

INTERNATIONAL WHEAT SHOW, OCTOBER 2-14, WICHITA, KANSAS

KANSAS FARMER

For the improvement  of the Farm and Home

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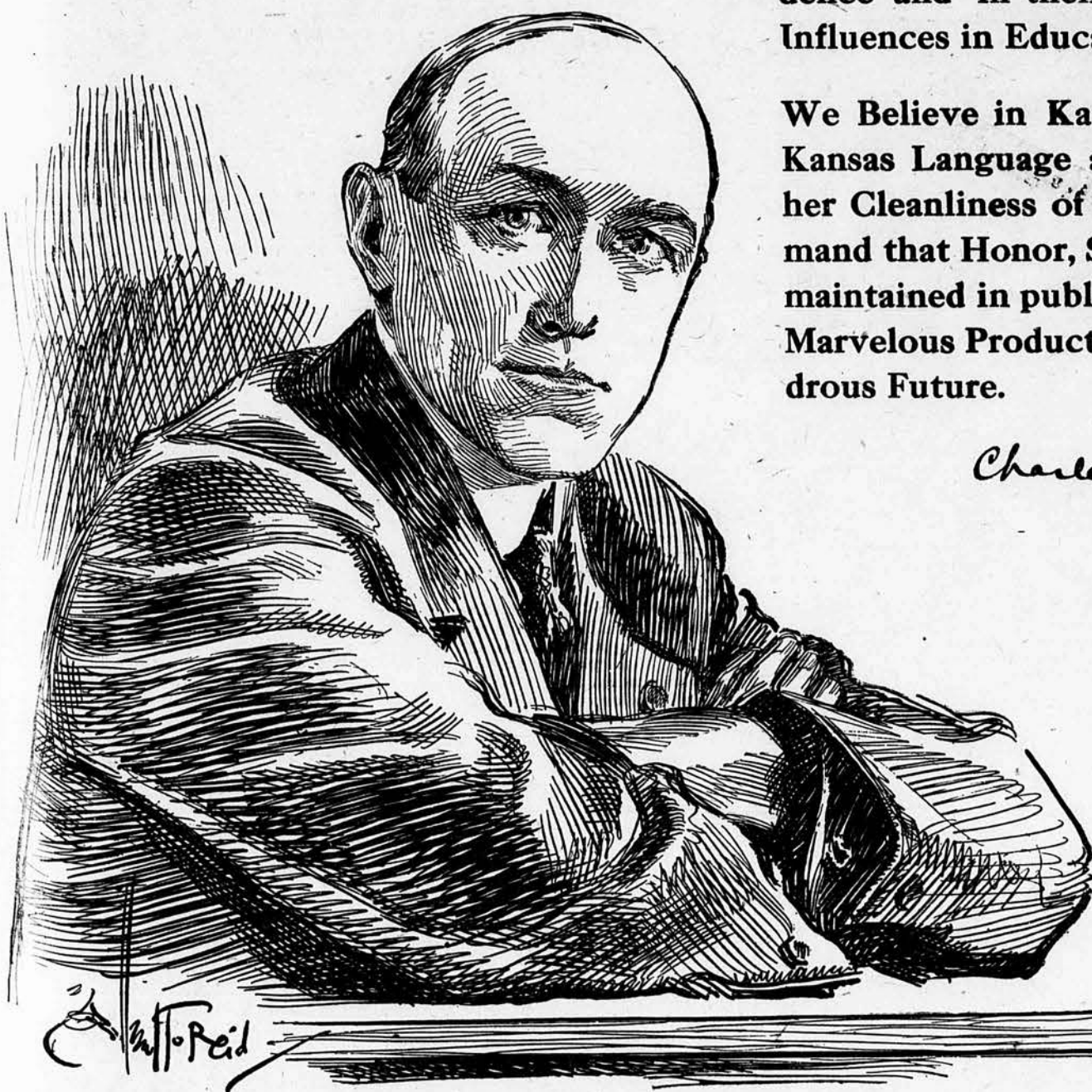
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WP

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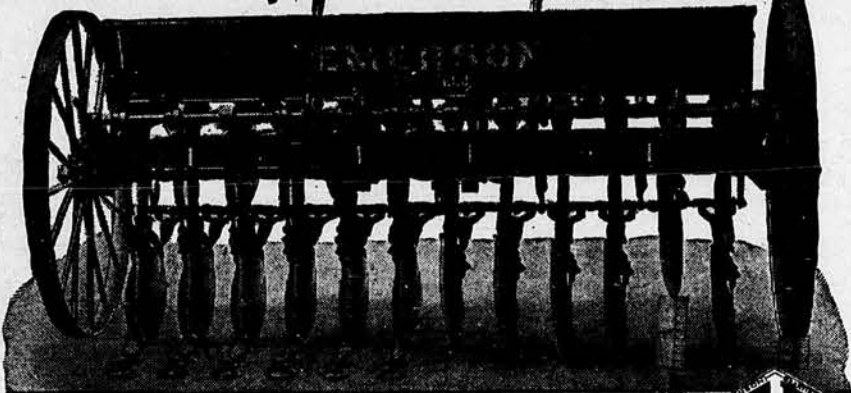
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FARM POWER

Items of Interest About Automobiles, Engines, Tractors, and Motorcycles

THERE was an immense automobile attendance at the Topeka Fair this year. On Thursday, the big day, every inch of parking space on the grounds was used and many cars were left outside. Many of these cars came long distances and a large percentage of them carried people from the farms.

The value of a car to one's business on the farm is hard to estimate because you can never tell when you will need it most.

