby, Kansas
High's Highest quality Holsteins. Bull calves from A. R. O. dams. Always glad to see you.

Two Choice A.R.O. Heifers for Sale
due to freshen in two or three weeks. Also richly bred proven sire.
FLOWERCREST FARM, MULVANE, KAN.

YOUR NEIGHBOR BREEDER
If he breeds Holsteins he needs the association's help. See to it he joins. Send his name and check for $5 to Secretary A. S. Neale, Manhattan, Kan.

It's Coming—7th Annual Sale Sunflower Holsteins, March 5
Address me at Oskaloosa for catalog but remember the sale will be held on the
State Fair Grounds, Topeka, Kansas
Where I will sell 85 head of good ones, **65 of which are choicely bred registered cattle,** half of them well along in calf to **Lord Kay Hengerveldt Fayne,** my chief herd bull and son of the $100,000 King Pontiac Hengerveldt Fayne. Get the catalog giving records and pedigrees.
F. J. Searle, Oskaloosa, Kan.

CLEARANCE SALE of EXTRA HIGH GRADE HOLSTEINS and JERSEYS
FEBRUARY 24—PUBLIC AUCTION—FEBRUARY 24
We will sell at our farm, 4½ miles east and 2 miles south of the Kansas Wesleyan University, Salina, Kansas; or 4 miles west of Kipp, Kansas; one of the finest dairy herds in Saline Co., headed by our herd bull Sir Korndyke Larkin Virgo 184649 H. F. H. B.; whose SIRE is Sir Korndyke Virgo Canary 3rd 105491 H. F. H. B.; DAM, Millie Nellie Larkin 84433 H. F. H. B. These cows just in their prime—not an old cow in the lot—majority of cows, fresh or heavy springers about date of sale. This offering includes 11 mature cows and some two and three year old, heavy springing heifers, all bred to our herd bull. Address inquiries to
EDW. L. HUTCHINS & SONS, R. F. D. 6, SALINA, KANSAS

A Son of Canary Paul Fobes Homestead from a 23-pound granddaughter of Canary Paul Fobes Homestead
He is ⅞ white, a perfect individual, just past a year old and ready for service. He has a 23-pound dam, a 32-pound sister, a 35-pound granddam, 49 A. R. O. sisters, a brother that was grand champion at the 1919 National Dairy Show, a brother that sired the youngest cow in the world to make 1,000 pounds of butter in a year. He is just the kind of a bull you need. Price and pedigree upon application.
STUBBS FARM CO., Mark Abildgaard, Mgr., Mulvane, Kan.

HOLSTEIN AND GUERNSEY CALVES
31-32ds pure, 7 weeks old, beautifully marked, $25 each, crated for shipment anywhere. Bonds accepted.
Edgewood Farms, Whitewater, Wisconsin

CHOICE HIGHLY-BRED HOLSTEINS
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.

BERKSHIRE SALE

of 50 Choice Tried Sows and Spring and Fall Gilts Part of Our Show Herd Included

Thursday, Feb. 26, 1920



We have cataloged a very select lot of sows and young gilts mated to five different boars,

HANDSOME DUKE 17TH
HANDSOME DUKE 18TH
HANDSOME DUKE 30TH

All three of these boars were made Grand Champions at one or more of the prominent State Fairs where exhibited this fall.

BARON PREMIER 145TH
RAVINIA'S DOROTHY'S EPOCHAL

A double grandson of Epochal, and Junior Champion at three State Fairs this year.

The offering will include twenty fall yearlings, twenty junior yearlings and a few tried sows, including Duchess 483rd purchased by us from N. H. Gentry when a gilt.

The entire offering is of our own breeding with the exception of three head. All are young, in the best of breeding condition, and are just right to go on and make money for their purchaser. The entire offering is cholera immuned. Remember the date. Make your plans now to attend this sale or send bid to O. W. Devine, my care, and I guarantee satisfaction. For catalog write, mentioning this paper,

Sale at Farm

T. A. Harris & Sons, Lamine, Mo.
Sunnyside Farm

A Live Wire County

Holds its First Breeders' Association Hog Sale at

Stafford, Kan., STAFFORD COUNTY February 21

32 Polands **31 Durocs**

Consigned from the following Stafford County herds:

POLANDS		DUROCS	
Floyd Chadd	U. A. Gore	A. B. Simpson	Grant Goble
M. F. Rickert	P. L. Keenan	W. W. Zink	Geo. W. Mueller
A. H. Alpers	Phillip Schrader	W. I. Lowery	I. L. De Selmo
Geo. M. Long	Robt. Chadd	Jenkins Bros.	J. R. Chiles
Herman Dorkman		Zink Stock Farm	

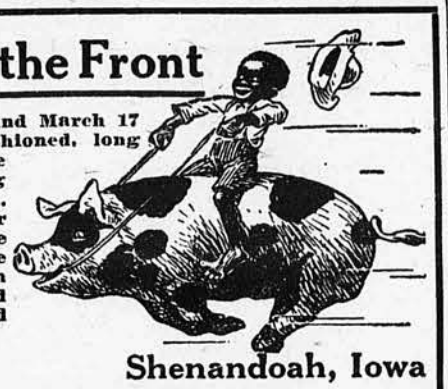
Tried sows, spring and fall gilts, and a few boars of each breed. These are good hogs, the kind that have put Stafford County on the hog map. Get your catalog today and plan to attend this sale. Address, mentioning this paper,

Stafford Co. Purebred Livestock Assn.

S. N. Myers, Secretary, Stafford, Kansas.

Auctioneers: Cols. Snyder, Waggner and Keenen. J. T. Hunter represents the Kansas Farmer and Mail and Breeze.

Spotted Polands to the Front



Come to our bred sow sales Feb. 18 and March 17 if you are interested in the old fashioned, long bodied, Spotted Poland Chinas, the kind with big bone, big spots, and big litters. All vaccinated and recorded. We can give you either National or Standard breeding. All sows in the first sale are for March farrow. The second sale for April farrow. You can buy fall gilts, spring gilts, or tried sows, at your own price. Come and see the fun.

Henry Field Seed Co., Shenandoah, Iowa

Real Polands For Farmers

That you can buy way below the prevailing prices for this class of breeding stock, if you attend our—

Public Sale of Bred Sows and Gilts
Topeka, Kan., Tuesday, Feb. 17th

These are of the best breeding, as the pedigrees in the catalog will show. They have beep given only plain farm care, getting much of their growth on alfalfa pasture. Every practical hog man knows that this condition will make money for the buyer.

40 head will be sold—7 tried sows; 17 fall yearlings and 16 spring gilts.

The tried sows will farrow early in March; all others, either in March or April; breeding dates given in the catalog. The catalog will show also, the three great boars to which they are bred or by which they are sired—Gerstdale Jones Again, O. U. Buster and U Mellow Bob.

Be sure to write for free catalog which we gladly send on request, mentioning this paper. Address

Updegraff & Son, Route 6, Topeka, Kan.

N. B.—Sale will be held in barn at 1012 No. Kansas Avenue, convenient to street car service to all depots.

souri; while the 35 head from Ezra Warren's went to 18 homes, 25 head staying in Kansas, five going to Oklahoma and four to Missouri. A yearling Yankee gilt bred to Morton's Giant topped the Morton sale at $660; a fall Yankee gilt bred to Giant Lunker topped the Wenrich sale at $400; and a 2-year-old Caldwell's Big Bob sow, bred to Big Lunker, topped the Warren sale at $455.

French's Durocs Average $167.50.

A. C. French, Lexington, Neb., held a very successful bred sow sale with an average of $167.50 per head. This was a very even offering, most of them bred to Sensation Great Orion, one of the good sons of Great Orion Sensation. D. S. Anderson, Lexington, Neb., was one of the strong buyers of the good animals. Following is a representative list of sales:

Lot No.	
23—Sam Nisley	$200
8—D. S. Anderson	350
11—Bert Phillips	135
13—Everett Johnson, Chilhowee, Mo.	240
18—C. S. French	130
1—R. E. Tyler	150
3—Harry Labart, Overton, Neb.	160
4—Bert Phillips	250
7—H. C. Holt & Son, Kearney, Neb.	235
16—O. C. Thomas	175
9—T. E. Racer, Broken Bow, Neb.	135
10—Sam Nisley	145
42—Geo. Briggs & Son, Alma, Neb.	200
15—L. D. Stephens, Elwood, Neb.	175
31—Roy Sarnes	175
17—C. T. White	250
39—J. C. Farney, Beaver City, Neb.	200
40—Frank Westfall, Elwood, Neb.	160
14—L. B. Benson	150
49—Bingell Bros., Overton, Neb.	150
38—Cliff W. Plumb, Henderson, Ia.	115
27—Farley & Harney, Aurora, Neb.	195
32—A. B. Ash, Broken Bow, Neb.	135
36—L. D. Stephens, Elwood, Neb.	145
33—O. C. Thomas	115
29—Farley & Harney, Aurora, Neb.	170
30—H. F. Grabert, Broken Bow, Neb.	190
43—Bingell Bros., Overton, Neb.	130
47—Homer Towell	125
34—Dr. F. Walters, Perry, Mo.	135
45—C. W. George, Sumner, Neb.	105
35—Platte Farms, Kearney, Neb.	105
50—Lody Wallendorf, Algora, Ia.	100

Boren & Nye's Duroc Sale.

Boren & Nye, Pawnee City, Neb., held their first annual Duroc Jersey bred sow sale, Monday, January 26. The offering was bred to their new herd boar, Col. Type. Forty head sold at an average of $93.94. Following is a list of the buyers:

Lot No.	
14—C. White, Lexington, Neb.	$105.00
16—C. A. Price, Arapahoe, Neb.	85.00
1—Geo. Scott, Pewnee City, Neb.	210.00
3—Geo. Scott	125.00
00—Geo. D. Bosinger, Cortland, Neb.	130.00
0—Fred Preston, Burchard, Neb.	100.00
19—Sam Small, Pawnee City, Neb.	110.00
20—Guy Walker, Pawnee City	85.00
26—Fred Pinkerton, Pawnee City	95.00
27—John Gierman, Pawnee City	80.00
18—Fred Preston	145.00
37—Guy Walker, Pawnee City	80.00
28—Emil Schultz, Seneca, Kan.	67.50
4—Emil Schultz	90.00
5—N. A. Lockard, Burchard, Neb.	100.00
6—John Glesman, Pawnee City	92.50
15—S. Allen, Arapahoe, Neb.	77.50
31—J. S. Dawson, Nymore, Neb.	65.00
21—Henry Loch, Pawnee City	110.00
22—O. A. Tiller, Pawnee City	100.00
38—J. S. Dawson	67.50
29—J. K. Madden, Pawnee City	70.00
7—A. Forney, Pawnee City	110.00
11—Robt. Taylor, Pawnee City	127.50
12—N. A. Lockard, Burchard, Neb.	95.00
8—John Glesnan	85.00
9—Clay Boren, Pawnee City	125.00
10—S. C. Turnbull, Pawnee City	65.00
25—Wm. Tamyhill, Violet, Neb.	55.00
30—Geo. Burg, Pawnee City	42.50
23—R. Porter, Pawnee City	60.00
31—A. S. Neiswanger, Amour, Neb.	60.00
32—Sam Small, Pawnee City	80.00
33—J. W. Clarke, Pawnee City	60.00
24—J. K. Madden, Pawnee City	80.00

Anderson's-Red Poll-Duroc Sale

On January 24th Adolph Anderson, Davenport, Neb., sold 38 head of Red Poll cattle and 42 Duroc hogs. There was a large crowd in attendance and the entire offering was sold by Col. E. D. Snell in a little more than two hours and a half. A representative list of buyers follows:

CATTLE

Lot No.	
1—Forest Overturf, Sutton, Neb.	$175.00
2—Geo. Karsolner, Wilcox, Neb.	177.50
3—Fred Bohling, Davenport, Neb.	142.50
5—Geo. Kroutz, Trumbull, Neb.	135.00
6—W. J. Lambert, Carleton, Neb.	127.50
7—Geo. Schwab, Clay Center, Neb.	100.00
10—G. E. Elliott, Superior, Neb.	182.50
12—John H. Herman, Oak, Neb.	105.00
13—John Nelson, Edgar, Neb.	100.00
15—Louis Avers, Davenport, Neb.	135.00
16—Glen Elliot	152.50
17—Pearson Bros., Shickley, Neb.	117.50
18—John W. Herman	105.00
19—D. A. Bunnell, Lawrence, Neb.	102.50
21—Oscar Peterson, Shickley, Neb.	85.00
26—D. A. Bunnell	85.00
28—G. E. Elliott	102.50
34—Oscar Peterson	65.00
35—Anderson Bros., Davenport, Neb.	57.50
38—Leonard Carlson, Ong, Neb.	37.50

DUROCS

1—C. F. Rudd, Ong, Neb.	95.00
2—A. C. French, Lexington	95.00
6—Martin Hokom, Shickley, Neb.	55.00
7—Elbert Rothrock, Davenport, Neb.	72.50
8—W. F. Long, Davenport, Neb.	75.00
9—Arthur Lubben, Davenport	55.00
10—Alfred Swanson, Shickley, Neb.	65.00
13—B. W. Miller, Davenport	55.00
15—Bank of Raymond, Raymond, Neb.	80.00
16—Amos Frieden, Shickley, Neb.	87.50
18—Albert Tysell, Sutton, Neb.	75.00
20—Nelson Bros., Ong, Neb.	45.00
22—Geo. Schwab, Clay Center, Neb.	45.00
24—Albert Rothrock, Shickley, Neb.	65.00
25—Fred Rohling, Davenport	55.00
27—E. W. Jewell, Davenport	52.50
28—Albert Rothrock	62.50
30—Dr. Dailey, Cambridge, Neb.	65.00
31—J. W. Housel, Raymond, Neb.	65.00
32—F. O. Killion, Davenport	35.00
36—Forkey, Raymond, Neb.	26.00
37—Nelson Bros.	50.00
38—Geo. W. Schwab	45.00
40—Nelson Bros.	52.50

Holt & Sons Have Good Sale.

Holt & Sons, Kearney, Neb., started the North Platte circuit with a good sale. It was a nice day and everything was in perfect readiness. The offering was of the right kind and a good crowd was in attendance. Colonels Putman and Shaver had charge of the sale which they conducted in a most capable manner. After the sale the crowd went to Lexington where they were entertained by the North Platte breeders. Especially interesting were the moving pictures of several purebred herds, which were

POLAND CHINA HOGS.

