

# KANSAS FARMER

For the improvement



of the Farm and Home

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## BREEDING FOR EGG PRODUCTION

### Male Transmits Inherited High Production to Daughters

By THOS. OWEN

**T**HE habit of some farmers to get new roosters every year to head their flocks was not a bad one, provided they got the birds from a strain of high producing hens. Probably they were unconscious of the fact that they were following the teachings of practical scientific breeding.

The great influence that the sire exerts over his progeny is not generally known or appreciated among poultry breeders and far less among farmers. Expert dairymen have known for many years that the males at the head of their herds have a wonderful influence on the milk production of their daughters, and the value of the male is often predicated on the milk capacity of such daughters. When a bull produces daughters that have unusual capacity in milk production the owner uses and keeps him at the head of his herd as long as he can. We see this emphasized on reading the pedigrees of dairy cattle, the male being stated to be the sire of so many daughters that have made extra good records in milk production and placed in the Register of Merit class.

The poultry breeder is being gradually educated up to this same science as applied to his poultry breeding, and the intelligent ones are taking advantage of this knowledge to increase the egg production of their hens. Prof. W. A. Lippincott, head of the department of poultry husbandry at the Kansas Agricultural College, had this to say of the matter: "Science recently has told us that high egg production cannot be transmitted from mother to daughter, but that it is transmitted from sire to daughter. While the following facts taken from the experimental records at the college do not prove conclusively these propositions, they certainly do show that egg production may be transmitted through the male. A mongrel farm hen was trapped and found to lay 122 eggs a year, which was unusually good for a mongrel. She was mated with a White Leghorn male from a high producing family, and her daughter laid 161 eggs. This daughter was mated to another White Leghorn male of high producing family, and one of her daughters laid 194 eggs. She in turn was mated to a White Leghorn male of high producing family, and one of her daughters laid 260 eggs in a year, which would be considered a good record anywhere. In a similar manner a mongrel farm hen which had laid ninety eggs in a year was mated to a Barred Rock male from a high producing family and one of the daughters which was trapped laid 120 eggs. This daughter was in turn mated to another Barred Rock male of a high producing family, and one of her daughters laid 175 eggs. She was in turn mated to a Barred Rock male from a high producing strain and from this mating was secured a daughter that laid 250 eggs. Using high producing males for three generations improved the egg production in these individual cases by more than 100 and 150 per cent respectively."

To the scientific statement that high egg production cannot be transmitted from mother to daughter, we would have to bring in a Scotch verdict of "not proven," and let the female go for lack of sufficient evidence. But the evidence in the case of high egg production be-



PEN OF FOUR BARRED ROCK PULLETS HAVING RECORD IN EGG-LAYING CONTEST OF ONE THOUSAND AND FIFTY EGGS IN ONE YEAR

ing transmitted from sire to daughter is irrefutable and convincingly conclusive. Just think of it! By just purchasing a five-dollar rooster and putting him at the head of your flocks you can in three years get from 100 to 150 more eggs a year from each of your hens. Is not this a consummation devoutly to be wished? It is said that the man who causes two blades of grass to grow where only one grew before is a benefactor to his country. What about the man who increases the egg production of the hen 100 to 150 per cent, with eggs selling at 75 cents a dozen!

It behooves us poultrymen, therefore, to take advantage of this scientific fact to augment the productiveness of our

hens. The farmer in changing roosters every year probably did it more for fear of inbreeding than to increase the egg production of his hens, but he can do both by procuring males from high producing families. He can do this by buying males from reliable poultry breeders who have been increasing the egg production of their hens for several years.

If your hens are of a certain standard breed of fowls, you should get a male of the same breed to mate them with. If they are nondescripts or mongrels it does not matter so much to what breed the male belongs so long as he comes from a high producing line of females. Probably we ought to qualify that phrase "it does not matter so much to what breed he belongs," for it does

matter if you wish to increase the size of your pullets as well as to augment their egg production. For the male certainly increases the size of the progeny as well as the egg production. It therefore would be better to produce males from the larger sized breeds rather than from the smaller sized ones, for thus you could kill two birds with one stone; increase the size of all the progeny and especially increase the laying qualities of the pullets.

Unless one is catering exclusively to an egg trade, it is advisable to raise a larger chicken than is now on the average farm. The great poultry houses continually urging the breeding of large fowls on the farm and are now offering four cents a pound more for hens weighing over three and one-half pounds each than for those weighing less. You not only get more money per pound of meat, but you get more money for the larger fowl. One packing firm in Topeka has been offering cash prizes for the best pens of certain breeds of fowls, and the breeds they pick out for these prizes are the White Plymouth Rocks, the Barred Rocks, the White Wyandottes, the White Orpingtons, the Buff Orpingtons and the Rhode Island Reds. These all produce good-sized fowls. This packing house also has a preference for white-feathered chickens, or at least for those that do not show dark pinfeathers, for in most markets fowls with dark pinfeathers are not as salable as the white-feathered breeds.

An easy way of increasing the weight of the ordinary farm flock is to buy a pure-bred male of any of the larger breeds of fowls. The few dollars that you paid for him would soon return to you in the increased size of your hens and pullets. Suppose the average weight of your hens is three pounds. You buy a Plymouth Rock or an Orpington male that weighs nine or ten pounds and you mate him to your three-pound hens. Since the male is half the pen or flock, the result would be a progeny that when mature would weigh six or seven pounds, an increase of two or three pounds per fowl the first season. Figure out how much profit that would be on several hundred fowls at 25 cents a pound, for with even one rooster and a dozen hens several hundred chicks could be raised in a season.

This is the easy way to an increase of flesh and an increase of egg production in the average farm flock. Of course the better way would be to get rid of all the scrub fowls at once and breed pure-breds only. But this cannot be done in a day, so we advise the easy way, which will pave the way for the highly developed pure-bred flock.

#### The Egg-Laying Hen

Hens that are high producers are distinctly feminine. They are fine-boned, with soft, pliable skin; their pelvic bones at each side of the vent are straight and pliable; far enough apart to allow an egg to pass through easily. The high production hen has to have great food capacity, she must be strong and active, always scratching, up early and late, and always busy and happy.

Hens of this sort are of the right type to return a fair profit if they are given a fair chance in feed and quarters.

**CULL THE FLOCK CLOSELY** and breed from the best hens you have.

**USE ROOSTERS FROM STRAINS** known to have high egg production records and raise quickly the standard of the flock.

**TRAP-NEST RECORDS** HAVE PROVEN beyond question that males transmit to their pullets high egg-production qualities of their dams.

**INCREASES OF FROM 100 TO 150 eggs** annually from each hen in the flock as an average can be made in three years' time by using males from high egg-producing strains.

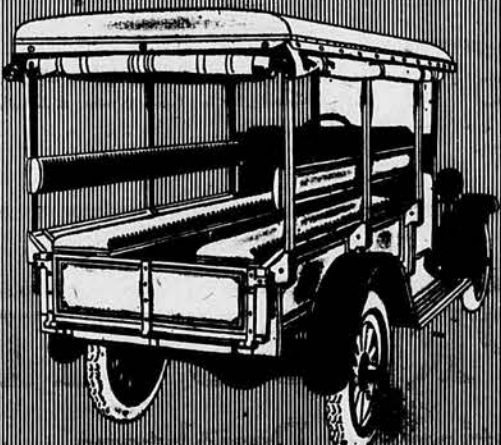
**WEIGHT OF POULTRY PRODUCED** for market can be increased by using well developed males of the larger breeds.

**GET RID OF ALL SCRUBS** and mongrels as quickly as possible. Buy some good setting eggs and a few good hens.

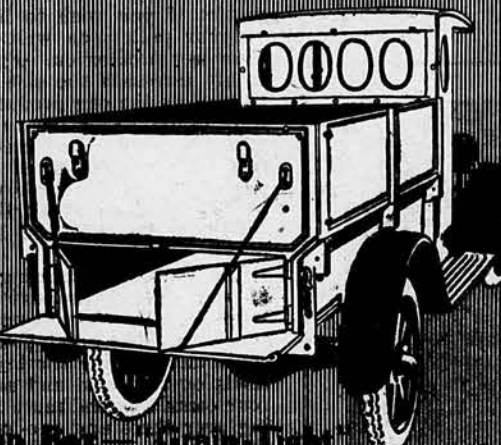
**THE CHEAPEST AND MOST RAPID** way to improve the average farm flock is to buy high class roosters with known production records back of them.



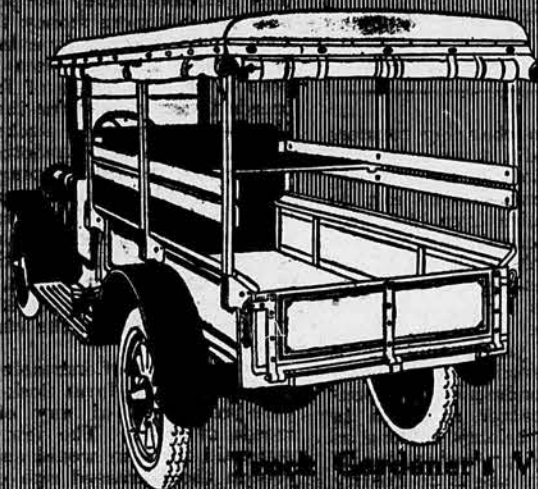
# REO



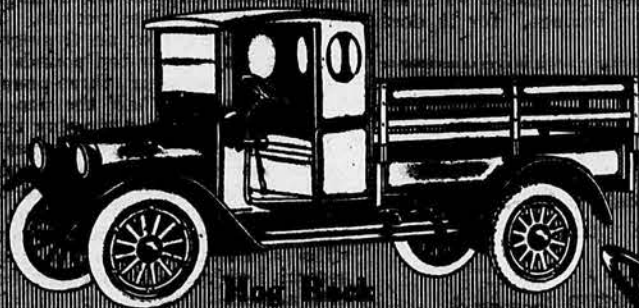
Passenger Car or "Carry-All"



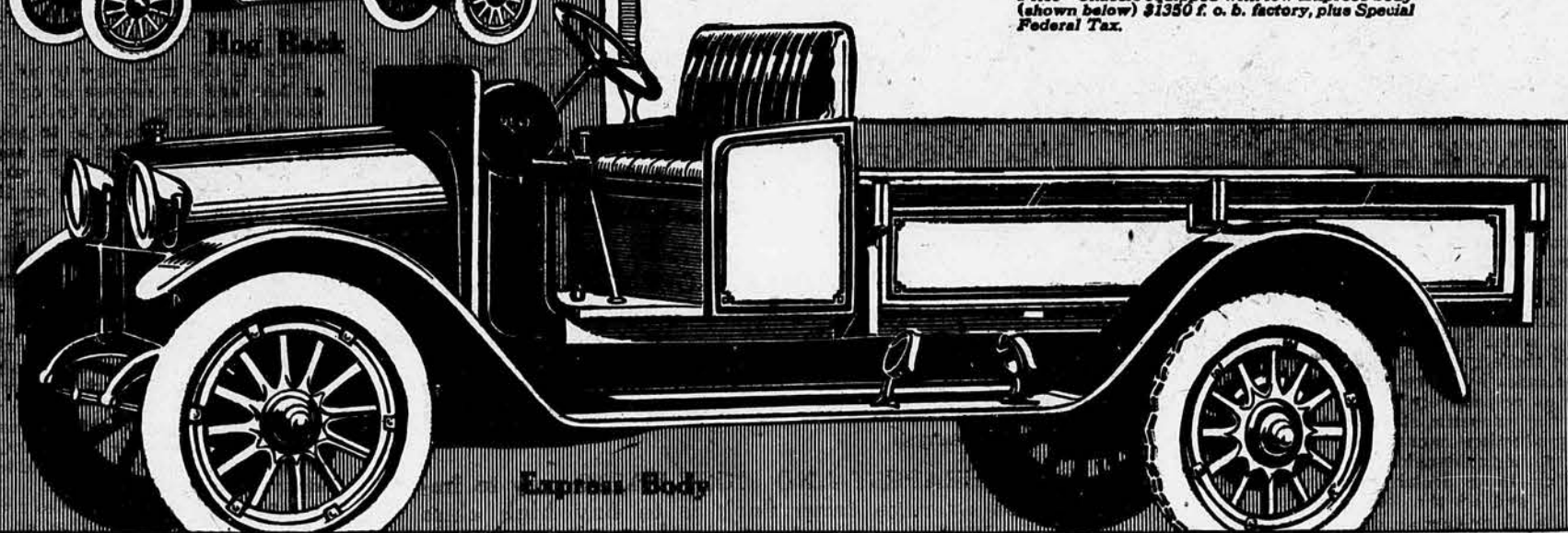
Top Box "Crane-Tight"



Truck Gardener's Van



Hog Back



Express Body

## Another Triumph for Reo Engineering

There has existed a great need for a more adaptable motor truck.

The need was not for a chassis, for the Reo "Speed Wagon" had proven, in several years of use, that this chassis is ideal for every class of farm hauling.

But there was great demand for a body that would enable you to carry a maximum load of any commodity regardless of its density.

Many attempts have been made to develop a body that would be readily convertible into several practical forms.

Some of these have been successful to a degree.

Fault with all of them, however, was too much complication—too many adjustments and connections to get out of order.

Such construction also ran into a lot of needless weight to be carried all the time.

It remained for the Reo engineers to solve the problem in the simple, direct, substantial Reo way.

And they did it, not by making a convertible body that would fold first into one form and then another, but by a set of sectional units with one basic body as a foundation.

This basic body itself performs fully fifty per cent of all delivery service.

No user will need all the extra sections.

Each user will, however, need one or several of them.

You buy the Reo chassis equipped with the basic—low express—body shown below.

Then, to fit your special service, you select such other attachments or sections as you find most applicable to your work.

This Reo body in its several forms meets every requirement of speedy, economical hauling—in city and suburban as well as rural service.

There are seven forms in all.

On the left we show four forms of this body.

The other forms you may obtain at a few dollars extra cost.

Need we add that the chassis on which these body types are mounted has been longer in service and has been more conclusively proven than any other?

It is, in fact, the pioneer of its class—the first motor truck to be mounted on pneumatic tires.

Also, lest you forget; Reo was the first to see the need for, and to equip a motor truck with electric starter and lights.

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This Reo proved the superiority and the greater economy of the pneumatic-tired truck.

In operation and upkeep cost this Reo easily surpasses all others.

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Your own Reo dealer will show you this versatile Reo "Speed Wagon" with the seven styles of bodies and quote you price on such as you may select as best suited to your own requirements.

Demand is—tremendous. Always is for Reos, but this season more so than ever before.

Only way to be at all certain of getting a Reo "Speed Wagon" for early delivery is to place your order at once.

Today won't be a minute too soon.

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Price—Chassis equipped with low Express body (shown below) \$1350 f. o. b. factory, plus Special Federal Tax.

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## KANSAS AGRICULTURAL COUNCIL

On the formation of the Agricultural Council of Kansas a movement has been started for mobilizing the political forces of the farming interests of the state. Farmers of Kansas and of the whole country constitute the largest single group of our people, but they have the least political power. It was pointed out in a resolution adopted at the annual convention of the State Board of Agriculture last month that unless farming organizations of the country take a united hand in the shaping of legislation bearing on the problems arising out of the war, there is grave danger that measures will be enacted which may lead to permanent injury to agriculture. At this meeting it was decided to extend invitations to the various farm organizations of the state to select representatives to meet at the office of the secretary of the board for the purpose of formulating plans for united action. The Farmers' Union at its annual meeting endorsed the idea and, with other organizations representing rural and farming interests, selected representatives to attend a meeting which was held at Mr. Mohler's office January 24 and 25. We commented on this idea of getting farmers' group to unite on a definite program in our last week's issue. There are certainly enough things upon which the different organizations representing farmers can agree to make such a plan feasible. Dr. E. A. Ryan, who for twenty years has been president of Washington Agricultural College, recently urged the necessity of forming a agrarian group both in our state legislatures and in the national congress. He considers such a grouping inevitable, and is anxious to have it come quickly, adding it can have wise leadership. Farmers will naturally be found in different political parties. We do not believe it possible or advisable to look toward a farmers' political party, but it is possible and feasible for a farmers' group to stand together, irrespective of party, on matters affecting their interests as a class. Through such an organization farmers can exercise the power they possess politically.

The Agricultural Council of Kansas, which met in the office of the Secretary of the Board of Agriculture last week, adopted the following executive committee: President, O. O. Wolf, Ottawa, Kansas, representing the State Board of Agriculture; Vice Presidents B. Needham, Lane, Kansas, representing the Grange; Maurice McAniff, Safford, Farmers' Union; John Boles, Liberty, Equity Union; G. B. Estes, Stafford, Farmers' Co-operative Grain Dealers Association; George Donaldson, Hensburg, Kansas State Live Stock Association; O. F. Whitney, Topeka, State Horticultural Society; Miss Lizzie Wooster, Topeka, rural schools; and Secretary J. C. Mohler. The program agreed to at this conference expresses the united voice of the farmers of Kansas. The object of the Council as stated in the constitution adopted "shall be to promote the common interests of those engaged in farming in Kansas, and to develop and upbuild the state's agriculture generally, through legislation, education and co-operation." The Council is adjourning agreed upon a number of legislative measures and formulated the following statement:

We endorse the Torrens land title legislation bill now before the State Legislature.

We favor the repeal of the rebate law, but are not in favor of having taxes paid in one annual payment.

We are in favor of an act regulating the labeling, branding and sale of cultural seed.

We favor the permanent protection of small and prairie chickens.

We favor some more equitable system of levying and distributing taxes for the support of the rural schools.

Children of Kansas are entitled to quality of opportunity in our public schools.

We favor legislation that will put

## Poultry Production Big Business

ONE of the big industries of Kansas is poultry production. We do not fully appreciate its importance because it is a big business only in the aggregate returns and the number of persons engaged in it. Last year, according to statistics of our State Board of Agriculture, the poultry and eggs sold in Kansas returned almost \$15,000,000. That is a lot of money, and the fine thing about it is that it goes to all the people. There are no favored few monopolizing this industry.

Our poultry products do not come from specialty farms. We do not know of a farm in Kansas devoted exclusively to poultry. It has been estimated that 98 per cent of the poultry products of the whole country come from the general farms—the farms where the women in addition to other duties too numerous to mention, find time to care for a flock of poultry, set the hens or run incubators, raise the little chicks, and all through the year send to market eggs and poultry, using the money to pay for groceries, school books for the children, part of their clothing, and perhaps even help to pay the taxes.

This big-little business of poultry production could be made to return double the amount with which it is credited at the present time. Increased production and greater profits are dependent upon the general application of improved methods in breeding and management. Poultry production fits so admirably into the farming enterprise as a whole that it can be profitable even though all up-to-date, modern improvements are neglected. But this is no argument for failing to take advantage of new ideas and methods such as have of necessity been adopted by specialists in poultry production. A proper realization by the men of the farms of the importance and possibilities of poultry production and a little more co-operation on their part would result in greatly increasing the profits of this business.

*G. C. Wheeler*

the office of county superintendent on a salary basis the same as that of other county offices calling for an equal administrative ability.

7. We favor the passage of House Bill No. 2 or Senate Bill No. 9 relating to the representative of the State Board of Agriculture on the State Text Book Commission. (These bills provide that the present law be so amended that the Board of Agriculture shall be represented on the Textbook Commission by a member to be elected by the Board instead of by the president of the Board, who is a member ex-officio under the present law.)

8. We favor a law providing for the forfeiture to the public school fund of a per cent of every estate, or part thereof, which the owner in life failed to return for assessment and taxation.

9. We are opposed to pensions for any professional class.

10. We favor the strengthening of the anti-discrimination law.

11. We endorse the law governing the public utilities commission as it stands today, but believe that one member of that commission should be a practical farmer.

12. We believe the so-called benefit district system should be maintained when hard surface roads are built in this state.

13. We are opposed to the weakening of the present Commission Merchants Law.

14. We are in favor of the enactment of a law requiring a closer working relation between the local co-operative associations of the state and the State Board of Agriculture.

The Council also endorsed the movement looking toward the standardization of farm machinery so that all similar parts shall be interchangeable regardless of where or by whom manufactured.

## COST OF PRODUCTION

The very nature of agriculture makes it impossible to have accurate figures on production costs such as can be worked out in many industries, but that is no reason for throwing up our hands and making no effort to keep cost accounts on the farm. We cannot hope to win out in the contention for adequate returns for the crop produced unless fairly definite figures can be given on production costs. The State Board of Agriculture is endeavoring to accumulate figures through a series of questionnaires which are being sent out to farmers all over the state. In practically every farm bureau county definite studies into the costs of producing various crops are being made. We would urge the most hearty co-operation with every effort made to get at the facts, for the business of farming is under a serious handicap due to the lack of reliable information as to the cost of producing various crops and live stock products.

## MANHATTAN NEXT WEEK

Monday, February 3, from all sections of Kansas men and women, boys and girls will be arriving in Manhattan to attend the Farm and Home Week program. The meetings of the week will be grouped under eight general divisions: agriculture, home economics, community service, engineering, boys' and girls' work, meetings of state associations, beekeepers' short course, and cream station operators' short course. Talented men and women from all over the country will deliver addresses during the week. A feature which is certain to be most enjoyable will be the community sing which is to be a part of each evening program. This will be conducted by Chester H. Guthrie, musical director at Camp Funston.

The formal inauguration of Dr. William M. Jardine as president of the Kansas Agricultural College will take place

Tuesday, February 4. The principal speaker will be Dr. Raymond A. Pearson, president of Iowa State College. Doctor Pearson has a nation-wide reputation as a leader in agricultural progress, being most widely known as an authority on dairying. During the war he served as a special assistant to the Secretary of Agriculture.

The college authorities will spare no efforts in showing the whole institution to the many visitors. Every door will be open and guides will be provided to conduct visitors through each building. Farm and Home Week is an occasion for every man, woman and child, and we hope many of our readers will be able to spend the whole week at our Agricultural College.

## ENGLAND'S EDUCATIONAL POLICY

If England after the most careful consideration refuses to adopt a policy of universal and compulsory military training as part of its educational system, why should such a policy be so persistently urged for this country? It would seem impossible to inaugurate in this country a scheme so contrary to all American ideals and traditions, yet we are being constantly urged to do so.

The educational act in England, to which we have referred before, completely remodels England's educational system, from primary to university. It was worked out and passed in the midst of the strain of battle when the nation was fighting for its existence. The significant thing about it is that it contains no provision whatever for universal, compulsory military training. It does provide, however, most carefully and adequately for the physical training of the English youth, both boys and girls, but not in its minutest details would one suspect that such a thing as military training had ever even been thought of as a matter of importance.

The minister of education said that the government had gone into the question of universal and compulsory training thoroughly, and had decided that the proposal had neither educational nor military value. Although there was opposition, the government plan was adopted.

Before we fasten upon ourselves a policy so foreign to all our own traditions, might we not consider what this action in England means. With England moving definitely away from a program of militarism, why Prussianize the educational system of this country?

## MEETING OF WOMAN FARMERS

The annual meeting of the Kansas branch of the National Woman's Farm and Garden Association will be held in Topeka February 24, 25 and 26. A splendid program has been arranged which will interest the woman who already has a farm or who contemplates buying a farm. Some of the subjects to be taken up at this meeting are the home garden, by supervisors of gardens of the Girls' Working Reserve, a better market for farm products, and the establishing of community clubs among farmers' families in all school districts of Kansas. Mrs. Theodore Saxon is president of this organization for Kansas.