In a busy season, with expensive help to keep busy, "time lost means dollars lost." In the fall during the fair season the car transports a complete vegetable exhibit to the local fairs. It also is a means of supplying the local market with fresh vegetables. If the feed supply becomes low and all the horses are busy, it's no disgrace to the car to skip down to the local feed mill and bring home a load of 600 pounds of feed. As a means of quick transportation a car proves its value.

To the young man or woman living on the farm who has enjoyed the opportunity of higher education, the automobile, in a measure, satisfies their craving for better social advantages. Fathers and mothers enjoy the car equally as well. Diversion makes work seem easier and by using the car it is easier to enjoy the advantages of church, rural gatherings and our city folks. These things may not be necessary, but they make for better husbandmen.

For those who live back from the markets and social points it is a business proposition rather than an expensive luxury to invest money that can be spared in a car that is efficient and economical to run. It is poor business policy, however, to mortgage the farm to buy a car.

Care for Machinery

Giving machinery proper care is one way of increasing the farm profits. Now that the harvest is over, every machine and implement which is not in use should be under cover. "The fall rains plant the seeds of rust, which are harvested by the manufacturers of farm machinery," says M. A. Kelley of the Missouri College of Agriculture.

The average life of farm machinery in this country is short, entirely too short, and for years has caused an enormous annual loss to the farmers, and large profits for the manufacturer. The best machinery will wear out in time, but the life of any implement depends primarily upon the care it has received and the facility and ability of the farmer to do repair work.

The implements used on the farm represent a large investment, and this investment increases yearly. Every year that can be added to their life represents profit. This is the age of the "iron horse," and unless we take care of our machinery the annual loss is going to increase enormously.

By studying the machine carefully you can often increase its efficiency. Oil is cheaper than repairs and new tools, and when properly used will reduce the friction and increase the life of the machine.

If the binder has not already been housed, it should be done as soon as possible. During a trip across the state of Missouri last winter, Mr. Kelley says he counted seven binders out in the field within a radius of fifty miles, and some of them were new machines. Similar observations can be made in Kansas. Under such treatment a binder will not last more than three years. Then the total yearly loss on these machines, whose cost was about \$900, would amount to \$300. This is more than the yearly profit on some farms. With proper care the same machines could have been made to last ten or fifteen years.

"A high polish on the moldboard is of far more value than that acquired in high society." When you are through with your plow this fall, cover the moldboard with any heavy grease that will keep the air away from it and put it away. This will keep the plow from rusting and can be easily removed. The same treatment to the disk harrow and cultivator shovels will protect them.

The farm machinery is only used for a short period, but must work continuously when being used. Hence it must be in good running order and properly adjusted.

When buying a new machine, keep in mind these four words: Simplicity, reliability, durability and accessibility. Then if the machine is given proper care, long life and greater profits are insured. Never forget to use plenty of oil and grease.

Care of Automobile

The general appearance of an automobile depends a great deal upon the way it is washed. A car should be given a careful washing at least once a week.

It should be gone over with soap and water, applied with a sponge. Care should be taken to use a soap with a small percentage of lye.

After the car has been carefully washed with soap, it should be rinsed with a hose and all the soap removed. Then it should be dried with a chamois and polished with a dry cloth.

If the car is then gone over with a dry cloth every day when it is taken out of the garage, the new finish may be preserved for a long time. If the dust and dirt are permitted to remain on the finish it is only a question of a short time until the surface of the car will be dotted with little spots where this dirt has ground away the finish.

Incidental to the washing of the car is another point that should be remembered. All grease should be freshly filled before washed in order to force out any dust that has accumulated and to prevent this dust from being forced in farther. By filling the grease cups the water is also kept out of the spring bolts and bushings.

Pinched Inner Tubes

If a tire is ridden soft, there is a tendency for the beads to lift up at the toes, due to internal pressure and weight of the car. This sometimes permits the tube to work under the bead, a condition which is aggravated when the tire has been continually ridden soft and the beads have been cut and broken by the rim.

Using the wrong size of tire also brings about this condition. It is poor policy to crowd a tire of wrong size on a rim simply because you are able to force it on. It is not economy—aside from the injury to the beads—and much annoyance may be expected as the result of tubes being pinched.

Not all the injury to pinched tubes is at the rim side—the rubber may be pinched from a rupture in the fabric, for example; or it may be caused from a small cut or bruise. Such injuries will not seriously affect the service of the tube, because repairs can be invariably made very satisfactorily either by the application of a patch or, when this is not practical, a new section of the tube can be inserted by a competent repair man.

Space to Shelter Tractors

Some studies have been made by Power Farming to show the comparative space required to shelter tractors and horses. According to their figures 90 square feet and 750 cubic feet of barn room are required for the accommodation of each horse. This seems a very conservative estimate, for it means a space of only 9 x 10 feet, including a stall and a portion of the passage way. The feed storage for each horse is found to average 100 cubic feet for the grain and 1,300 cubic feet for the hay for each horse.

On the other hand, a shed for the tractor needs to have a capacity of only about 1,200 cubic feet, and the storage room for the fuel will at the most be not over 400 cubic feet. In fact, it will actually be less, as a whole year's supply of fuel will not need to be stored at once.

A magneto is similar to a watch, in a way. It does not pay to tinker with one. Never take a magneto apart to clean it. The application of a little gasoline is sufficient.