HILL'S BIG TYPE BRED GILTS

Poland China spring gilts sired by our new 1,000 pound herd boar, King Joe 2d and from big, well bred sows, safe in pig for March and April farrow, to Hill's Col. Jack a wonderful prospect by the $10,200 Col. Jack and from a $575 Big Tim sow.

High kind at low prices; good gilts at $65; choice at $80. Immuned and guaranteed to please.

W. H. HILL, MILO, KANSAS

40 Big Type Poland China

bred sows. 25 bred to Nebraska Evolution by the $25,200 Evolution. Others bred to Giant Again, High-backed Timm and Ring Sensation by the 1204-pound Big Sensation. Write at once for prices and information. Several high class boars.

HERMAN SCHMALE, DE WITT, NEBRASKA.

The Deming RanchPolands

Sows and gilts bred for March and April litters. **As good as they grow.** Bred to Big Bob's Jumbo, Big Jones Again, The Dividend and Kansas Guardsman.

THE DEMING RANCH, OSWEGO, KAN.
H. O. Sheldon, Supt. Swine Dept.

POLAND CHINA BRED SOWS AND GILTS

also fall pigs. We won 49 premiums at the state and county fairs on our 1919 show herd. We show our breeding hogs and breed our show hogs. Satisfaction or money back.

PLAINVIEW HOG AND SEED FARM, Frank J. Rist, Prop., Humboldt, Neb.

BigTypePolandFallPigs

From outstanding sows and by a choice boar from the highest priced gilt at F. Olivier's 1918 bred sow sale. Farmers' prices. Write

RALPH ELY, MULLINVILLE, KANSAS

Boars For Sale at Private Treaty

Choice grandsons of Caldwell's Big Bob (grand champion of world) sired by Black Bob Wonder and by King Bob. Pigged in March, April and May. Immunized.

W. C. HALL, COFFEYVILLE, KANSAS



Poland Chinas

Extra good bred sows for sale; also growthy open gilts and spring boars. Choice weanling pigs, pairs and trios, no akin.

Nebraska Breeders Sales Co., Lincoln, Neb.

Big Type Polands

Have some very choice young boars for sale. Can also spare a few more gilts. Most of the pigs are by Captain Bob.

Frank L. Downie, R. 4, Hutchinson, Kansas

75 Big Type Poland China Fall Pigs

Can furnish pairs or trios not akin. The best of breeding. A few tried sows and gilts. Some good boars. Immune and guaranteed in every way.

ED SHEEHY, HUME, MISSOURI.

Big Black Polands

Spring boars that are heavy boned and have plenty of length $35 to $40. Good, growthy fall boars that are ready to ship $20. All stock registered.

E. M. WAYDE, R. 2, BURLINGTON, KAN.

POLAND CHINA BRED SOWS

One tried sow, two fall yearlings, some top gilts, all safe with pig to farrow in March. Priced to sell.

T. CROWL, BARNARD, KANSAS

Big, Growthy Poland Gilts

bred to the 1200-pound A Longfellow and A Wonder Hercules. **JAMES NELSON, R. I, Jamestown, Kan.**

Purebred Poland Sows and Gilts

bred for early March litters. Also fall pigs of either sex. **A. W. Howell, Macksville, Kan.**

BECKER'S POLAND CHINAS
For sale. Few bred gilts, also fall pigs.
J. H. Becker, R. 7, Newton, Kansas.

3 BIG TYPE POLAND BOARS, serviceable age, $50 each. **Sowers Bros., Dunlap, Kan.**

SPOTTED POLAND CHINA HOGS.

Big Boned Spotted Poland Chinas

THE HOG OF THE HOUR

Bred and raised by a breeder of 35 years experience, A strong line of gilts, either bred or open, especially selected from my large herd. They are beauties, registered and ready to ship to you at attractive prices. Address

WM. HUNT, OSAWATOMIE, KANSAS

O. I. C. HOGS.

40 O. I. C. PIGS, BOARS AND SOWS

HARRY W. HAYNES, GRANTVILLE, KAN.

REGISTERED O. I. C. PIGS FOR SALE
W. K. Mueller, R. 4, St. John, Kan.

O. I. C. BRED AND OPEN GILTS, priced to sell. **E. S. Robertson, Republic, Missouri.**

SHEEP.



FOR SALE

A bunch of registered Shropshire rams, ready for service; priced worth the money.

Howard Chandler, Chariton, Ia.

FOR SALE—95 ewes, 50 lambs, through lambing by Feb. 15. **Adam B. Mai, Wakeeney, Kan.**

shown after the banquet. One of the strong buyers at the sale was D. S. Anderson, Lexington, Neb., who took a Sensation sow bred to Real Sensation at $475, the top price. Following is a representative list of buyers:

Lot No.
18—Stanton Allen, Lincoln, Neb.....$215
17—D. S. Anderson, Lexington, Neb.... 300
16—D. S. Anderson..... 315
14—L. B. Benson, Lexington, Neb..... 195
15—Mr. and Mrs. R. E. Tyler, Lexington, Neb. 170
19—O. A. Carter, Silver Creek, Neb..... 160
20—L. D. Stephens, Smithfield, Neb.... 145
2—Wm. King, Horace, Neb..... 165
3—Wm. King 180
4—Dallas Henderson, Kearney, Neb.... 140
5—A. E. French, Lexington, Neb..... 235
6—W. H. Swartley & Son, Riverdale, Neb. 170
8—Geo. Briggs, Clay Center, Neb..... 135
11—H. D. Gelken, Cozad, Neb..... 185
12—J. C. Forney, Beaver City, Neb.... 260
13—Platte Valley Farms, Kearney, Neb. 200
23—C. T. White, Lexington, Neb..... 165
24—H. D. Gelken..... 110
26—A. Bash, Broken Bow, Neb..... 145
27—D. S. Anderson, Lexington, Neb.... 105
31—Frank Strolberg, North Platte, Neb. 100
33—Stanton Allen, Lincoln, Neb..... 115
28—Frank Westfall, Smithfield, Neb... 100
36—Harvey Deets, Kearney, Neb..... 115
37—Frank Strolberg, North Platte, Neb. 100
39—W. H. Vanmeeter, Williamsville, Neb. 135
Extra—D. S. Anderson..... 310

Labert Durocs Average $219.50.

The H. E. Labert sale, Overton, Neb., was well attended. The offering was the right kind and an average of $219.50 was made. D. S Anderson, Lexington, Neb., was one of the big purchasers of the sale. The top, a High Orion sow, went to J. C. Forney, Beaver City, Neb., at $475. Following is a list of sales:

Lot No.
1—H. J. Hoegh, Hampton, Neb.....$380
2—L. A. Reed, Jacksonville, Ill..... 250
3—W. H. Holtsinger, Kearney, Neb.... 200
4—Stanton Allen, Lincoln..... 155
5—Barnes Bros., Chappell, Neb..... 150
6—A. C. French, Lexington, Neb..... 215
7—M. S. Motley, Pawnee City, Neb..... 250
8—E. S. Anderson, Lexington, Neb.... 255
9—I. E. Stickelman, Clarinda, Ia..... 325
10—H. D. Gelken, Cozad, Neb..... 375
11—L. D. Benson, Lexington, Neb..... 200
13—J. W. Johnson, Sumner, Neb..... 200
14—H. O. Olsen, Sumner, Neb..... 115
15—Tom Costello, Lexington..... 175
16—Dr. Walters, Perry, Mo..... 135
17—L. O. Lewis, Oxford, Neb..... 155
18—Ed Newstrom, Upland, Neb..... 255
20—Mr. and Mrs. R. E. Taylor, Lexington, Neb. 185
23—Farley & Harney, Aurora, Neb..... 200
24—N. G. Hansen, Overton, Neb..... 180
25—R. B. Reynolds, Guthrie Center, Ia. 200
27—A. E. Bindernagel, Beatrice, Neb.. 215
29—Mindermeyer & Son, Tulton, S. D... 140
30—C. T. White..... 115
31—R. W. Johnson..... 140
32—L. D. Stephens, Smithfield, Neb.... 195
34—H. C. Holt, Kearney..... 130
37—L. D. Stephens, Smithfield, Neb.... 205
38—H. C. Mitchell, Lexington..... 130
40—Tempton Bros., Corning, Ia..... 200
43—H. C. Mead & Son, Cozad, Neb..... 110
46—J. C. Forney..... 475
34—L. D. Stephens..... 205
47—D. S. Anderson..... 320
58—O. Carter, Silver Creek, Neb..... 115

Tylers' Reds Attractive

Mr. and Mrs. R. E. Tyler, Lexington, Neb., held their first annual bred sow sale January 30. Forty head sold for an average of $110. This was not a large average according to the quality of the animals sold but as this was the fourth sale held in the sale pavilion that week, the demand was not as strong as it would have been the fore part of the week. Below is a representative list of sales:

Lot No.
30—D. S. Anderson, Lexington, Neb...$135.00
6—Allen Stanton, Lincoln, Neb..... 122.50
3—W. B. Barrett, Lexington, Neb... 100.00
21—W. B. Barrett..... 82.50
14—Arbuckle Bert, Lexington, Neb... 85.00
28—Joe Franklin, Lexington..... 120.00
4—Joe Franklin 92.50
37½—R. C. Fellers, Lexington..... 132.50
31—R. C. Fellers..... 82.50
23—A. C. French, Lexington..... 130.00
19—A. C. French..... 145.00
35—V. E. Gornell, Elwood, Neb..... 80.00
25—V. E. Gornell..... 145.00
40—J. S. Harris, Lauder, Wyo..... 85.00
34—Ray Knudsen, Lexington..... 75.00
Extra—Ray Knudsen 70.00
27½—C. F. Luckett, Lexington..... 100.00
17—C. F. Luckett..... 120.00
7—Long Island Farm, Kearney..... 130.00
33—Burns Murray, Lexington..... 72.50
37—Ralph Mahar, Lexington..... 82.50
39—H. P. Nielsen, Lexington..... 80.00
1—H. P. Nielsen..... 150.00
13—Wm. O'Brien, Cozad..... 85.00
3—A. A. Russell, Geneva, Neb..... 125.00
4—Wilfred V. Stewart, Lexington... 127.50
22—Roy Sarnes, Lexington..... 110.00
26—Warren Reynolds, Lexington..... 72.50
24—D. E. Rosseler, Broken Bow..... 127.50
29—C. T. White..... 107.50
16—C. T. White..... 375.00
9—Robert Wiley, Lexington..... 87.50
8—Robert Wiley, Lexington..... 92.50
18—Ted Wilson, Lexington..... 147.50
10—Ted Wilson 125.00

Putting Herefords on More Farms.

Hereford cattle occupied the first day in the series of big popularizing sales held in connection with the Kansas National Livestock show at Wichita. On January 27 contributing breeders of Herefords put into the hands of new owners, about 150 head of registered breeding cattle. According to the plan originated and followed by Manager Kirk, the forenoon section of the sale was made up of cattle which were either winners or the produce of winning sires or dams. In this section of the sale, 48 Herefords brought $21,535, or an average of $450 per head. The bull section averaged about $625. In the afternoon of the same day, about 100 head of plainer cattle were sold at prices averaging about $200, making between $40,000 and $45,000 for the day's receipts, and putting registered Herefords into more new herds in the great Southwestern territory tributary to Wichita than probably ever have been reached before as the result of one day's selling. Practically every buyer secured good values, altho the sellers likewise profited in the transactions as a rule. The top price of the sale was $2,500, paid by J. F. Smith, Sterling, Tex., for the prize winning bull, Rhone Lad 3d. D. D. Brownback, Hardtner, Kan., bought the top female and one of the bargains of the sale from the consignment of Carl Miller, Belvue, Kan., the purchase being Echo Lass 162d for $900. From these figures, prices ranged to below $200 in the Purple Ribbon section and still lower in the big sale to farmers and breeders in the afternoon. Following is a list of representative sales from the Purple Ribbon offering:

BULLS

Prince Rupert 84th, three years, Joe Smith, Coldwater, Kan.....$ 625
Rupert's Model 6th, one year, Karl Miller, Dodge City, Kan..... 600
Prince Lad 2d, two years, Frank Brown, Byron, Okla..... 750
Rhone Lad 3d, one year, J. F. Smith, Sterling, Kan. 2,500
Gay Lad 71st, two years, C. E. Friday, Medicine Lodge, Kan..... 1,550
Echo Lad 223d, one year, Jesse Croft, Larned, Kan. 210
Bright Lester, one year, Carl Miller, Belvue, Kan. 275
Bonnie Boy, two years, J. D. Whitney, Waldron, Kan. 1,225
Vernet Fairfax 17th, three years, J. C. Studer & Son, Canadian, Tex..... 1,025

FEMALES

Budilene, three years, Carl Miller.....$ 400
Budilene, three years, J. D. Whitney.. 400
Elena Jean, two years, K. R. Garver, Attica, Kan. 435
Beauty Fairfax 3d, eleven months, Frank Brown 800
Formosa 3d, one year, Frank Brown.. 500
Echo Lass 162d, one year, D. D. Brownback, Hardtrer, Kan..... 900
Miss Geneva, two years, K. R. Garver. 250
Echo Lass 178th, one year, D. D. Brownback 325
Miss Perfection 131st, and cow calf, one year, E. Johnson, Pond Creek, Okla. 325
Madera Bond, and bull calf, five years, H. Goerman, Medicine Lodge, Kan.. 525
Bonnie Dina, two years, J. W. Farmer, Edna, Kan. 220
Miss Onward 73d, one year, Harry Rutter, Jetmore, Kan..... 235
Princess D Best, seven years, K. R. Garver 330
Millie, one year, R. H. Hazlett, El Dorado, Kan. 350
Orene Fairfax, one year, F. Luther, Cimarron, Kan. 400
Baby Fairfax, eleven months, James, Gallup, Pond Creek, Okla..... 435
Princess, one year, K. R. Garver..... 425
Harriet 3d, seven years, J. D. Whitney 525
Dolores 4th, seven years, James Gallup 450
Jeanette, six years, J. D. Whitney.... 360
Malinda, three years, W. S. Jones, Jefferson, Okla. 210
Miss Wilton 2d, three years, E. E. Lillian, Lindsborg, Kan..... 240
Bessie, three years, James Gallup.... 225
Rose and bull calf, three years, W. G. Combs, Pond Creek, Okla..... 275

Shorthorn Sale on Broad Basis.