## PICTURES OF BAD ROADS

The Kansas Good Roads Association is offering \$50 in cash prizes for good photographs of bad roads. The pictures must show some horse, person or vehicle stuck in the road. We presume these pictures are to be preserved in the State Historical Society as relics in the days to come when bad roads shall be no more. Whatever the purpose, J. Frank Smith, secretary of the association, wants the pictures with a few notes giving the location, names of persons and other local information.

He who helps a child helps humanity with a distinctness, with an immediateness which no other help given to human creatures in any stage of their human life can possibly give again.—PHILLIPS BROOKS.



# BOYS' AND GIRLS' POULTRY CLUBS

## Club Members Make Good Profits and Win Valuable Prizes

By JESSIE STEVENS McCAFFERTY

**O**NE of the educational features of the Department of Agriculture is the poultry club work for boys and girls. It teaches them to love the farm work rather than to feel that it is all drudgery.

"Ninety-five per cent of the men in the penitentiary never had a living thing of their very own to care for," not even a chicken. So we feel sure that not one of our club members will ever be found in the penitentiary, for they learn to love first the fluffy little chicks and the love broadens until it reaches every living thing on the farm and new interest is added to the every-day chores by the thought of the club meetings, the possible chance to display their products both locally and at the fairs, and the visits of the county agent or club leader. A new source of inspiration is added to the lives of the boys and girls on the farm by the contest spirit of the clubs.

Here is what one county is doing in the poultry club work. In Jefferson County there are a number of poultry clubs, and thirty-eight boys and girls have finished the year's work and will soon receive their achievement pins and diplomas. These thirty-eight boys and girls have raised forty-four and one-half dozen chickens this year at a cost of \$245, making a net profit of \$439.68.

Geneva Kirchner, an eleven-year-old McLouth girl who won first prize, raised the largest number of chickens of any member in the county, having raised to maturity forty-six Rhode Island Reds out of a hatch of sixty. She had a net profit of \$22.97 after building coops worth \$6.12 and paying for all feed used for her chicks. The following is an extract from her club story:

"On March 28 the county club leader came to my school house and gave us a talk on how to start a poultry club. I received my parents' consent, so I filled the blank and joined the club. My teacher, Miss McHenry, is my leader. I decided to locate my chickens in the orchard on the south slope of the hill a few feet away from the well. My papa fixed a fence around the orchard and built me several nice coops from directions sent out by Mr. Wiegand. (Mr. Wiegand is the State Poultry Club leader.)

"I kept hatching chicks until May 7 and hatched sixty. I kept them after hatching from twenty-four to thirty-six hours without feed, then I gave them yolks of hard-boiled eggs and oatmeal. After that I gave them baked cornmeal and sour milk and let them run in the orchard on green oats, while the old hen was shut in the coop. I have eaten and sold some chickens and have about forty left. I haven't made any profit yet, but expect to when they begin laying eggs."

Frank Potts, of Dunavant, raised a flock of Buff Rocks. He took first prize at both the Valley Falls fair and the Kansas Free Fair at Topeka. This is the thought that made Frank take such good care of his chickens: "The money I make out of my chickens I am going to use to help Uncle Sam by buying baby bonds."

The poultry club members of Jefferson County were graded this year by their record and story and by the per cent of chickens raised. Isla Piplov, an orphan girl who has found a home with some good farm people near Oskaloosa, won second prize in the county. Isla belongs to the Pleasant Point poultry club and raised Barred Rocks. This is what she has to say about her poultry club work:

"I hatched out twenty-seven chickens and have twenty-four left. One died in the nest and the other two were killed accidentally. I like my work just fine and feel paid for joining the poultry club and will do my best another year even though I don't happen to have such good luck. Boys and girls should be active members of the poultry club because it teaches them while they are young to care for chickens and gives them spending money and when they are older they will feel paid for joining; at least I think I will."

"If you expect good returns from your chickens you must have a good chicken house. The chicken house should have plenty of ventilation and no draft. A big scratching room littered with straw where grain can be thrown so the chickens can hunt for it is a good thing.

"A good location for a chicken house is on a southern or eastern slope near an orchard or wood lot. In the winter the snow melts so much more quickly on a southern or eastern slope and it makes a much warmer place for the chickens and the trees in the orchard or wood lot make shade in summer. Keep nests clean and provide a nest for every four hens."

Florence Singer is winner of the third prize. She belongs to the Progressive Club and raised some Brown Leghorns. In her story she tells us about them. She says:

"When my chicks were hatched I put them in a box and gave them no feed for forty-eight hours. After that I fed them chick feed and corn bread crumbs. I put them with a good hen. Little chicks require a mother hen to give them warmth. My chicken coop was a home-made affair with a sloping top which allowed the water to run off. Houses and coops should be cleaned often to keep them in a sanitary condition."

"Boys and girls should take an active

cheer, who is president of the Plum Grove club. Raymond has learned how to cull his flock of pullets for layers. We will tell you all about it in another article.

Helen Anderson, president of the Lone Tree club, tells us some interesting things about her club work. "On April 30," she says, "I went to feed and water my hens and found I had some cute little chicks. Oh! how it tickled me, but only twenty hatched. The hens smashed two chickens, and the rest of the eggs were rotten. I gave all twenty chicks to one hen that night."

"The first feed was cottage cheese and water. When a week old I fed corn chop, meat scrap, and grit, and I kept clean fresh water in clean pans all the time. I put the coop in the edge of the orchard and cleaned it out and put 'dip' in it once a week. One night some pigs got out and rooted the door of the coop open and ate two of my pretty white chickens. An automobile ran over one. I still have sixteen chickens left. I am glad I joined the poultry club. I

eyes open for something that will or hurt our birds more than if they mother's or a neighbor's."

"My first settings of eggs did hatch very well. I got only three chicks from fifteen eggs and five from another setting, so I tried again, this time setting thirteen chicks from fifteen eggs. I put them in a little yard. I fed corn meal baked into dry cakes. Corn bread was crumbled up and mixed with the yolks of hard-boiled eggs water. I gave them this when about twenty-four hours old. They began droop on the fifth day. I doctored for lice and mites, but it did no good and when I had only five left a neighbor said he believed they had chills. They did, and the other five died a couple of days. By this time another hen came off the nest with twelve chicks. I was very careful that they were kept out of the grass. The rats got two of them and two went to furnish a breakfast for a pretty little mother with stripes on her back and a very strong scent, but she don't need another breakfast, as a steel trap took charge of one. One of the cockerels lost two toes. I was digging worms. I guess he was digging worms. I have a left—four pullets and four cockerels."

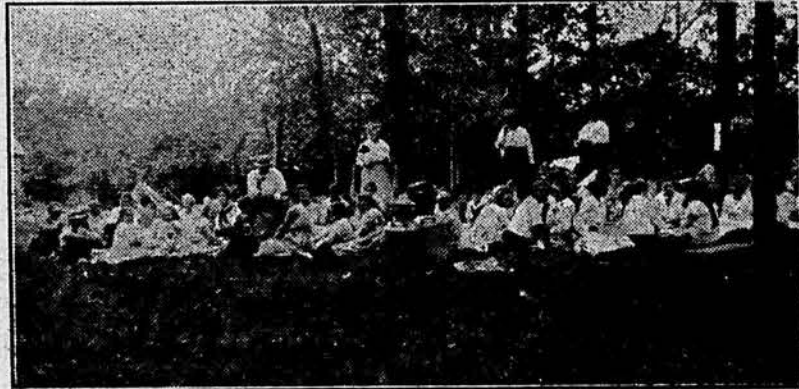
"I have a late hatching, but I guess August was too hot for them. I saved seven and they would have smothered had I not taken them from the nest as soon as they were hatched."

"It is a rest to go to school again, tell you. I am twelve and in the eighth grade. I have always lived in Kansas City until last November, so you see this poultry raising and garden growing is new to me. The garden business doesn't really belong in the poultry story, but if it hadn't been for the den I would have had nothing to sell my chickens, as what we sold and left-overs almost kept our flock during the summer."

Veta Roberts won the silver cup for the Plum Grove club at a county picnic in July. She gave a demonstration in egg testing.

Other members have done things as interesting as the few mentioned here, but it will be impossible to tell about it at this time. Surely the boys and girls have done their part to help produce meat and in this way a little in the winning of the world. The clubs are already organizing next year, as the need for food will just as great as it was this year. Boys and girls have learned to love work and expect to keep it up for great many years. Next year we hope to have a much larger number to well each step as they go and finish their job," or, in other words, to achieve their goal.

The cut is from a picture taken by Mr. Wiegand at the Poultry Club picnic July 12. It was at this picnic that trophies and other prizes were awarded.



SCENE AT POULTRY CLUB PICNIC WHERE TROPHIES AND PRIZES WERE AWARDED

interest in their club and be active members. If they succeed, this acts as a stimulant to boys and girls who do not join a club and more can be encouraged to do so next year.

"I enjoyed being a poultry club member. I hatched twenty-eight chickens and raised twenty-one. Some of my chickens thought the best place on the farm was in the garden, so I was forced to sell them. I still have ten pullets and one cockerel."

One member that deserves special mention is Raymond Buckley, of Win-

chester, who is president of the Plum Grove club. Raymond has learned how to cull his flock of pullets for layers. We will tell you all about it in another article.

We have been giving extracts from some of the most successful of the club members and will now give a part of the story from a boy who did not find the club work all sunshine. George Utter, of the McLouth club, says:

"I think that all boys and girls should be active members of poultry clubs, as it shows us that there is something to do besides play and gives us something of our own and we learn to keep our

## Achievement Day at Delphos

**T**HE first annual Achievement Day celebration of the boys and girls' clubs of Ottawa County was one of the big events of the season in that county. This celebration was planned and directed by the county club leader, Miss Jessie G. Adey, and was held in the little town of Delphos.

Although it rained on the first day, the club spirit was not quenched. Early in the morning the club leaders and members began coming in with their loads of exhibits. They tied the chicken crate on the running board, cranked up the little Ford, and let it rain. The next day the sun shone, the chickens crowded, and everybody smiled and came to see the show. A large store building was closely filled with the exhibits of the poultry, canning, garden and baking clubs. People couldn't stop for mud or the "flu." They just had to see the show, and the building was thronged.

Over forty of the breeders of purebred poultry in the county showed their appreciation of the work of the boys and girls by offering premiums—not dollars and cents or shiny gewgaws but real live chickens and settings of eggs for the young poultrymen to begin business with next spring. The sauciest cockerel could step no higher than the boy that found a blue ribbon on his coop.

At the opera house the members sang

club songs and gave demonstrations of the cold pack method of canning and of baking war bread. Ross M. Sherwood of the agricultural college gave an illustrated lecture in the evening and Miss Lottie Milam addressed the afternoon assembly. Mr. Sherwood was the judge of the poultry department and Miss Milam of the canning and baking demonstrations.

The garden club members were a little in the background this time, but they have the Kansas spirit and will go in again next time and win. They can't make it rain, but they know a good deal about making things grow with little rain. They each spent at least ten hours on their gardens last summer, that they might have idled away, and they have a vision of the possibilities of service, and that counts most of all.

The ninety-six poultry club members in the county this year hatched 2,664 chickens and raised 1,675 of them. Four hundred were sold as broilers, leaving 1,275 on hand to begin next year's work. Boys and girls who used to coax daddy for spending money now can buy a fine cockerel or a baby bond with their own money and they think twice before they spend it for frivolous things. That is the finest thing about club work. It is developing character in boys and girls.

## Feeding the Small Flock

It is not a hard matter to keep a small flock laying the year around. A small number of hens we can keep almost summer conditions in the winter and this is what is needed to make a lay. We can get scrap meat from the butcher to take the place of the corn and worms. Then we can sprout around the furnace, which takes the place of green food. Oyster shells and charcoal should be kept within reach. Charcoal can be made by burning a piece of pine board in the stove and when it gets burned to red dropping it into a pail of water. Chickens are fond of this and it is one of the very best conditioners. If hens have pale combs, try putting a rusty nail or a piece of rusty iron in the drinking water. They get a certain amount of iron in the green food but occasionally need more, especially in winter.

I find the best feed for laying is one-third bran, one-third shorts, one-third corn chop by measure. To a crumbly mash and feed twice a day, then a little whole grain of kind thrown in the litter to keep the scratching. Chickens fed in this way and kept well watered should lay many eggs in winter as in summer. Mrs. LIZZIE B. GRIFFITH, Lyon Co.



# GENERAL FARM AND STOCK ITEMS

Something of Interest for All—Overflow from Other Departments

ANY orchard and fruit-growing failures are the result of putting out more trees than can be properly handled in connection with work of a general farm. In the early days when insect pests and plant diseases were not so prevalent, fruit could be grown without giving the trees much special attention. Now it is a constant fight, and only such trees as can be planted as can be given the attention necessary. On the general farm a few trees given proper care will produce more fruit and fruit of better quality than the necessarily neglected plantings.

A small farm orchard is being urged by Prof. Albert Dickens, horticulturist at the agricultural college. He reports that forty farmers in Kansas have agreed to put out small one-acre orchards the coming year following the plan recommended. Thirty trees are included in the plan, the varieties being as follows: Two Live-Raspberries, two Yellow Transparencies, two Duchesses, two Wealthies, four Golden, five Jonathan, two Empires, four Delicious, two York Imperials, and five Winsaps. Six cherries are included—three Early Richmond and three Early Montmorency; nine peaches, as follows: One Greensboro, one Amosden, two Champion, three Belle of Georgia, two Late Crawford or Chinese Cling, three pears—one Kieffer, one Seckel, and one Wild Goose; one Burbank, and one Worden; twenty-four grapes, as follows: Moore's Early, eight Concord, three Worden, three Brighton, and three Catawba.

It will be time to set out our spring orchards before we know it. Orders should be given early. In fact, find it pays to send in the orders for fall for spring delivery.

## Houston on Farm Costs

Secretary Houston has been accused of being out of sympathy with the desires of our farmers for systematic effort to get at the cost of producing crops. A lack of dependable figures was a serious handicap in connection with the price-fixing during the war. Secretary Houston in his address to the Association of Agricultural Colleges and Experiment Stations which he delivered in Baltimore recently had something to say on this point of determining farm costs, and his statements will be of interest in this connection. "For many years," said Secretary Houston, "I have been deeply interested in farm management, a vital part of the economics of agriculture. I am by no means satisfied with our present plan of especially with that part of the work of the office (the Department's office of Farm Management) relating to the costs of farm crops. The office has done valuable work in a number of directions. But some of the

studies of farm costs, especially those made during the war, were unsatisfactory in method and were highly inadequate in point of interpretation and presentation. I need not enlarge on the difficulty of securing real costs, especially of the staple products produced by millions of people over half a continent under systems of mixed farming. I realize that we can not secure precise cost figures for each unit produced. Averages which will serve as guides are the best we can hope for; but we can at least insist that efforts be made to secure actual reliable data on representative farms and that these be satisfactorily interpreted. Nothing but the facts will help the farmers or any other class in the nation. Impressionistic studies are highly likely to be misleading.

"I have already had the situation canvassed by able and impartial committees. I am now invoking the assistance of a number of experts. I shall invite the help of the best and most experienced minds in your body, and shall hope at the proper time to lay before the Congress a carefully considered scheme for an effective Office of Farm Management. I shall hope that full contracts may be established between this office and similar offices in the agricultural colleges, so that in due time we may be able to give more competent information to the farmers of the nation in the field of agricultural economics."

## Popcorn Returns Big Income

A five-acre patch returned \$1,000 to a Sedgwick County farmer last year, in spite of the unusually dry weather which prevailed. The crop was popcorn, the demand for which is in excess of the supply and has been for several years. The county agent of Sedgwick County supplies the information about this large return.

H. K. Mountz, whose farm is five miles south of Wichita, has specialized in raising pure-bred seed corn and probably sells more seed than any other farmer in the county. Last year he had in five acres of white pearl popcorn and marketed 6,500 pounds at 15 cents a pound, saved a hundred pounds for seed, and had at least a hundred pounds of cull grain for chicken feed. The total yield of the five acres was more than 6,700 pounds, and he considers this only about half what it should have yielded if it had not been for the extremely hot and dry weather which prevailed during the summer season. There were many spots in the field with little or no corn and other places produced large yields. County Agent Macy called when Mr. Mountz was husking the popcorn in this field and asked that he keep records of the yield and returns in order that others might have actual facts. There are not many farmers in that section who harvested as profitable a crop from a similar acreage during the sea-

son of 1918. The returns Mr. Mountz obtained from this crop show that sometimes what are commonly considered small crops are highly profitable. It probably would not be wise for everyone to attempt to grow popcorn extensively, but there are opportunities for good profits in growing this crop, as we have pointed out a number of times in KANSAS FARMER. Mr. Mountz plans to raise eight acres of popcorn the coming year.

## Dynamite in Horticulture

Dynamite is being advocated for blasting the holes in setting trees. W. S. Doolittle, of Leicester, New York, tells of his experience in setting some Lombardy poplar trees the spring of 1915. He says:

"We needed a few of these spiral trees to get a variation and to set off the large spreading trees which were already on the property. These poplars were just the usual slim trees which you ordinarily get from a nursery for setting out, and were from seven to eight feet tall, with about one inch diameter at the base.

"When the lot reached me I took home several sticks of low grade dynamite, which we used for blasting salt. This powder is I think only about 17 per cent.

"I took a crowbar, punched holes about two feet deep, took one stick of this powder, tamped it into each hole, filled the holes with mud and water, and fired the charge with an electric detonator, using a dry battery for firing.

"In three years time these trees have attained a height of about thirty feet, and are six to seven inches in diameter at the base. Those planted by dynamiting show a most marvelous growth. Two trees of this lot were not planted with dynamite, as I did not take home enough to plant them all. These two trees planted in holes dug with pick and shovel have grown, but are weaklings alongside of those planted in blasted holes."

Under certain subsoil conditions this method of setting undoubtedly has its advantages. In planting trees of any kind it is of the greatest importance to know just what kind of subsoil is found where the plantings are to be made. With this knowledge it is possible to adapt the procedure to conditions as they exist.

## Sprayed Orchards Pay Best

The following reports on the results of properly spraying and handling orchards come from Missouri:

W. T. Sallee, Exeter, Barry County, sprayed 600 trees at a cost of \$50 and made a profit of \$1,550; J. C. Elston, Exeter, Barry County, sprayed 1,600 trees at a cost of \$607.40 and made a profit of \$1,663.73; J. B. Bargold, Wakenda, Carroll County, sprayed 600

trees at a cost of \$144, profit \$1,156; J. E. Roberts, Maysville, DeKalb County, sprayed twenty trees, cost \$12.31, profit \$147.69; P. R. Jaeger, Boonville, Cooper County, sprayed 450 trees, cost \$160, profit \$2,840; B. H. Hamilton, Gazette, Montgomery County, sprayed 1,000 trees, cost \$130, profit \$2,570; Harry Barrett, New Haven, Franklin County, sprayed ninety trees, cost \$12, profit \$263; Oberle Brothers, Weldon Springs, St. Charles County, sprayed 3,000 trees, cost \$500, profit \$6,771.39; A. K. Stephens, Farmington, St. Francis County, sprayed 200 trees, cost \$35.48, profit \$136.37; O. E. Tanzenberger, Jefferson Barracks, St. Louis County, sprayed thirty-five trees, cost \$21, profit \$599.45; Oscar Thurwalchler, Jefferson Barracks, St. Louis County, sprayed forty-five trees, cost \$25, profit \$475; R. T. McDougal, Holden, Johnson County, sprayed 212 trees, cost \$37.50, profit \$400; W. W. Francis, Lutesville, Bollinger County, sprayed 300 trees, cost \$75, profit \$775; Julius Wagner, Eldon, Miller County, sprayed 200 trees, cost \$16, profit \$234.

Equally as good or even better results than these may be obtained in many of our Kansas apple orchards which are not yielding under present practices enough fruit to pay the taxes and interest on the value of the land occupied by the orchard.

## Production Costs on Farm

What does it cost to produce a bushel of grain, a pound of meat, or a gallon of milk? This is a vital question today and will likely become more important in the future. It is not improbable that the government will take a hand in price-fixing in the years to come. It is not possible to know what price the farmers should receive for what they produce unless the cost of production is known. There is but one way to arrive at the accurate cost, and that way is by keeping accounts.

In connection with stock a feed record is the important thing, as feed constitutes three-fourths or more of the total cost of producing meat. A labor record is most important in determining the cost of crops. Labor is usually one-half or more of the total cost of any crop.

Those interested in this phase of farm record work, either individually or in groups, or through local farmers' organizations, can get ideas on the subject through the agency of the farm bureau organizations. The new account books are ready for distribution. Many of the banks are supplied with these books and will gladly furnish them to their customers. They can also be obtained through KANSAS FARMER.

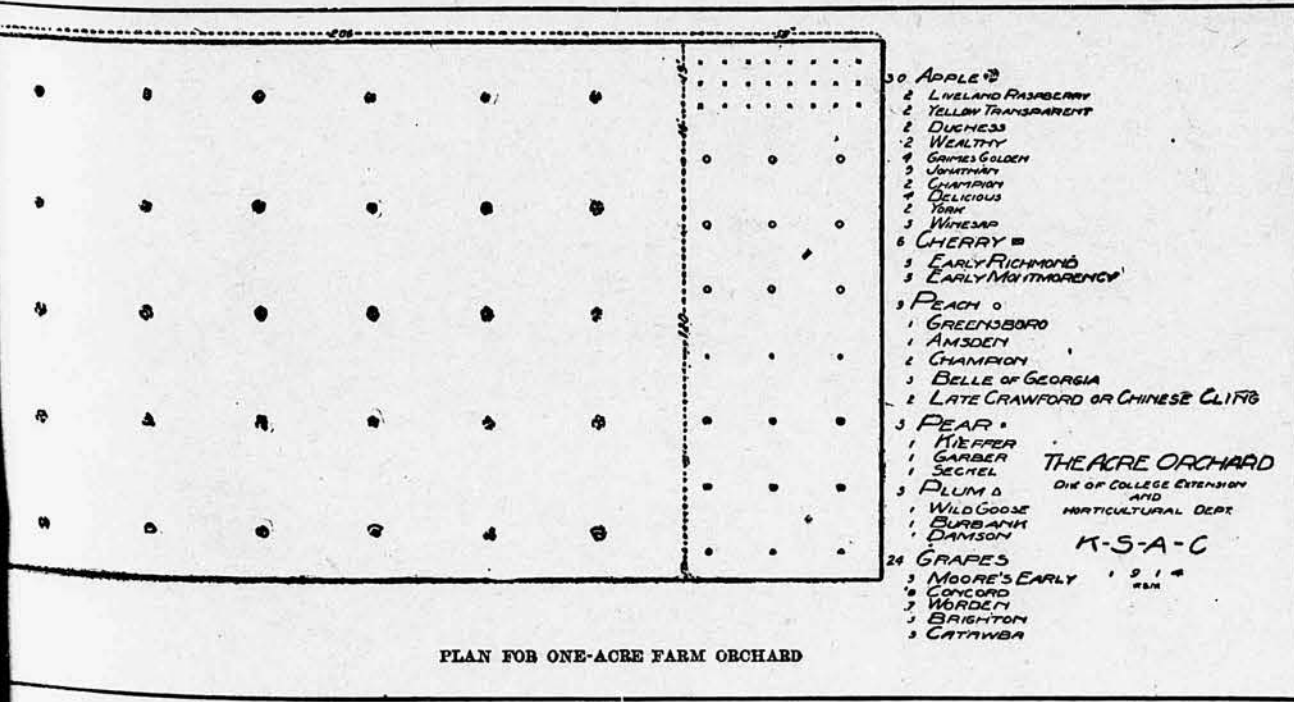
## Fixing Fair Wheat Prices

With price of wheat guaranteed, and no hope of getting more than the guaranteed price, each farmer wants to sell his wheat as soon as it is threshed. Last year farmers tried this, and soon filled all the elevators, making it impossible for dealers to buy more until cars were available. With an increase in acreage all over Eastern Kansas of from 10 to 100 per cent, and the prospect of the largest crop of wheat ever harvested, the job of marketing the 1919 crop seems sure to cause trouble.