KANSAS FARMER

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INTERNATIONAL WHEAT SHOW

The International Wheat Show held in connection with the Wichita Fair and Exposition, October 2 to 14, will be an event of the greatest interest to farmers of Kansas. Including, as it does, the farmers' congress October 9, the dairy congress October 10, the creamery show, model dairy, to say nothing of hundreds of other interesting and educational displays, this exposition will undoubtedly surpass anything of similar character ever staged in the Southwest.

There will be many amusement features such as vaudeville and circus acts, automobile races, etc. Ruth Law, the girl aviator, gives both day and night flights. By the use of smoke bombs she will give a demonstration of an air raid by foreign invaders.

However, the amusement features, interesting as they are, will not be the leading attractions. Noted agriculturalists from the United States and Canada will be present to talk to the visitors on the various agricultural problems. It will be the largest gathering of noted talent ever assembled in Kansas. The United States Government is co-operating with the management, sending three extensive displays.

Six huge buildings have been erected for this exposition. They will be filled from corner to corner with the most valuable educational exhibits. The largest building of all will be devoted principally to horticultural and agricultural exhibits, among which will be twelve mammoth county displays.

The women of the farm have not been forgotten. Special features for them will be the culinary display, fancy work department, china painting exhibitions, and the collection of famous artists' masterpieces, as well as hundreds of others.

All in all the festival at Wichita this season bids fair to establish an epoch in the history of expositions in the Southwest. Never before has so much money been expended on this kind of an undertaking.



DAIRY SHOW A SUCCESS

In spite of the rather light attendance the officers of the Southwestern Dairy Show feel greatly elated over the success of their first dairy cattle exhibition. Over four hundred cattle were assembled in Kansas City last week. They were from the leading dairy herds of the Middle West, all breeds being represented. It is doubtful if a stronger showing of Jersey cattle will be made at any other show held this fall.

Convention Hall is an ideal place for showing cattle. Visitors were provided with catalogs in which every animal shown was named and numbered. The herdsmen carried numbers in the ring, so that it was possible to follow every step of the judging.

This dairy cattle show at Kansas City will become a fixed institution. People interested in dairying will come to look upon it as beef cattle men do upon the American Royal. There were a good many dairy farmers present at this first show, but only a small proportion of those who could most profitably have taken a day or so off to study the progress being made in improving dairy cattle and dairy equipment. We heard one man remark that it was worth the cost of the trip just to see the lineup of nineteen head of Jersey cows that were shown in the aged class.

In a later issue we will give some of the awards and more about the show.



IS YOUR SCHOOLHOUSE SAFE?

Those who have children in school are vitally interested in the school building. The schoolhouse shelters the children almost as many hours of the day as the home. The safety of the children depends on the safety of the school buildings and the intelligence and trustworthiness of the teacher.

Take a little time off on Fire Prevention Day, Monday, October 9, and go

look at your schoolhouse. You owe it to your children.

Note whether the walls and floors are amply protected from the heat of the furnaces or stoves. Are the flues well built and sound? Has the board had them inspected?

Find out about these things, and if things are not right, go after those responsible and don't give them a moment's peace until they have made them right. There are laws to protect your children and the state fire marshal will see that they are enforced if the facts are placed in his hands.



INSPECT YOUR FLUES

A very large proportion of the fires that occur could be prevented. October 9 has been set aside by the governor of Kansas as Fire Prevention Day.

Every chimney and flue in Kansas should be carefully inspected before fires are started this fall. Carelessness now may cost lives later. Defective flues caused 265 fires in Kansas last year. No other known cause produced as many fires or resulted in a greater loss.

The proclamation urges that October 9 be used as a day for setting things in order for the winter season. Why not inspect your flues on that day? And don't stop there. See that your neighbor inspects his flues and puts them in a safe condition.

While defective flues caused an enormous amount of damage—nearly a quarter of a million dollars—still more property was destroyed by the spreading of fires already started by the flues and other original causes.

This is not a matter for town folks alone. It is of the greatest importance to those who live in the country. Farm houses and buildings have practically no protection from fires after they are once started.

Do a little missionary work. Help the state fire marshal to secure a general observance of Fire Prevention Day.



DAIRY CATTLE CONGRESS.

In the competition at the Dairy Cattle Congress to be held at Waterloo, Iowa, October 2 to 8, will be a show of champions against champions. It is estimated that if the entries come in as they are promised, when October 2 arrives one thousand of the best dairy cattle in the world will be on exhibition. The Jersey show in particular, it is believed, will surpass in both numbers and excellence any number of cattle ever brought together in competition. The Holsteins, Ayrshires, Guernseys, and Brown Swiss will however be close on the trail of the Jerseys and a strong show of each is assured. Every possible effort is being put forth to secure Duchess Skylark Ormsby, the world's champion cow of all breeds, to be placed on exhibition for this week. This great cow is a real "Duchess" and it will be a wonderful treat to all who are interested in great achievements and in good dairy cattle.

Never before, west of the Mississippi, will as large and extensive an exhibit of pure-bred dairy cattle and of dairy equipment have been brought together. Herds from all parts of the United States will here enter into competition for the very liberal premiums and beautiful loving cups which are offered.

Many other features are being planned which will add much to the educational value of the congress. Every effort is being put forth to make this the greatest exhibition of its kind ever held in America. No expense is being spared to secure the best in every possible line. It will be a week of great educational value to all who are interested in dairying, in better food supplies, and in progress in every possible line.



HORTICULTURAL SOCIETY REPORT

Many details of the practical management of orchards are given by successful growers in the report recently published by the Kansas State Horticultural

Society. This volume records the proceedings of the society for the years 1914 and 1915. Numerous articles are given by practical men and women on the growing of the small fruits and vegetables. It contains much valuable horticultural information. A copy of the volume will be mailed to those interested who apply to the Secretary State Horticultural Society, Topeka, Kansas.