More buyers than ever before have participated in a Shorthorn sale in Kansas were recorded in the clerk's book at the close of the all day sale of Shorthorns held in connection with the Kansas National Livestock Show at Wichita. The advertising of the show and sale had been done almost exclusively in Kansas and Oklahoma and almost the entire offering went to these states. About 160 Shorthorns, ranging from highly bred show animals to plain young cattle of the cheaper sort were sold for a tota in

50 Bred Poland Females of Royal Blood

Comprise the great annual bred sow offering of Isaac F. Tyson & Son to be held at

Harrisonville, Mo., Friday, February 20

The sires represented in this offering of royally bred sows and gilts include Liberator, Repeater, Buster Defender, Captain Jack, Bob's Equal, Big Mastodon, Mellow Timm and other sires of national reputation. They are bred to

Clan's Model by The Clansman

Bob's Equal by the grand champion, Bridge's Bob Wonder

Tyson's Improver by Big Improver

three boars of rare individuality and breeding—as good as can be found on any one farm in Missouri. Here is the place where you can buy the blood of the breed's best boars carefully mated to three outstanding sires. Entire offering immune. Send for the catalog.

Isaac F. Tyson & Son, Harrisonville, Mo.

J. P. Bennett will represent The Capper Farm Press.

GALLOWAY CATTLE.

Jno. P. Reilly & Sons
Quality Galloways
For sale—10 bulls, coming two years old. 15 bull calves, six to eight months. 60 females to select from, 6 months old heifers to young cows. Address
Jno. P. Reilly & Sons, Emmett, Kan.
7 miles north of St. Marys, main line U. P.

REGISTERED GALLOWAYS. Bulls, cows or heifers. **Fashion Plate, Silver Lake, Kan.**

REGISTERED GALLOWAY BULLS for sale. **Walter Hill, Hope, Kansas.**

AT ONCE Will sell to first party 1 registered black Percheron stallion, coming 4 years old, price $690; 1 registered black Percheron stallion, coming 2 years old, price $190; 8 registered Red Polled bulls, $75 to $150; 10 registered Durocs at ½ price. All the above are bred right, sound and good ones.
C. C. FEEMSTER, GENTRY, ARKANSAS

Elk Grove Polands

At the Sale Pavilion

Logan, Iowa, February 19, 1920

12 Tried Sows that have proven good producers, many of which are outstanding individuals, such as Lady Timm as good a sow as will go into the sale ring this season, Woodbine Beauty 2d, a sow of rare quality and a daughter of Giant Ben by Big Ben, Lady Good, a full sister to Predominator, and a show sow.

13 Fall Gilts sired by Gerstdale Warren the great boar that was at the head of the Kibbler & Binnell herd at Woodbine, Iowa, and they are as good individuals as he ever sired, and by Big Long Bob 2d, a boar that I have used and that has done me much good in my herd, these are all well grown and will make money for the man that gets them.

15 Spring Gilts, four of which are sired by Woodbine Crusader, and we would like to draw your attention to these four gilts, they are about the nicest, spring gilts that go into a sale anywhere this year, and they show what this great boar is doing, and the rest are sired by Gerstdale Warren, the Kibbler and Binnell boar, and that means that on spring gilts we have the equal of any.

The entire offering is bred to either **Woodbine Crusader or Gerstdale Giant,** and we do not know where you would go to find two better boars in one herd, and when you see the class of stuff they are producing you will feel that you can well afford to own a sow or gilt bred to one of these boars.

The entire offering has been treated and should be immune.

Write me for catalog, and if you cannot attend the sale make arrangements to have your interests taken care of by H. P. Steele who will represent this paper, and will give your instructions his careful attention.

Frank Rainier, Logan, Iowa

M. H. Cruise, Auctioneer.

Glenwood Farm's Poland Chinas

Offered in our 14th annual sale in the new $20,000 heated sale pavilion at

Paola, Kansas, Saturday, February 14th

50 HEAD

15 big, tried sows, 35 large spring gilts, the result of our 25 years breeding for large litters. These are the "make good" kind for farmers and breeders. By such sires as King Wonder 2nd by Big Bob Wonder, Wonder Joe by Giant Joe, Model Big Jones by Big Jones, Giant Big Ben, Buster Giant and Equality Bob by Bob's Equal by Bridge's Bob Wonder.

The 15 sows have raised big litters of good pigs for us. They are bred to Equality Bob and Timm's Orange. Among the attractions are 15 large spring gilts by Equality Bob and bred to Glenwood Chancellor by The Chancellor. Several good gilts by The Chancellor, Giant Bob, Model Big Jones and Buster Giant; all bred for early litters and safe. This is the best offering we have ever sold.

P. L. Ware & Son, Paola, Kan., will consign 10 large spring and fall gilts of very fashionable breeding.

Remember the sale will be held at Paola, Kan. There are three good rail connections. The catalogs are ready and will be sent for the asking. Please mention this paper when writing.

C. S. Nevius & Sons, Chiles, Kan.

Auctioneers—Cols. R. L. Harriman and H. M. Justice.
O. W. Devine will represent Kansas Farmer and Mail and Breeze.

Poland China Farmers and Breeders

An offering of 40 bred sows and gilts, combining splendid size with quality.

Sale at the fair grounds sale pavilion

Concordia, Kan., Saturday, Feb. 14

7 tried sows, as good as we are keeping. Four fall yearlings and good ones, granddaughters of Big Bob Wonder. 28 spring gilts that have been well grown and carefully handled. They are mostly by Monarch 2nd by Big Monarch and out of sows by Timm 3rd, full brother to Fessy's Timm. Others by Henry Expansion, litter mate to Big Gun, Expansion C, who is a litter mate to Panorama by Expansion. The entire offering bred to Big Monarch, Progressive Prospect, Model Giant and Orange Bud and Monarch 2nd.

An offering we can guarantee to please you. Orders to buy should be sent in our care to J. W. Johnson, Concordia, Kan.

Catalogs ready. Address either

R. B. Donham, Talmo, Kansas
or Carl Jansen & Son, Belleville, Kansas

Auctioneers—Jas. T. McCulloch, Clay Center, Kan., and others.
J. W. Johnson, fieldman, Capper Farm Press.

Real Attractions

will feature the Poland bred sow sale of Henry Koch to be held at

Edina, Missouri, February 18th

50 Carefully Selected Females



Five tried sows that have been good producers; 25 large fall yearlings; 18 choice spring gilts; 2 spring boars. 15 gilts are sired by Missouri Jumbo and bred to White Oak Wonder or Surprise Wonder. 8 choice gilts are by Koch's Jumbo.

Among the greatest attractions are—Nos. 1, 2 and 3, they are litter mates to Koch's Jumbo, one of my chief herd boars; No. 6, 7, 8, 9, 10 and 11 in the catalog are by Oak Wood Jumbo and are exceptionally good. This is the best offering I have ever sold and I am anxious for you to receive my catalog giving full information concerning the sale offering and the herd from which they are drawn. Send for one today, mentioning this paper, and come to my sale.

HENRY KOCH, EDINA, MISSOURI

Auctioneers—Cols. Will G. Lockridge and Fred Groff.
O. W. Devine represents The Capper Farm Press.

Wilcoxen & Porter's BRED SOW SALE

Bowling Green, Mo., Feb. 16

50—Splendid Individuals. The Best of the Breed.
25—Big Rugged, Stretchy, High Backed Tried Sows.
10—Head Big Type Fall and Spring Yearling Gilts.
15—Of the Breed's Most Popular Bred Spring Gilts.
10—Granddaughters of Great Wonder I Am, All Real Attractions.

Daughters of Cherry Chief's Pride, Great Wonder, Top Sensation, Big Cherry King Orion, Great Wonder Jr., Great Sensation, Pathfinder, Great Wonder's Giant, Sensation Climax, Jack's Friend and Orion Cherry King's Friend.

They will be bred to Orion Cherry King's Friend, Cherry Chief's Pride, Peter Pan and Greater Orion Sensation.

Some Great Attractions

I believe that Wilcoxen & Porter will sell some of the biggest attractions to go through a sale ring in 1920. They will sell a daughter of "Great Wonder" that is hard to fault. The entire offering is of a caliber rarely seen in any sale and bred, as they will be, to "Orion Cherry King's Friend," they should prove great investments. Most people with a boar like "Orion Cherry King's Friend," would be blowing their heads off about him. I do not believe a greater sire of the "Orion Cherry King" family lives today. He is putting the stretch, bone and quality into his get as few boars are able to do. It is mighty good foundation stuff to place in your herd. Signed O. W. DEVINE.

The offering is immune. WRITE FOR CATALOG. Send your mail orders to O. Wayne Devine if you cannot attend the sale. We guarantee he will please you.

WILCOXEN & PORTER, Bowling Green, Mo.

Col. F. M. Holtsinger, Auctioneer.

the neighborhood of $60,000. The forenoon section of the sale, known as the "Purple Ribbon" section, to which were consigned only prize winners or animals sired by prize winners, showed a total of $38,085 for the 54 head, the average being $705.20. In this sale the top price paid was $1,475, paid by W. C. Wood, Lawton, Okla., for an extremely well bred Cruickshank Lavender cow, consigned by H. B. Gaeddert, Buhler, Kan. From this figure, prices ranged down to $260 for a young bull and there were bargains scattered all thru the sale. The results of this sale have, without question, justified the policy of the Kansas National in providing large offerings, including animals to fit the needs and pocketbooks of every class of buyer. So large a number of cattle, necessitated extremely rapid selling and of course an occasional sacrifice was made, but the sale as a whole was a great success. In the appended list, we give only the representative transactions from the Purple Ribbon section of the sale.

BULLS

Lavender Hampton, two years, F. H. Ewing, Pawnee Rock	$ 800
Crimson's Lad, one year, McGrath Bros., Kingman, Kan	575
Vain Marshal, one year, Geo. Hildenger, Nash, Okla	950
Happy Day, one year, M. T. Hargiss, Manhattan, Kan.	775
Lavender Corporal, one year, Dr. Hays, Claremore, Okla.	900
Proud Beau, one year, Edw. Cook & son, Freeport, Kan	310
A. L. Cumberland 3d, eight months, L. C. Wicks, Cassoday, Kan	675
Koulet, one year, C. S. Nevius, Chiles, Kan.	325
Village Emblem, eleven months, E. A. Dowel, Welch, Okla	2,100
Ardmore Pride, nine months, Clarence Leidy, Leon, Kan	825
Dale Cumberland, one year, J. T. Mace, Salt Fork, Okla	300
Silver Cumberland, one year, E. E. Sheets, Braman, Okla	260
Viscount's Heir, one year, J. P. Ray, Lewis, Kan.	410
Royal Cumberland, one year, O. W. Hopper, Haven, Kan	310

FEMALES

Roan Geraldine, one year, John Kramer, Tulsa, Okla	1,225
Lavender Princess 7th, ten years, W. C. Wood, Lawton, Okla	1,475
Buttercup 3d, seven years, A. J. Morris, Anadarko, Okla	500
Rosewood Lancaster, two years, W. H. Gilkey, Chickasha, Okla	1,225
Pleasant Butterfly, three years, W. H. Gilkey, Chickasha, Okla	825
Mysie 62d, one year, W. C. Woods, Lawton, Okla.	1,125
Supreme Lady 2d, one year, A. J. Morris, Anadarko, Okla	325
Daisy Dean, one year, Zahn & Son, Fargo, Okla.	375
Daisy Lavender, one year, Zahn & Son, Fargo, Okla.	375
Clara 32d, 11 months, J. F. Hill, Anthony, Kan.	650
Rosewood Spray 2d, one year, W. C. Wood, Lawton, Okla	1,025
Diamond La Belle, two years, W. C. Wood, Lawton, Okla	1,250
Jehu's Emerald 2d, four years, A. J. Morris, Anadarko, Okla	1,050
Calf out of Jehu's Emerald 2d and by Roan Look, A. J. Morris, Anadarko, Okla.	850
Lady Orange Blossom 4th, ten years, Park E. Salter, Wichita, Kan	1,400
Orange Barmpton 5th, seven years, Jake Alderson, Nash, Okla	975
Little Queen, two years, W. H. Gilkey, Chickasha, Okla.	400
Red Lady, five years, W. H. Gilkey, Chickasha, Okla.	650
Violet Mysie, two years, Kelly & Mitchell, Gardner, Kan	425
Miss Cumberland, two years, W. C. Woods, Lawton, Okla	875
Bashful, one year, Park E. Salter, Wichita, Kan.	725
A. L. Violet, one year, E. J. Howry, Halstead, Kan.	625
Violet Lovely, four years, W. C. Woods, Lawton, Okla.	875
Sittyton Lovelace, one year, John Potter, Harper, Kan	700
Village Emma 46th, one year, John Kramer, Tulsa, Okla	1,450
Roan Ruby, ten years, H. E. Huber, Meridan, Kan.	285
Lena Rice, four years, Venal Zahn, Fargo, Okla.	450
Tulsa's Marchioness, two years, L. F. La Force, Pond Creek, Okla	1,200

Kansas National Holsteins Average $402.