The man who cannot sell his wheat at once must stand the expense of storage, shrinkage, waste, and interest on the debts which that wheat money would pay. And it seems only fair that some plan should be made to pay the producers for holding wheat, without a possibility of getting a higher price.

We suggest that our price-fixers plan an increase of a certain amount per month, starting with date wheat market opens. This amount should be enough to cover losses suggested above. Use of this plan might prevent car shortage.—J. E. PAYNE.

A farmers' supply association, organized by the farm bureau of Crawford County, Ohio, saved \$4,500 to farmers on a business last year of \$49,500. The association has a capital stock of \$10,000, divided into 1,000 shares of \$10 each, one share to a man.



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### Two Important Lectures

Among the many interesting and instructive numbers on the Farm and Home Week program at Manhattan next week will be two by Miss Helen Fraser, lecturer in America for the British government. One of Miss Fraser's lectures will be given at the women's meeting, and she has chosen as her subject, "Reconstruction in Special Relation to Women's Work." "David Lloyd George, His Vision and Achievement," will be her subject at the general evening session held Thursday, February 6. Miss Fraser has just returned to America from England for a second tour. She has, in her time abroad, visited the American lines in France and seen the work of American, French and British women behind the trenches and inspected all the latest developments of British women's war work in industry, on the land and in the fighting forces.

She brings a fresh and vivid impression of the work, effort and sacrifice of

American women in France and in England, and of the views and attitude of the British people towards the peace overtures of the enemy. She brings the latest information of the schemes for social and industrial reconstruction in Britain and of the work done for the disabled, blinded and crippled soldier.

### Do You Need a Silo?

All who have carefully tested the value of silos agree that they are profitable to farmers who need them. Some have gone farther and have adopted the slogan—"A silo on every farm." We would modify that and suggest that each farmer study his needs, and decide. If he has been wintering many young cattle, or has been milking several cows, he may find that the silo will be needed to furnish succulent feed during the winter, and to feed his cows in summer while the pasture is dry. Now is the time to study the question.—J. E. PAYNE, Labette County.

## CONTROL OF PACKERS

HERE is a warm fight developing in Congress in the effort to restrict and control the great power possessed by the big packing companies. Whether the packers are doing all the things with which they are charged or not, the public, both producers and consumers, views with increasing alarm their tremendous concentration of power and influence over the necessities of life. The producers and consumers are most vitally interested in the controversy and while they do not desire to be unfair to those who perform the necessary function of slaughtering live stock and selling and distributing meat and other products, they are demanding that there be free and fair competition in every branch of this great business of supplying the public with the products of the farms and ranches.

As was stated by the marketing committee of the American National Live Stock Association, which has just held its annual meeting in Denver, there must be co-operation not only between packer and producer but with the consumer, and its object must be to furnish food to the consumer at the lowest cost consistent with a fair return to those producers, manufacturers, and distributors who do perform essential service by efficient methods economically sound. The President has well said: "It is obvious that there will be no sufficient incentive to enlarge production if there does not exist an unobstructed and economical system of distribution. Unjustifiable fluctuations in prices are not merely demoralizing; they inevitably deter adequate production."

The following paragraphs are quoted from the report of the marketing committee of the American National Live Stock Association which is signed by H. A. Jastro, E. L. Burke, Joseph M. Carey, Dwight B. Heard, E. C. Lasater, W. R. Stubbs, and H. C. Wallace.

"If effective competition does not exist and if monopoly is not effectively controlled, the injury to the producer directly results to the injury of the consumer. Indeed, the Sims bill is chiefly devoted to the establishment of public control over the instruments and agencies for the transportation, storage and distribution of meats and other food products to the consumer. Such control is essential also to the protection of the producers. The partial regulation which is being exercised as an emergency war measure is temporary in character and inadequate in its operation."

"Upon the great body of farmers, stock raisers and feeders rests the task of producing beef, pork and mutton, to feed the consuming populations of American towns and industrial and commercial centers. The months and years which these producers must spend in raising and fattening a meat animal for market is to be contrasted with the hours or days or weeks necessary for slaughtering and distribution. And as the time necessary for production exceeds that of distribution, so does the total investment in the ranches, farm buildings, live stock feeding plants, in corn lands and in the production of feeds of every sort surpass the investment represented in the packing houses and distributive agencies. While the raising and preparing of meat animals for market requires the labor of many millions of families scattered throughout the length and breadth of the country, the big packers are a small and interrelated group fringed by relatively few minority stockholders employing some thousands of wage earners."

"The producers have been and to a large degree still are unorganized, proud hitherto of their economic and political independence, flattering themselves that they constituted one of the most stabilizing uncontrolled elements of free democracy. By contrast the power of the packers and distributors of meat has been concentrating itself for decades consciously, steadily and silently into a few hands whose control is rapidly being extended and fortified by domination of the meat industry of a large part of the world. It is also being rapidly extended to other important food products. The producers have long known that these processes were at work. They have known that community of interest and concert of action among the large packers had confessedly existed. They have believed that it had continued to exist and that it operated to their disadvantage. They differed among themselves in their beliefs as to the degree and character of the monopoly and as to the remedies for it. They did not differ in their conviction that the great

and sudden fluctuations that occur in the prices paid for live stock at the central markets were due to manipulation and not to the normal operation of economic laws. They knew that violent fluctuations usually meant profits to the buyers and serious losses even irretrievable disaster to the whose live stock once shipped to a market must be quickly sold to the mounting cost of care and keep it was not until the price of every essential—and many a non-essential commodity—except live stock mounted in response to the extraordinary demands of war that there over the farms and ranches of the try a great wave of realization of the full effect of the autocratic entrenched at the central markets of determination to submit to no longer. The present situation is the result. After strenuous opposition the packers the federal investigation ordered, the facts disclosed and the edies are now under consideration."

The big packers have appeared before the committees of both House and Senate. The bill under consideration provides for licensing all packers doing a \$500,000 business, licensing all yards and all commission men, providing railroads delivering live stock to stock yards controlled directly or indirectly "by any means whatsoever packing interests. It provides for refrigerators cars out of the hands, requiring the railroads to place them under the supervision of Interstate Commerce Commission. The bill gives the Secretary of Agriculture power to suspend or revoke license case there is any discrimination, trading practices, profiteering, or other activities."

### Wichita Live Stock Sale

Sales of pure-bred live stock feature an important feature of the stock exposition to be held in Wichita February 24 to March 1. Probably pure-bred live stock will be sold in sales than at any other live stock show in the country. The show is a going place for live stock men of the producing territory of the South. Registered cattle of all the beef breeds will be sold during the week, also cattle, hogs and horses. The Herd sale is outstanding in the quality number of the offering. Consignments from some of the noted show herds of the Southwest will be included. Hereford, Angus, Hereford, Shorthorn and way bulls in lots of from five to loads will find them offered at sales.

Gathering together such a variety of registered breeding stock in connection with a well conducted show is a most commendable enterprise. opportunity of meeting the many engaged in live stock production will be attracted to this exposition its series of sales has a stimulating effect on the individual live stock producer. It somehow tends to give a larger vision of the great industry which he is engaged. Even though does not expect to buy any of the bred live stock offered, attendance such an event as the Wichita Live Stock Show with its series of live stock sales is well worth while. No similar exhibition in the country is now equipped to minister to the convenience and comfort of its many visitors at the Wichita show.

### Live Stock Lectures

E. Z. Russell, specialist in animal bandry. United States Department of Agriculture, Washington, D. C., will give a morning session at Manhattan February 7, speaks upon "The Sites of a Successful Hog Breeder." the same time Prof. W. A. McKee from the University of Minnesota, Paul, Minn., gives "Tomorrow's Live Stock Industry." George I. tie, assistant secretary, U. S. Department of Agriculture, Washington, will appear on the program at the assembly on the evening of February 6. "What the Farmer Has Gained from War" will be discussed February 7. Dr. H. J. Waters, and Charles will deliver a lecture, "The Summary of Life."

Starting with 70 hens in 1918 Mary McCaul of Montgomery sold \$350 worth of eggs and stock, besides what was used at home. This shows what can be done when poultry is well managed and good care.



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# MECHANICS ON THE FARM

Items of Interest About Automobiles, Engines, Tractors and Motorcycles

A little gasoline or kerosene on all bearings which can be reached, and a liberal priming of gasoline in the cylinder, will make a gasoline engine crank easier in cold weather. Do not use kerosene in the cylinder for thinning the oil around the piston, for it will interfere with the forming of a combustible mixture. If gasoline or kerosene has been used on bearings to make cranking easier, run the engine without a load until the bearings have had time to get well lubricated with good oil.

## Power for Washing

Contrary to the belief of some who operate washing machines, the washing machine does not take very much power. The larger sizes may require under full load as much as one sixth of a horsepower. This can readily be transmitted by a three-eighths-inch round belt. One sixth horse-power is about 125 watts and, allowing for motor efficiency, the power estimate can be based on a requirement of 175 watts. An ordinary running period is one and a half hours, which would mean about 260 watt-hours, which, at ten cents per kilowatt-hour, amounts to two and six-tenths cents. —L. S. FOLTZ, Colorado Agricultural College.

## Tractor Show Building

Unexpected demand for space necessitated the enlargement of the plans for the special building to be constructed on the Union Station Plaza, Kansas City, to house the fourth annual tractor show to be held February 24 to March 1. The work, which was delayed on account of the enlargement of plans, will be resumed February 1. More than 600,000 feet of lumber—the capacity of three average-sized lumber yards—will be converted into gigantic tractor home by over 300 workmen.

At present every foot of the available 110,000 square feet of exhibit space has been reserved. The secretary reports that there will be over 350 different exhibits of tractors, tractor accessories and power farming machinery of domestic types, the most complete exhibition of an agricultural nature every attempted in the history of America. Several large manufacturers will exhibit tractors designed especially for foreign use.

## When Auto Refuses to Start

The automobile engine frequently fails to start promptly in cold weather. Be sure the spark plugs are clean and firing properly. Considerable difficulty may be avoided if one is sure the butterfly valve in the carburetor intake will close, when the choke is drawn clear out to insure a charge of gasoline drawn into the cylinder as the starter rotates the engine. There are small primers on the market which can be attached to the car, permitting one to inject either high test gasoline or ether into the intake manifold as the starter turns the engine over, which is a decided help in starting in cold weather. Use a lighter lubricating oil in winter than in summer, to permit the engine to turn over more freely, as the oil gets quite hard when cold.

## Keep All Nuts Tight

In operating a gasoline engine be sure all nuts are kept tight. All engines vibrate to some extent and this vibration tends to loosen nuts and other parts. It takes only a few minutes to go over the engine to see that all nuts and screws are tight, at the same time wiping off any oil or dirt which has collected. This should be done at least once every day the engine is used. Many operating troubles will be avoided by regularly attending to this.

## Study Instructions Carefully

The instruction book furnished with a gasoline engine is prepared for use. Save it and study it carefully. If you failed to get a book of instructions, a request for one should be sent at once to the manufacturer. Some manufacturers may be careless in this matter of instruction books, but they are working

against their own interest, for it is a most inexpensive means of assisting purchasers to get satisfactory service from the engine. It is safe to assume that the maker of an engine understands thoroughly its operation and can supply valuable information to the purchaser.

Do not be careless with your instruction book, but preserve it carefully in a place convenient for handy reference when something goes wrong. It is a great deal cheaper to learn how to make simple adjustments than to send for an expert to come out and tell you how to do some little thing which is fully explained in the instruction book.

## Tractor in Foreign Lands

American-made tractors have followed the flag of the United States wherever it has gone. In the readjustment of world affairs the inventive genius of this country will play an important part. Already American-made tractors and other farm machinery have been found in the most out-of-the-way places.

In Asia Minor the tractor is helping the descendants of the prophets to garner more wheat. Down in Mesopotamia, where the lamented General Maude blazed the trail for democracy, the American tractor is now seen in increasing numbers. Turkey, in the darkest days of German domination, never forgot that practically all the agencies of progress and enlightenment were made in America. Robert's College stood as a bulwark against the rising storm of intolerance and racial bigotry. And Robert's College is an American institution. Intelligent Americans, graduates of Robert's College, returned to their homes with the highest regard towards all things American. Through like channels, American influence is being spread over the world and bringing a higher standard of living and better farming methods to far-away peoples. England has thousands of American tractors. So has France. China will be a big user of tractors, and Russia will eventually buy tractors for farm development, once orderly government has been established.

The fourth annual National Tractor Show, to be held in Kansas City the week of February 24-March 1, will be a practical demonstration of the triumph of American inventive genius in solving the farm problems of Kansas, Illinois, Normandy, Mesopotamia, the northern counties of England and the steppes of Siberia. The evolution of the tractor from the doubtful mechanism of a few years ago to the efficient power plant of today, is a record of persistent experimenting and continual striving for something better. American farmers have rendered invaluable assistance by suggesting practical developments and the finished product as it stands today is truly a national achievement.

Much of the repair expense in operating a gasoline engine results from improper lubrication. Manufacturers furnish long lists of the grade and kinds of oil that have been tested and found satisfactory for the engine in question. This information should be used. It does not pay to use grades of oil entirely unsuited to your engine.

## Spreading Straw on Wheat

By applying straw to wheat as a top-dressing, winter-killing is reduced probably in the following ways: The straw catches and holds snow, prevents soil-blowing to some extent, and reduces the losses from freezing and heaving of the ground, which uproots the plants. Straw can be applied with a fork or by means of a spreader especially designed for the purpose. The principal thing to consider is that the distribution be made evenly and not so thick that it smothers the plants. It is best to spread it soon after sowing, so that the plants will grow up through it and hold it in place. Aside from this, much later spreading is as effective, but is more likely to be hindered by freezing of the straw and by unfavorable weather.

In some sections much of the damage occurs towards spring either from blowing or from the alternate freezing and

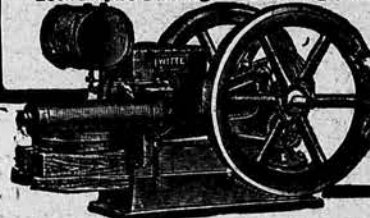
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thawing. A light coating of straw even though not spread until February may save wheat from being killed.



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## HELPFUL POULTRY HINTS

Practical Ideas on How to Fill the Egg Basket and Increase Profits

## Save The Chicks

**P**LAN now to save next year's chicks. Use much care in hatching and brooding. What good does it do to hatch a large number of chicks if suitable provisions are not made for raising them? If the chicks are not raised, everything that has been done in order to get them hatched and all the eggs used represent a dead loss, a useless waste. That's why during the winter months preparations should be made to save all of next year's chicks. Figuring that you have a fine flock of standard-bred poultry, a flock that has been carefully culled so that only the vigorous producing birds remain, and that you have your hatching equipment all ready for business, you still lack one all-important thing that spells success in poultry raising; namely, proper brooding equipment.

Whether chicks are raised with hens or by artificial methods, brood coops and brooder houses in which chicks can be sheltered from storms, rain and wind, and in which they will be safe at night from rats and other night prowlers that are out looking for food, must be provided or the investment in the breeding flock and the hatching equipment will not net you anything. Before the first hatch of the season is brought off, the brood coops and the brooder lamps or brooder stoves, as the case may be, should all be ready to receive the chicks. If these things are not ready, you can begin to figure your losses from the day the chicks are hatched. You have far more time during the winter to make the necessary provisions for raising the chicks than you will in the spring, so do it now.

I recall an account printed in an agricultural paper last season with which I was disgusted and at the same time amused. It was written by a well known writer for the agricultural press in the western field, who, judging from his writings, is one of the great poultry farmers who has everything just right on his farm—a place where one would expect to find the word "Efficiency" painted in large letters and hanging over the front gate. Evidently this farmer-writer does not put into practice all of the good things about which he writes for the farm papers, because last season, according to his own statement, he did not provide for the safety of his young chicks and lost 75 per cent of them. He very carefully explained that it would be necessary for him to carry over about fifty of his old hens that he had intended to sell, because he had lost most of his early-hatched pullets.

"Well, how did he lose them?" you ask. Simply by not having the young chicks safely housed at night and the rats carried them off. One would naturally suppose that on these large efficiently managed poultry farms ways and means would be devised to do away with such loss. But too often the little things are left undone. There are ways of eradicating the pesky rats. But if this is not done we must most surely have our brooder houses and coops so constructed as to be vermin-proof. One way—and a most efficient way of doing away with Mr. Rat—is mixing plaster of paris with equal parts sugar and corn meal and setting it in their runs. When they eat this it forms a hard marble in the stomach and kills them. If you are sure there are still rats, provide the coops with screen doors so that they may be hooked when the front door is closed for the night, making it necessary for Mr. Rat to go elsewhere for his supper, which might well be a small

piece of poisoned meat or cheese placed under the coop. It is such an easy matter to house chickens safely that we cannot understand why any farmer or any other poultry raiser will use eggs worth from fifty cents to a dollar a dozen, buy coal oil for the incubator lamp, operate the incubator for three weeks, feed the chicks until they have a good start in life, and then let the rats or other vermin kill them.

It is time now to get busy and provide good housing and shelter and try to make 1919 the banner poultry year. Don't wait until you hatch the chicks. Do it now!—**MRS. LIZZIE B. GRIFITH, Lyon County.**

### Hatch the Pullets Early

The most successful poultry raiser, be he large or small, will mate his flock early and will breed from pullets that were fully grown and well developed in every way when the winter came on.

In order to have pullets like this it is necessary to catch the chicks early. Even though the hens do become broody early, it is not profitable to use them as setters with eggs at the price they are now. On the other hand, if your hens are of good breeding it is not likely that many of them will set early.

It is so with many of the poultry breeders who are breeding for increased egg production and with those using cockerels from egg-bred stock. The tendency to broodiness is far less than it used to be. This means, of course, that if you are to have the right quality of pullets next year, you must depend on an incubator for early hatching. You cannot possibly lose money on chicks that are hatched early. Get your incubator to work now and follow up with several more hatches. If you haven't an incubator, buy one, but be careful what you buy. The up-to-date farmer would no more be without an incubator than he would be without a cream separator. The biggest argument in favor of early hatches is that you set eggs from the best winter layers and therefore better your stock. Also if you intend to sell hatching eggs, you get your chicks early and have your eggs to sell when others want to buy.

Get in line! Start your incubators early and see what you can do along the line of poultry raising. This need not interfere with your business or other work, but just add a little extra to your income as well as afford lots of pleasure and recreation.—**MRS. LIZZIE B. GRIFITH, Lyon County.**

### Keep Poultry Healthy

The first point to consider if you would be successful with poultry is to keep them healthy and in good thrifty condition. It means absolute cleanliness in the yard as well as in the house. Next comes proper feeding and keeping the fowls free from vermin. A good many try to keep their fowls up by feeding them powders and stimulants. This will not take the place of good feed and proper care.

I feed plenty of good wholesome food and keep them well sheltered from the cold winds. I feed oats and corn mixed, and have kafir with dry bran for them to run to between their feeding times. I also give them sour milk and plenty of clean water to drink. Feeding or caring for my flock in this way, I have very few sick fowls and a well-filled egg basket.—**MRS. MAGGIE GINGERICH, Michigan Valley, Kansas.**

### Exhibit of Poultry Methods

An exhibit consisting of small models of poultry houses and trap nests showing methods of pedigree hatching as carried out on our agricultural college poultry farm, and charts with cuts of standard varieties of fowls, attracted considerable attention at the poultry show of the Kansas State Poultry Association recently held in Topeka. This same exhibit was made in Junction City as a part of the Kansas State Poultry Federation show. **R. M. Sherwood, poultry specialist of the extension division of**

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our college, and John L. Prehn, poultry specialist of the United States Department of Agriculture, were in charge of this exhibit. During the show Mr. Prehn lectured on the general subject of poultry production, and Mr. Sherwood poultry housing. These lectures were listened to with great interest by those in attendance. These exhibits were prepared by the college in co-operation with the Department of Agriculture. Letters and pamphlets giving good, practical ideas on handling poultry were distributed during the show.

### Chickens Need Fresh Air

Chickens need an abundance of fresh air, even in the winter. Houses are closed too tight during the winter, especially if overcrowded, often become damp. Chickens are liable to catch cold when let out of damp houses, and extreme cold weather their comb and wattles become damp in the house and freeze when they go out. Proper ventilation will largely overcome this. Cold is not as dangerous as damp drafty houses.



## Contagious Abortion Spreading

SEVENTY million dollars is the estimated annual loss from contagious abortion in cattle, according to statistics of the U. S. Department of Agriculture, and Kansas is contributing its share to this tremendous loss. It is not uncommon to find small herds infected, as well as the larger dairy and breeding herds, and it is gradually spreading. The most important question is how to control the disease. "We must forget all about the disease," say the veterinarians. "We must realize that the control is within the hands of the breeders properly guided along preventive and sanitary lines." A better understanding relative to the nature of the disease is the most important step before one can hope to organize the forces against this dreadful malady. It is infectious in nature and is responsible for most cases of abortion. Experimental blood tests on herds bear out this statement. Every animal that is brought into a herd should be regarded as dangerous until such animal or animals have been found to be free from the disease. Blood-test is the most reliable diagnostic agent.

The indiscriminate purchase of breeding cattle and turning such cattle with the home herd or the selling of aborters to animals that have been exposed to the disease discourage all hopes of controlling contagious abortion. Great effort on the part of the purchaser should be made to get complete information on the health of the herd where he intends to make a purchase. Such precaution will often prevent disaster to his own title.

Again, the man who finds that the disease has crept into his herd should not think of selling with hopes of getting rid of the trouble. In a great many instances he will buy back what he formerly sold. Hygienic measures should be regarded as the most powerful weapon against this disease. Antiseptic touches on bull before and after service, when there is doubt relative to the health of the animal to be bred, is a good practice. Any cow showing signs of discharge should not be bred until all discharge ceases.

If a cow aborts she should be isolated from the rest of the herd. A box well arranged away from the dairy or feeding barn is the most practical way of handling such cases. The placenta should be removed in from twelve to eighteen hours after the animal has aborted, by a competent veterinarian. The uterus should be washed out with non-toxic antiseptic after the placenta has been removed. The neck of the uterus usually closes within twenty-four hours after removal of placenta, making it impossible to introduce the hand. The vagina and external parts, "buttocks and hips," should be kept clean with antiseptics and disinfectants until discharge ceases. Strong antiseptics or caustic treatment is more injurious than treatment at all. Many cows have been killed by improper treatment.

The extension division of our agricultural college has planned a definite campaign against contagious abortion disease and its veterinary specialist is ready to help in every way possible.

### Give Cows Warm Water

Every hundred pounds of milk contains eighty-seven pounds of water. The cow requires in addition large quantities of water for carrying on her body functions. This water cannot be of any use to the cow until it is warmed. If it is allowed ice cold it must be warmed inside the body. If the water is ice cold the cow does not drink as much as she should and the milk production is limited. A part of the feed which should be used to make milk is used to warm the cold water taken into the body and to overcome the decided chill imparted to the body. There are other more economical ways of warming water than the use of expensive grain.