FALL PLOWING GOOD PRACTICE

There are a good many reasons for doing as much fall plowing as possible, at least in the eastern third of Kansas. There is always a rush in the spring at planting time. Plowing in the fall helps to distribute the labor more evenly through the year. It favors early planting of spring crops, improves soil texture, and last but not least, destroys many injurious insects. Corn ear worms, wire worms, cut worms, white grubs, and many other insect pests live over winter in the ground. Plowing in the fall turns them up so they are killed by the freezing and thawing of the winter. Only on land that is likely to wash is it undesirable to plow in the fall.



A prize of \$135 will be won by the farmer from Kansas or Oklahoma who shows the best bushel of wheat at the International Wheat Show to be held in Wichita October 2 to 14. In addition the Wichita Board of Trade is offering a substantial prize and the millers of Wichita expect to purchase the prize-winning bushel and display it at their mills after the show is over. The man who wins this grand prize will be well paid for his trouble and it will be no small honor to have shown the prize-winning wheat at this international show. There is so much wheat of high quality in Kansas this year that this show at Wichita should be a remarkable exposition of this great crop of our state.



In spite of the fact that experiments fail to show that Miracle wheat is any better than the other well known varieties of soft wheat, it is still being exploited by seed houses in some states. An Indiana seed firm has recently been contracting for 6,000 bushels of this variety in Southeastern Kansas, paying a premium over the market to get it. We believe farmers should be ultra-conservative in the matter of taking up new and extravagantly advertised varieties. We maintain experiment station to test out new varieties of crops. The farmer cannot afford to do very much experimenting on his own farm.



An exhibit at the Hutchinson Fair that thinking people could not pass without more than a casual glance, was that made by the common schools of Reno County. Over fifty schools were represented. A careful study of the work as exhibited shows that this county is giving its boys and girls splendid preparation for citizenship. Superintendent Rowland, who has been most active in organizing the schools of the county along thoroughly modern, practical lines, is to be congratulated for gathering such an exhibit and showing it at the big fair where so many could be inspired to plan for better school facilities in their own home communities. A "Better Babies" department was an educational feature that attracted much attention also. Here the babies were scored and judged and much practical information on the care of babies was available. The Reno County High School also had an exhibit showing the practical nature of the instruction given.



Do you know your fly-free date? These dates have been carefully established and are shown on the map that has been published several times each year in KANSAS FARMER. See that all your neighbors also know the safe date to seed wheat in order to reduce Hessian fly injury.

AUBURN HIGH SCHOOL

Standing in the shadow of the capital city, yet too far away to conveniently enjoy its educational advantages, is the inland town of Auburn, Kansas. Yet, the determination to properly equip their young people for useful lives, and the earnestness of purpose of the progressive citizens of Auburn and the surrounding country, spurred them on in their efforts to establish a rural high school.

These people worked hard and untiringly, established the proposed district and secured a petition signed by the required number—two-fifths—of the legal electors of that district. This petition was presented, in proper form according to law, to the board of county commissioners and the election for the proposed district was held. It was here that their rural high school was lost by eighteen or nineteen votes.

Heavy-hearted, though still keeping alive the spirit of perseverance, these good people set about making their district eligible to the provisions of the Barnes High School Law, and willingly taxed themselves to the extent of thirteen mills on the dollar last year in order that an accredited high school might be maintained and they might thus be in line for the Barnes Law aid until such time as they accomplish the establishment of a rural high school as prescribed by state laws.

The Auburn high school is operating this year under the provisions of the Barnes Law, and is receiving county aid to the amount of \$2,000.

Those who have worked so hard to bring about this educational victory, planned a social evening at the beginning of this school year, for teachers, parents, and children. Assistant State Superintendent of Public Instruction C. E. St. John, State High School Supervisor C. C. Brown, and the associate editor of KANSAS FARMER, were invited to take part in the program. These men can remember their own high school experiences and their congratulations to the community workers and the young people who will be benefited by the high school, were heartfelt.

When called upon by the chairman, the teachers responded in a way that left no doubt in the minds of the audience as to their earnestness and willingness to co-operate in every project of benefit to the community. Each seemed anxious to take up his work and help make the courses of study of practical and lasting value to the boys and girls. Each has a vision of the significance of training both mind and hands for a life work and their influence for good is certain. One request made of the parents by the principal was that any matters of dissatisfaction or misunderstanding be taken up direct with the teachers so that they may be remedied at once and not allowed to needlessly grow to abnormal proportions.

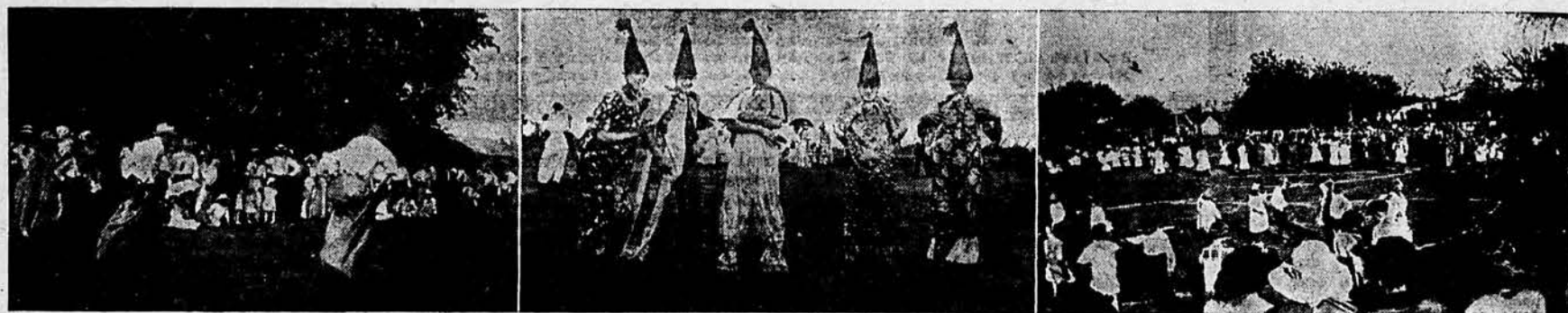
The ministers of the community also voiced their hearty approval of progressiveness in educational lines and stated they were ready to lend their support at all times.