60 females averaged	$436
7 bulls averaged	221
6 calves averaged	214
71 head averaged	402

Holstein-Friesians at the big "Kansas National" at Wichita last week were the big attraction so far as livestock went. There were 250 head of Holsteins in the Holstein division and the sale Friday was well attended. The 71 head sold with the above results. Empress Wayne Gurban, a fine 6-year-old cow, first and grand champion the day before, sold for $1,300 to the A. & M. college, Stillwater, Okla. She was exhibited by Mott Bros. & Branch, Herington, Kan., and consigned to the sale by them. The sale was one of the best ever held in the state and most of them remained in Kansas with a few going to Oklahoma and Missouri. Below is a partial list of the buyers:

Spotty Hengerveld Kitty, November 1917, Gasell, Wichita	$325
Victoria Colantha Constantyn, September 1918, M. W. Ryan, Kremlin, Okla.	305
Thilda De Kol Alcartra, October 1907, R. E. Bausman, Independence, Kan.	200
Wayne Juliana De Kol, July 1918, J. F. Gasell	240
May Jolie Fayne De Kol, November 1917, Bert Miller, Furley, Kan	300
Edith Francisco Ormsby Mechtilde, February 1919, J. M. Youngmeyer, Wichita	290
Bull calf, March 1919, J. F. Lloyd, Wichita	400
Francis Jane Walker, February 1918, C. T. Butts, Mulvane, Kan	500
Topsy Lyons Hengerveld, December 1912, Haley & Thomas, Andover, Kan.	300
Sunny Pride De Kol 3rd, October 1915, G. G. Schneyder, Fargo, Okla	530
Ellen Pontiac Champion, June 1917, Mullinville, Kan.	260
Jolie Orleans Pietertje, September 1918, J. F. Youngmeyer	410
Gilder Canary 2nd, September 1912, M. V. Ryan, Kremlin, Okla	330
Lucy Gerben De Kol, May 1915, Walter Cravens, Wichita	305
Senora Lulu De Kol, April 1916, Axtell & Hershey, Newton, Kan	420
Segis De Kol Johanna 2nd, September 1912, J. E. Keyes, Wichita	800
Artasia Netherland Artis, October 1912, F. E. McClure, Aurora, Mo	320
Sadie Friend Segis, February 1913, W. H. Mott, Herington, Kan	680
Belle Houwtje Johanna, May 1913, Greenwood Dairy, Greenwood, Kan	320
Keep On Johanna 2nd, March 1913, F. H. Bock, Wichita	700
Pauline Ursena Colantha, May 1915, F. H. Bock	440
Clothilde Korndyke of Home Farm, August 1916, G. E. Stucky, Wichita	460
Juliana Pauline Betsy of Rock, September 1914, Haley & Thomas	475
Kansas Star Grance, October 1915, Walter Cravens	525
Alma Clothilde Kuperus 3rd, January 1913, Victor Stuewe, Alma, Kan	800
Calmia Alban De Kol 2nd, November 1914, G. L. Squares, Chandler, Okla.	300
Josie Segis Watson, April 1914, G. B. Shoemaker, Haysville, Kan	300
Rose Eldora Korndyke, February 1918, W. J. Cook, Pratt, Kan	215
Hanna Colanthus Korndyke, February 1918, O. G. High, Derby, Kan	350
Dutchess Dorthy Pietertje, November 1915, John Barth, Harper, Kan	590
Jane Pontiac Mooie, March 1915, John Marriage	550
Meadow Holm Pontiac, October 1916, G. G. Schneider	500
Jessie Vokolina Hengerveld 3rd, October 1915, J. F. Gasell	555
Sweetbrook Denver Nymph, November 1917, Geo. W. Hood, Oswego, Kan	315

C. T. White & Son Have Good Sale

C. T. White and Son's night sale of Duroc hogs and Shropshire sheep was a decidedly successful one. The average on the 48 head of bred sows was $233.33. The offering was bred largely to the Pathfinder boar. One Orion Cherry King sow bred to Royal Pathfinder had many interested parties up to the $1,000 mark. She went to Grabert & Neujahr, Gresham, Neb., at $1,825.00. One of the big buyers of the sheep was Mrs. E. J. Lamb, Tecumseh, Neb. Following is a list of the buyers:

DUROCS

Lot No.	
26—H. F. Grabert & Sons, Broken Bow, Neb.	$ 290.00
27—Glen Houston, Allerton, Ia.	270.00
29—D. S. Anderson, Lexington, Neb.	290.00
28—P. E. Roessler, Broken Bow, Neb.	360.00
1—Grabert & Neujahr, Gresham, Neb.	1,825.00
25—Fred Lyden, Minden, Neb.	495.00
35—D. S. Anderson	325.00
39—L. E. Stickelman, Clarinda, Ia.	260.00
40—Murray H. Putman, Hersman, Ill	200.00
45—Roessler & Grabert, Broken Bow, Neb.	580.00
2—L. B. Stephens, Elwood, Neb.	310.00
3—R. E. Tyler, Lexington	320.00
6—Bingell Bros., Overton, Neb.	180.00
9—H. C. Holt, Kearney, Neb.	180.00
8—Griffith Bros., Mound City, Mo.	220.00
7—Barnes Bros., Chappell, Neb.	185.00
16—J. C. Forney, Beaver City, Neb.	230.00
18—Adam Urish, Green Valley, Ill.	330.00
17—Fred Lyden, Minden, Neb.	210.00
19—H. F. Grabert & Son, Broken Bow, Neb.	145.00
37—P. E. Roessler, Broken Bow, Neb.	190.00
32—Geo. Armstrong, Big Springs, Neb.	155.00
34—J. W. Putman, Hersman, Ill.	145.00
41—E. J. Satterwhite, College View, Neb.	130.00
38—A. B. Ash, Broken Bow	125.00
51—Dyth Putman, Tecumseh	150.00
42—Roy Pickett, Logan, Neb.	105.00
43—L. C. Smith, Tobias, Neb.	82.50
46—Frank Blackman, Tarkio, Mo.	90.00
48—Blair May, Hayes Center, Neb.	80.00
24—H. C. Holt	100.00
44—Stanton Allen, Lincoln	125.00
30—Platte Farm, Kearney, Neb.	210.00

SHEEP

Twenty head averaged $50.27.

51—Bud Labert, Overton, Neb.	62.50
54—Guy A. Temple, Lexington, Neb.	75.00
60—Wm. Brell, Lexington, Neb.	40.00
67—Arthur Smith, Lexington	60.00
57—Mrs. E. Lamb, Tecumseh	70.00
63—Mrs. E. Lamb	55.00
66—Max McCartney	40.00
64—Arthur Smith, Lexington	47.50
69—Bud Labert	47.50
58—Guy Temple, Lexington	52.50
70—J. O. Anderson, Lexington	50.00

Field Notes

BY JOHN W. JOHNSON

Vail & Scott, Pomona, Kan., are offering some good rugged young Shorthorn bulls for sale. They also offer their herd bull, Beauty's Lad 447897.—Advertisement.

Orin R. Bales, R. 4, Lawrence, Kan., is offering two exceptionally well bred Holstein bulls for sale. They are ready for service. Look up his ad in this issue.—Advertisement.

F. D. Wiggins, Lawrence, Kan., sells 42 head of high-grade cows and heifers, mostly young and right in every way at his farm near Lawrence, Monday, February 9. That is next Monday.—Advertisement.

H. C. Graner, Lancaster, Kan., starts his Shorthorn card in this issue. At this time he is offering four Scotch and Scotch topped bulls and some good females with calves by sides. If you are interested in Shorthorns write him about these good husky individuals.—Advertisement.

Edw. L. Hutchins & Sons, Salina, Kan., will sell their entire dairy herd at the farm four miles east and two miles south of Salina, Tuesday February 24. Everything in the way of dairy cattle goes and the sale is advertised in this issue of the Kansas Farmer and Mail and Breeze. Look it up and write them for further information.—Advertisement.

J. W. Taylor, Clay Center, Kan., proprietor of the Cherry Vale Angus breeding farm at that place, starts his advertisement again in this issue of the Kansas Farmer and Mail and Breeze. He offers for sale six choice young bulls from eight to 23 months old, also his herd bull Roland L, a bull of great value and as Mr. Taylor is thru with him he will sell him reasonably.—Advertisement.

Poland China breeders and farmers are invited to attend the R. B. Donham and Carl Jansen & Son sale of Poland China bred sows and gilts in the sale pavilion at the fair grounds, Concordia, Kan., Saturday, February 14. In this sale there will be 40 sows and gilts, bred and combining great individuality and scale. Popular breeding is contained in this catalog and with the solid foundation of Expansion breeding that is always popular with those who appreciate the larger kind. In this sale you will be able to buy spring gilts of the very best;

CHESTER WHITE HOGS.



I HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from my great herd in every community where I am not already represented by these fine early developers—ready for market at six months old. Write for my plan—"More Money from Hogs."
G. S. BENJAMIN, R. F. D. 1 Portland, Michigan

For Sale Chester Whites
Most Popular Blood Lines
Few choice last spring boars also few last September boars sired by son of Wm. A.-Miss Lenora 4th, both grand champions. Also will sell few bred gilts, Wm. A. blood, bred to son of Wildwood Prince Jr. The offspring will represent the two most popular blood lines of Chester White breeding of today. Write
E. M. Reckards, 817 Lincoln St., Topeka, Kan.


Chester Whites
Extra good bred sows for sale; also growthy open gilts and spring boars. Choice weanling pigs, pairs and trios, no akin.
Nebraska Breeders Sales Co., Lincoln, Neb.

Herd Boar Material
10 September boars by Don Tip Top and Don Combination. I want to move them in the next 30 days.
ARTHUR MOSSE, LEAVENWORTH, KAN.
Kansas Herd Chester White Hogs.

PRINCE TIP TOP CHESTER WHITES
The big kind that have proven their worth. We can fill your wants for anything in better Chesters. Prince Tip Top heads the herd.
HENRY MURR, TONGANOXIE, KANSAS

CHESTER WHITES Choice fall boar pigs, and a few bred gilts. E. E. SMILEY, PERTH, KANSAS.

SUNFLOWER HERD CHESTER WHITES
Bred sows and gilts; boar pigs; priced right.
C. H. Cole, North Topeka, Kansas

CHESTER WHITE BOARS AND GILTS
For sale. Sired by Bob Tip Top. Best of breeding. W. H. Lynch, Neosho Rapids, Kan.

HAMPSHIRE HOGS.

Hampshire Bred Sow Sale
Our offering was select last year, this year it is 50% better. You will want to attend this sale.
Cameron, Missouri, March 3, 1920
A choice lot of sows and gilts bred to General Pershing, the undefeated grand champion of 1919. Our other herd boars: Luna's Nehawka Lad by Nehawka Lad and out of Luna F. R.; Thurman Lieutenant by Lieut. Wickware and out of Mountain May.
Send for the catalog, mentioning this paper.
C. I. Ward, Cameron, Missouri


Whiteway HAMPSHIRES
On Approval
Special short time prices on bred sows and gilts. Popular breeding. Special fall pig offer.
F. B. Wempe, Frankfort, Kan. (Marshall County)

Large Type Hampshires
Have a few choice bred gilts and some fall pigs of either sex. All sired by the great wonder boar, WEMPE'S KID 64363. Pedigrees furnished.
ROBERT WEMPE, R. 2, SENECA, KANSAS


HAMPSHIRES
Extra good bred sows for sale; also growthy open gilts and spring boars. Choice weanling pigs, pairs or trios, no akin.
Nebraska Breeders Sales Co., Lincoln, Neb.

MESSENGER BOY HAMPSHIRES
200 registered and immuned hogs. Write
WALTER SHAW, R. 6, WICHITA, KANSAS

Hampshires—Spotted Polands
Boars of both breeds, ready for service, $30 to $50. Also bred sows and gilts of both breeds.
C. W. WEISENBAUM, ALTAMONT, KAN.

DUROC JERSEY HOGS

TIMBER HILL STOCK FARM
Big, smooth Duroc bred gilts and fall pigs. Gilts by Valley King the Col. (actual weight 960 pounds) and Pathfinder Enuff by Pathfinder Chief 2nd; bred to Orion's King and Pal's Orion. These are the big, stretchy kind. Write for illustrated circular. Breeders of Durocs for 25 years.
Lant Bros., Dennis, Kansas

WHEN WRITING TO OUR ADVERTISERS PLEASE MENTION THIS PAPER.

a few fall yearlings and seven tried sows that are as good as they are keeping at home. The 28 spring gilts will please you and you better come to the sale.—Advertisement.

D. S. Engle & Sons, Abilene, Kan., will sell a splendid lot of high-grade Holstein cows and heifers at their farm near there, February 11. It is a sale of real merit Holsteins that are from the well known herd of D. S. Engle & Son. This herd is a member of the Dickinson county Pioneer Cow Testing Association and milk and butter records will be furnished sale day. They are ready to mail you their catalog as soon as you ask for it. Write them today. Turn to their advertisement in this issue. It is a big offering and a good one.—Advertisement.

Holstein-Friesian breeders and farmers who want Holstein cows, purebred or grades, should be at the J. W. Meyer sale at the farm a short distance north of Nortonville, Kan., Thursday, February 12. In this sale Mr. Meyer will sell a splendid lot of purebred cows and heifers and some good milking strains in high grades. It is a big removal sale as Mr. Meyer has purchased a fine farm near Valley Falls where he has not yet sufficient room for dairy cattle. He has engaged W. J. O'Brien, Tonganoxie, Kan., to manage the sale and the catalogs are ready to mail. Address either Mr. Meyer at Nortonville or sale manager, W. J. O'Brien, Tonganoxie, Kan. Look up the advertisement in this issue.—Advertisement.

L. L. Humes, Glen Elder, Kan., and W. W. Jones, Beloit, Kan., are advertising their combination sale of Duroc Jersey bred sows and gilts in this issue of the Kansas Farmer and Mail and Breeze. These Mitchell county breeders have made selections from their herd and will offer 50 head of Duroc Jerseys of the kind and quality that will give those looking for something good an opportunity to buy either bred sows, boars or choice pigs of last fall farrow. The blood of Orion Cherry King predominates in the sale in both offerings. The sale will be held in Glen Elder, Tuesday, February 10 and the advertisement appears in this issue. Look it up and write either of them immediately for the catalog which is ready to mail. The sale will be held in comfortable quarters. The Missouri Pacific morning train arrives there in the forenoon and returns in the evening, going both east and west.—Advertisement.

Poland Sale at Topeka.

A public sale of Poland China bred sows and gilts which will let buyers in on a low basis will be held February 17 in North Topeka (1012 North Kansas Ave., Topeka, Kan.). This is the annual sale of Updegraff & Son, who grow their hogs largely on alfalfa and sell them in plain condition at plain prices. The advertisement elsewhere gives full particulars, but you want a catalog, especially to see the big type breeding of their herd boars. Mention this paper when writing for it and address Updegraff & Son, R. 6, Topeka, Kan.—Advertisement.

Shorthorn Dispersion

Warren Watts, Clay Center, Kan., is dispersing his Shorthorn herd at private treaty and he invites your inspection of the collection he has for sale. The herd consists of one herd bull, Brilliant Type by Cumberland Type, 15 Scotch topped cows, 12 of them heavy with calf, and one Scotch cow with a 3-months-old calf. Mr. Watts has 12 young bulls for sale also, ranging from six to twelve months old. Full information about these cattle will be furnished on request or, better still, arrange to inspect this herd. Arrangements will be made to meet you at the train.—Advertisement.