A group of cows drinking from an open stream is a common winter sight in many parts of this country. In many cases these cows are driven half a mile or more for this privilege. Under such conditions the cows refuse to drink as much as they should and are driven back to the barn to wait until the following day, when they will be offered the same water over again. A cow cannot be a heavy producer of milk under these circumstances.

The best place to milk dairy cows in cold weather is in the barn. When run-

ning water is available this can be accomplished by installing individual drinking cups or by watering them in a gutter-like manger. In this case the water will not need to be warmed, as the water in pipes is not too cold. Individual cups have another advantage by allowing the cows to take small quantities at frequent intervals.

On farms where milking cows is only a side line, these conveniences are impossible. In such cases it is always possible to use a tank heater. There are several different kinds of tank heaters on the market which may be purchased at a moderate price. Most of them are satisfactory.

### Cow Testing Results

Here are some notes made by R. F. Tesson, official tester of the Lyon and Morris County Cow Testing Association, after his first month's work:

"December 9 cow testing work for production started with the Morris County members, W. D. Houck of Council Grove being the first member to have his herd tested. The majority of the cows were well along in lactation, but two were found that produced at the rate of thirty and thirty-one pounds of butter fat in thirty days. Commenting on the work of testing about two weeks afterwards, Mr. Houck stated that owing to knowledge gained he was able by increasing the grain to his producing cows and withholding it from strippers, he was able in that time to increase his production five gallons a day with the use of less grain than formerly.

"R. H. Joy, of Alta Vista, has a small herd, milking eleven head. Here was found a grade Holstein that was producing at the rate of fifty-one pounds and a grade Shorthorn producing at the rate of thirty-eight pounds of butter fat in thirty days. This small herd also has two other grade Holsteins that were producing thirty-one pounds of butter fat each in the same period.

"J. A. Comp & Son, of White City, have a recently established herd of registered Jerseys, mostly heifers with first and second calves. This herd has been selected with discrimination and was the most uniform herd so far visited. They were producing in keeping with their appearance. Sultan's Princess Nnuda, four years old, produced in two days at the rate of 82½ pounds butter fat in thirty days, being the highest producing cow tested for the month. At the Sunny Slope Stock Farm, Gipsy, a three-year-old, produced at the rate of forty-eight pounds butter fat in thirty days. Beechfield's Panora Belle and Jolly Princess Josephine, two-year-old first calf heifers, produced at the rate of thirty-seven pounds of butter fat in thirty days.

"Fred Munson of Burdick, with a four-year-old registered Ayrshire, Ayrlyn Queen's Daisy, produced at the rate of thirty-eight pounds of butter fat in thirty days.

"Owing to the hard season last year almost everyone is handicapped in their feeding operations, some out of or short of silage, others short of hay, and still others up against the grain problem and under these conditions it has been hard to adjust the feeding. Changes have been made in the feeding of almost all herds visited and better results are looked for."

### Sudan for Milk Cows

Leo Tauscher, Ellis County, who visited KANSAS FARMER office recently, spoke very highly of Sudan grass as a feed crop for his part of the state. He has been growing it successfully for several years. On one occasion he got a good seed crop from the second cutting, which is rather unusual. One year it made quite a fall growth after the second crop had been harvested.

To test the value of Sudan grass hay for milk as compared with kafir fodder, Mr. Tauscher fed his milk cows on Sudan one week, weighing and testing the milk, and then a week on kafir fodder. The grain fed was not changed. The cows produced a fourth more milk and butter fat on Sudan grass than on kafir. "Sudan grass must be planted in a finely prepared soil and not too deep, and given careful cultivation," said Mr. Tauscher. "A good many fail because they are not careful enough and plant it too deep, and you can't get a good stand planting it among clods." He regards Sudan grass as the most valuable feed crop that has been introduced in Western Kansas.



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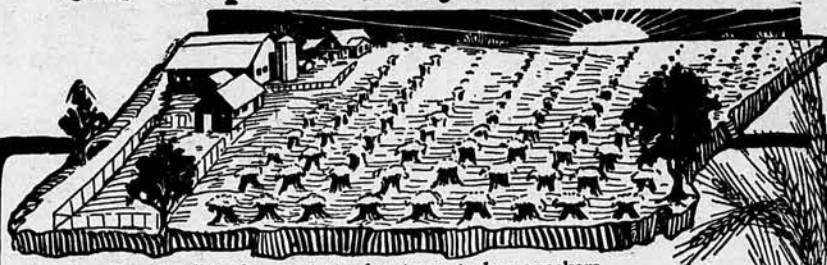
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land similar to that which through many years has averaged from 20 to 45 bushels of wheat to the acre. Hundreds of cases are on record where in Western Canada a single crop has paid the cost of land and production. The Governments of the Dominion and Provinces of Manitoba, Saskatchewan and Alberta want the farmer to prosper, and extend every possible encouragement and help to

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OUR REPRESENTATIVES MAKING \$5 per day and up selling Kansas Farmer on special proposition. Write today for particulars. Address Circulation Manager, Kansas Farmer Company, Topeka, Kansas.

### HELP WANTED.

CROCHETERS WANTED—POSITIVELY no canvassing. Stamped addressed envelope for particulars. Mrs. Meixel, 517 Lycoming St., Williamsport, Pa.

ONE DOLLAR (POSITIVELY CASH) FOR every name you send us of parties having sweet clover (threshed or unthreshed) that we can buy now or later. Your name not mentioned. Be first. Standard Seed Co., Eureka, Kansas.

### MISCELLANEOUS.

HAIR SWITCHES, ALL KINDS, MADE from your combings. Work guaranteed. Willie Breedlove, Florence, Ark.

### SEEDS

SEED CORN—THE 90-BUSHEL KIND. Very select, enormous yielder. While it lasts, bushel, \$4. Wiltse, Rulo, Neb.

SEED CORN—VARIETIES ST. CHARLES White, Red's Yellow Dent, Gold Medal Yellow; \$4 per bushel. Frank Crosby, Bellevue, Kansas.

PURE MUSH-RUSH AND DIAMOND JOE white seed-corn. Hand picked, nubbed and shelled, \$4 per bushel. J. F. Cochran, Route 6, North Topeka.

FOR SALE—WHITE SILVER SKIN bottom onion sets, run 10,000 to the bushel, \$4.75 bushel f.o.b. G. C. Curtis, Reference Citizens Bank, Hutchinson, Kansas.

FOR SALE—SEED CORN, TOOK FIRST premium, adapted for dry season, heavy yield under favorable conditions. Roy Lampert, Wahoo, Neb.

PURE EARLY OHIO SEED POTATOES, 90c per bushel; Red Triumphs, \$1 per bushel, not irrigated; car lots only. Wickham Berry Farm, Salem, Neb.

### AUTO TIRES.

TIRES—FORD, \$6.75. LARGER SIZES, equally low. "Lowest tube prices." Booklet free. Economy Tire Co., Kansas City, Mo.

AUTOMOBILISTS, ATTENTION.—OLD tires retreaded, \$2.50 to \$3. Retreaded tires for sale, \$5 and \$6. All tires guaranteed 2,500 miles. Write for particulars. Milford Tire Retreading Co., Milford, Kansas.

### SITUATION WANTED.

WANTED—WORK ON STOCK FARM BY experienced man. Address Jack Strong, 2521 Prospect Ave., Kansas City, Mo.

### CATTLE.

FOR SALE—REGISTERED GALLOWAY bulls. Address Fashion Plate, Silver Lake, Kansas.

SHORTHORN BULL—OUR HERD BULL, Orange Sultan, Scotch-topped (red), quiet, good size, an excellent and sure breeder. Molyneux Bros., Palmer, Kan.

FOR SALE—TWO REGISTERED Jersey bulls, great grandsons of Noble of Oaklands. Fine breeding and individuals. Priced low. Write A. W. Nickols, Indianapolis, Iowa.

FOR SALE—OUR WHOLE HERD OF forty-four head of registered Holsteins. Will sell whole herd or individuals. Also several grade Holstein calves, finely marked, fine individuals, at \$22.50 each. Marcus Knillans, Box J, Whitewater, Wis.

HIGHLY BRED HOLSTEIN CALVES, either sex, 15-16th pure, from heavy milkers, five to seven weeks old, beautifully marked. \$25, crated and delivered to any station, express charges paid here. Send orders or write. Lake View Holstein Place, Whitewater, Wisconsin.

### HORSES AND MULES.

FOR SALE—PERCHERON STALLION 21 months old. Priced for quick sale. Write for particulars. T. P. Teagarden, Manhattan, Kansas.

I WILL SELL A FIVE-YEAR-OLD REGISTERED black Percheron stallion at the Little and Cashatt sale one mile south of Oskaloosa, on Tuesday, February 4. Paul Cashatt, Oskaloosa, Kansas.

### DOGS.

DACHSHUNDE KENNELS WEIDMANN-shell. G. R. Rudolf, R. F. D. No. 1, Cuba, Mo.

SCOTCH COLLIE FEMALE PUPS, \$5.00 each. Fred Kucera, Clarkson, Neb.

AIREDALES, COLLIES AND OLD ENG. Hsh. Shepherds. Pups, grown dogs and brood matrons. Large instructive list, 5c. W. R. Watson, Box 128, Oakland, Iowa.

### HONEY.

DELICIOUS, LIGHT-COLORED, EXTRACTED honey gathered by our own bees from alfalfa and sweet clover. Guaranteed pure. Can containing 60 pounds, \$15.25; case of two cans, \$30. You pay freight. Frank H. Drexel, Crawford, Colorado.

### FARMS WANTED.

WANTED—TO HEAR FROM OWNER of good farm for sale. State cash price, full particulars. D. F. Bush, Minneapolis, Minn.

IF YOU WANT TO SELL OR EXCHANGE your property, write me. John J. Black, 56th St., Chippewa Falls, Wisconsin.

WANTED—TO HEAR FROM OWNER of farm or unimproved land for sale. O. K. Hawley, Baldwin, Wisconsin.

### PHOTO FINISHING.

TRIAL ROLL DEVELOPED AND SIX prints only 25c silver. Reed Studio, Dept. C, Norton, Kansas.

### SEEDS AND NURSERIES.

SUDAN GRASS SEED, NORTHERN grown, free from Johnson grass, 20c per pound, bags free, postage, express or freight extra. White Sweet Clover, scurfed, 80c. Alfalfa, \$8 per bushel and up. Order early. Supply short. Quality guaranteed satisfactory. Henry Field, Shenandoah, Iowa.

### HOGS.

TWO POLAND CHINA BRED SOWS, three bred gilts. Closing out quick. Bargains. Frank Barrington, Sedan, Kansas.

### Chop Suey

This recipe is taken from the bulletin on One-Dish Meals compiled by the department of domestic science of the Kansas Agricultural College. Served with bread and butter and a dessert of cornstarch pudding with fruit sauce, it constitutes a well-balanced meal:

- 1/2 pound pork sausage
- 1/2 pound ground raw beef
- 1/2 cupful rice (or 2 cupfuls cooked rice)
- 2 cupfuls tomatoes
- 1 green pepper, chopped
- 1 large onion
- 1/4 teaspoonful pepper
- 1/4 teaspoonful salt
- A dash of cayenne
- 2 stalks celery

Sear the mixed sausage and beef in an oiled skillet, season well and add one-half cupful water, chopped onion, pepper, celery, tomato and seasonings. Let it simmer one-half hour. Boil or steam the rice and pile on a platter. Pour the meat mixture over the rice and serve. The addition of mushrooms improves the dish, but increases the cost without increasing the nutritive value.

### Home of the Heart

Oh, humble was the little home  
Love built for just us two;  
And so we bought us wings to roam,  
And, when we could, we flew.

Now, gathered all the world can give,  
How dark are the stars that beamed,  
For the heaven where our dead hopes live  
Is the home where young love dreamed!

Could you go back again with me,  
Oh, could we now return,  
How dear that happy nest would be,  
How bright the stars would burn!  
—Stokely S. Fisher in Farm Life.

### Chocolate and Nut Potato Cake

- 1 1/2 cupfuls sugar
- 1 cupful shortening
- 1 cupful cooked potato
- 1/2 cupful milk
- 2 cupfuls flour
- 4 eggs beaten lightly
- 1/2 cupful chocolate-melted
- 1/2 cupful chopped nuts
- 1/2 teaspoonful cloves
- 1/2 teaspoonful cinnamon
- 2 level teaspoonfuls baking powder

Cream sugar and shortening. Lard or vegetable shortening may be used, as the chocolate gives both richness and flavor. Add mashed potato and mix thoroughly. Add milk and flour alternately. Add eggs beaten lightly, chocolate, nuts mixed with spices, and lastly sift over surface baking powder and heat thoroughly. Bake in well oiled muffin tins twenty to thirty minutes in moderate oven.

### Memory Verse

To be serene amid a losing fight,  
To meet with equal courage dark or light,  
To hate all sham, and with persistent might  
To do brave deeds as in a master's sight—  
This is to learn life's lesson, reach the height.  
—Charles Allen Dausson.

In planning your garden, let novelties, both in the vegetable and flower seeds, alone. Nine cases out of ten they will be disappointing and not worth the cost of the seed and the labor of growing them. Few reputable seed houses offer startling novelties.

## THE HOME-MAKER'S FORUM

ETHEL WHIPPLE, Editor

Letters from readers are always welcome. You are urged to send in helpful suggestions, to give your experiences, or to ask questions. Address the Editor of this Department.

### Selecting Wall Paper

**T**HE days are already getting noticeably longer than they were a month ago, and the sun is rising not quite so far to the north. The winter will slip quickly away and if we have an early spring it will be here almost before we know it. Before the rush of spring work begins it is well to devote some time to thoughtful planning for any changes which are to be made in the house in connection with the spring cleaning.

Those who intend to do repapering will find some helpful suggestions with regard to the effect of wall paper upon the appearance of the room in the following general principles of interior decoration as given by D. E. Baker, professor of architecture in the Kansas Agricultural College:

Striped paper tends to make the ceiling seem higher. If the ceiling is too high, extending plain ceiling paper down on the walls twelve to eighteen inches will make the ceiling appear lower. If the ceiling paper is dropped there should not be too great a contrast in dark and light between wall and ceiling paper. Ceiling paper should usually be white, ivory, or cream.

If pictures are to be hung on the wall the paper should be of plain color or have inconspicuous figures.

Large figured paper tends to make a room seem small. Figured or cut-out borders are often not artistic, and most rooms look better without them.

Bright or strong colors should be avoided in wall paper. The walls are a background for people, furniture, and pictures, and should be subservient to them. Therefore plain or two-toned papers of neutral colors are most satisfactory.

If curtains, rugs, and upholstery are plain, figured paper may sometimes be used. If rugs or curtains are figured, plain paper should be used or the effect will be distracting and restless.

If there is a plate rail and two different papers are used, one should always be plain, the darker one at the bottom.

Kalsomine or alabastine in good neutral colors is much to be preferred to cheap, poorly designed, or badly colored paper.

### Forgotten Treasure

"How often men have lived and died poor just above mines of untold wealth!" How greatly might their impoverished lives have been enriched by the unsuspected treasure which was so close at hand! Perhaps many of us are making a similar mistake in regard to some of the common blessings of life which lie all around us, but the choicest of which we often fail to appreciate because of their familiarity. It is true that the city has some advantages which the country has not. It is also true that country life has many advantages not to be found in the city. Not the least of these is the beauty of country landscapes as they vary with the changing seasons.

"There's beauty all around our paths,  
If but our watchful eyes  
Can trace it 'mid familiar things  
And in their lowly guise."

The most observant cannot fail to be impressed with the beauty of the green fields, the grass-grown hills, and leafy trees of spring, and to feel something of the stimulus of the growing life all around him on the awakening of the old world from its winter's sleep. The summer brings its fruitful harvests and beautiful flowers, and our delightful Kansas autumn with its rich coloring veiled by the purple haze that hangs over the hills and rivers, never quite the same from one day to another, would tempt the most sluggish or the most busy person forth into the open. No season of the year brings more of real beauty than winter with its snow scenes and frosted trees. It is no wonder that many a painter draws the inspiration for his best work from a countryside covered with newly fallen snow, with smoke rising here and there from chim-

neys which mark the firesides where families are sheltered.

Colorado is widely known as "the land of the azure sky." Do we realize that we have the same clear blue sky and especially on cold winter nights, the same bright moonlight and brilliant stars that seem just out of reach. We have the beautiful cloud effects in summer that enhance the charm of the mountains of our sister state, and in fall and winter much the same fresh, crisp, bracing atmosphere. What would the people of a commercial eastern city not be willing to pay if it were possible to exchange their smoke-dimmed sky and the smoky, sooty air they breathe for the freshness of our Kansas plains?

We are so prone to overlook the blessings to which we have always been accustomed! A tourist who traveled across several states to visit Niagara Falls spoke to a resident of that part of the country of his pleasure in the beauty and grandeur of the falls and how well he felt repaid for his long trip. The man to whom he was talking listened in astonishment. "Did you come all that way just to see them falls?" he demanded. "Certainly," was the answer. "Well," he ejaculated disparagingly, "I see them every day." Let us not allow ourselves to grow blind to the beauty of our surroundings just because we "see them every day."

When you read a beautiful bit of poetry or a few lines of exquisite prose do you memorize it, or if that cannot be done at the moment lay it aside until you can give it more attention? A little time spent in this way is well invested. It is the experience of most mature persons that as the years slip by it becomes increasingly difficult to make the mind retain new selections, although those learned in earlier years are easily recalled. It is worth a little effort to make your own some of the beautiful thoughts of others while this may be done with comparative ease.

### Some Resolutions

I will believe in a good God, who rules the universe well because He loves it wisely. His ways are not my ways, but I will trust Him for the final result.

I will be true to my friends, love my enemies, if I have any, be loyal to the church, forget my troubles, and remember my blessings.

If I am growing old, I will do it gracefully, accepting my limitations cheerfully, and avoiding some of the habits which make old people disagreeable to their relatives.

I will love my own flag and my own country, but I will remember other flags and other countries, and include them in my daily prayer.

If I have money, I will help others with it; if I have brains, I will not be proud; if I have doubts, I will not preach them. If I have faith, I will make it known.

I will help to make a better world by telling the truth, by being kind and courteous even to the members of my family, by constant faith in ideals even if I don't attain them, by faith in a world brotherhood, because the Master taught it.

If I am poor, I will be thankful that I am not sick; and if I am sick, I will be thankful that I am not in jail or out at the poor farm.

I will read some good book every month, and keep my Bible where I can reach it without a step ladder.

I will not feel offended if bricks are thrown at me, oftener than bouquets. If they are, I will try to find out why.

Over and above all, during this year I will believe in the power of Christ to make all things new. I will believe that apart from Him I can do nothing. No experience in life can separate me from Him. If I have Him as my companion this year, no matter what happens, it will be the happiest year of my life.—DR. CHAS. M. SHELDON.



## FARM AND HERD.

The third annual meeting of the Kansas Hampshire Swine Breeders' Association will be held at the Kansas State Agricultural College, Manhattan, February 7. This is one of the strong breeders' associations in Kansas. George W. Ela, of Valley Falls, is secretary and treasurer of the association, is one of the live wires in the pure-bred swine business, and the fine showing made by the Kansas Hampshire Swine Breeders' Association since its organization three years ago is due largely to the persistent efforts of Mr. Ela to make the association of real value to Hampshire breeders.

F. P. Wilson & Sons, of Doyle Springs Stock Farm, Peabody, Kansas, owners of one of the good herds of Shorthorn cattle in Kansas, report their herd doing well. In addition to the choice lot of individuals in this herd they have the best blood lines of the breed and a feature of the herd at this time is the fine lot of young stock, including outstanding young bulls, Scotch and Scotch-topped, all roans and whites.

Barrett & Land, of Overbrook, Kansas, have announced February 20 for a reduction sale of Shorthorn cattle. They have more than 200 head of registered Shorthorn cattle on the farm and are offering twenty head of mature cows. Ten head have calves at foot and are bred again. Ten head are bred to drop calves early in the spring. Twenty-five head of large heifers, ten to sixteen months old, will be sold open. Ten husky bulls, ten to sixteen months old, will be included in the sale.

Gordon & Hamilton, of Horton, Kansas, have announced February 26 for their annual Duroc Jersey bred sow sale. This firm has been breeding Duroc hogs for several years and have built up one of the good herds in this part of the state. The herd is headed by one of the great boars of the breed, Sensation King, by Great Sensation by Great Wonder. Most all of the sale offering will be bred to this great boar for early March litters. The sale will be held in town in comfortable sale building.

T. T. Langford & Sons, Jamesport, Missouri, owners of a herd of big-boned Spotted Poland Chinas that is famous throughout the corn belt, report their herd doing well. They have bred a large number of choice tried sows and gilts to their famous herd sires and hope to be able to supply the demand for Spotted Poland breeding stock during the coming year.

Joe Schneider and T. A. Corkhill, of Nortonville, Kansas, have announced February 11 for their annual bred sow sale. They have catalogued forty-five head of choice sows and gilts of the real farmer type of Poland Chinas. They have been grown in a way that insures their future usefulness. The sale will be held in a comfortable sale pavilion in Nortonville, Kansas.

Herman Groninger & Sons, Bendena, Kansas, have announced February 18 for their annual Poland China bred sow sale. They have catalogued fifty head, consisting of five tried sows, nineteen fall yearlings and twenty-six large spring gilts. The fall yearlings include the 1918 show litter by Futurity Rexall and are bred to Big Bob 2d and Wonder Price 2d. The twenty-six spring gilts are by Big Bob 2d, Wonder Price 2d, Big Hadley, Expansion Wonder, Hillcrest King, Iowa Lad, Big Wonder Hadley, Big Wonder Price, and Orange Taxpayer, with one daughter of Buster Over, and are bred to Long Bob and Model Timm 2d, two great young boars. Herman Groninger is probably the oldest breeder of Poland China hogs in Kansas. He established his herd at Bendena, Kansas, March 28, 1876.

A. J. Erhart & Sons, of Ness City, Kansas, have catalogued sixty head of Poland China bred sows and gilts for their annual Poland China bred sow sale to be held at Hutchinson on February 19. Erhart & Sons showed last year the largest boar of any breed, the Poland China, Big Sensation. Several high class sows will be sold safe for early spring litters to this sensational sire. Erhart & Sons have been breeding Poland China hogs for a number of years and always won a large share of the premiums at the leading state fairs. They have always grown and developed a large type of Poland China hog.

James W. Magee, Chanute, Kansas, has announced February 11 as the date of his Holstein dispersion sale. Fifty head of Holsteins will be catalogued for this sale and the offering will include a large number of A. R. O. cows.

E. P. Maggard, of Flemingsburg, Ky., formerly with Saunders & Maggard, Poplar Plains, Ky., has shipped twenty-one head of jack stock to Newton, Kansas, and has located at the old Welch barns. Mr. Maggard writes that this is the seventeenth year he has come to Kansas with a carload of jack stock, and this is the third year he has located at Newton.

Catalogs are out for C. S. Nevius & Son's Poland China bred sow sale to be held at the farm near Chiles, Kansas, on February 17 this year. Nevius & Sons have catalogued sixty head, the tops of the herd. Thirty-five of the sows and gilts are sired by King Wonder 2d, a splendid son of Big Bob Wonder. Twenty of the spring gilts are by the great herd boar, Wonder Joe, he by Giant Joe. They will be mated to such boars as Equality Bob by Bob's Equal and Loyal Joe of the Giant Joe blood. Several will be bred to Timm's Orange by Big Timm. This wonderful collection of sows and gilts promises to be the best lot ever sold from the Nevius farm.