Several of the school patrons, including the chairman of the meeting, made short, helpful talks to the boys and girls. A meeting for the next week was also announced for the discussion of a lecture course for the winter.

At the close of the program refreshments were served in one of the new basement rooms. It was here that the women and girls showed how willing they are to do their part in promoting the neighborhood social life. In fact, all had a hand in the little celebration and all seemed to feel a responsibility in carrying it through successfully. This very spirit causes us to predict greater progress in this community in the next few years than it has yet made. Its young people are to be congratulated upon their opportunities and should respond by making the very most of them. We believe they will do this.

HOME-MADE CARNIVAL

Every Community Can Plan For a Day of Fun-Making



SOME OF THE STUNTS WHICH HAVE BROUGHT FUN AND PLEASURE AT KANSAS HOME-MADE CARNIVALS

THE old-fashioned country carnival had its place in the social life of the country neighborhood. But that form of social expression has degenerated until carnival companies are organized for the express purpose of exploiting a community without any idea of giving good return for their deeds.

Good wholesome fun is desirable, but a program for mere fun will become vile and worthless if the leaders and people controlling such a program are low-minded and have not the desire for a clean form of recreation.

Some are of the opinion that the town carnival is a commercial trick of the merchants to draw the farmers in for trade, and are protesting against any form of social activity, because they think it is all the same type as that of the traveling carnival company. The farmers to a great extent finance these entertainment events in the town, for they are ordinarily planned by the merchants to draw the people in for business purposes. This is right, providing the entertaining features are of a high grade. Farmers do not resent the business principle of such a program, but are unwilling that their children acquire a taste for the degrading recreation the small town traveling carnival company affords.

Often the trading center is far distant, thus making it necessary for the country people to leave their own community for social expression. Those that cannot afford this expense, and those that do not care for this type of social program in the town center, are left in

the local neighborhood without any plan of recreation.

The present day traveling carnival company encourages the business of professional fools. Someone has said, "We become like that which we continually contemplate." If this is true, then the carnival clown, the tight rope walker, the "nigger baby booth," tend to degenerate.

People who live in the country do not wish to contaminate the minds of their children with such trash. Neither do they wish to place their stamp of approval upon the profession of the fool business. Such a social program places the emphasis in the wrong place. The leaders of such a propaganda emphasize the coarse, the gaudy, the tinsel and show. They place vile-minded vulgar people as heroes and heroines before our boys and girls.

The country folk are beginning to realize that in order to have a clean social program, one that will keep the boys and girls in the community, one that will tend to fulfill the desire for recreation, one that will assist in teaching self expression, the program must be arranged and put on by the people in the local community. One way to do this is for the country people to organize a carnival of their own. This should not be a money-making scheme. The purpose should be merely social. A means of getting together to have clean fun. The only thing necessary for organizing such a program is for someone to make the start. The school teacher, the rural minister, assisted by a few of

the fathers and mothers, can make all the arrangements. The main feature is to get all the people in the community interested and taking part. Do not bring any professional Somebody from Anywhere to entertain you, but do your stunts yourselves.

It is not necessary that you have an expensive or elaborate program, in order to have a successful day of fun-making. Decide on a meeting place. A grove, the school grounds, the church lawn, or suitable farm home will be an ideal location.

Have a grotesque parade, and do not leave it all to the children. The fathers and mothers must join in this spirit of fun. The funniest clown will seem tame compared to mother wearing a funny hat and riding the farm horse in the parade, or father on the muley cow. A group of young ladies dressed in their grandmothers' clothes and walking serenely in the parade will add interest. The boy with his dog hitched to a little wagon made into a prairie schooner will be of untold interest to the other boys in the community. Two or three of the men dressed as clowns, walking along the line and making it their business to leave a ripple of laughter behind them, will be a long-remembered feature. If there is an organized band in the neighborhood, perhaps they will consent to "black up" and march at the front of the parade as the minstrel band.

A clown or a ghost ball game will be a taker, and the old-fashioned sports are lots of fun. The boys will enjoy a potato race, a sack race, the three-legged

race, and others. All will be enthusiastic over the hundred-yard dash and the relay race. A horse race will be exciting for the boys if there is a suitable place for this event.

The little folks must not be neglected. One or two of the young ladies will be glad to lead the little tots in some circle games. During the day have a "grandmothers' story time." Have the grandmothers tell the little ones the stories they liked best when they were children.

One of the big features of this occasion will be the basket dinner. In some communities this good old custom has died out completely. This is an unfortunate situation in our rural neighborhoods. The basket dinner brings friends, neighbors, and relatives into a bond of closer union than any other form of social expression.

One thing must be strictly adhered to in arranging a program of this nature. Paid concessions of any kind are not to be tolerated. There must be no commercial features for private gain or otherwise. This is not a scheme to bring people together under false pretenses for advertising purposes. This is a program for the entire family and for all the families in the community, and is for the express purpose of having good wholesome fun.