Read the Advertisement.

Have you read the advertisement of Gwin Bros., Morrowville, Kan., which appears in this issue of the Kansas Farmer and Mail and Breeze? There will be 50 bred sows and gilts in this sale that you want to know about if you want to buy topliners at moderate prices. These bred sows and gilts carry the blood of the great sires and dams of the breed and will sell in this Kansas sale for prices far below what their sisters, (not any better) bring in northern and eastern sales. This is your opportunity to buy the best and at prices that will be moderate. It is a great offering. The sale is in Washington, Kan., in a big sale barn where you can drive your car right in and stay until the sale is over. The sale is Thursday, February 19. Write for the catalog right now and get it by return mail. Look up the advertisement in this issue.—Advertisement.

Moser Sells 50 Durocs.

Fern Moser, Sabetha, Kan., sells his 50 great sows in auction at that place, Wednesday, February 18. It is the greatest offering Fern Moser has made to date and you want to remember this, Mr. Moser's ambition is to build up his herd to the highest possible degree of perfection and likewise to assist in making Kansas and the southwest the greatest Red hog territory in the corn belt. He is parting with sows that, possibly he should keep to produce the kind that will quickly enable him to realize his ambition. But a distribution of this class of sows will do a great deal to further the interests of the great breed. The sale is Wednesday of next week and you still have time to get the catalog if you write at once. Don't fail to attend the sale. Look up the advertisement in this issue of the Kansas Farmer and Mail and Breeze.—Advertisement.

Home-Coming Sale

John W. Jones, Minneapolis, Kan., is holding his big Feb. 26 sale of Duroc Jersey bred sows at Concordia, Kan. In this sale he is selling 50 bred sows and gilts which have been selected from over 100 head. The sale will be chuck full of attractions and Mr. Jones makes the statement that this offering contains more attractions than any sale he has ever made. It is a smooth even lot of sows and gilts with symmetry of form and type combined with great size. The offering is bred to herd boars of great merit and only those of real up-to-date breeding. It is 20 years since John W. Jones started breeding Duroc Jerseys at Concordia, Kan., and he is taking a real pride in coming "back home" with an offering any breeder could be proud of. It is a real pleasure for me to recommend this good offering that Mr. Jones has reserved for his "old home town" folks. The sale will be held in the Barrons House barn and the Barrons House will be headquarters for all of those attending the sale. You are invited to come and

Breeding and Individuality
combined are found in the great Durocs selected for
WOODDELL AND DANNERS' BRED SOW SALE
Winfield, Kansas, February 18th

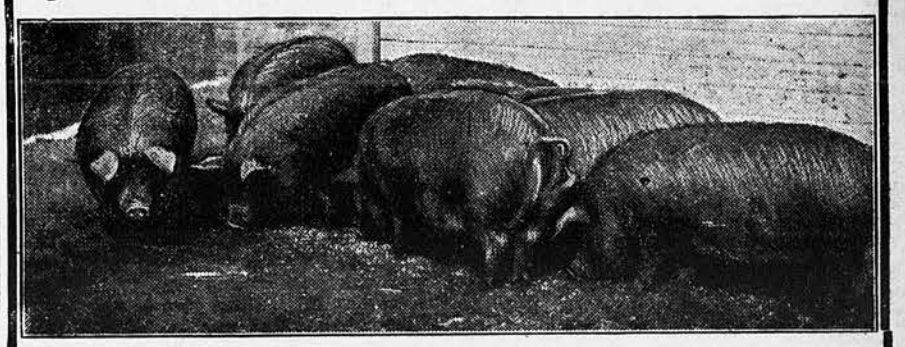
40 Sows sired or bred to the following great boars of the breed—
Chief's Wonder; Chief's King (junior champion of Kansas 1919); Pathfinder Jr.; Orion King's Illustrator; Z's Orion Cherry; I Am Great Wonder; and Orion Cherry Joe 3rd.

This offering will appeal to the real hog sense of any breeder or farmer. They are good sows and gilts, well bred, well grown, bred to great boars and ready to make money for you.

Write today for the catalog mentioning this paper and addressing either

G. B. Wooddell or T. F. Danner
Winfield, Kansas
Auctioneers—Snyder, Hoover and Huston.
J. T. Hunter will represent The Capper Farm Press.

H. W. Flook & Chas. Pedigo
will sell a great line up of bred Duroc females at
Stanley, Kan., February 21, 1920
40 large spring gilts bred to the great boars: Van's Col., Beautie's Orion 3rd, Faultless by Lincoln Chief and other good ones.


A Sample of Our Offering.

We are selling an extra fine bunch of sows and gilts sired by Commander's Wonder, H & B's Pathfinder, Flook's Col., and other good boars and out of sows by I Am Golden Model 2nd, Longview's King the Col., and Commander's Wonder. This is positively the best offering of Duroc sows and gilts to be sold in eastern Kansas this season. Some wonderful granddaughters of the mighty Pathfinder will be sold. Van's Col by Van's Orion Cherry King at the head of the herd. Write for catalog, mentioning this paper. Send mail bids to O. W. Devine in our care.
Come to our sale. We guarantee a good offering of well bred Durocs.
H. W. Flook & Chas. Pedigo, Stanley, Kan.
Auctioneers: Cols. Homer Rule and J. E. Jamison

Missouri Grand Champion Durocs
40 Bred Gilts from my State Fair Premium Sows. They are bred for March and April litters to the Best Son of **Jack's Orion King 2nd.** I offer in this lot last year's 3rd prize futurity gilt; also the 2nd prize futurity litter. Priced to sell quick. Don't delay if you want good Durocs.
CHAS. L. TAYLOR, OLEAN, MISSOURI

Duroc Sows for Capper Boys
and you! Dandies, safe in pig to Bonnie Orion 322955. Get choice by ordering now. Write today for free circular.
Searle & Searle, R. 15, Tecumseh, Kansas

McComas Durocs
Spring Boars All Sold. Have some fine fall boars by sons of Sensation and Pathfinder, out of sows sired by champions. Herd boar prospects. The rugged kind for farmers. All immune.
W. D. McCOMAS, Box 455, WICHITA, KAN.

A Few Extra Good Big Type Duroc
Sows and gilts of Pathfinder and Orion breeding. Bred for spring farrow. Priced reasonable.
WM. HAMBLIN, ALMA, KANSAS

BRED DUROC SOWS
of Orion breeding and bred to high class boars. Prices reasonable.
R. F. WELLS, FORMOSO, KANSAS

DUROC JERSEY bred gilts. Bred for March and April farrow, to Joe Orion Cherry King 2nd and First Quality boars with size and quality. R. T. & W. J. Garrett, Steele City, Neb.

CONYERS'
Profitable Durocs

I will offer in my annual bred sow sale to be held at 1:30 P. M. at the skating rink

Marion, Kan., Friday, February 20

50 Bred Females; 2 Boars

These are good individuals, well bred and will be sold in good breeding flesh. They include:

6 tried sows of Colonel and Wonder breeding. They are proven profit producers.

44 spring gilts—10 granddaughters of King the Col.; 5 of Royal Grand Wonder breeding; 6 of King the Col. breeding out of a Graduate Col. sow (she by High Orion and a half sister to the Zink Farms herd boar) are exceptionally good; 7 by Red Cross Pathfinder; 10 by Royal Critic and 2 Defender-King the Col. gilts.

These good Duroc females are bred to the three herd boars

Valley Pathfinder, King Conyers, Royal High Wonder

Valley Pathfinder is by the Mighty Pathfinder and out of Valley Girl by Valley Col., the grand champion at the 1919 Illinois state fair. He is an April, 1919, pig, looks like his daddy and is making a real boar. We bought King Conyers in Iowa. He is by King the Col. and we consider him one of our best breeding boars. Several gilts in the sale are sired by him. Royal High Wonder is by Royal Grand Wonder (placed in first place at the 1917 Kansas state fair); he is by Great Wonder and out of Royal Orion Girl by High Orion.

Royal High Wonder sells. He is a March, 1919 boar and a good one. The other boar listed is a litter mate to Valley Pathfinder.

The entire offering is immuned by double treatment. They will make you money as they make money for me, being handled under ordinary farm conditions.

Catalogs are now ready. Send for yours today, mentioning this paper to,

B. W. Conyers, Marion, Kansas

Attend the Anderson sale on the same trip.

McCulloch and McLinden, auctioneers. J. T. Hunter represents The Capper Farm Press.

McBRIDE'S DUROCS
Bred Right—Grown Right
50—Head of Choice Sows and Gilts—50

The Kind Needed in Kansas Herds and on Kansas Farms, go in My Bred Sow Sale at

Parker, Kansas, February 12

5 Tried Sows, 10 Fall Yearlings, 35 Spring Gilts bred to H & B's Pathfinder by Pathfinder and Echo Sensation by Great Sensation. Among them are Illustrator Queen by Premier Illustrator out of Golden Queen the 37th by Gold Medal the 2nd. Orion Queen by Crimson Orion King by Orion Cherry King. Illustrator Beauty by Premier Illustrator. Long Wonder Beauty by Chief Wonder the 2nd and others of equal breeding and individuality. Four choice fall boars. 2 Pathfinders and 2 Sensations will also be sold. For catalog giving full information write

W. T. McBride, Parker, Kansas

Col. Homer Rule, Auctioneer. S. T. Morse, Fieldman.

W. L. Fogo's Champions
DUROC JERSEY BRED SOWS

45 head. 10 tried sows, 8 fall yearlings and 26 spring gilts. Also two April first boars.

Sale at farm near town,

Burr Oak, Kan., Saturday, Feb. 21

(Jewell County)

Two sows, half sisters of Great Wonder I Am, one out of Golden Uneeda, and her fall gilt, a splendid show sow.

A string of splendid Gano bred sows. Selling some of my show herd.

My winning at Wichita, January, 1920

Twenty-one shown. Won eight firsts, seven seconds, one third, champion on junior sow and first and second on young herd. First on young herd bred by exhibitor. First young herd, get of sire, first young herd produce of dam.

Everything bred to Fogo's Invincible and others to High Sensation Jr.

Catalogs ready to mail. W. L. Fogo, Burr Oak, Kan.

you are urged to write at once for the big handsome catalog which is ready to mail. Look up the advertisement in this issue of the Kansas Farmer and Mail and Breeze.—Advertisement.

Kempin & Hilbert's Offering

Kempin Bros. and William Hilbert, Corning, Kan., are Duroc Jersey breeders who will hold a bred sow sale Wednesday, February 25. The sale will be held in Corning, in a nice warm pavilion and good connections can be made from the Gordon S. Hamilton sale of the day before at Horton and for the John W. Jones sale at Concordia the day following. They will sell 40 sows and gilts bred to three great herd boars, King Sensation I Am, whose picture appears in the advertisement in this issue, Proud Pathfinder and Col. Orion. The offering as a whole is one of real merit and these breeders are anxious that Kansas breeders in particular attend their sale and make selections from either offering. An attraction is a spring yearling sow by King Sensation, litter brother to King Sensation I Am and bred to Proud Pathfinder. Look up the advertisement in this issue and plan your trip to include this good sale.—Advertisement.

Fogo Wins at Wichita

W. L. Fogo, Burr Oak, Jewell county, Kan., was at Wichita, Kan., last week at the "Big National" with 21 Duroc Jerseys and he won a whole handful of prizes besides a lot of mighty complimentary comment on his fine, big Durocs. He won eight firsts, seven seconds and on young herds was really the big winner at the big show. His bred sow sale at the farm near Burr Oak Saturday, Feb. 21 will contain many of the prize winners and it will be one of the very best offerings in the West this winter in both popular and up-to-date breeding and in individual merit. They are the big kind, sure enough, and that is what made the big hit at Wichita for them last week. They are the show-yard kind with which he coupled size, the kind that everybody is trying to buy. Go to this sale if you want that kind.—Advertisement.

Durocs at McPherson

B. R. Anderson, McPherson, Kan., is advertising his big Royal herd Duroc Jersey bred sow sale at McPherson, Saturday, Feb. 21. In this sale he will sell daughters of Royal Grand Wonder and it will be your last chance to buy these big fine Duroc Jersey sows with the opportunity to select from a number sufficient to supply you with toppy sows. In this sale Mr. Anderson says he is making his best offering of bred sows. They are of the real pork production kind and I wish you could have seen the 67 big barrows that Mr. Anderson topped the market with last summer from this herd. Mr. Anderson breeds Duroc Jerseys on a sufficient scale to permit the condemning of everything that is not up to a high enough standard to be retained as a breeding animal. There will be 50 head of bred sows and gilts in this big sale. The catalog is ready to mail. Address B. R. Anderson, McPherson, Kan.—Advertisement.

Jacks, Jennets and Percherons

M. H. Roller, Circleville, Kan., Jackson county, is dispersing his herd of registered jacks and jennets and registered Percherons. The sale is Tuesday, February 17, at his breeding establishment adjoining Circleville. He is also offering his breeding establishment consisting of barns and other equipment for sale. Mr. Roller is one of the oldest breeders of registered jacks in the state having been in the business continuously for over 40 years. These jacks and jennets and Percherons are of the very highest quality and are sure to sell below their real value. It is the greatest opportunity to buy I ever saw and you'd better be there if you are interested. Come to Holton and stay all night and autos will take you to the sale and return in the evening in time for trains going any direction out of Holton. Write for the catalog right now.—Advertisement.

Big Duroc Offering

Gordon & Hamilton, Horton, Kan., will be remembered as the Duroc Jersey breeders who made such a successful sale at Horton last winter. Their date this winter is Feb. 24, and the sale will be held in town. They will sell 40 head, mostly spring gilts of the larger type. There will be a few fall yearlings and some tried sows that you will want to own when you see them. Sensation King, sired by Great Sensation, the boar that sired the 1919 world's champion, is the leading boar in the herd and the sire of a big per cent of the spring gilts. All of the tried sows and some of the spring gilts are bred to him. Golden Pathfinder by Ideal Pathfinder and out of Golden Uneeda is a big fine September yearling and he has been bred to about all of the Sensation King gilts. He is a wonder, sired by a great sire and out of the great sow that has produced so many of the good ones. Look up the advertisement in this issue of Kansas Farmer and Mail and Breeze. This is a great offering of big, high backed Duroc Jerseys—the kind that get big. You will be pleased with them and glad you came.—Advertisement.

Loomis Sells February 23.