John W. Pettford, of Saffordville, Kansas, writes that he will hold his annual Duroc Jersey bred sow sale at Saffordville, in a new comfortable sale pavilion, instead of at Emporia, as formerly announced. Mr. Pettford announces that he has catalogued the great Duroc sow, King's Lena by King The Col. dam Model Lena; Pathfinder Girl by Pathfinder; Helen Gano by Educator, dam by Premier Gano; Grand Lady 46th also will be included in the sale and all these noted sows will be bred to Illustration Orion 3d. Several fall yearlings are by Cherry Chief's Pride, Peter Pan, Burk's Good Enuff and Illustration 3d.

F. Olivier & Sons, Danville, Kansas, have announced February 18 for their next annual Poland China bred sow sale. This firm is among the old-time breeders of the big Poland Chinas and is known all over the West as owner of the famous Pioneer herd of Poland Chinas. They have shown at the leading state fairs for the past twenty years and have always gone home

with a large share of the premiums. They have catalogued fifty head of big tried Poland China sows and fall gilts bred to two splendid herd boars. This offering promises to be one of the real good lots that will go through any sale this spring.

F. J. Moser & Son, of Sabetha, Kansas, held one of the first Duroc Jersey bred sow sales of the season on January 23, 1919. The sale was well advertised and resulted in the disposal of forty-nine head of mostly spring and fall gilts bred for spring litters, at an average price of \$130.50. While no sensational prices figured in the sale, the average was very fair, yet low enough to permit of liberal investment by farmers and small breeders in the east part of the state. These prices paid for breeding stock should insure them a profitable investment. Mr. Moser was well pleased with the results and has announced March 6 for his next bred sow sale.

Schmitz Bros., Seneca, Kansas, have announced March 4 for their annual Poland China bred sow sale. They have catalogued forty-five head of choice Poland sows and gilts sired by Jumbo Bob and Wonder Joe and bred to Schmitz Bros. Timm by Big Timm, Bob's Quality and Jumbo. Schmitz Bros. are growing a useful and profitable farmer hog that makes good both in the feed lot and show ring. They have avoided any extremes, but have grown and shown a big smooth Poland China hog that every farmer or breeder can develop at a profit.

Ross & Vincent, of Sterling, Kansas, have announced February 20 for their next annual Poland China bred sow sale. They have catalogued fifty head of high-class big-type sows and gilts. Several are by Model Wonder, one of the good sons of Big Bob Wonder. Several are either sired by or bred to a son of Big Timm, one of the most promising Poland China boars in Kansas. Ross & Vincent have built up a reputation of growing their hogs in a way that they make good for the farmer. They breed the big, smooth, quick-maturing kind of Poland China hog that any farmer or breeder can feed out at a profit. This collection of sows and gilts promises to be about one of the best lots sold in any sale this year.

J. W. Taylor, of Cherryvale Angus Farm, Clay Center, Kansas, reports his herd of pure-bred Angus cattle doing well. Mr. Taylor has built up one of the choice herds of Angus cattle in Kansas. His herd was started seventeen years ago with the best breeding stock that could be found at that time. The herd bulls used since the foundation of the herd were selected from the best Angus herds in the country. The head of his herd at this time is Roland L. 18722, a son of Black Bird Beverly. Roland L. is a choice individual and a ton bull in show condition. Features of the herd at this time are the choice lot of cows and the very fine lot of young stock including some outstanding young bulls.

(Continued on Page Thirteen)

## Spotted Poland China Bred Sow Sale

AT MANHATTAN, KANSAS

Tuesday, February 18, 1919

45 Head Large Sows and Fall Yearlings

I Am Offering the Best Lot of Tried Sows and Gilts That I Have Ever Sold.

Most of the offerings are sows that have raised good even litters. They will all be bred and safe for early spring litters, bred to GATES' LAD by J. D. Gates' champion boar; Faulkner's Model, Spotted Lad, and Hayes' Model.



Please send for catalog and come to sale at farm adjoining college farm. Write at once for catalog to

**Everett Hayes, Manhattan, Kansas**

Auctioneer, L. R. Brady, Manhattan, Kansas

READ KANSAS FARMER'S CLASSIFIED  
ADVERTISING PAGE FOR READY BARGAINS

## PLANT THIS HOME APPLE ORCHARD



and in just a short time—a very few years—you'll have apples by the barrel from your own Home Orchard. And the trees will add to the value of your home. You can plant them in your yard, or in a row along the fence or road, or in the chicken run, where the growing trees will provide shade for the flock. Accept our offer and order your trees NOW!

### WE'LL SEND TWELVE GRAFTED APPLE TREES, POSTPAID

Each little tree is produced by grafting together a "scion" (branch) from a selected tree of heavy-cropping record, to a healthy one-year root. Each little tree is about a foot high. They take root at once, make rapid growth, and bear large crops of choice apples even sooner than larger trees planted at the same time.

### TWO EACH OF THE SIX MOST POPULAR VARIETIES

**Two Genuine Delicious** The finest and most beautiful apple grown. Very large, inverted pear-shape. Color dark red, shading to golden yellow toward the tip. A fine keeper, sweet and juicy. The tree is strong, hardy and productive.

**Two Yellow Transparent** A very early and an abundant bearer. Often bears some apples the first year, even in the nursery row. A summer apple. Flavor acid and very good. Skin clear white, turning to pale yellow.

**Two Jonathan** A general favorite, and always in good demand at fancy prices. Of medium size, roundish; skin nearly covered with dark red. Fine-grained, tender, and of exquisite flavor. Tree slender and spreading.

**Two Stayman Winesap** Deep, rich red in color. It is a marked improvement over the old Winesap, in both quality and appearance. Flavor rich subacid. The tree is a thrifty grower and an abundant bearer.

**Two Wealthy** A native of Minnesota, where it has proved hardy, vigorous and productive. The fruit is of medium size, red, streaked with white. Excellent quality and flavor. One of the best and most productive apples grown.

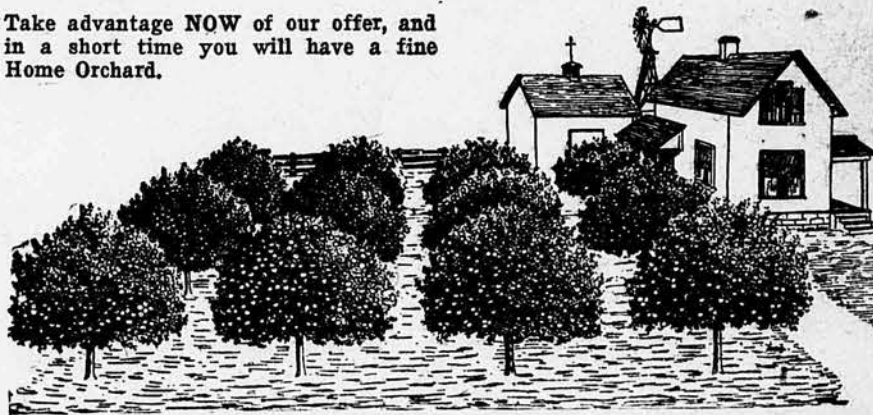
**Two Winter Banana** A fine, vigorous grower, with large healthy foliage. A very early bearer of large, beautiful apples, golden yellow, with a red blush. The flesh is rich, aromatic, and of the highest quality. A good keeper.

### OUR GRAFTED APPLE TREE OFFERS

**OFFER NO. 1:** One set of these 12 Grafted Apple Trees will be sent you postpaid with a one-year subscription to Kansas Farmer for only \$1.35.

**OFFER NO. 2:** Two sets of these trees (24 trees, four of each variety), will be sent you postpaid for two yearly subscriptions to Kansas Farmer at \$1.00 each, provided one of the subscriptions is a new one. On this offer one of the subscriptions may be your own, but one must be a new subscription.

Take advantage NOW of our offer, and in a short time you will have a fine Home Orchard.





# RELIABLE POULTRY BREEDERS

## PLYMOUTH ROCKS.

NICE BARRED ROCK COCKERELS, \$2. J. Hammerli, Oak Hill, Kansas.

BIG BARRED ROCK COCKERELS. J. H. Fry, Paxico, Kansas.

LARGE EXCELLENT BARRED ROCK cockerels. Florence Belle Ziller, Hiawatha, Kansas.

BARRED ROCK COCKERELS, \$3 AND \$5 each. Mrs. Ed Susank, Holington, Kansas.

BUFF ROCKS AND BLACK LANGSHAN cockerels for sale, \$2 each; good ones. Newton Coffman, Rosendale, Missouri.

BUFF ROCK COCKERELS, \$5 AND \$10. Eggs at reasonable prices. J. K. Hammond, 315 S. Green, Wichita, Kansas.

FOR SALE—BARRED ROCKS. EVERY bird from a prize winner. T. N. Davis, 508 Fillmore St., Topeka.

CHOICE BARRED ROCK COCKERELS, Parks' 200-egg strain. Gem Poultry Farm, Haven, Kansas.

BARRED ROCK COCKERELS—THIRTY years' experience. Write for prices. Mrs. Chris Bearman, Ottawa, Kansas.

PURE-BRED BARRED ROCK COCKERELS, large kind; bred for laying. \$2.50 and \$3 each. C. H. Wempe, Seneca, Kan.

BARRED ROCK COCKERELS—PARKS' 200 egg strain, \$5 each. Mrs. Lillian Marshall, Raymond, Kansas.

WEIGHER-LAYER BARRED ROCK cockerels, \$3, \$5, \$7.50. Utility eggs, \$8 hundred. C. F. Fickel, Earlton, Kansas.

PURE-BRED BARRED ROCK COCKERELS with size and quality, \$2 each. C. E. Romary, Olivet, Kansas.

CHOICE BARRED ROCK COCKERELS, \$3 each. Order today. Eber Anderson, Route 1, Clay Center, Kansas.

PARK'S 200 EGG STRAIN BARRED Rocks. Eggs in season. Write your wants. R. B. Snell, Colby, Kansas.

FOR SALE—WHITE ROCK COCKERELS out of a good laying strain of hens, \$3, \$5 and \$10 each. Thomas Owen, Route 7, Topeka, Kansas.

RINGLET BARRED ROCK COCKERELS for sale, three to six dollars. They are from prize winners. W. L. Parker, Francis, Oklahoma.

CHOICE APRIL-HATCHED LARGE-boned narrow-barred Rocks, \$1.75. Snow-white fantail pigeons, \$1.50 pair. Theodore Henrichs, Diller, Nebraska.

PURE-BRED BARRED ROCKS—EGGS in season, one dollar for thirteen; seven dollars per hundred. Peter H. Friesen, Lehigh, Kansas.

BARRED ROCKS—ENTIRE FLOCK BY February 10; thirty cockerels, \$3 to \$5; 100 hens and pullets, \$1.50 to \$2.50. Mrs. E. C. Wagner, Holton, Kansas.

BARRED ROCK EGGS—FIVE PENS mated. Mating list ready. Special: Six-pound cockerels, \$3; six, \$15. Hiram Paton, Hutchinson, Kansas.

CHOICE BUFF ROCK COCKERELS AND pullets, prices reasonable. Eggs in season, \$2 per fifteen from flock; from pen, \$3 per fifteen. Mrs. E. B. Powell, Higginsville, Missouri.

BARRED PLYMOUTH ROCKS—PURE-bred, high grade farm stock. Eggs for hatching. Mrs. W. C. Bocker, Solomon, Kansas.

BARRED FANCY BREEDING COCKERELS from St. Louis, Kansas City state show winners. J. K. Thompson, 205 The Drive, Topeka, Kansas.

SUNNY SIDE BARRED ROCK COCKERELS, pen matings. Bradley and Thompson strains, \$5 to \$10 each. Satisfaction guaranteed. Almeda Siler, Wells, Kansas.

BARRED ROCK COCKERELS, BOTH light and dark lines, \$5 each; six for \$25. C. C. Lindamood, Walton, Harvey County, Kansas.

"RINGLET" BARRED ROCK COCKERELS, \$3 and \$5 each. Eggs and day-old chicks in season. Mrs. C. N. Bailey, Lyndon, Kansas.

RINGLET BARRED ROCK COCKERELS from the very best prize winning stock. Large, heavy-boned. Thompson strain. \$2 to \$5. James Pickrel, Route 4, York, Neb.

BARRED ROCK COCKERELS, 107 PRIME, winter laying stock. Record, 39 eggs from 40 hens. \$2 to \$5. A. G. Hammond, Vinland, Kansas.

PURE BARRED ROCK "RINGLETS," large, vigorous, beautifully marked birds, \$3.00, \$5.00 and \$8.00 each. S. R. Blackwelder, Isabel, Kansas.

BUFF PLYMOUTH ROCK EGGS FROM C. R. Baker's 100 per, sixteen, \$5; yard, sixteen, \$2; hundred, \$7.50, postpaid. Cockerels, \$5 to \$25 each. Mrs. John Truninger, Holden, Missouri.

100 BARRED ROCK COCKERELS FROM prize winning birds, bred to lay, large, healthy and very fine. Satisfaction guaranteed. Mrs. G. W. Dillinger, Ideal Poultry Farm, Unionville, Missouri.

SOME DANDY BUFF ROCK COCKERELS, \$15 for six or \$3.50 each. Several extra fine ones, \$5 to \$7.50 each. Eggs for hatching any time, \$2 for fifteen. Nellie Yount, Humboldt, Kansas.

WHITE PLYMOUTH ROCKS. NO BETTER anywhere. Have bred them exclusively for 26 years and are extra good layers. Eggs, \$3 per fifteen, from five pens; \$5 per fifteen from first pen. Expressage or parcels post prepaid. Thomas Owen, Route 7, Topeka, Kansas.

## PLYMOUTH ROCKS.

PURE-BRED BARRED ROCK COCKERELS, \$2 and \$2.50 each. S. A. Grindol, Perry, Kansas.

WHITE ROCK COCKERELS—NICE, large, well shaped, \$2.50, three for \$7. J. E. Misner, Piedmont, Kansas.

## RHODE ISLAND REDS.

LARGE DARK S. C. RED COCKERELS and pullets for sale. Stanley Kaura, Wyomere, Nebraska.

ROSE COMB RHODE ISLAND WHITE cockerels for sale and eggs in season. Mrs. Wm. Nider, Jansen, Nebraska.

S. C. REDS—EGGS FROM BLUE RIBBON winners, \$2, \$3, \$5 and \$10. H. L. White, 1747 N. Waco, Wichita, Kansas.

LARGE BIG-BONED FULL-BLOOD SINGLE Comb Red cockerels, \$3 each or six for \$15. Lela Osterfoss, Hedrick, Iowa.

S. C. RED COCKERELS, REALLY RED, two to three dollars each. Eggs in season. May Felton, Blue Mound, Kansas.

S. C. R. RED EGGS, \$5 PER HUNDRED; \$1 for fifteen; \$1.75 for thirty. M. E. Dunn, Anadarko, Oklahoma.

PURE-BRED SINGLE COMB RHODE Island Red males, \$2 to \$10. James Sisters, Olathe, Kansas.

SINGLE COMB RED COCKERELS, \$5 TO \$10. Eggs. Maple Hill Poultry Farm, Lawrence, Kansas.

PURE-BRED DARK VELVETY RED cockerels, both combs, \$4, \$5. Freda Peck-enpugh, Lake City, Kansas.

PURE-BRED ROSE COMB RED COCKERELS from high-priced stock, \$3 and \$5 each. Howard Vail, Marysville, Kansas.

ROSE COMB RED COCKERELS, TWO, three and five dollars each. Mrs. C. H. Jordan, Wakarusa, Kansas.

"SINGLE COMB REDS," WINNERS wherever shown. Write for mating list. Place egg orders early. Guy Birt, Route 1, Hickman, Nebraska.

FOR SALE—RHODE ISLAND RED cockerels, both combs. Three dollars each. E. C. Wordon, Kearney, Nebraska.

SINGLE COMB RED COCKERELS, prize winning strain. Prices reasonable. Satisfaction guaranteed. R. P. Hockaday, 238 Fannie Ave., Wichita, Kansas.

DARK RED ROSE COMB REDS, GOOD scoring, greatest laying strain; cockerels, pullets, eggs. Satisfaction guaranteed. Highland Farm, Hedrick, Iowa.

BRED-TO-LAY S. C. RED COCKERELS, absolutely the finest ones I ever raised. \$3 to \$5. Satisfaction guaranteed. Belmont Farm, Topeka, Kansas.

ROSE COMB REDS—HIGH SCORING cockerels, direct from Meyer's famous trapped strain, \$3, \$4, \$5. M. L. Van Ornam, Superior, Nebraska.

HIGH CLASS SINGLE COMB RED COCKERELS, big bone, dark red fellows that will improve your flock. Nels W. Peterson, Mason City, Nebraska.

MR. RED BREEDER: A FEW FINE quality R. C. R. I. Red cockerels, sold on a money back guarantee. Utility eggs. Will spare a few settings from pens. Write your wants to Mrs. S. H. Nash, Kinsley, Kansas.

ROSE COMB RHODE ISLAND REDS—First prize shape and color, special winners. Eggs from the grandest matings we ever owned, \$5 per fifteen, \$9 per thirty, \$14 per fifty. Our guarantee, a chick for every egg. Booking orders now. Fred Kelm, Seneca, Kansas.

## SEVERAL BREEDS

BARRED ROCKS, COCKEREL MATING. Anconas, nice dark birds. Write for description and bargain prices. Joe McVey, Stafford, Kansas.

S. C. REDS AND WHITE ROCKS—Raise your prize winners from our reliable baby chicks and hatching eggs. We guarantee safe delivery and good fertility. Reliable Poultry Farm, University Place, Neb.

EGGS FOR HATCHING—PURE-BRED Barred and White Plymouth Rock; White, Brown and Buff Leghorn; White and Silver-laced Wyandotte; White and Buff Orpington; Rose and Single Comb Rhode Island Red. Eighty per cent fertility guaranteed. Prices reasonable. George Cloon, LeLoup, Kansas.

## BRAHMAS.

LIGHT BRAHMA COCKERELS, CHEAP. Write your needs. Mrs. Oscar Felton, Blue Mound, Kansas.

EGGS FROM PURE-BRED LIGHT Brahmata. Setting of fifteen, \$1.25; 100 for \$7. Albert Reetz, Tobias, Nebraska.

LIGHT BRAHMA COCKERELS, \$2.50; hens, \$2. White Wyandotte pullets, \$2. W. F. Hayes, Route 3, Coweta, Okla.

LIGHT BRAHMA COCKERELS, \$5 AND \$7.50 each. Hatching eggs, \$2.50 and \$3.50 per fifteen eggs; \$4 and \$6 per thirty eggs. Geo. W. Craig, 2031 Wellington Place, Wichita, Kansas.

## POULTRY WANTED.

RUNNER DUCKS AND PEA FOWLS wanted. Geese for sale. Emma Ahlstedt, Lindsborg, Kansas.

EXPRESS 100 PIGEONS NEXT MONDAY sure. \$1 dozen, best market of season. Your other poultry wanted daily. Coops loaned free. The Copes, Topeka.

## LEGHORNS.

R. C. BROWN LEGHORN COCKERELS. Otto Borth, Plains, Kansas.

ROSE COMB BROWN LEGHORN COCKERELS. Mrs. W. E. Lynch, Tecumseh, Kan.

PURE-BRED SINGLE COMB WHITE Leghorn cockerels, \$1.50. Chas. McFadden, Morland, Kansas.

EGGS FROM KEEP-LAYING SINGLE Comb White Leghorns. T. R. Wolfe, Route 2, Conway Springs, Kansas.

S. C. WHITE LEGHORN COCKERELS. Ferris strain, fourteen years a breeder. \$2.50 each, five for \$10. Ben Johnson, Belton, Mo.

PURE-BRED ROSE COMB WHITE LEGhorn cockerels, \$1.50 each. Eggs, \$6 per hundred. C. Nesselroad, Attica, Kansas.

PURE-BRED ROSE COMB WHITE LEGhorn cockerels, \$1.75 each. N. C. Dewey, Great Bend, Kansas.

L. B. RICKETTS, BREEDER OF EXHIBITION and utility Single Comb White Leghorns, Greensburg, Kansas.

SINGLE COMB BUFF LEGHORN COCKERELS, \$1.75 each. C. J. Nelson, Leonardville, Kansas.

YOUNG'S S. C. WHITE LEGHORN COCKERELS, \$2 each. Woodland Poultry Plant, Unger, Oklahoma.

EXTRA FINE SINGLE COMB BROWN Leghorn cockerels, \$1.50 each; six for \$7.50. Mrs. F. E. Tonn, Haven, Kansas.

FINE BRED TO LAY SINGLE COMB White Leghorns, eggs, chicks, postpaid. Armstrong Bros., Arthur, Mo.

BROWN ROSE COMB LEGHORN COCKERELS, \$1.50 each. Mrs. Den Barry, Wallace, Nebraska.

SINGLE COMB WHITE LEGHORN COCKERELS, \$2; bred for eggs. Louie Barnes, Moline, Kansas.

PURE-BRED S. C. BROWN LEGHORN cockerels, \$2 each; six for \$10. Mrs. L. H. Hastings, Thayer, Kansas.

PURE-BRED BARRON S. C. WHITE Leghorn eggs, \$2 for fifteen, postpaid. Satisfaction guaranteed. George Gahn, Overbrook, Kansas.

PRIZE WINNING SINGLE COMB BUFF Leghorn cockerels at reduced prices, owing to frosted combs. T. F. Roberts, Osawatomie, Kansas.

EXTRAORDINARY BUFF LEGHORNS—Winners everywhere; 230-233 egg. Settings, \$3.75. Mrs. Robinson Hume, Anadarko, Oklahoma.

WE ARE NOW BOOKING ORDERS FOR pure-bred Rose Comb Brown Leghorn hatching eggs and baby chicks, bred-to-lay strain. Ada M. Doolittle, Ewing, Nebraska.

135 SELECTED RANGE WHITE LEGhorns. January 17th laid 74 eggs. Eggs only. Experienced. Reasonable. C. K. Gamble, Coffeyville, Kansas.

S. C. BROWN LEGHORNS, BRED 23 years; 222 to 266 egg lines. Eggs, fifteen, \$2; thirty, \$3; fifty, \$4; hundred, \$7. Gorsuch, Stilwell, Kansas.

SINGLE COMB WHITE LEGHORN COCKERELS, 233-egg Tom Barron strain. These cockerels are from imported English stock. \$3 and \$5 each. Grant Miller, Madison, Kan.

HEAVY LAYING S. C. WHITE LEGhorns. Eggs, \$7 hundred; chicks, 15c. Order now. Satisfaction guaranteed. C. G. Cook, Lyons, Kansas.

EXTRA CHOICE EGGS FOUR HATCHING, \$2 to \$5 for fifteen. Single Comb Dark Brown Leghorns. Better than ever. Cocks and cockerels for sale. John W. Moore, Poplar Bluff, Missouri.

SINGLE COMB WHITE LEGHORN EGGS for hatching. Only choice hens mated to pure white Tom Barron cockerels, \$7 per hundred, \$2 per fifteen. High fertility guaranteed. Harry Gliven, Manhattan, Kan.

SUNNYSIDE EGG FARM—BARRON SINGLE Comb White Leghorn eggs, \$1.50 fifteen, \$8 hundred. Fertile eggs guaranteed. Choice cockerels. Sunnyside Egg Farm, Box F, Hallowell, Kansas.