The editor of the Department of Rural Social Life will be glad to assist any community in developing this type of country neighborhood carnival.

Farm Bureau Visits Orchards

By F. P. LANE, County Agent, Harvey County

THE object of the orchard round-up trip which was made August 30 was to give an opportunity for farm bureau members and others interested to see the results of the pruning and spraying demonstration carried on by the farm bureau and the agricultural college in co-operation with orchard owners. The trip had previously been advertised by the monthly news letter and through the local papers.

Four auto loads of farmers and their wives made the start from Newton. At the first orchard they were joined by three automobiles, and at the second stop by three other loads. George O. Greene and Fred S. Merrill from the agricultural college, C. N. Crottsburg, a representative of the Western Fruit Grower, and J. S. Nye, correspondent for a local newspaper, accompanied the party.

The first stop was at Robert Glenn's orchard in Highland Township, where an hour was spent in looking over the orchard and discussing orchard problems. Professor Greene called attention to the results secured in spraying, notably that progress had been made in controlling the apple blotch and the codling moth. Some check trees that had not been sprayed served to bring out forcibly the value of spraying. Mr. Greene was frank in saying that we had not controlled the codling moth as effectively as we should, although we had followed the spraying schedule. He pointed out that another spray should have been given. Mr. Glenn's plum orchard attracted much favorable comment. Two

varieties, the Lombard and the Omaha, were loaded with fruit ready to harvest.

The party stopped at the Riverside Park in Halstead, where a splendid picnic dinner was spread. After dinner a half hour was given to "speech making." Professor Greene explained the orchard demonstration work and pointed out the value of demonstration tours. Short talks were made by Mr. Merrill, C. N. Crottsburg, P. W. Enns and A. E. Owen, one of the orchard co-operators. Mr. Owen stated that last year he had sprayed his orchard with a hand pump assisted by one other man at a cost of about \$35 for material and that he had sold about 4,000 bushels of apples.

The next orchard visited was John Hefling's, in Halstead Township. Mr. Hefling has a splendid orchard which is loaded with fruit. He has had much trouble with apple blotch and Mr. Greene took opportunity to talk at length on this disease and its control. Mr. Hefling's trees are too close together so that he finds it impossible to get among his trees to do good spraying. He is therefore pulling out some of his Missouri Pippins and Ben Davis, varieties which are especially susceptible to the blotch, to make room for his more profitable varieties. Mr. Hefling makes a specialty of Winesaps and Grimes Golden. One of his Grimes Golden, Mr. Crottsburg

said was the finest specimen he had seen in Kansas. Mr. Hefling had prepared a splendid treat in the way of cider for his guests.

The next stop was at George Wear's orchard in Lakin Township. While Mr. Wear has sprayed before for the codling moth, this is his first year to use the Bordeaux mixture for the apple blotch. Mr. Wear is enthusiastic over the results. He pointed out trees that had not given him any salable apples for several years, which were loaded with fruit. While this is not first class fruit, it will bring him a good price.

Mr. Wear thinks that by spraying with Bordeaux for another year or two he can rid his orchard of the blotch and produce first class fruit.

The last orchard visited was A. E. Owen's in Lakin Township. Mr. Owen has as good an orchard as can be found in Kansas. It is a young orchard just in its prime and has been well taken care of the past two years. Mr. Owen estimates his crop this year at 3,000 to 3,500 bushels of apples. His leading varieties are Stayman Winesap, Delicious, Grimes Golden, Senator and Apple of Commerce. The skeletonizer is bad in Mr. Owen's orchard this fall and this served as the basis of explanations by the fruit specialists present as to how to control this insect. Apple cider and watermelons in abundance were served the crowd by Mr. and Mrs. Owen.

The party reached Newton at 7 p. m. and every member was enthusiastic in pronouncing the trip a pleasant and profitable one.



TEN AUTOMOBILE LOADS OF FARMERS AND THEIR WIVES VISITING ORCHARDS OF HARVEY COUNTY

BIG CROWDS AT HUTCHINSON

Well Balanced Exposition of Agricultural Resources at Kansas State Fair

HUTCHINSON drew a week of fine weather for its fourth exposition held under the directorship of the State Fair Board. The grounds have been well planned for the staging of a big fair. There is plenty of room and the buildings, while not of permanent construction, serve their purposes well. The building in which poultry is shown is exceptionally well adapted to its purpose. It is hexagonal in form and has plenty of windows so that the exhibits are well lighted. The horse barns were not filled to their capacities this year. The farmer-breeders of horses did not exhibit in as large numbers as they should.

The exhibits of crops were well displayed in Agricultural Hall. The grain sorghums and the forage plants specially adapted to conditions of light rainfall were strong features. This has been a dry year over most of Kansas and it looked good to see well-filled heads of kafir, milo and feterita on exhibition. Of course there were also good exhibits of corn, but they were not up to the standard of last year. The wheat exhibits were large in number and of high quality. Hutchinson is located in the middle of the wheat belt of Kansas and this strong showing of wheat is an indication of the place this crop holds in the farming of this section of the state. The largest individual exhibitors in this department were the Swihart boys of Jewell County and J. M. and Paul Gilman of Leavenworth County. These exhibitors were from sections of the state from whence Hutchinson does not ordinarily draw heavily either in attendance or exhibits. In most of the classified collections of agricultural products these exhibitors were the leading contestants for the prizes. There were a great many small exhibits made by individuals from the southern part of the state.