John Loomis, Emporia, Kan., is the Duroc Jersey breeder that bought Pathfinder's Image in the Huston dispersion of Duroc Jerseys at Emporia, last spring. He was unfortunate in losing this great boar recently but fortunate in having considerable of his get on the farm. In his big bred sow sale at Emporia, Monday, February 23, he will sell 50 bred sows and gilts and many of the good things in the sale are of Pathfinder breeding. The offering is rich in the blood of Pathfinder, Orion, Illustrator, Sensation, Great Wonder I Am, Col. and Golden Model. The offering is bred to two splendid boars, Pathfinder's Model and Sensation Orion, an outstanding boar by Great Orion and out of a Great Sensation dam. The sale will be held in Emporia in a nice warm pavilion and you are invited to attend. You can leave on an evening train and make good connections via Topeka for the Gordon & Hamilton sale at Horton the next day. The catalog is ready to mail and free for the asking. Address, John Loomis, Emporia, Kan.—Advertisement.

BY J. T. HUNTER

Be sure that you are not forgetting the dispersal sale of H. R. Cowdery, Lyons, Kan., to be held February 7. There will be sold four Percheron stallions, one Percheron mare, two Belgian stallions, two Belgian mares and six black jacks. Be on hand sale day and supply your wants.—Advertisement.

The Stewarts at Tampa, Kan., have rented their farm and will sell their entire herd of registered Percheron horses at the farm, three miles east of Durham, Kan., on February 17. This herd includes three stallions and 16 mares, all registered and good ones. In addition to these there will be six grade horses, some cattle and all the farming implements. This is a no reserve sale and will pay you for your attending. Write the Stewarts for additional information at Tampa, Kan.—Advertisement.

W. J. Sayre, Cedar Point, Kan., whose advertisement starts in this issue is offering for sale some choice Shorthorns suitable for foundation stock. These young bulls and females carry the blood of such sires as Gallant Knight, Hampton's Best, Avondale, Lord Mayor and Lavender Viscount. Mr. Sayre has been in the Shorthorn breeding business for 15 years and is offering this opportunity for you to profit by his experience. Write him your wants, mentioning this paper.—Advertisement.

D. E. Gill's Dispersion.

The entire herd of jacks, jennets and Percherons, owned by D. E. Gill, Attica, Kan., will be dispersed on February 23 at his farm. For sometime the date ran February 24 but the sale will be held February 23. There will be sold 10 jennets and 12 jacks ranging from one to six years old; one Percheron stallion and Jumbo King, a 6-year-old jack weighing 1,200. For further information about this sale send to D. E. Gill, Attica, Kan., for catalog, mentioning this paper.—Advertisement.

Conyers' Money Making Durocs.

Forty-six attractively bred females and two promising young boars are listed in the annual bred sow sale held by B. W. Conyers, Marion, Kan., February 20. The sows represent such sires as King the Colonel, Royal Grand Wonder, Red Cross Pathfinder, Royal Critic and Defender; six of the King the Colonel breeding are out of a Graduate Colonel sow, by High Orion, a half sister to the Zink Farm's herd boar. These are all bred to either Valley Pathfinder, by the famous

THE LIVESTOCK SERVICE
of the Capper Farm Press

Founded on four great papers, each excelling in prestige with the farmers and stockmen of its territory, the four covering, respectively, the states of Kansas, Nebraska, Missouri and Oklahoma and adjacent sections of adjoining states.

FOR BUYERS: When livestock of any kind is wanted, look thru our advertisements and write those breeders who seem likely—to have what you want, always mentioning this paper. Write this department direct at any time, describing the livestock desired and we will be glad to help you locate it.

FOR SELLERS: Those who have livestock for sale, will find that advertising thru one or more papers of the Capper Farm Press is the most businesslike and effective means of locating buyers. Ask this department for any desired information, on the subject of livestock selling, always giving number and description of animals for sale. If help is wanted in the preparation of advertising copy, give such other information as can be used to attract the interest of prospective buyers. Such matters as the time of year, cost of feed, condition and value of animals and time available for selling, should be considered in deciding how to advertise. You may need only a three line advertisement or it may be to your best interest to use a full page. This paper may afford you ample service or you may need the whole Capper Farm Press. Give us full particulars and you will get honest and competent advice.

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

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

T. W. MORSE, DIRECTOR AND LIVESTOCK EDITOR

OFFICE AND TERRITORY MANAGERS:

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J. T. Hunter, S. W. Kan. and W. Okla., 427 Pattie Ave., Wichita, Kan.
J. Cook Lamb, Nebraska, 3417 T St., Lincoln, Neb.
O. Wayne Devine, Missouri, 300 Graphic Arts Bldg., Kansas City, Mo.
J. Park Bennett, Missouri, 300 Graphic Arts Bldg., Kansas City, Mo.
S. T. Morse, E. Okla., S. E. Kan., and S. W. Mo., 517 West 3rd St., Joplin, Mo.
H. P. Steele, Iowa and N. E. Neb., 203 Farnam Bldg., Omaha, Neb.

Pathfinder, out of Valley Girl, by Valley Colonel, the Illinois 1919 grand champion, or Royal High Wonder by Royal Grand Wonder, first in class at the 1917 Kansas state fair; he by Great Wonder out of Royal Orion Girl. Two promising young boars, a litter mate to Valley Pathfinder, and Royal High Wonder sell also. If you are in the market for good Durocs, send immediately for the catalog and plan to attend the sale. It will be held at 1:30 in the skating rink in Marion. Mention the Kansas Farmer and Mail and Breeze in your correspondence.—Advertisement.

A Live Wire County Hog Sale.

The Stafford County Purebred Livestock association will hold their first hog sale at Stafford, Kan., February 21. The sale will include about 30 head of Polands and the same number of Durocs. These come from the best herds in the county and are the type that have put Stafford county on the hog map and the kind that the county association is glad to stand behind. Look up their ad in this issue for the consignors to the sale. Get your catalog and plan to make this one sale that you do attend.—Advertisement.

Wooddell & Danner Duroc Sale

Wednesday, February 18, Wooddell & Danner, Winfield, Kan., sell 40 head of bred Duroc sows and gilts. This offering is sired by or bred to some of the best of the Durocs. It is an offering that will appeal to the breeder and the farmer because the hogs are good individuals with good breeding back of them and they are bred to good boars. Wooddell & Danner have been raising good Durocs and buyers will have an excellent opportunity to get the worth of their money at the sale. See Wooddell & Danner advertisement in this issue of the Kansas Farmer and Mail and Breeze. Write today for a catalog. Please mention the Kansas Farmer and Mail and Breeze.—Advertisement.

Last Call for Two Big Poland China Sales.

Ross & Vincent, Sterling, Kan., sell Polands Wednesday, February 11 and the next day Olivier & Sons, Danville, Kan., sell at Harper, Kan. Get the January 31 issue of the Kansas Farmer and Mail and Breeze and read the last advertisement for each of these firms. The hogs represented in these two sales are offered by men who have been raising and selling Polands at auction and private treaty for several years. They are known all over the country as successful raisers of Polands. The fact that they are increasing their business both in quantity and quality of hogs raised and sold to farmers and breeders is sufficient evidence that they are reliable hog men. Their herd sows and sires are among the best. A comparison of names of Polands that have won at state fairs in Kansas and nearby states with the names mentioned in the catalogs of these men will show beyond possibility of contradiction that the sale offerings will be worth any Kansas farmer's time to visit these two sales and take home one or more bred sows.—Advertisement.

The Great Kansas Duroc Circuit.

Circuit as follows: Tuesday, February 10—R. C. Smith, Sedgwick, Kan.; Wednesday, February 11—Jno. W. Petford, Saffordville, Kan.; Thursday, February 12—W. W. Otey, Winfield, Kan.; Friday, February 13—Zink Stock Farms, Turon, Kan.; Saturday February 14—G. M. Shepherd, Lyons, Kan. Those who have watched Duroc development in recent years in Kansas know that these men stand preeminently high among Duroc breeders. They have been careful to buy the best herd headers, to raise their hogs properly, to show them successfully, to sell the poorer quality kind to the slaughter and to offer good ones to farmers and breeders at public auction or private treaty. The herd sows and sires in this circuit are of the best blood lines among Durocs. Many are hogs that have won in show rings in Indiana, Illinois, Iowa, Nebraska, Kansas, Oklahoma and Texas. In this circuit a few of these prize winners sell but the major portion of the hogs will be daughters of outstanding herd headers and bred to equally good herd headers. The farmer who takes a few days off at this time of year to attend this great circuit and buy a few of these good bred sows will be amply repaid for his time. Look for the page advertisement in this issue of the Kansas Farmer and Mail and Breeze and see what each man offers. Then write for a catalog of each sale. Please mention the Kansas Farmer and Mail and Breeze.—Advertisement.

BY J. COOK LAMB

The Horse Sale of the Season.

The Nebraska Purebred Horse Breeders' association will hold their 6th annual sale at Grand Island, Neb., February 19 and 20. This will be one of the big sales of good draft stallions and mares of the season. One hundred and twenty-five registered Percherons, Belgian and Shire mares and stallions are cataloged. You can get the team of mares that will work on your farm and raise the good kind; the young stallion that you can use on your farm mares, grow out and sell next year at a profit; or the stallion that is tried and ready to go out to a heavy season in the stud. These horses are consigned by the best breeders of the state and are the good kind. They will be inspected the morning of the sale by a member of the State Stallion Registration Board and his findings will be called in the ring. This is an annual event backed by five sales that have given absolute satisfaction. The annual meeting of the association will be held at the Koehler hotel the 18th at 7:30 p. m.; the banquet the 19th at 6:30 p. m. This is a good sale of good horses backed by a good organization. Write for your catalog today, mentioning this paper, to C. F. Way, Sec'y, First National Bank Building, Lincoln, Neb. Remember the sale is at Grand Island, Neb., February 19 and 20. —Advertisement.

BY O. WAYNE DEVINE

Wales' Bred Polands.

Harry Wales, Peculiar, Mo., well known among Poland China hog men, now owns Deliberator, one of the best sons of the well advertised Liberator and out of a Giant Buster dam. About 25 choice sows and gilts have been bred to this promising young hog and should be real attractions in his bred sow sale, February 25. The catalogs are ready to mail out. Farmers and breeders who are interested in profitable Polands are requested to write for one, mentioning this paper.—Advertisement.

Henry Koch, Edina, Mo., has cataloged 50 Poland Chinas for his February 18 sale.

Moser's "All Star" Duroc Jersey Sale



Fern Moser—"It's a new litter by Joe King Orion."

New sale pavilion

Sabetha, Kan., Wednesday, Feb. 18

60 Head of Just Good Ones

26 proven brood sows, not a common one in the lot. Eight fall yearlings, 26 spring gilts.

Now listen to this: "I am selling sows in this sale that no breeder likes to part with but to make it the offering that I am determined it shall be, the best anywhere in the West, I am putting them in." **Kern's Choice Lady (1535),** the highest priced sow that ever came to Kansas and bred to **Joe King Orion. Big Lizzie 2nd,** largest Proud Col. sow living and the sow that cleared $4,000 for Mr. Moser on her 1917 litter. Bred to **Joe King Orion. Proud Bess,** top of W. M. Putman's 1917 sale. Bred to **Joe King Orion. Four others** from one to three years old by Great Sensation, 2 by old Pathfinder, 2 by Smooth Giant bred to **Joe King Orion. Spring gilts** by Great Pathfinder, Great Sensation, Great Orion, Jack's Orion King 2nd, Giant Perfection, Gold Finder, Golden Wonder, and American Top Col.

Remember that **Joe King Orion,** the Premier boar, is mated to the choicest sows of the breed in this offering. For catalogs address,

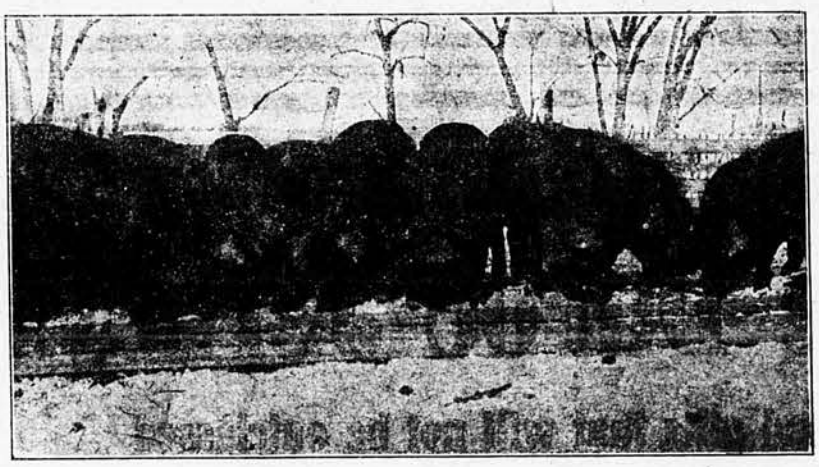
F. J. MOSER, SABETHA, KANSAS

Orders to buy should be sent to J. W. Johnson of the Capper Farm Press in my care to Sabetha, Kansas.

Auctioneers—Putman and Holtsinger.

NOTE—Advertisers like to know where you saw their advertisement. Mention Kansas Farmer and Mail and Breeze when writing for catalog.

MR. DUROC BUYER: It will be worth your while to attend the ROYAL HERD FARM SALE



A FEW OF THE GILTS IN THIS SALE.

McPherson, Kan., Sat., Feb. 21st

The greatest offering of **ROYAL GRAND WONDER SOWS** ever put in a sale.

50 HEAD

They are bred to ROYAL SENSATION and ROYAL PATHFINDER direct sons of two of the most prominent Duroc boars living.

Your catalog is ready, send for it at once. Address,

B. R. ANDERSON, McPHERSON, KANSAS

Address your orders to buy to J. W. Johnson in my care. Auctioneer—Jas. T. McCulloch, Clay Center, Kansas.

Duroc Hog Sale

60 head of purebred hogs to sell. **Enterprise, Kan., Wednesday, Feb. 18.** 25 bred sows and gilts; 33 fall pigs, also herd boar. Nine high grade Holsteins. Send for catalog.

H. H. ESHELMAN, ENTERPRISE, KAN.
(Sale near Navarre)

200 Big Bred Duroc Gilts



Buy bone and breed big. Get the gilts, pay for them afterwards. Pedigrees recorded. Written guarantee they are immune and in farrow.