SINGLE COMB WHITE LEGHORNS, 265-egg strain, blue ribbon winners, have never failed to win in leading shows. If you want to improve your egg record and get birds that will win, cockerels \$3 up. Eggs, \$5, \$3, \$1.50 per fifteen. Utility eggs, \$7 hundred. All pens headed by blue ribbon winners. Holden Egg Farm, Holden, Missouri.

SINGLE COMB WHITE LEGHORNS—Mated for laying for years. Have set no eggs from outside flock for years. Have choice lot of breeding stock mated for this season's egg trade. No eggs for hatching sold from outside flock. Have several choice cockerels for sale. Eglington strain. Fifteen eggs, \$3; \$10 per hundred, delivered to you. E. S. Dunlap, Route 2, Fulton, Mo.

## DUCKS AND GESE.

CHOICE WHITE CHINA GANDERS, \$6 each. Rouen ducks. Earl Scott, Belvidere, Kansas.

FOR SALE—FIFTY MUSCOVY DUCKS, 100 Rouen ducks. Fred Kucera, Clarkson, Nebraska.

FOR SALE—PURE-BRED FAWN AND White Runner ducks and drakes, \$1.50 each, six for \$7.50. Mrs. Abbie Brush, Burr Oak, Kansas.

## MINORCAS.

FOR SALE—SINGLE COMB BLACK Minorca hens, two and three years old, long-legged big-bone type, \$2 each, f.o.b. Union City, Okla. John C. Lindemann Jr., Route 5, Box 48, El Reno, Oklahoma.

## LANGSHANS.

BLACK LANGSHAN COCKERELS, \$2 and up. Mrs. Geo. W. King, Solomon, Kan.

BIG BLACK LANGSHAN COCKERELS and pullets, fancy and utility; also eggs. Guaranteed. H. Osterfoss, Hedrick, Iowa.

BLACK LANGSHAN EGGS—BEST PRIZE stock. Limited number settings, \$2.50 per fifteen. Mrs. S. D. Marsh, Juniata, Neb.

BLACK LANGSHAN COCKERELS, \$2.50 and \$3. Mrs. J. B. Stein, Smith Center, Kansas.

SEVENTY-FIVE BLACK LANGSHAN cockerels. Won first cockerel at Illinois and Kansas State Shows, 1913. Jno. Lovette, Mullinville, Kansas.

BLACK LANGSHANS FROM BLUE RIBBON winners. Eggs, \$6 per hundred; \$3.50 per fifty. Mrs. D. A. Swank, Blue Mound, Kansas.

## TURKEYS.

M. B. TURKEY HENS, \$5 EACH. ELLEN Henn, Plainville, Kansas.

BOURBON RED TURKEYS, EXTRA good. W. H. Oliver, Reger, Missouri.

PURE-BRED BOURBON RED TURKEY toms, \$7. R. W. Kunze, Randolph, Kansas.

BOURBON TURKEYS—HENS, \$4.50; toms, \$6. Buff Orpington cockerels, \$2 to \$6. Mrs. Frank Neel, Beverly, Kansas.

PURE-BRED BRONZE TOMS, LARGE, healthy, \$9 and \$10. Will Small, Anness, Kansas.

QUALITY BOURBON RED TURKEYS, trios. Mrs. Lewis Thompson, Wellington, Kansas.

BRONZE TOMS—LARGE VIGOROUS show birds; \$10 and up. Bargains. R. L. Parrott, Osborne, Kansas.

PURE-BRED BOURBON RED TURKEYS—Toms, 22 to 26 pounds, \$8. Mrs. Geo. Bancroft, Piedmont, Kansas.

MAMMOTH BRONZE TURKEYS FROM the finest strains in America. Silver cup winners, bred for quality, size and vigor. Mrs. E. B. Powell, Higginsville, Missouri.

PURE-BRED BOURBON RED TURKEY toms, ten dollars each. Eggs for hatching, three-fifty per twelve. Also Young strain Single Comb White Leghorn eggs, six dollars per hundred. Fertility guaranteed. John Woods, Union, Oklahoma.

WE SOLD FIVE CHAMPION BRONZE turkeys last March for \$750. One tom brought \$500. Have 300 grand birds, same breeding, sired by sons of my 52-pound champion tom, \$750-\$25 each. Ike Huddall, Milan, Missouri.

## WYANDOTTES.

FINE WHITE WYANDOTTES—100 EGGS, \$6; setting, \$1. Linnie Doud, Ewing, Neb.

LARGE WHITE WYANDOTTE COCKERELS, \$2.50 each. Von Forell Bros., Chester, Nebraska.

CLARY'S PRIZE WINNING CHALK-White Wyandottes for sale. Prices right. George B. Clary, Fairbury, Nebraska.

FOR SALE—A FEW EXTRA GOOD Columbian Wyandotte cockerels, \$3.50 to \$5 each. Mrs. R. L. Hammond, Hope, Kansas.

FINE WHITE WYANDOTTE COCKERELS, March hatched, \$2.50 each; six for \$12. Mrs. Clarence Kagarice, Darlow, Kansas.

SILVER WYANDOTTE COCKERELS, \$3 up; hens, \$2; eggs, fifteen, \$1.75; fifty, \$4; hundred, \$7. Mrs. Edwin Shuff, Plevna, Kansas.

PURE-BRED WHITE WYANDOTTE cockerels at \$2. Eggs in season. A. W. Cline, Guide Rock, Nebraska.

COLUMBIAN WYANDOTTE COCKERELS, fine large birds, \$3 and \$5. J. J. Pauls, Hillsboro, Kansas.

PARTRIDGE WYANDOTTES FROM prize winning birds. Lidle Rodgers, Jefferson, Oklahoma.

COLUMBIAN WYANDOTTE COCKERELS—Exhibition quality. Eggs in season. O. C. Sharits, Newton, Kansas.

RANGE WHITE WYANDOTTES—Strong, vigorous. Eggs, \$1.50 fifteen, \$6 hundred. Mrs. J. W. Swisher, Grenola, Kansas.

WHITE WYANDOTTE COCKS AND cockerels. Martin and Poorman laying strains. Eggs, \$7.50 hundred prepaid. Dwight Osborn, Delphos, Kansas.

EGGS—WHITE WYANDOTTES, KEELER strain. Utility, \$1.50 fifteen, \$4 fifty, \$7 hundred. Pen extra good, \$2 fifteen. Mrs. M. M. Weaver, Newton, Kansas.

TWENTY CHOICE SILVER WYANDOTTE cockerels, \$3 each; six, \$15. Twenty, \$4 and \$5 each. Eggs in season. Mrs. Phillip Schuppert, Arrington, Kansas.

WHITE WYANDOTTE COCKERELS—From the world's greatest layers. The dams of the sires of these birds have a yearly record of 227 to 276 eggs. \$3 and \$6 each. H. A. Dressler, Lebo, Kansas.

PURE-BRED PARTRIDGE WYANDOTTE cockerels, Doolittle Wolverine strain, for sale. Extra large. Price, \$3. Carefully selected eggs for hatching, \$2.50 for twenty-four. R. F. Ayres, Box 220, Route 5, Independence, Missouri.

## SPANISH.

WHITE FACE BLACK SPANISH COCKERELS and yearling cocks, \$3.50 each. Mrs. Hattie Tyler, Fairview, Kansas.

(Continued on Next Page)



## ORPINGTONS.

SINGLE COMB BUFF ORPINGTON cockerels. Cook and Martz strain direct, \$3 and \$5. Thos. D. Marshall, Sylvia, Kansas.

S. C. WHITE ORPINGTON COCKERELS, choice \$3 to \$5. Theo Nelson, Route 1, Box 17, Hershey, Nebraska.

S. C. WHITE ORPINGTON EGGS FOR hatching, \$5 hundred. Theo Nelson, Route 1, Box 17, Hershey, Nebraska.

LARGE PURE-BRED BUFF ORPINGTON cockerels, \$3, \$4 and \$5 each. Myrtle Howard, Byron, Okla.

BUFF ORPINGTON EGGS, \$4 PER FIFTEEN. Winners at Oklahoma and Kansas State Fairs. Write for particulars. J. L. Taylor, Chanute, Kansas.

FOR SALE—PURE-BRED SINGLE COMB Buff Orpington cocks and cockerels at \$2, \$4 and \$5 each. Hens and pullets at \$25 per dozen. W. Schandt, Route 1, Neligh, Nebraska.

S. C. BUFF ORPINGTONS, HEAVY LAYERS, solid buff, blue ribbon winners. Fine cockerels, \$3 up. Eggs, \$2.50, \$3.50, \$5 per sixteen. Mrs. C. W. Nelson, Box 365, Osawatomie, Kansas.

"THE GOLDEN ARROW STRAIN" BUFF Orpingtons after the war. Nine grand pens. Eggs, \$3 per setting. Hatching eggs will be scarce. Ball & Beebe, Viola, Kansas.

PURE-BRED BUFF ORPINGTONS—Last year we added five more prize winners to our flock, a total of twenty-four. Eggs, one dollar per setting; six dollars per hundred. Correspondence solicited. J. L. Moorhead, Blue Rapids, Kansas.

## CORNISH FOWLS

DARK CORNISH COCKERELS, \$3 EACH. Herman W. Peterson, Harvard, Nebraska.

WHITE CORNISH—SILVER CUP WINNERS. Good breeding pens for sale. Spellman & Spellman, Fredonia, Kansas.

FOR SALE—DARK CORNISH COCKERELS and pullets. Eggs in season. Olin E. Dawkins, Route 9, Ottawa, Kansas.

GOOD COCKS, \$5.00; COCKERELS, \$3.00. Scored. East Lawn Poultry Yards, Fairmount, Nebraska.

## BABY CHICKS.

LEADING VARIETIES, 20c DELIVERED. Request folder. McCune Hatchery, Ottawa, Kansas.

BABY CHICKS—ORDER EARLY. GET chicks from the winter layers. Write for circular. Sarver's Poultry Farm, Hastings, Nebraska.

YOUNKIN'S DAY-OLD CHICKS—Barred Rocks, Reds, Buff Orpingtons, White Wyandottes, 17c; White Leghorns, 16c. Fifty or more prepaid. Younk's Hatchery, Wakefield, Kansas.

## Poultry

## Poultry Clubs Make Money

Twenty-three hundred dollars' worth of poultry! That is what the poultry club members of Ottawa County produced last year. They hatched 2,664 pure-bred chickens, raised 1,649 of them, culled out 460 that they sold as broilers for \$365, and have on hand 1,289 that they will keep for their own pens or sell for breeders next year. At the least estimate these are worth \$2,000. The center of the club work for Ottawa County is the Delphos community. The Delphos school district maintains an office of the county leader, who gives general supervision to the clubs of the county and personal supervision to those of Delphos.

The following incident illustrates the interest which has been aroused in poultry production among the boys and girls of the county:

Jennie and Esther are members of one of the poultry clubs. Jennie had come over to spend the day with Esther. When Esther's papa came in, Jennie met him with, "Mr. M., I have sold Esther a cockerel."

"Well, did you get your money yet?" he inquired, supposing this was a tactful method of asking for it.

Jennie opened her little hand and showed the shining coins.

"Did you ever!" he exclaimed. "The kids don't have to ask for money now, since they have been raising chickens."

## Poultry Production Figures

Ralph and Clyde Chapman, of the Bennington Poultry Club, which is under the supervision of the vocational teacher of the Delphos High School, began keeping records February 1, 1918, with eighteen hens. Their eggs for hatching cost \$6.60, their feed from February 1 to October 1 cost \$29.32, and they bought a cockerel for 75 cents—a total outlay of \$36.67. The value of the poultry and eggs sold and used at home amounted to \$65.15, and hatching eggs sold for \$4.80, making the total receipts \$69.95. Deducting the expense, \$36.67, they had left \$33.28. In addition to this they

had on hand forty-five hens and pullets and two cockerels, twenty-seven more than when they began. Estimating these at one dollar each, which is less than their true value, and adding this to the gain on products sold, they have \$60.28 net gain on eighteen hens, or \$3.35 on each hen in eight months. Their hens were penned and all the feed was purchased. Not a bad record for a small back-yard flock.

## FARM AND HERD NEWS NOTES

G. C. Wheeler, Live Stock Editor  
W. J. Cody, Manager Stock Advertising  
O. W. Devine, Field Representative

Address All Communications to  
Kansas Farmer, and Not to  
Individuals

Personal mail may have to be held for several days, or be delayed in forwarding, and Kansas Farmer cannot assume any responsibility for mistakes occurring thereby

## CLAIM SALE DATES.

## Jacks and Jennets.

March 25, 1919—H. T. Hineman & Sons, Dighton, Kan.

## Jersey Cattle.

Feb. 12—Reynolds & Gleason, Horton, Kan.  
B. C. Settles, Palmyra, Mo., sales manager.

## Holsteins.

February 13-14—Leavenworth County Holstein Breeders' Sale, Leavenworth, Kan.  
W. H. Mott, sale manager.

Feb. 15—U. S. Disciplinary Barracks Farm Colony, Leavenworth, Kan.  
March 12—E. S. Engle & Son, Abilene, Kan.  
March 26, 1919—Kansas Holstein Breeders' Association sale, Topeka. W. H. Mott, sale manager.

March 26—A. B. Wilcox & Son, Topeka, Kan.  
W. H. Mott, Herington, Kan., sale manager.

## Shorthorn Cattle.

Feb. 14, 1919—H. E. Huber, Meriden, Kan.  
Feb. 20—Barrett & Land, Overbrook, Kan.

## Herefords.

Feb. 11—Jas. W. Magee, Chanute, Kan.

## Poland Chinas.

Feb. 6, 1919—H. B. Walter & Son, Effingham, Kan.

Feb. 8—Fred B. Caldwell, Howard, Kan.  
Feb. 11, 1919—O. B. Clemetson, Holton, Kan.

Feb. 11—Joe Schneider & T. A. Corkhill, Nortonville, Kan.  
Feb. 12, 1919—James Barnett, Denison, Kan.

Feb. 13, 1919—Herman Groninger & Sons, Bendena, Kan.  
Feb. 17, 1919—Ed Cook, Mayfield, Kan.

Feb. 18, 1919—F. Olivier & Son, Danville, Kan. Bred sow sale.  
Feb. 17—C. S. Nevins & Sons, Chiles, Kan.

Feb. 19, 1919—A. J. Erhart & Son, Ness City, Kan.; sale at Hutchinson.  
Feb. 20, 1919—Ross & Vincent, Sterling, Kan.

Feb. 21, 1919—Bruce Hunter, Lyons, Kan.  
Feb. 17—Bert E. Hodson, Ashland, Kan.; sale at Wichita.

Feb. 25—Clarence Dean, Weston, Mo.  
March 4, 1919—Jones Bros., Hiawatha, Kan.  
March 5, 1919—Schmitz Bros., Seneca, Kan.  
March 7—Chas. E. Green, Peabody, Kan.  
March 8—V. O. Johnson, Aulne, Kan.

## Duroc Jerseys.

Feb. 14, 1919—W. W. Zink, Turon, Kan.  
Feb. 17th—Combination Duroc Sale, Clay Center, Kan. W. W. Jones, Mgr.

Feb. 18th—E. P. Flanagan, Chapman, Kan.  
Feb. 19th—John W. Jones, Minneapolis, Kansas. (Sale at Salina, Kansas.)

Feb. 21—Mott Bros., Herington, Kan.  
Feb. 26—Gordon & Hamilton, Horton, Kan.  
Feb. 26, 1919—John W. Pettford, Saffordville, Kan.

Feb. 27, 1919—W. W. Otey & Son, Winfield, Kan.  
Feb. 28, 1919—Woodell & Daner, Winfield, Kan.

March 6—F. J. Moser, Sabetha, Kan.

## Spotted Poland Chinas.

Feb. 18—Everett Hays, Manhattan, Kan.

Feb. 18—H. L. Faulkner, Jamesport, Mo.

## Chester Whites.

Feb. 11—Arthur Mosse, Leavenworth, Kan.

Feb. 27, 1919—Henry Murr, Tonganoxie, Kan.

Sale Dates, Kansas Live Stock Exposition, Wichita, Kansas.

Feb. 25—Hampshire and Shropshire Sheep; Feb. 26, 10 a.m., Poland China Swine; Feb. 26, 2 p.m., Shorthorn Cattle; Feb. 27, 10 a.m., Duroc Jersey Swine; Feb. 27, 2 p.m., Aberdeen-Angus Cattle; Feb. 27, 2 p.m., Galloway Cattle; Feb. 28, 10 a.m., Hereford Cattle; Feb. 28, 10 a.m., Holstein Cattle; Feb. 28, 1 p.m., Guernsey and Jersey Cattle; March 1, 10 a.m., Jacks, Jennets and Trotting-bred Horses; March 1, 12:30 p.m., Percheron and Belgian Horses.

Bert E. Hodson, of Ashland, Kansas, has announced February 17 for a complete dispersion sale of his herd of Poland Chinas. The sale will be held in the Forum at Wichita, Kansas, and will include the grand champion Poland China boar, McGath's Big Orphan, Captain Gerstdale Jones, and Big Wonder Bob. This offering consists of forty-five head of extra good sows and gilts bred to the above trio of boars.

I. W. Poulton, of Medora, Kansas, owner of one of the best herds of Red Polled cattle in the Southwest, reports his herd doing well. Mr. Poulton has built up a herd of Red Polled cattle that will compare favorably with any herd of that breed now assembled. He has all the popular blood lines of the breed and a feature of his herd at this time is the choice lot of cows and heifers. The cows are all bred to calve in the near future.

## Bert E. Hodson's Poland China Sale

AT WICHITA, KANSAS

Monday, February 17, 1919

I am changing locations and dispersing my entire herd of

## LARGE POLAND CHINA SOWS AND GILTS

Forty-five Head of the Best Herd Sows and Gilts It Has Ever Been Our Pleasure to Own

and probably as good as ever went through one sale ring. I am also including the champion boar,

McGath's Big Orphan, and Gerstdale Jones,

a full brother to Big Jones and F's Jones. This hog will weigh a thousand pounds sale day. He carries a life insurance policy for one thousand and this will be assigned to purchaser. Another great herd boar I will sell is

Big Wonder Bob by Big Bob Wonder

One of the attractions is No. 1 in catalog, Orphan Nellie, a March yearling by McGath's Big Orphan, a third prize winner at the National Swine Show. Three splendid sows sired by Caldwell's Big Bob bred to McGath's Big Orphan.

The Entire Offering Will Be Immuned. Sale Held at the Forum, at Wichita, Kansas.

For catalog write

Bert E. Hodson, Ashland, Kan.

Auctioneers—Cols. Price, Groff, Newcomb

## Kentucky Jacks at Private Sale

E. P. Maggard, formerly with the firm of Saunders & Maggard, Poplar Plains, Ky., has shipped 21 head of jacks to Newton, Kansas, and they will be for sale privately at Welch Transfer Barn. This is a well bred load of jacks, including imported jacks, and they



range in age from coming three to matured aged jacks; height from 14 to 16 hands. I will make prices reasonable. Anyone wanting a good jack will do well to call and see them. Barn two blocks from Santa Fe depot, one block from Interurban. Come and see me.

E. P. Maggard, Newton, Kansas

## Shorthorn Cattle Sale

At My Barn in

Overbrook, Kan., Feb. 20

## 60 HEAD SCOTCH-TOPPED SHORTHORN CATTLE

Consisting of twenty mature cows—ten head having calves at foot and bred again; ten head bred to drop calves early in spring. Twenty-five head of extra good heifers ten to sixteen months old, open. Ten young bulls ten to sixteen months old. They are a useful lot of cattle and will make money for any one who will care for them.

Overbrook, Kansas, is in Osage County, on the Missouri Pacific Railway and Santa Fe Trail Road, twenty-six miles southeast of Topeka. Train leaves Topeka at 8 a. m. Please send for catalog and come.

Barrett & Land, Overbrook, Kansas

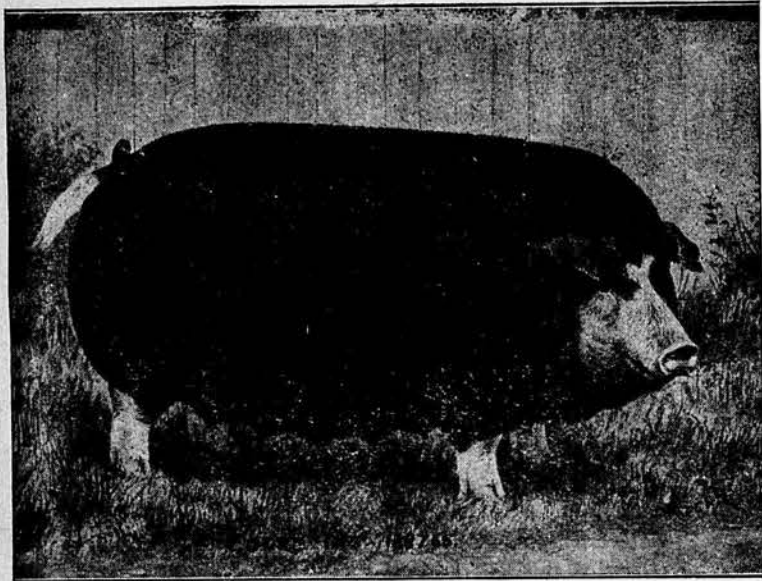
Auctioneers—Col. C. M. Crews, Cols. Hyatt & Rule



## Glenwood Farms Poland Chinas

C. S. NEVIUS & SONS,  
CHILES, MIAMI COUNTY, KANSAS

Our Bred Sow Sale Feb. 17, 1919, at Farm



### RELIABILITY IS WHAT COUNTS

Our most worthy offering of our twenty-five years, producing 300 head per year, always the large type. Make good and prove out kind.

#### FIFTY HEAD

Twenty-five Tried Sows and Fall Yearlings  
Twenty-five Strong Spring Gilts

Carrying the blood of Big Bob Wonder through King Wonder II; Giant Joe through Wonder's Joe, with several of the leading boars mixed in.

Remember, we want you here personally sale day. Please send for catalog and come.

**C. S. NEVIUS & SONS, CHILES, KANS.**

### RED POLLED CATTLE.

RED POLLED CATTLE FOR SALE  
Young bulls and some extra good young  
sows to calve in early spring. A few year-  
lings.

W. FOULTON, MEDORA, KANSAS

#### FOR SALE

Red Polled cows, heifers and bulls. Spe-  
cial price if taken at once.

J. HARRISON - AXTELL, KANSAS

RED POLLS, BOTH SEXES, BEST OF  
BREEDING.  
Charles Morrison & Son, Phillipsburg, Kan.

### POLAND CHINAS

oming Ranch Poland Chinas.  
Big-Type Poland China Hogs

For Sale—Fifty spring boars, real farmer  
type and herd boar prospects; 100 bred  
sows and gilts. Write or come and see our  
farm.

oming Ranch, Oswego, Kan.  
(H. O. Sheldon, Herd Manager)

### Henry's Big Type Polands

March and April pigs sired by Mammoth  
type, Smooth Prospect and Big Bob 2d.  
of sows the best of big type breeding.  
Everything immune.

D. Henry, Route 1, Lecompton, Kansas

### BIG-TYPE POLANDS

Red sows, gilts and boars of the easy-  
fleshing, quick-fattening, big-type kind.  
All immune and priced right. Write  
what you want.

ACS STOCK FARM, PEABODY, KAN.