In the general collection of products exhibited by counties, Seward, Pawnee, Leavenworth and Jewell counties were the contestants. R. P. Schnacke, agricultural agent of Pawnee County, was in charge of the exhibit from that county. Mr. Schnacke is receiving fine co-operation from the farmers of that section and the exhibit was a good demonstration of the crops of his county. The Leavenworth County exhibit was the same one that won first place in Topeka the week before. Jewell County also set up the same exhibit shown in Topeka. An exhibit that attracted the attention of all who entered the hall was that made by the Scott County Land



POLAND CHINA BOAR AND THREE SOWS SHOWN BY THE DEMING RANCH AT KANSAS STATE FAIR, HUTCHINSON

Company. It was not entered in competition. Its purpose was to boost for Scott County, and those in charge were full of information relative to the production of the various crops shown. The point that was most suggestive of the changed attitude of the agents for land in the West was the kind of farming advice being given. Grow crops adapted to conditions, keep live stock, and practice correct tillage methods, seem to be the gist of this information. This sort of boosting for Western Kansas will work for permanent progress. Those who will appropriate such advice and put it to practical use can expect to be as prosperous in the West as in any farming section.

The apriary exhibit is always strong at Hutchinson, but this year it was the outstanding feature of Agricultural Hall. Prof. G. A. Dean, who judged the exhibits, remarked that he did not believe its equal has been seen at any of the big fairs, with the possible exception of the Minnesota State Fair. The best general display was made by J. A. Ninninger of Nickerson. His exhibit covered thirty feet of wall space ten or twelve feet high. William Measer, owner of Rose Lawn Apiary; F. E. Clark, Nickerson; Cloverdale Apiary, Mt. Hope, owned by C. D. Mize of Topeka, and J. F. Lucis of Topeka, all had large exhibits. This is a branch of farm pro-

duction that might well be given a more prominent place. The Hutchinson Fair management is doing well in bringing it to the front. During the fair a Southwest Kansas Beekeepers' Association was formed as a local or branch of the state association.

In the showing of draft horses, Francine, the yearling Percheron mare owned by A. P. Loomis of Diamond Springs, was made champion. The champion Percheron stallion was Matcheur, the aged horse shown by Woods Bros. & Company. In the Belgians, a change was made from the Topeka award. The David Cooper & Sons entry, Meronde Merchon, took first in the aged class and was made champion. He had recovered from the lameness which he showed at Topeka, the result of an injury in shipping, and Dr. C. W. McCampbell, the judge, considered him entitled to the place over the Woods Bros. & Company stallion. Mr. Cooper spent considerable time in hunting for a stallion suitable for heading his fine stud of pure-bred mares and finally selected this eleven-year-old horse, said to be one of the best Belgians ever imported. The three-year-old French Draft stallion, Cadillac, shown by Woods Bros. & Company of Lincoln, Neb., is a horse that cannot fail to attract the attention of good judges of draft horse type.

The showing of beef cattle at Hutchinson was a repetition of that at Topeka. There were eight exhibitors of Shorthorns. The bull grand championship was taken by Tomson Bros. of Kansas, who won the same honor at Lincoln and at Topeka. Diamond Emblem, owned by T. J. Dawe of Troy, Kan., was senior champion bull. The grand champion female was the junior heifer calf shown by Rapp Bros. of Nebraska. There was some criticism of the placing of a grand championship on a calf when there were such good mature cows shown. This same heifer was made grand champion at Topeka. Seven herds of Herefords were shown, the number of individuals being greater than in the Shorthorns. It was the strongest show of the breed ever made at a Kansas State Fair. R. H. Hazlett's bull, Bocaldo 6th, added another grand championship ribbon to his collection. Four breeders showed Polled Durhams, three from Kansas and one from Nebraska. Kansas won both grand championships. A strong showing was made also of Galloway and Angus cattle. Owing to the Southwestern Dairy Show being held in Kansas City the same week, only a few dairy cattle were on exhibition.

All the leading breeds of hogs were represented, with well fitted entries of good quality. Most of the hogs shown were from well known Kansas herds, although a few from other states were entered. Kansas sheep men did not respond to the plan of the management to make the Hutchinson sheep show strictly a Kansas affair. In order to have a large showing of sheep it will probably be necessary to have open competition and encourage Kansas breeders by offering liberal prizes for Kansas bred and owned sheep. Growing sheep is not generally practiced on our Kansas farms, and beginners need the wisdom and experience gained from mingling with those who have grown sheep for a good many years. The live stock awards appear in full on another page of this issue.

A criticism voiced by people who visited the fairs at Hutchinson and Topeka was that the carnival features were entirely too prominent. At both the big Kansas fairs the shows and carnival attractions occupied the most central locations on the grounds. Good, wholesome fun is essential, but some of those who criticised feel that the educational value of a big fair is overshadowed by permitting these attractions to occupy such central locations.