F. C. Crocker, Box B, Filley, Neb.

Woody's Durocs

Bred Gilts of March and April farrow sired by Pathfinders, Orions and Creators. Bred to Climax Sensation for March farrow. Extra good ones at $50 and $60. A few fall yearlings and tried sows at $70. July pigs at $20, all immune. Extra good.

HENRY WOODY, BARNARD, KANSAS
Lincoln County

Fulks' Large Type Durocs

Sired by Uneeda High Orion and Nebraska Col. Chief. Boars and gilts of March and April farrow. Immuned and guaranteed to please. Some real herd boar prospects. Bred sows after January 1.

W. H. FULKS, TURON, KANSAS

Pleasant View Stock Farm

Duroc Jerseys. Bred sows and gilts at private sale. Mostly by a splendid grandson of Orion Cherry King.

M. K. Peterson, Troy, Kan., Doniphan Co.

Popular Duroc Jersey Breeding

50 bred sows and gilts—Pathfinder, Sensation, Orion, Great Wonder I Am, Col. and Golden Model and other noted families. Sale in pavilion at

Emporia, Kansas, Monday, Feb. 23

Thirty of them bred to Pathfinder's Model by Pathfinder.
Twenty head bred to Sensation Orion by Great Orion.
Everything immune and an offering that has been bred and fed with their future usefulness always in mind.
Orders to buy should be sent to J. W. Johnson, in care of Mr. Loomis, Emporia, Kan.
For the catalog address at once,

John Loomis, Owner, Emporia, Kan.

Auctioneers—James T. McCulloch, Clay Center, Kan.; W. W. Otey, Winfield, Kan.

Note: Good connections will be made for the Gordon & Hamilton sale at Horton the next day.

Gwin Bros. of Morrowville, Kansas

Bred Sow Sale

Sale Pavilion

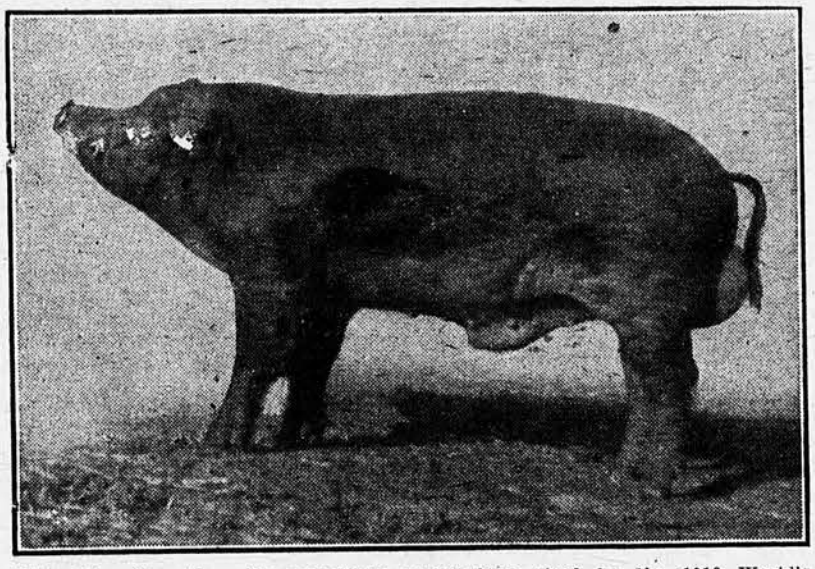
Washington, Kan.

Thursday, Feb. 19

Duroc Jerseys that have a right to demand your most careful attention.

50 HEAD 20 Proven Sows, 15 Fall Gilts, 15 Spring Gilts

The offering was sired by such boars as **Pathfinder, Orion Cherry King, Cherry King Orion, The King, Joe Orion 5th, Ideal Pathfinder, Grand Wonder 6th,** and a fine string by



High Orion Sensation, the sensational spring boar sired by the 1919 World's champion, Great Orion's Sensation, mated with a great string of daughters of John's Orion.

JOHN'S ORION Famous over the east for the champion and grand championships he won and as a sire of winners. He is now making new history, having sired more outstanding litters in 1919 than any boar in the West.

We would like to send you our catalog if you are at all interested in Duroc Jerseys of this class. They are ready to mail. Address,

GWIN BROS., MORROWVILLE, KANSAS

Orders to buy should be addressed to **J. W. Johnson, fieldman for the Capper Farm Press, in our care at Washington, Kan.** **Auctioneers—W. M. Putman, Tecumseh, Neb.; Jas. T. McCulloch, Clay Center, Kan. J. W. Johnson, Fieldman, Capper Farm Press.**

NOTE—Advertisers like to know where you saw their advertisement. Mention Kansas Farmer and Mail and Breeze when you ask Gwin Bros. for their catalog.

Gordon & Hamilton's Greatest Bred Sow Sale

Big Type Duroc Jerseys

49 bred sows and gilts that will not be outclassed in any sale this winter. Sale in warm pavilion at

Horton, Kan., Tuesday, February 24

Sensation King 280963, our leading herd boar, is an outstanding son of our **Great Sensation,** the boar that sired the 1919 world's Champion, **Great Orion Sensation.** The tried sows are bred to him and the spring gilts either by him or bred to him.

Golden Pathfinder, is our new boar bred by O. Linninger and sired by **Ideal Pathfinder.** His dam is Golden Uneeda. He is a great September yearling and a wonderful individual. Many of the gilts are bred to him.

We are pleased to believe our offering on this date compares very favorably with any offering that will be made this winter. A strong statement but when you see the big stretchy, high backs and the great bone and size they carry you will agree with us that it is truly a great offering.

Orders to buy should be sent to **J. W. Johnson** of the Capper Farm Press in care of Gordon & Hamilton, Horton. Send us your name and we will send our catalog by return mail. Address,

Gordon & Hamilton, Horton, Kansas

C. G. Streeter, Horton; Fred Taves, Beloit, Wis. Auctioneers: Jas. T. McCulloch, Clay Center, Kan.;

Good connections from the John Loomis sale at Emporia, Kan., the day before.

Note: Advertisers like to know where you saw their advertisement. Please mention Kansas Farmer and Mail and Breeze when you ask for catalog.

A Good Duroc Spring Gilt

by a really big son of Great Wonder and out of a sow by Giant Invincible; a line bred Golden Model 2nd; bred for April litter to Watt's Orion by Matchless Orion Cherry King and out of dam by Taxpayer, 42 inches tall, 2nd in class at state fair 1918; gilt weighs 200 pounds, not fat; good color; $75.

J. A. Creitz & Son, Beloit, Kansas, or 1014 S. Santa Fe Ave., Salina, Kansas

Boars and Bred Gilts

Sired by Cherry King Orion, Reed's Gano, Potentate's Orion. Dams by Pathfinder, King the Col. and Crimson Wonder. Immuned. Priced to sell.

JOHN A. REED & SONS, LYONS, KANSAS

Big Type Boars

Pathfinders, Colonels, Orion Cherry Kings

And other popular **Big Type** strains from big mature sows. Immuned. Priced to sell.

G. M. SHEPHERD, LYONS, KANSAS

Replogle's Durocs

Spring boars; registered and immunized; Orion, Illustrator and Colonel bloodlines. Gilts and fall pigs of same breeding. Satisfaction guaranteed.

SID REPLOGLE, Cottonwood Falls, Kansas.

For Sale: A few choice registered Duroc Jersey sows and gilts

bred for April farrow to a son of Constructor Jr. 234259, the reserve grand champion boar at the Hutchinson state fair in 1917. Also a limited number of spring boars. Sows, weight 300 to 500 lbs., $100 each; boars and gilts, 200 to 250 lbs., $50 each. All immuned. Crated F. O. B. Aulne.

HANSEN BROS., L. B. 41, AULNE, KAN.

DUROC JERSEY BRED SOWS

Three tried sows, some toppy gilts and all bred to two of the leading boars of the state for March farrow. Priced to sell. **FRED CROWL, Barnard, Kan.**

The offering will consist of five tried brood sows that have proven producers of large even litters, sows that any farmer or breeder would be pleased to put in his herd. Twenty-five fall yearling gilts and 16 spring yearlings are sired by White Oak Wonder and Surprise Wonder by Big Bob Wonder; eight gilts are by Oak Wood Jumbo and bred to Koch's Jumbo and two fine gilts are by Giant Buster bred to Koch's Jumbo. The catalogs are ready to mail out and they are full of valuable information about the sale offering and the herd. Write for one and please mention this paper.—Advertisement.

Important Poland China Sale.

One of the Poland China sales that should be of interest to farmers and breeders will be held at Paola, Kan., Saturday, February 14, in the new $20,000 sale pavilion just completed for this occasion. C. S. Nevius & Sons are selling 50 head of choice sows and gilts. They are a selected lot for this sale and all will be bred to good boars and showing safe for early spring farrow. P. L. Ware & Son will consign 10 head of spring gilts, the pick of their herd and bred for March litters. Paola has four good railroads and good connections from all points. Those who wish to purchase some new blood in the profitable prolific Poland China hog should arrange to attend this sale.—Advertisement.

Draft From Herd of Prize Winners.

T. A. Harris & Sons, Lamine, Mo., are owners of one of the best and oldest herds of Berkshires in the state of Missouri. They have kept this same herd on one farm for thirty years. February 26 is announced for their annual bred sow sale. They have fitted for this event 50 sows and gilts that should command the attention of every farmer or breeder of this breed of hogs in the corn belt. The herd was shown last year at six state fairs and won 15 grand championships, 22 championships, 73 firsts, 60 seconds and 41 thirds. The catalogs are ready to mail, they are nicely illustrated and interesting. Those interested in this old reliable breed of hogs might do themselves a good business turn by writing today to T. A. Harris & Sons, Lamine, Mo., for the catalog, mentioning this paper.—Advertisement.

A Real Duroc Offering.

Porter & Wilcoxen, the well known breeders of Durocs, catalog is out, giving complete information about their herd and sale offering. Every animal has been given the double treatment and they are immune. The herd boars that the offering is bred to are Orion Cherry Chief Friend, a wonderful proven sire of the big, long heavy bone, high up kind, and Cherry Chief's Pride by Cherry Chief, out of a Wonder Model dam, the sire of a class of boars that have gone out to head several small herds, and gilts that sold among the top in our last fall sale. Peter Pan by Pathfinder has been used in the herd and the type of sows mated with him will produce the correct type of Duroc. The offering of brood sows are a high class lot and the 10 fall gilts that are granddaughters of Great Wonder I Am are valuable in any herd. Send for the catalog of this sale offering and arrange to attend this sale.—Advertisement.

Shorthorns at Auction.

One of the few collections of Shorthorn cattle which will be available to buyers in Kansas this season will be sold February 20 by Kelley & Mitchell at Ottawa, Kan. The offering of 50 head is more than half of the best and time tried Scotch families—mostly Cruickshank families, in fact. There is hardly a line of well known and well thought of breeding which is not touched on in the pedigrees of these cattle. Space will not permit going into details but the catalog can be had for the asking, and should be sent for at once. Be sure to mention this paper when writing, and be sure, also, to ask for any special information you require. Both Mr. Kelly and Mr. Mitchell are exceptionally well posted on Shorthorn cattle and by getting this offering of Scotch cattle they doubtless have made a valuable contribution to the Shorthorn business of the state. Be sure to read the advertisement and then address either party, as per addresses given. Remember the sale will be at Ottawa, in Franklin county, Kan., about 50 miles out from Kansas City.—Advertisement.

Missouri's Grand Champion Durocs.

Chas. L. Taylor, of Olean, Mo., owns one of the great herds of Duroc Jersey hogs of the state. For the past fifteen years, Mr. Taylor has shown at the Missouri State Fair and other state fairs. Each year he goes home with a large share of the premiums. Mr. Taylor has been on the board of directors of the Duroc association several years and is as well known as any breeder in the west. His reputation for honesty and square dealing cannot be questioned; his word is as good as a government bond. He is advertising in this issue 40 head of choice Duroc gilts bred to the best son of Jack's Orion King 2nd, a hog that heads the herd of Durocs at Longview Farm. This young hog promises to grow out and make a better individual than his sire. The writer has been on Mr. Taylor's farm and carefully inspected the herd and he is satisfied Mr. Taylor knows how to raise and grow good Durocs. They are cared for in a way that insures their future usefulness. They always go out and make good in the hands of new purchasers. Any farmer or breeder wanting some new blood or starting a herd can find what he wants in Mr. Taylor's herd. Just write him what you want, send your check and you will get your money's worth and if you are not satisfied you can get your money back. Mr. Taylor always wants satisfied customers and he has a lot of them in Kansas who have bought Durocs from him. Please look up the advertisement in this issue and write Mr. Taylor your wants, mentioning this paper.—Advertisement.

BY S. T. MORSE

E. M. Wade, Burlington, Kan., is making attractive prices on his big black Polands, both spring and fall boars. See his advertisement and write him your wants.—Advertisement.

W. C. Hall, Coffeyville, Kan., is offering some choice grandsons of Caldwell's Big Bob for sale. These pigs are sired by Black Bob Wonder and King Bob, are immuned and ready to ship out. Priced to sell.—Advertisement.

Chester White boars and gilts are advertised by W. H. Lynch, Neosho Rapids, Kan. These are well grown pigs sired by Bob Tip

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Top. Write Mr. Lynch your wants and mention Kansas Farmer and Mail and Breeze. —Advertisement.

C. C. Feemster, Gentry, Ark., is pricing for quick sale some good purebred stock. This includes Percheron stallions, Red Polled bulls and Duroc hogs. Look up his ad in this issue.—Advertisement.

Ed Sheehy, Hume, Mo., can make you an attractive price on a few good bred sows and gilts. Mr. Sheehy also has some good boars for sale. Mr. Sheehy has been breeding good Poland Chinas for a number of years and his stock is all immuned and guaranteed.—Advertisement.

Stumbo & Sons, Greenfield, Mo., are offering our readers a few head of choice big Spotted Poland bred sows, also one extra good herd boar and some open gilts. Look up their advertisement in this issue and write them for prices and particulars.—Advertisement.

McBride's Last Call.

Remember W. T. McBride's sale at Parker, Kan., on February 12. This will be a choice offering of tried sows, fall yearlings and spring gilts. The big stretchy kind of Durocs that you need. Bred right and fed right to go on and make money for the purchasers. The sale is the 12th—hardly time to get a catalog. But attend the sale anyway. You will not be disappointed. If you cannot attend, buying orders should be sent to S. T. Morse, fieldman. Last week's Kansas Farmer and Mail and Breeze gives partial details. Come if you can.—Advertisement.