### OGS! HOGS! FOR SALE!

Big Registered Poland Chinas and English  
hogs that weigh and win. S. C. Brown  
horns Chickens that lay. See or write

Y. BURKS, BOLIVAR, MO.

### Black Grove Stock Farm Polands

The blue ribbon herd of Spotted Polands.  
Pigs sired by O and O 25th, are im-  
mune, recorded and the very best of breed.  
Also choice Barred Rock cockerels, \$3  
each.

W. SONNENMOSE - WESTON, MO.

NE CEDAR POLAND CHINAS—A splen-  
did lot of bred gilts by Big Chimes, a great  
of Big Hadley Jr. and out of high class  
pure sows; also a few tried sows and fall  
sows. All immune. A. A. Meyer, McLouth, Ks.

LANGFORD'S SPOTTED POLANDS  
A gilts, tried sows, herd boar prospects.  
C. Langford & Sons, Jamesport, Missouri

## PUBLIC SALE FEBRUARY 27, 1919

Of registered Chester White sows and gilts  
bred to Prince Tip Top, first prize junior  
yearling at Topeka, 1918, and Big Prince by  
Prince Big Bone. Am booking names for  
catalogs.

Henry Murr, Tonganoxie, Kan.

### JERSEY CATTLE.

FOR SALE—Five registered cows, to  
be fresh in January. We are pricing  
them very reasonable. They are strictly  
high class, perfect individuals and the  
best blood lines. Also young things and  
bred heifers.

J. W. BERRY & SON, Jewell City, Kan.

### GUERNSEY CATTLE.

GUERNSEY BULLS  
Good individuals of serviceable age, of  
May Royal, May Rose, Masher Sequel, Ray-  
mond of the Peel breeding. Write or come  
and see them.

ADAMS FARM, GASHLAND, MISSOURI  
Twelve miles from Kansas City.

### POLAND CHINAS.

### ERHART'S POLAND CHINAS

Have a great lot of spring boars for sale.  
Some by the 1200-pound, A Big Wonder.  
Will make prices on pairs and trios not  
related. All immune. Write your wants.  
Bred Sow Sale Feb. 19, 1919.

A. J. ERHART & SONS  
NESS CITY, KANSAS

### ANGUS CATTLE.

### Cherryvale Angus Farm

Is offering six choice Angus bulls ranging  
in age from 9 to 11 months. All sired by  
Roland L. No. 187220.

J. W. TAYLOR  
Route 8 Clay Center, Kansas

## Faulkner's Famous Spotted Polands

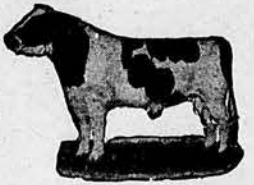
## COMPLETE DISPERSION SALE OF ONE OF THE PREMIER HERDS OF

## REGISTERED HOLSTEIN CATTLE

IN THE SOUTHWEST



At Fair Grounds  
Chanute, Kansas  
Tuesday, Feb. 11  
1 p. m.



### FIFTY HEAD

Forty-five head of Registered Cows and Heifers, mostly with A. R. O.  
records up to 26 pounds as a four-year-old; and Five Registered Bulls from  
highly bred A. R. O. dams and sires, including our great young three-year-  
old sire, EMPEROR SEGIS PONTIAC DEL KORNDYKE 167620, one of the  
most promising sons of KING SEGIS PONTIAC, and a highly bred daughter  
of PRINCE SEGIS KORNDYKE 38835, a brother of the great KING SEGIS.

Having just completed a deal which associates and interests me with  
one of the largest and best equipped estates in the East for the develop-  
ment of one of the GREATEST REGISTERED HOLSTEIN HERDS in the  
country which needs by personal management immediately, I have decided  
to sell my entire herd at PUBLIC AUCTION. I know it will be a surprise  
to my friends to hear of this herd going at auction. This herd is the result  
of years of breeding and financial expense to attain the highest possible  
standards of individuality, breeding and production, and it will be a long  
time before such a combination will be ever offered to the public at auction  
again. The cattle are in the PINK of condition, good flesh and healthy.  
Every animal over six months of age will be tuberculin tested by a compe-  
tent State Veterinarian and will give purchaser privilege of sixty-day retest  
and are guaranteed clean from contagious abortion or any other infectious or  
contagious disease.

The following day, February 12, I will sell at PUBLIC AUCTION at the  
MAGEE DAIRY FARM, 3 1/2 miles northwest of Chanute, all my modern farm  
machinery and dairy equipment, registered Duroc Jersey sows, gilts and  
boars. Also horses, feeds, and other things too numerous to mention.

Will also lease my productive dairy farm of 200 acres with 40 acres of  
fine alfalfa and fifty acres of growing wheat, two silos with necessary barns  
and buildings to conduct a first class dairy of forty cows.

Chanute is a division point of the Santa Fe and on the M. K. & T. and  
127 miles southwest of Kansas City.

Send for Full Descriptive Catalog, Ready to Mail

## MAGEE DAIRY FARM

JAS. W. MAGEE, PROPRIETOR

AUCTIONEERS

Col. Fred S. Ball, El Reno, Oklahoma; Col. W. J. O'Brien, Tonganoxie, Kansas

## JOHN'S ORION DUROC SALE

Washington, Kansas, Wednesday, Feb. 5, 1919

50 Twenty-five Tried Sows and Fall Gilts  
50 Twenty-five Spring Gilts of Popular Breeding 50

Thirty-five Top Sows Are Bred to John's Orion 4285A, the Greatest Son of the  
\$5,000 Joe Orion 2d.

### Facts About John's Orion:

He weighed, as a two-year-old, 1,040 pounds.  
Sired more thousand-pound boars than any boar in the West.  
He is the sire of John's Combination, John's Orion Jr., John's Orion Again,  
King John's Orion, and John's Joe Orion, every one of which is a real thousand-  
pound boar.  
His sows are great producers. Many of them produced litters in 1918 which  
have sold for from \$1,500 to \$3,000.  
John's Orion has won more first prizes and championships in the big shows  
than any living boar. He won at the International two years in succession.

Every Tried Sow in This Sale Raised a Good Litter Last Year  
For catalog address

Gwin Bros.,

Morrowville, Kansas

Auctioneers: Jas. T. McCulloch, Will Myers.

Sale Held in Washington, Kansas.

Please Mention Kansas Farmer  
When Writing to Advertisers.

### DUROC JERSEYS.

### 250 — Duroc Bred Gilts — 250

We offer 250 gilts guaranteed in farrow  
and immune, big type, best of blood lines  
and pedigrees recorded. Will sell one or a  
carload. Better get our prices. Shipped to  
you before you pay for them.

F. C. CROCKER

Box K Filley, Nebraska

### Duroc Bred Sows and Gilts

For Sale—Several well bred sows and bred  
gilts bred for early March and April litters,  
priced to sell. Also a few spring boars.  
First check or draft gets choice. Sold on an  
absolute guarantee or money back.

JOHN A. REED & SONS, LYONS, KANSAS

### HIGHVIEW DUROCS

Home of Repeater by Joe Orion King and  
Golden Repeater by Pathfinder. For sale—  
spring boars and a few bred gilts. I guar-  
antee satisfaction or your money back.

F. J. MOSER - SABETIA, KANSAS

### R. H. DIX & SON'S DUROCS

For Sale—One choice spring boar, a real  
herd header. Twelve spring gilts bred to  
Giant Crimmon by G. M.'s Crimmon Wonder,  
a prize winning boar. Priced reasonable for  
quick sale. Write today.

R. H. DIX & SON, HERINGTON, KANSAS

### WOODDELL'S DUROCS

I am going to slash prices on boars the  
next thirty days. If you want a good boar  
at a bargain, write at once.

G. B. WOODDELL - WINFIELD, KANSAS

When writing to KANSAS  
FARMER live stock advertisers,  
please mention this paper.

## IN BROOD SOW SALE

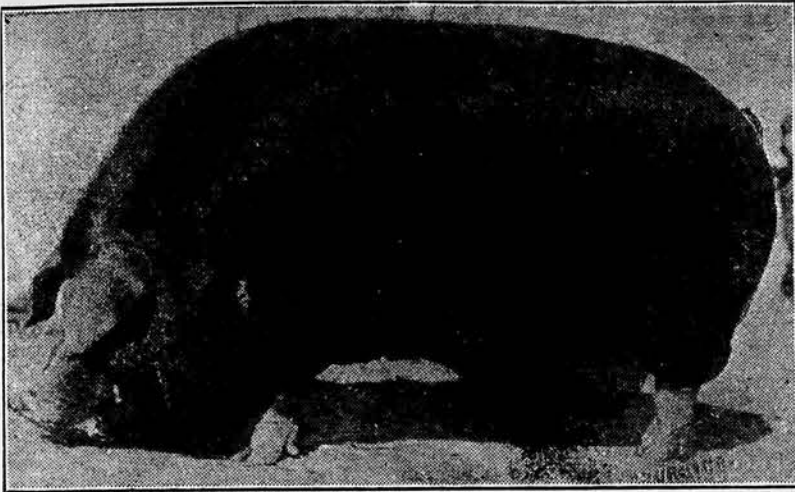
TUESDAY, FEBRUARY 18, 1919

You know the kind—big bones, big hams, and big spots—  
the prolific kind. If interested in the world's greatest pork  
hog, write for catalog.

H. L. FAULKNER, Box K, Jamesport, Mo.







Caldwell's Big Bob, the Breed's Most Sensational Sire

## Caldwell's Big Bob Poland China Sale

At Howard, Kansas, February 8, 1919

### 45 HEAD CAREFULLY SELECTED SOWS AND GILTS

25 Will Be Bred and Safe to Caldwell's Big Bob.  
10 Will Be Bred and Safe to King Jumbo.  
10 Will Be Bred and Safe to King Bob.

An offering practically made up of yearling and young sows. A few of the attractions bred to Caldwell's Big Bob are

**JUMBO GIRL**, a March yearling by Big Jumbo out of Longfellow Belle by Longfellow Price.

**MAMIE GIRL**, a March gilt by Blue Valley Big Bone, dam Mollie Big Bone by Smooth Big Bone.

**ROYAL GIANTESS**, a May yearling by Long Giant, dam Royal Lady by Long Giant.

**JESSIE JONES**, a granddaughter of Hancher's Big Jones.

**JUMBO MAIDEN**, a March two-year-old by Jumbo by Long Wonder, dam by King Defender.

**LADY SPEARMINT**, by Giant Buster, dam Lady Queen by Long Expansion, one of the top things in the Wrigley dispersion sale.

**LADY QUEEN**, by Long Expansion; an outstanding March gilt by the 1917 Iowa champion, A's Mastodon.

All are immuned and I have insured the entire offering for one year from date of sale, for one-half the purchase price. This will insure each purchaser a bred sow or the insurance money. The sale will be held in the heated sale pavilion on the Elkmere Farm. Please send for catalog.

FRED B. CALDWELL

HOWARD, KANSAS

Col. J. C. Price, Auctioneer

### HOLSTEIN CATTLE.



Lower Per Cent  
of Butterfat

Dairymen handling Holsteins do not hesitate to admit that the milk of this breed contains a lower percentage of fat, but in view of their enormous yield of milk they average more butter per cow and they produce a larger margin of profit.

If interested in

#### HOLSTEIN CATTLE

Send for our booklets—they contain much valuable information.

HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA, Box 114, Brattleboro, Vt.

#### A. R. O. HOLSTEINS

A bull calf born December 12, 1918, nine-tenths white. Sired by a 24-pound bull, dam is a 17-pound three-year-old. The first check for \$125 takes him.

#### Pinedale Stock Farm

H. A. DRESSLER LEBO, KANSAS

#### REGISTERED HOLSTEINS

Ten fresh registered cows and heifers, six registered bulls, serviceable ages, out of cows with records up to 23 pounds of butter in seven days. Ten high grade heifers out of a bull whose three nearest dams averaged over 25 pounds per week, bred grade heifers, \$125; yearlings, \$65; almost white. Write or come and see my herd.

#### Chas. V. Sass

1013 North Fifth St., Kansas City, Kansas

#### HOLSTEIN CATTLE

We offer cows and heifers due to freshen soo. Also a few choice calves ready for shipment. Write us for prices, etc.

#### W. C. Kenyon & Sons

Holstein Stock Farms, Box 33, Elgin, Illinois

#### BUTTER-BRED HOLSTEINS

Three choice registered Holstein bulls, ready for light service, and some bred heifers to a 32-pound sire.

J. P. MAST, SCRANTON, KANSAS

#### BRAEBURN HOLSTEINS

My King Segis herd bull's dam and sire's dam both held world records. No other bull within 1,000 miles is of that class; and not many anywhere.

H. B. Cowles, 608 Kansas Av., Topeka, Kan.

**SEGRIST & STEPHENSON, HOLTON, KANSAS**  
Breeder exclusively of pure-bred prize-winning record-breaking Holsteins. Correspondence solicited.

#### GOLDEN BELT HOLSTEIN HERD

Herd headed by Sir Korndyke Bess Hello No. 165946, the long distance sire. His dam, grand dam and dam's two sisters average better than 1,200 pounds butter in one year. Young bulls of serviceable age for sale.

W. E. BENTLEY, MANHATTAN, KANSAS

#### CHOICE HOLSTEIN CALVES

12 Heifers and 2 Bulls, highly bred, beautifully marked, and from heavy producing dams, at \$25 each, crated for shipment anywhere. Safe delivery guaranteed. Write

FERNWOOD FARM, WAUWATOSA, WIS.

#### FARM AND HERD.

Everett Hayes, of Manhattan, Kansas, has announced February 18 for his annual sale of Spotted Poland China sows. Mr. Hayes has been a consistent booster for improved live stock for many years and has developed some of the best Shorthorn cattle and Spotted Poland China hogs that has gone out from any breeding farm. Mr. Hayes also breeds registered Holstein cattle. His farm adjoins the college farm, near Manhattan. The Spotted Poland foundation came from the well known herds of H. L. Faulkner and J. D. Gates. Mr. Hayes has about the best lot of Spotted Poland that will go through any sale this year.

John W. Petford, Saffordville, Kansas, has catalogued twenty head of choice mature Duroc Jersey sows of the most popular blood lines, sows that have raised good litters and are now safe to his great trio of boars. Thirty head of fall and spring

### HORSES AND MULES.



#### 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. Two Percheron stallions. Come and see me.

#### PHIL WALKER

Moline, Elk County, Kansas



#### PERCHERON-BELGIAN SHIRES

Registered mares heavy in foal; weanling and yearling fillies. Ten mature stallions, also colts. Grown ourselves the ancestors for five generations on dam side; sires imported. Fred Chandler, Rt. 7, Charlton, Iowa

#### PERCHERON STALLIONS

Some good young stallions sired by Algare and Bosquet, two great herd sires. These young stallions are very promising and priced to sell.

D. A. HARRIS - GREAT BEND, KANSAS

#### JACKS AND JENNETS

Registered Jacks and Jennets. Good individuals, good colors. Have some choice young Jacks that are priced to sell quick.

GEO. S. APP, ARCHIE, MISSOURI

### SHORTHORN CATTLE.

## THE SHORTHORN



#### THE FARMER'S BREED — BEEF AND MILK

Shorthorn steers made three world's records on the open market in 1918 selling for \$19.50, \$19.60 and \$20 per cwt. The cows incline to a liberal milk flow with records in excess of 17,000 pounds per year. When dry the Shorthorn cow fattens quickly. Her calves are always in demand. The Shorthorn excels in scale, quality and quiet disposition.

#### SHORTHORN BULLS

For Sale—Ten bulls, seven to fifteen months old; Scotch and Scotch topped. Two Scotch bulls by Type's Goods, one a Braith Bud, the other a Duchess of Gloster. All in good condition and priced reasonably.

S. B. AMCOATS, CLAY CENTER, KANSAS

Write Me Your Wants

#### Cloverdale Farm Shorthorns

For Sale—Three Shorthorn heifers, two bred to a grandson of Whitehall Sultan; also a fine roan yearling Scotch bull, a real herd bull for some one. Heifers, \$150 to \$225; bull, \$300. Must go soon at this.

Wesley Jewell, Humboldt, Ks.

#### Ellen Dale Breeding Farms

Ellen Dale Shorthorn cattle and Duroc hogs. Bred sows, bred heifers, also choice bulls for sale. Inspection invited.

R. C. Watson, Altoona, Kansas

#### Mulefoot Hogs-Shorthorn Bulls

No hogs for sale at present. Four bulls eight to fourteen months old, roans and a red, sired by Knox Knoll Dale 617322, priced from \$150 to \$225.

Knox Knoll Stock Farm, Humboldt, Kansas

#### MARK'S LODGE RED SHORTHORNS

For Sale—25 well bred cows and heifers bred, priced reasonable. A few young bulls by Double Diamond by Diamond Goods.

Price, \$150. Come and see my herd.

M. F. MARKS, VALLEY FALLS, KANSAS

#### Doyle Springs Stock Farm

Registered Scotch and Scotch-top bulls, whites and roans, 8 to 10 months.

F. P. WILSON - PEABODY, KANSAS

#### PLEASE MENTION KANSAS FARMER WHEN WRITING TO ADVERTISERS

yearlings will also be included in this offering. A part of the sows and gilts will be safe for spring litters to Model Ally, the grand champion at the Topeka Free Fair, 1918, and Illustrator Orion 3d.

## John W. Petford's Duroc Bred Sow Sale

IN NEW PAVILION AT

Saffordville, Kansas  
February 26, 1919

### FIFTY HEAD

#### Twenty Choice Duroc Sows and Thirty Fall and Spring Gilts

The tried sows are by Defender, King's Col., Big Wonder, John's Combination, Fancy Victor, Giant Wonder, Pathfinder, Grand Model, and others.

The spring gilts are sired by Illustrator's Orion 2d, Pet's Great Wonder by Great Wonder, dam by Grand Model, and a son of Burke's Good Enuff, dam by Great Wonder; Pathfinder, King's Col. Again, Cherry King Orion, Grand Model, Grand Model's Giant, Cherry King Disturber, and others, including the great sows, King's Lena by King the Col.; Pathfinder Girl by Pathfinder; Helen Gano by Educator, and Grand Lady 46th. These sows will be bred to Illustrator Orion 3d.

The fall yearlings are sired by Cherry Chief's Pride; Peter Pan; Burke's Good Enuff, and Illustrator Orion 3d, and will be bred to Model Ally, Illustrator 3d, and other good boars.

## John W. Petford, Saffordville, Kans.

Please Send for Catalog and Arrange to Attend My Sale.

I Guarantee a Splendid Lot of Brood Sows and Gilts.

## Big Type Chester Whites

KANSAS HERD'S SECOND ANNUAL SALE

Selected from the premier Chester White Herd of the State

### 60 Head--30 Sows and 30 Gilts

Bred to four boars born in the purple

Sale will be held in the Coliseum, heated and under cover,

LEAVENWORTH, KAN., TUESDAY, FEB. 11, 1919

Catalogs now ready. Please write at once, mentioning Kansas Farmer.

ARTHUR MOSSE

ROUTE 10

LEAVENWORTH, KANSAS







## DISPERSION SALE OF SHORTHORN CATTLE

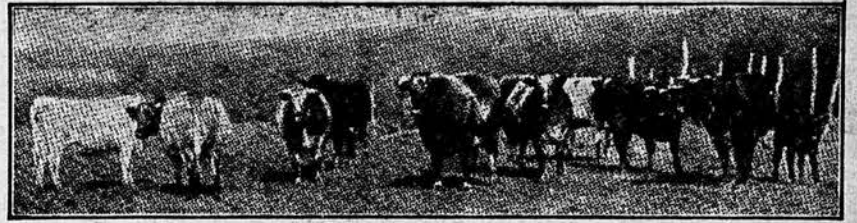
AT MY FARM NEAR OGDEN, KANSAS  
**Saturday, February 15, 1919**

I have sold my farm and am selling my entire herd of both registered and high grade Shorthorn cattle.

**40 HEAD REGIST'D SHORTHORN COWS AND HEIFERS,  
7 YOUNG BULLS, AND ONE HERD BULL**

Five grade Shorthorn cows that are pure-bred but can not be registered. Several by registered and foundation cows come from the Andrew Pringle herd at Eskridge, Kansas, and are such cows as Caroline tracing to Imported Rosemary; Butterscotch tracing to Imported Pomona; Bluebell tracing to Imported Pomona Anna, a splendid Scotch-topped cow tracing to Imported White Rose and Scottish Pride, bred by Joe Baxter, Clay Center, Kansas, tracing to Imported Blossom, through Gol-

den Crown and old Gallant Knight; Red Lady tracing to Imported Flora, and Knight's Missie, tracing to Imported Rose. All will be bred to Caroline's Roan, a grandson of Choice Goods.



Sale will be held right on the farm, two miles from Ogden, Kansas. Parties are requested to come on the electric line from Junction City or Manhattan and stop at Kemp Crossing, one mile from farm.

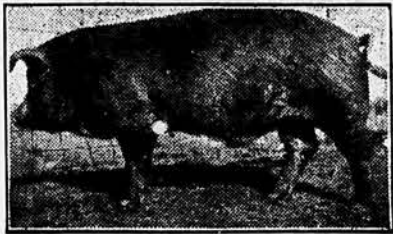
Please send for catalog and come to sale if you want some good useful cattle.

Auctioneer—L. R. Brady, Manhattan

**W. J. WEISNER, OGDEN, KANS.**

## Duroc Jersey Bred Sow Sale, February 14, 1919

At TURON, KAN. 50 Head Tried Sows, Fall Yearlings and Spring Gilts



UNEEDA'S HIGH ORION

Col. John D. Snyder, Auctioneer  
(Sale held right in town.)

Several daughters of Critic B and Crimson Illustrator, the sire of the first prize futurity litter, Kansas State Fair, 1918. Same daughters of King Orion Cherries and Cherry Chief, Prince Defender and other noted sires.

I am offering the best lot of bred sows and gilts I have ever sold and bred to the best son of High Orion. The sows have all raised good litters. The fall yearlings are a part of my show herd and are well grown out. The spring gilts are the best I ever raised. I guarantee a good offering. Please send for catalog and come to my sale. Write today for catalog to



A SAMPLE, BRED TO HIGH ORION

**W. W. ZINK, TURON, KANS.**

## Kansas DUROC JERSEY Breeders' Sale

At Manhattan, Kan., February 7

**FIFTY HEAD GREAT SOWS AND GILTS**

Consisting of Twenty Tried Sows, Thirty Spring and Fall Yearling Gilts.

The pick from twenty-four good herds.

There are daughters and granddaughters of Pathfinder, Orion Cherry King, Great Wonder, King the Col., Illustrator 2d, Grand Model and Joe O'Rion 2d. They will be bred to such boars as Orion Cherry King, Joe O'Rion 2d, Pathfinder, High Orion, King Orion Jr., King's Col., King the Col. and Joe Orion 5th. The following well known Kansas breeders are contributors to this sale: L. L. Humes, Glen Elder; W. W. Jones, Clay Center; Gwin Bros., Morrowville; William

Morrow, Washington; Casement Ranch, Manhattan; W. H. Shroyer, Miltonvale; John A. Reed & Sons, Lyons; Glen Kee-secker, Washington; Guy Zimmerman, Morrowville; C. H. Black, Marion; L. W. Coad, Glen Elder; J. W. Petford, Saffordville; C. W. McClaskey, Girard; G. M. Shepherd, Lyons; Kempin Bros., Corning; Clyde C. Horn, Stafford; J. A. Howell, Herkimer; Geo. M. Klusmire, Holton; F. J. Moser, Sabetha; M. R. Peterson, Troy; L. G. Wreath, Manhattan; Harry Givens, Manhattan; Homer Drake, Sterling.

This sale will be held during Farmers' Week. Please write for catalog to

**Roy E. Gwin, Sale Mgr. Morrowville, Kans.**

And arrange to be on hand at this sale at the College, Friday, February 7, 1919.

## THE BIG SENSATION POLAND CHINA SALE

Hutchinson, Kan., February 19, 1919

Herd headed by BIG SENSATION, the biggest boar of any breed ever shown, assisted by Buster Price, Big Hadley Jr., King Price Wonder and Big Bob Jumbo

**SIXTY HEAD—Fifteen Tried Sows, Fifteen Junior Yearlings,  
Fifteen Fall Yearlings, Fifteen Spring Gilts**

**FIFTY HEAD BRED TO BIG SENSATION**

Others to Erhart's Big Chief, the great son of Bloemendaal's Big Chief, and Buster Price by Giant Buster

You know what it means to have a real sow bred to the biggest boar of the breed—yes, of any breed. Well, this is the place to get them. We will show you the greatest lot of real sows ever driven through one sale ring.

Sows that sell bred to Big Sensation are: Big Josie by Fessy's Timm; Big Giantess and Wonder Giantess, litter mates by King of Wonders out of Big Ben's

Giantess by Big Ben; Walnut Valley Girl by Big Hadley Jr.; Timm's Superba by Walter's Jumbo Timm, dam Lady Superba by Superba; Iola Jumbo by Iowa Jumbo; Bessie Jumbo 2d by Jumbo Hadley, a daughter of Bessie Wonder, the highest-priced sow sold in Kansas in 1917; Miss Model by Young Orphan; Wonder Queen by High Wonder, one of the top things in the Wrigley dispersion sale; Wonder Girl by Fessy's A Wonder, and others of equal note.

**JUNIOR YEARLING GILTS:** Four by Smooth Big Bone A, three by Big Bob Wonder, two by Caldwell's Big Bob, and two by McCoy's Big Joe 2d.

**FALL YEARLINGS** are by Big Hadley Jr., King Price Wonder and Big Bob Jumbo, while the spring gilts are by Big Hadley Jr., Erhart's Big Chief, Long Bob and Big Jones.

Send for catalog and notice the generous offer of prices for Big Sensation pigs that show at the various shows next fall. This is an opportunity for all. Don't overlook it. Please write for catalog and come to our sale at Hutchinson.

**A. J. Erhart & Sons,**

**Ness City, Kansas**

**Auctioneers—Cols. Snyder, Price, Groff, Kramer, McCormick**

**THE SOUTHERN KANSAS CIRCUIT:** Bert Hodson's Dispersion, Wichita, Kansas, February 17; Francois Olivier & Sons, Danville, Kansas, February 18; A. J. Erhart & Sons, Hutchinson, Kansas, February 19; Ross & Vincent, Sterling, Kansas, February 20; Bruce Hunter, Lyons, Kansas, February 21.



## Poland China Bred Sow Sale

### Bendena, Kansas, February 13, 1919

#### 50 Head - 5 Tried Sows, 19 Fall Yearlings

#### Twenty-six Spring Gilts

**BRED TO**  
**BIG BOB 2D** — The Great Breeding Son of Big Bob Wonder  
**MODEL TIMM 2D** — By Blue Valley Timm, one of the season's great young prospects

**KING BOB**—By J. H. Anderson's noted sire, Long Bob, and  
**WONDER PRICE 2D** by King Price 2d

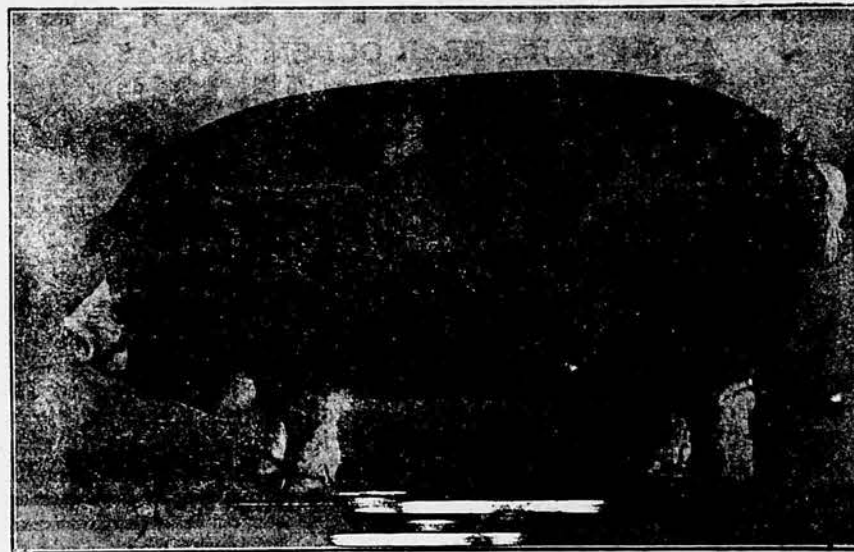
The five tried sows include REXALL CHOICE and REXALL BEAUTY by Futurity Rexall out of Metal Maid. These two sows have farrowed but one litter each and are now bred to Big Bob 2d. MISS QUALITY by Futurity Rexall and MISS STANDARD by Chief Expansion, both bred to Model Timm 2d, and One of Big Bob 2d's Best Daughters Bred to Wonder Price 2d

#### THE FALL YEARLINGS INCLUDE

Four of the 1918 show litter by FUTURITY REXALL, dam Black Lady 3d. These are outstanding and are bred to Big Bob 2d and Wonder Price 2d. Fifteen big, roomy daughters of BIG BOB 2D out of O K Maid, Madam Orange and Hadley Queen. One of these will weigh 700 pounds; four, 660 pounds.

The twenty-six spring gilts are by Big Bob 2d, Wonder Price 2d, Big Hadley,

Expansion Wonder, Hillcrest King, Iowa Lad, Big Wonder Hadley, Big Wonder Price and Orange Taxpayer, with one daughter of Buster Over. These are bred to Long Bob and Model Timm 2d, our two great young boars.

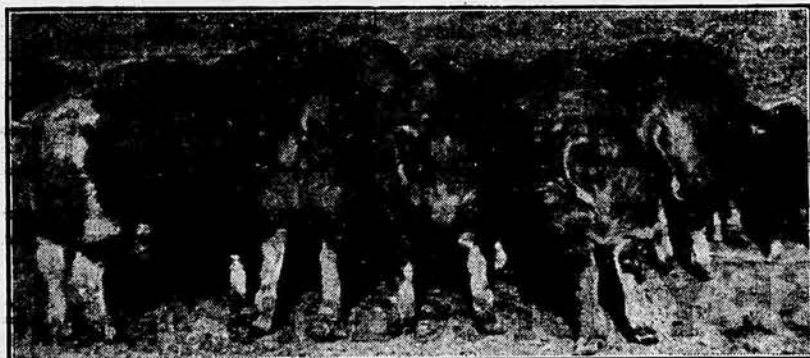


We also sell the great sires, BIG BOB 2D 76106 and WONDER PRICE 2D. Please send for catalog and arrange to attend sale. We guarantee a splendid lot of useful well bred hogs.

**Herman Gronniger & Sons, Bendena, Kansas**  
 Auctioneer, Col. R. L. Harriman, Bunceton, Mo.

## Poland China Bred Sow Sale

### SCHNEIDER & CORKHILL



**At Nortonville, Kansas, February 11, 1919**

**45 HEAD OF TRIED SOWS AND FALL YEARLINGS**

The big, useful farmer hog, sired by such boars as Pfander's King, Long King's Best, Guy's Expansion, Model Bob, Long Price, Jumbo Timm, Timm Again, The Giant, Big Bob Jumbo, Great Leader, Bell's Orphan, Big Bob 2d by Big Bob Wonder, Master Orphan, Smooth Wonder, Jumbo Wonder by B Wonder, and other good boars. They will be bred for March and April litters to our herd boars, Gerstdale Prince by Gerstdale Bob by Big Jones and his dam was Greenfield Princess by Big Wonder, Jumbo Wonder by B Wonder out of Long Wonder 2d dam, Long Giant by The Giant.

These sows have been grown in a way that insures their future usefulness as breeders. They are not fat, but in good condition, and they will make good for any farmer or breeder if properly cared for. This is the best lot we have ever offered.

Please send for catalog and come to our sale. We guarantee a good offering. Sale right in town. Good train service. For catalog write either

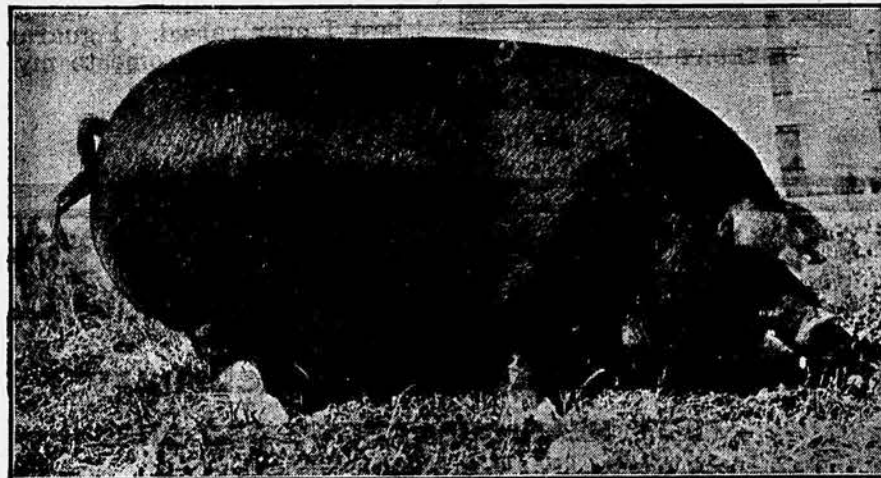
**JOE SCHNEIDER or T. A. CORKHILL**  
 NORTONVILLE, KANSAS

Auctioneers: Col. Frank Reagan and Col. John Daum.

## J. M. BARNETT'S GREAT SALE OF IMMUNED

## POLAND CHINA BRED SOWS

### YEARLINGS AND GILTS



**AT DECKER'S GARAGE, DENISON, KANSAS,**

**FEBRUARY 12, 1919**

**52 Head Six Tried Sows, Sixteen Fall Yearlings, Twenty-seven Spring Gilts, Three Spring Boars**

Forty sired by BIG JUMBO CHIEF by Bloemendaal's Big Chief. I am especially proud of this lot.

The offering is sired by BIG JUMBO 76095, BLUE VALLEY GIANT 2D 63217, EXALTER'S RIVAL 68366, MAJOR ZIM 61640, and BIG JUMBO CHIEF 83016.

The offering is bred to BIG JUMBO CHIEF, with the exception of the lots sired by him, and these are bred to NO WONDER and GIANT K 2D. The NO WONDER cross on BIG JUMBO CHIEF gilts is ideal, as is shown by the great bunch of fall pigs I now have on the place.

The tried sows raised two litters each last year, and the fall yearlings all raised fall litters.

**THE PROLIFIC KIND, THE KIND THAT MAKE GOOD FOR THE FARMER**

An offering with outstanding individuals, both size and quality. Please send for catalog and mention Kansas Farmer. Good train service and I guarantee a good offering.

**J. M. BARNETT - - - DENISON, KANSAS**

Auctioneers—Col. Jas. McCullough, Col. Decker, Triggs and Addy

## DISPERSAL SALE of Reynolds & Gleason's Jersey Cattle

### Horton, Kansas, Wednesday, February 12, 1919

At the Farm Seven Miles West of Horton, Five Miles North of Whiting

**22 HEAD OF REGISTERED JERSEYS**

**27 HEAD OF HIGH GRADES OF BEST BREEDING**

Heavy producers, tuberculin tested and regular breeders. Never had a non-breeder on the farm.

Headed by DISTINCTION'S GAMBOGE 151160, grandson of the celebrated Gamboge's Knight, sold for \$6,700 and sire of forty-five Register of Merit cows averaging over 500 pounds butter per year.

Sale also includes a lot of Horses, Hogs, Farming Implements, etc. This is an absolute dispersal. Nothing reserved. An opportunity to secure some first class Jerseys at your own price.

Conveyances will be provided from Horton and Whiting day of sale. For catalogs and particulars write

**B. C. SETTLES, Sales Manager, PALMYRA, MISSOURI**

Auctioneer—Col. Chas. Streeter, Horton, Kansas

## SHROPSHIRE SHEEP



**FOR SALE**

A bunch of big heavy-wooled young registered Shropshire ewes, not high in price. Bred to fine rams.

Howard Chandler, Charlton, Ia.

**AUCTIONEERS.**

**FRANK BLAKE** Live Stock Auctioneer  
 Write for date. VALLEY FALLS, KANSAS

**W. B. CARPENTER** Live Stock Auctioneer  
 President Missouri Auction School  
 818 Walnut St. Kansas City, Missouri

**LIVE STOCK AUCTIONEER** — Fifteen years' experience. Wire for date.  
**JOHN D. SNYDER, HUTCHINSON, KAN.**

## HAMPSHIRE HOGS

Registered Hampshire Hogs—Sows and Spring Gilts, bred or open. Choice spring boars. Double treated. Geo. W. Els, Valley Falls, Kansas

## BREEDERS' DIRECTORY

**DORSET HORN SHEEP**

H. C. LeTourrette, Route 2, Oberlin, Kan.

**HEREFORD CATTLE**

F. S. Jackson, Topeka, Kan.

**RED POLLED CATTLE**

Mahlon Greenmiller, Pomona, Kansas.

**POLLED DURHAMS**

C. M. Albright, Overbrook, Kan.

## ANGUS CATTLE

**Dietrich's Aberdeen-Angus**

Aged bulls, fifteen choice spring bulls. Females, all ages.

**GEO. A. DIETRICH, CARBONDALE, KAN.**



# United States Disciplinary Barracks Farm Colony



CARLOTTA GERBEN DE KOL AAGGIE

This fine show heifer, as well as her son and daughter, will be sold.

## First Dispersion Sale, Saturday, February 15 46 - Registered Holstein-Friesian Cattle - 46

### THE SALE INCLUDES:

Two Sires in Service      Fifteen Cows in Milk or Springers  
Seventeen Heifers: two 2-year-olds

Four Yearlings and Eleven Calves from 2 to 12 months old

This is your first opportunity to obtain stock from the Government's Big Herd here. DON'T MISS IT.

Breeding, Individuality and Production are the outstanding features of this herd.

The stock offered for sale is as fine a group of individuals as has ever been placed on the market. It will pay you to come to this sale and look them over.

REMEMBER THE DATE AND SEND FOR CATALOG.

### Other Offerings:

One thousand Pure-bred Single Comb White Leghorns in pens. Each pen consists of twelve carefully selected pullets, developed and ready for business, and one cockerel. Each cockerel is a real pen-header of the best breeding.

A number of Registered Duroc-Jersey Boars of the finest breeding, the kind that you will be proud to own.

## U. S. Disciplinary Barracks Farm Colony FORT LEAVENWORTH, KANSAS

Harlo J. Fiske, Captain Q. M. C., Sales Manager

This sale will be held in conjunction with the Leavenworth County Sale, Leavenworth, Kansas, February 13, 14 and 15, 1919.

# The Leavenworth County Sale of Holstein-Friesian Cattle Leavenworth, Kansas, February 13-14, 1919

## ONE HUNDRED HEAD OF PURE-BREDS

On Thursday, February 13, 100 head of heavy milking grade cows and choice bred heifers, fresh or close springers, will be sold. These cattle are being dispersed by Leavenworth County farmers to make room for pure-breds and are a fine lot of grade cattle. This is an opportunity for the buyer of car-load lots.

On Friday, February 14, 100 head of the best registered cattle. This offering will consist of consignments from the herds of A. S. Neale, Manhattan, Kansas, and Mott Bros., Herington, Kansas, together with the entire dispersal of the M. E. Moore & Co. herd of Cameron, Missouri, the latter to be sold to settle the estate. This will be, without doubt, the greatest dispersal sale ever held west of the Mississippi River. This herd was founded by the late M. E. Moore, nearly forty years ago, and has always been conceded to be the leading herd of the Central West. It has furnished foundation stock for many famous herds both east and west, including the Pontiac, Mich., State Hospital Herd that gave to the breed Hengerveld De Kol, Pontiac Korndyke, and other famous sires.

The Moore herd produced and exhibited the champion show herd at the

## ONE HUNDRED HEAD OF HIGH GRADES

St. Louis World's Fair. It also produced Shadybrook Gerben, the great cow that at twelve years of age was champion over all breeds for production of both milk and butter in the St. Louis World's Fair production contest. The only living daughter, together with several granddaughters of Shadybrook Gerben, are included in this dispersal sale. Another offering of particular importance from the Moore herd is the great show and breeding bull, DIOTIN CLYDE CORNUCOPIA LADD 150537, affording an unusual opportunity for a breeder or group of breeders to secure a high class herd bull.

In this sale twenty A. R. O. cows, forty daughters of A. R. O. cows, twenty daughters of 30-pound bulls, fifty cows and heifers, many heavy springers safe in calf to high record bulls. Twenty fresh cows, fifteen heifer calves and a few choice young bulls from 30-pound sires and A. R. O. dams, granddaughters of Hengerveld De Kol, Pontiac Korndyke, Johanna McKinley Segis, Tidy Abbe-kerk Prince, King of the Pontiacs and other famous bulls, every animal, both grade and pure-bred, tuberculin tested. Sale held and comfortably seated in heated pavilion—sale to start at 10 a. m. each day.

For catalog of this great sale, write W. H. Mott, Sales Manager, Herington, Kansas.

Auctioneers — J. E. Mack, Fort Atkinson, Wis., and others. S. T. Wood, Liverpool, N. Y., in the box.

NOTE.—The U. S. Disciplinary Barracks will sell forty head of pure-bred Holsteins in the same building on Saturday, February 15. Arrange to attend both sales.

# SHORTHORN CATTLE SALE

At My Farm Near Meriden, Kansas

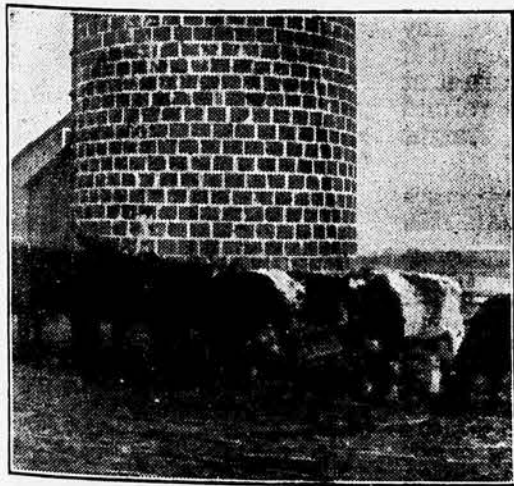
## February 14, 1919

### FORTY COWS AND HEIFERS

Several with calves at foot and all bred to Silk Goods, Vindicator and Royal Orange for early spring calves. Fourteen bulls by Silk Goods, Vindicator, Royal Orange and Good Enough, he by Searchlight Boy by Searchlight.

The cows and heifers represent the breeding of most all the leading families of useful cattle, The White Rose, Young Marys, Rose of Sharon, Queen Beauty, Violet Buds, Golden Prince and Imported Arabella; several cows tracing to Imported Hudson, Imported Caroline and Imported Red Lady 5th. This is the best lot of cattle I have ever offered for sale.

I will also offer one registered Percheron stallion and five grade Percheron mares in foal and two grade Percheron geldings, a splendid work team.



A GROUP OF SILK GOODS HEIFERS

My catalogs are ready to mail out. Please send for one and come to sale. Parties met either at Meriden, Kansas, on the Santa Fe Railway, or Grantville, Kansas, on the Union Pacific Railway. Farm sixteen miles northeast of Topeka, Kansas. For catalog write Auctioneer—L. R. Brady, Manhattan

## H. E. HUBER, MERIDEN, KANSAS



SILK GOODS, TEN YEARS OLD

I am selling twenty head of registered Duroc Jersey gilts sired by C Critic by A Critic and bred to my herd boar. Huber's Wonder by Great Wonder 2d by Great Wonder. His dam was Illustration Queen by King Illustration. The gilts are the pick from my herd and are well grown out.



# \$2 DOWN

## ONLY

### A Year to Pay

Top of  
Milk Tank is  
waist high—  
easy to fill

Milk and  
cream spouts  
are open—  
easy to clean

One-piece alumi-  
num skimming  
device is very  
easy to clean

All shafts are ver-  
tical and run on  
"frictionless"  
pivot ball bearings  
making the  
New Butterfly  
the lightest run-  
ning of  
all separators.

More Than  
**150,000**  
New Butterfly  
Cream Separators  
are now in use

Think of it! You can now get any size of the New Butterfly Cream Separator you need direct from our factory for only \$2 down and on a plan whereby it will earn its own cost and more **before you pay**. You won't feel the cost at all. Our low prices will surprise you. For example:

# \$38

buys the No. 2½ Junior, a light running, easy cleaning, close skimming, durable, guaranteed separator. Skims 120 quarts per hour. You pay only \$2 down and balance on easy terms of

## Only \$3 a Month

You have no interest to pay. No extras. The prices we quote include everything. We also make four larger sizes of the

## New Butterfly

up to our big 800 lb. capacity machine shown here—all sold at similar low prices and on our liberal terms of only \$2 down and more than a year to pay. Every machine guaranteed a life-time against defects in materials and workmanship.

## 30 Days' Trial

You can have 30 days' trial on your own farm and see for yourself how easily one of these splendid machines will earn its own cost and more before you pay. Try it alongside of any separator you wish. Keep it if pleased. If not you can return it at our expense and we will refund your \$2 deposit and pay the freight charges both ways.

## Catalog Folder—FREE

Why not get one of these big labor-saving, money-making machines while you have the opportunity to do so on this liberal self-earning plan? Let us send you our big, new, illustrated catalog folder showing all the machines we make and quoting lowest factory prices and easy payment terms. We will also mail you a book of letters from owners telling how the New Butterfly is helping them to make as high as \$100 a year extra profit from cows. Sending coupon does not obligate you in any way. Write today.

**ALBAUGH-DOVER CO.**  
MANUFACTURERS

2181 Marshall Blvd. CHICAGO

**Gets ALL  
The  
CREAM**

Made \$61.39 More from Same Cows  
"We made \$78.61 worth of butter before we had the machine and in the same length of time we made with the Butterfly Separator \$140.00 worth of butter from the same number of cows."  
THOS. S. KERMOSKY,  
Point Aux Pies, Mich.



**EASY  
TO  
TURN**

Twelve-Year-Old Child Runs It  
"We would not do without our Butterfly Separator or exchange it for all the machines we have seen. Our little girl, 12 years old, runs it like a clock!"  
MRS. P. E. RUDE, Ashland, Wis.



**EASY  
TO  
CLEAN**

Simplest, Easiest to Clean  
"My son took a course in agriculture at Cape Girardeau and he worked with a dozen or more makes of separators, and he said this was the most simple and easier cleaned machine than any of them."  
J. B. FINLEY, Oran, Mo.

**ALBAUGH-DOVER CO.,**  
2181 Marshall Blvd., Chicago, Illinois

Gentlemen:—Without obligation on my part, please mail me your free Catalog Folder and full particulars regarding your special easy payment offer on the New Butterfly Cream Separator.

I keep.....cows.

Name.....

P. O.....

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