Real Herd Bulls

H. M. Hill, La Fontaine, Kan., is offering for sale some real herd bull prospects sired by his great breeding son of Avondale, Master of The Dales. These bulls are out of cows, many of them carrying a concentration of the blood of Imp. Collynie. One of these is out of Lady Spiraea by Ingle Lad, a double granddaughter of Imp. Collynie. This calf is a full brother to Sagamore Dale, sold to head one of the good herds of Pennsylvania. Another extra good deep fleshed bull is out of Sarcasm by Imp. Collynie 2nd, dam Sittyton Sarcasm 3rd, bred by F. W. Harding and sired by Imp. Bapton Magnet, bred by Deane Willis, 3rd dam Imp. Sittyton Sarcasm 2nd, by Pride of the Realm. This is a real bull, one that can be depended on to add scale, ruggedness and fleshing qualities to his calves. Another extra good one is out of Sempstress 2nd, sired by Prince Royal by Collynie. Prince Royal's dam was the great imported cow Princess Royal 62nd by Spicy Robin, 2nd dam the great Potts Show cow, Sempstress of Oakland 8 by Thistlewood bred by W. A. Harris. No herd of cows in America carries as much of the blood of Imp. Collynie as does Mr. Hill's herd. Collynie blood has made more real improvement in the Shorthorns of this territory than the blood of any other sire. The Hanna importations have had a lasting and beneficial effect on the character of the Shorthorns of this country and these young bulls are of this deep fleshed, rugged type. The cows are nearly all great milkers and many of them have been regular producers up to 15 years of age or more. Write or call on Mr. Hill and mention the Kansas Farmer and Mail and Breeze.—Advertisement.

BY H. P. STEELE

Good Iowa Polands.

In buying bred sows one naturally has in mind the profit to be realized on the litter of pigs, and if you will look over the herd of sows that Frank Rainier, Logan, Ia., is offering in his sale of Polands, on February 19, you will agree with me that they are the kind that will turn a good profit on the investment. His spring gilts are of the right type, bred right and raised right. They will farrow good lusty pigs that will be easy to raise, and there is not a gilt in the lot, whose litter from one of these good boars, will not bring in $1,000 next fall. The fall gilts are equally as good and have the advantage of a few months more in age, and the tried sows are the kind that have make good and will make good on any man's farm. Lot No. 1, a great yearling by F's Big Jones and out of a daughter of Fessy's Timm, is a wonderful sow and one boar from this spring's litter should pay for the sow. Then we have daughters of Giant Ben, Gerstdale Warren, Big Long Bob 2d, Barrage Fire, Young Timm and Columbus G. The fall gilts are by Gerstdale Warren and Big Long Bob 2d, and Rainier's Kind and the spring gilts are by Woodbine Crusader and Gerstdale Warren, and we wish to call your attention especially to four of them that are sired by Woodbine Crusader. They are show gilts every one of them and show what this great boar is doing. A sow bred to this boar who is siring this kind would be a good buy at almost any price. These sows and gilts are all bred to his two herd boars, Gerstdale Giant and Woodbine Crusader, and you will not see two better boars heading up any herd. We would advise you to write Mr. Ranier for his catalog and arrange to get some of these good sows or gilts. Mention this paper in writing him.—Advertisement.

BY T. W. MORSE

Here For Holsteins.

The Tri-State Holstein breeders have assembled for their show to be held at Omaha, February 24, 25 and 26, 100 head of real Holsteins, every one a show animal; 85 cows will sell whose value it will be hard to estimate, not only because of the great families they represent but equally because of their value as producers. The cows have A. R. O. records and have been mated with such sires of importance as the world's champion, long distance sire Sir Ormsby Arkrummer Hengerveld; King Echo Sylvia Waldorf; King Pontiac Konigen, a son of King Segis; King Segis Lyons, a son of King Segis and Alcartra Hengerveld Segis Dekol, a son of the $50,000 King Segis Pontiac Alcartra. The 15 bulls are largely by 30 lb. sires and out of high producing dams; 40 head of this collection are from the noted Friesland herd owned by B. B. Davis, Omaha, Neb.

Twenty Kansas, Nebraska and Iowa breeders are competing for honors in this show and each has contributed for the sale what would best represent his herd at home and because this is their introductory sale there will be many instances where the last bidder will be sure to reap a goodly profit. This is one of the best groups of Holsteins ever listed for a combination sale and one which buyers will be sure to appreciate. Don't forget the banquet at the Castle Hotel, the night of the 24th. Look up display advertisement in this issue and write for catalog, mentioning this paper.—Advertisement.

KING SENSATION I AM

Sale of Bred Duroc Sows

Corning, Kan., Wednesday, Feb. 25



King Sensation I Am, by King Sensation, our mammoth herd boar.

40 HEAD

Tried sows and gilts bred to King Sensation I Am; Proud Pathfinder by Pathfinder's Likeness; Col. Orion by Great Orion.

Sows and gilts sired by Crimson Model, G. M.'s Defender, King Sensation I Am, Pathfinder's Likeness, Great Wonder Giant, Chief Critic and other good ones. DAMS by The King, Crimson Col., Select Model, Ideal Pathfinder, King Sensation, Joe Orion V and others.

SPECIAL ATTRACTION. A spring yearling sow by King Sensation, litter mate to King Sensation I Am, bred to Proud Pathfinder. This is an especially attractive offering all through, all bred for March and April litters to three of the greatest boars in Kansas. **Kansas breeders are especially invited to attend this sale.** Catalogs ready for mailing now. Write for one and look over the breeding of this splendid offering and the wonderful boars they are bred to. Orders to buy should be sent in our care to **J. W. Johnson,** Corning, Kan. For the catalog address, either,

Kempin Bros. or Wm. Hilbert, Corning, Kan.

Auctioneers—Jas. T. McCulloch, Clay Center, Kan., and others.

Good connections from the Gordon & Hamilton sale at Horton the day before and for the Jno. W. Jones sale at Concordia the day following. Advertisers like to know where you saw their advertisement. Please mention Kansas Farmer and Mail and Breeze when you ask for the catalog.

"Back to the Old Home" Jno. W. Jones'

Bred Sow Sale



The Great Sire FAIRVIEW ILLUSTRATOR

Crandall's Feed Yard

Concordia, Kan., Feb. 26

Duroc Jersey Sows

Our Best Offering

WE ARE COMING BACK TO THE "OLD HOME-TOWN" AT THIS TIME WITH THE BEST AND GRANDEST LOT OF BRED SOWS AND GILTS WE HAVE EVER BEEN ABLE TO PRODUCE AND SELL AT PUBLIC AUCTION. HERE IS THE PLACE WE BEGAN BREEDING THE FAMOUS DUROC JERSEY 20 YEARS AGO. COME SEE HOW WE HAVE IMPROVED THEM.

SPECIAL ATTRACTIONS

Sows sired by the $3,000 Fairview Orion Cherry King
Sows sired by Fairview Illustrator, the great breeding boar
Sows sired by Pathfinder, King the Col., John's Col. Orion and other noted sires.

BRED TO THE GREATEST HERD BOARS WE EVER OWNED

Write for the CATALOG It tells the story

BARONS HOTEL HEADQUARTERS	Auctioneers Col. Jas. T. McCulloch Col. G. B. Van Landingham	Fieldman Capper Farm Press, Jno. W. Johnson

JNO. W. JONES (Address all mail bids to Auctioneers or Fieldman in our care at Concordia after February 21.) Minneapolis, Kan.



Duroc Jerseys
Extra good bred sows for sale; also growthy open gilts and spring boars. Choice weanling pigs, pairs and trios, no akin.
Nebraska Breeders Sales Co., Lincoln, Neb.

Duroc Jersey Bred Sows and Gilts
For sale, sired by Valley Col. and Golden Orion; bred to the good boar Orion Pathfinder for March farrow. Priced reasonable and satisfaction guaranteed.
C. W. McCLASKEY, GIRARD, KANSAS.

WOODDELL'S DUROCS
21 spring boars, 1 yearling boar, nearly all of them sired by **Chief's Wonder**, the boar that is breeding champions. These are good type boars, and am pricing them at farmer's prices in order to make room for my fall pigs. Write, wire or come for prices.
G. B. WOODDELL, WINFIELD, KANSAS.

WOOD'S DUROCS
Spring pigs, both sexes. Great Wonder strain; registered; immuned, double treatment; satisfaction guaranteed.
W. A. WOOD, ELMDALE, KANSAS

MUELLER'S DUROCS
A fancy lot of spring boars and gilts for sale. Sired by Uneeda King's Col and from splendid dams. Priced to sell.
GEO. W. MUELLER, R. 4, ST. JOHN, KAN.

Choice March Gilts and September Yearling Sows
Guaranteed safe in pig for March and April farrow, $65. September pigs, either sex, pairs or trios not akin. All stock recorded and guaranteed immune.
D. O. BANCROFT, OSBORNE, KANSAS.

50 Eggs a Day!



Last winter eggs sold as high as $1.00 a dozen. I predict that this winter eggs will go even higher. Poultry raisers are going to reap tremendous profits. You, too, can make sure of a big egg yield by giving your hens a few cents' worth of "More Eggs" Tonic.

This product has been tried, tested and proven by 400,000 chicken raisers. It is acknowledged by thousands of users the best and most successful egg producer on the market today. Every day that you don't use it means that you are losing money. Don't delay. Start with a few cents' worth of "More Eggs" Tonic now. With egg prices breaking all records, this is the time to get *eggs* and *more eggs* from your hens.

Got 117 Eggs Instead of 3

That's the experience of one poultry raiser who wrote me. "I was only getting 12 eggs a day and now get 50."

48 Dozen in One Week

Dear Mr. Reefer: I can't express how much I have been benefited by answering your ads. I've got more eggs than I ever did. I've sold 42½ dozen eggs last week, set 4 dozen, ate some and had 1½ dozen left. From your friend,
MRS. LENA McBROON
Woodbury, Tenn.

160 Hens—1500 Eggs

I have fed 2 boxes of "More Eggs" to my hens and think they have broken the egg record. I have 160 White Leghorns and in exactly 21 days got 125 dozen eggs.
MRS. H. M. PATTON, Waverly, Mo.

Banker Endorses "More Eggs"

Some time ago I got from you "More Eggs" and now it means MORE EGGS. I am now fully convinced of its utility. I have 14 pullets and 14 hens one year old and the first 10 days in December they laid 11 dozen eggs. Yours very truly,
H. F. POHLAND, President, The Citizens' Bank of Ashland, Oregon.

Doubles Egg Production

I have been using "More Eggs" Tonic 3 or 4 weeks now. My egg production has been doubled. — J. C. KOENINGER.
Paradise, Texas.

And Mrs. Myrtle Ice, of Boston, Ky., writes: **Here are a few letters out of thousands:**



More Than Doubled in Eggs

I am very much pleased with your "More Eggs" Tonic. My hens have more than doubled up in their eggs. L. D. NICHOLS, Mendon, Ill.

Greatest Egg Builder

Dear Mr. Reefer:—The More Eggs" Tonic is absolutely all right. It is the greatest egg builder on the earth.
Yours truly,
CASPER SNYDER.
Pillow, Pa.

27 Eggs Instead of 1

I began feeding "More Eggs" Tonic to my flock of hens in November. At that time I was getting one egg every other day. Then on December 5th I brought in 27, which is pretty good for this time of the year. I think "More Eggs" Tonic is fine.—
MRS. E. H. PALMER, Dundee, Mich.

FREE This $1.00 Package

Results Guaranteed

The Million Dollar Merchants Bank of Kansas City, Mo., absolutely guarantees that "More Eggs" will produce satisfactory results, that you will be satisfied in every way or your money back. You do not run the slightest risk.

Makes Lay-ers Out of Loafers —"More Eggs" is a tonic, not a food. It revitalizes the hens, helps digestion, and makes them lay more eggs.

I have convinced over 400,000 poultry raisers of the value of my "More Eggs" tonic. If I haven't as yet convinced you, it's merely because you haven't given me the chance. I ***want*** to convince you; in fact, I am more than anxious that you may know, not from the experience of others alone, but from your own experience, of its great advantage in increasing the egg yield of your hens.

Will you give me this chance to prove to you its great merit? My ***free*** offer is made in the sincere hope and with the sole purpose of getting you to give me this very opportunity. I know what your verdict will be when you once try "MORE EGGS"—but my great difficulty is to get you to ***ACT***—to get you to decide ***NOW*** that you will give "MORE EGGS" an honest and fair trial. Won't you do this—won't you do it when, in your own interest, I offer you a package FREE, just to show you what I can do for you in making your hens lay more eggs? Why doubt? Why delay? Others are getting more eggs than they ever dreamed of getting; you can do the same, and eggs today, you know, represent real dollars.

How to Get the Free Package

Fill in and mail to me the coupon below. When I receive it, I will send you two $1.00 packages of "MORE EGGS." You pay the postman upon delivery only $1.00, the price of only one package, the other package being ***FREE!*** Keep the extra package; or, better still, sell it to a poultry friend so you can get your money back and have your own package for nothing



$1 Package FREE

E. J. Reefer, *Poultry Expert* 4662 Reefer Bldg. Kansas City, Mo.

Dear Mr. Reefer:—I accept your offer. Send me two $1.00 packages of Reefer's "More Eggs", for which I agree to pay the postman $1.00 when he brings me the two packages. You agree to refund me $1.00 if *both* of these packages do not prove satisfactory in every way.

Name .....

Address .....

.....

Send No Money

Just Mail This Coupon Don't send any money, just fill in and mail coupon. I will immediately send you two $1.00 packages of "MORE EGGS." Pay the postman upon delivery only $1.00, the extra package being ***FREE!*** Don't wait—take advantage of this free offer TODAY! Eggs are steadily advancing in price and will reach the $1.00 per dozen mark long before the middle of winter. Reap the *BIG* profits "MORE EGGS" will make for you. Don't let your neighbor get the advantage of you—you, too, can have plenty of eggs to sell when the price is highest, if you'll only act ***NOW!*** Send today! Right now!

E. J. Reefer *Poultry Expert*

Backed By a Million Dollars!

4662 Reefer Bldg., Kansas City, Mo.