Mills will Supply Seed Wheat

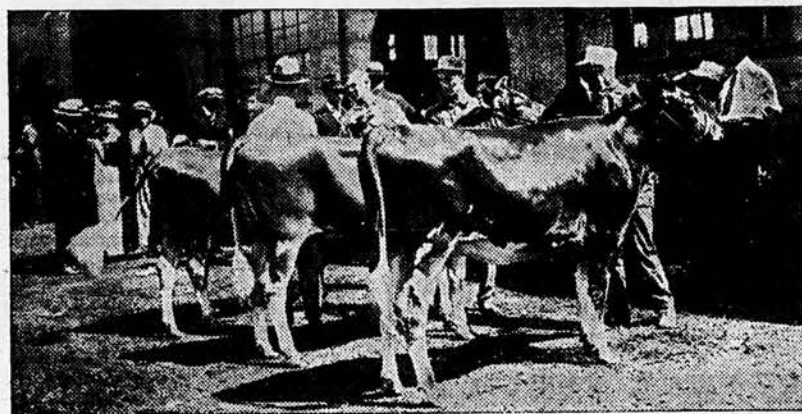
IN a number of localities in Kansas, millers are ready this fall to distribute high quality seed wheat to farmers in their respective communities. Good seed is of the greatest importance in growing wheat as in the production of other crops. Increases in yield of from two to five bushels an acre have been made simply by carefully cleaning wheat used for seed. It has been estimated that a fifth of the five million bushels of wheat sown in Kansas consists of cracked and shrunken kernels.

This offer to distribute seed of good quality is a result of the efforts of the industrial department of the Santa Fe Railroad. H. M. Bainer, agricultural and industrial agent, has visited all the wheat belt territory of Kansas covered by the Santa Fe and has secured the co-operation of the mills in this seed distribution wherever the locally grown wheat is not of high quality.

In spite of the fact that Kansas wheat as a whole is exceptionally high in quality this year, there are counties in the wheat belt where the mills are not grinding a bushel of locally grown wheat. In order to keep up the standard of their flour they are shipping in wheat from other localities. This shipped in wheat in many instances is better for seed than that which was grown at home.

It is in the districts where the Hessian fly damage has been most serious that better seed is most needed. Mr. Bainer has gone over these localities carefully and is urging upon all the importance of getting the best seed possible for the fall seeding. No special effort is required to get seed shipped in,

for the mills already have it for their own use in grinding. It is a business proposition for the mills to save out some of the very best they have and distribute it, and it certainly is good business for the wheat grower to seize this opportunity to get good seed on such liberal terms.



SENIOR YEARLING GUERNSEY HEIFERS AT SOUTHWESTERN DAIRY SHOW, KANSAS CITY, MISSOURI

The plan calls for a distribution of seed on an exchange basis, bushel for bushel, the farmers to pay for the cleaning at the mills, a charge ranging from five to ten cents a bushel. In buying their wheat for milling purposes, the millers obtain a large part of their supply from districts where the quality is first class. The best of this wheat is cleaned for seed. The millers, therefore, are not required to pay "seed prices" for the wheat, and are able to make the exchange on a reasonable basis.

"It has long been a well known fact," says Mr. Bainer, "that an exchange of seed wheat, if grown only a few miles away, pays big returns. To exchange sandy land seed, or hard land seed, for sandy land seed, always insures an improved quality as well as an increased quantity."

Arrangement has already been made for distribution of seed wheat by the millers at Kingman, Wellington, Arkansas City, Winfield, Newton, Burtron, Hutchinson, Ellinwood, Great Bend, Lyons, Stafford and St. John.

Farmers in the territory described desiring seed wheat should let their local millers know at once the quantity wanted. With this opportunity to secure good seed wheat, there is little excuse for sowing that which is shrunken or poor in quality.

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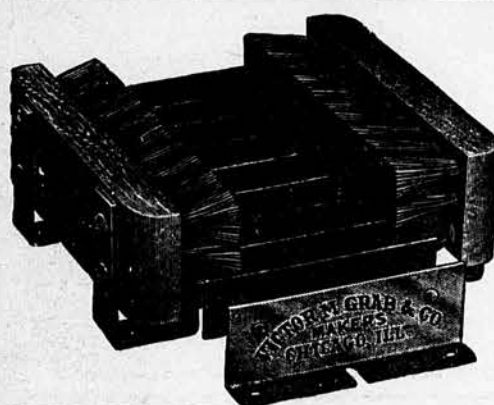
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Kansas Farmer Dairy Club

Three Day Butter Fat Test at Topeka Fair

ONE department at the Topeka fair of special interest to Dairy Club members, was the Three-Day Butter Fat Test. Both grade cows and pure-breeds were eligible to this contest and they were milked in the presence of the dairy superintendent, Tuesday, Wednesday and Thursday. Each milking was weighed and tested for butter fat.

Although the prizes in this division included \$150 in money and a silver cup offered by KANSAS FARMER, there were only thirteen entries, and these were all pure-breeds. There was no competition except in the Holstein class and only two herds of this breed were represented. It seemed too bad that the winnings were so easily made, when we have so many cows that would have furnished keen competition. There should have been a number of good grade cows entered, and more pure-breeds.

In studying the records of these cows on this page, it should be remembered that at home, under farm conditions, these cows probably do 25 per cent better than they did under the excitement and amid the strange surroundings at the fair grounds.

Cow No. 1—Lady Abbekerk Golden 2d—owned by the U. S. Indian School at Genoa, Nebraska, won the silver cup offered by KANSAS FARMER as a special prize for the best showing made by the cow or heifer of any age or breeding.

We are wondering how many of our Dairy Club members visited the fair at

Topeka or Hutchinson, and what interested them most. Write us about it, won't you?

Butter Fat Test at Local Fair

We would suggest to our Dairy Club members that if there is to be a local fair in their community, or a county fair, that they try to persuade those in charge to have a butter fat test as one of the features. This could be easily managed, as the cows would have to be brought only short distances and the expense of sheltering them would be very little. The competition would be interesting and if a prize of five or ten dollars could be secured it would be worth the effort necessary on the part of the exhibitors.

Thirty Pounds a Day

My cow is doing fine and is giving about thirty pounds of milk a day. I am feeding her one gallon of bran and one gallon of oats a day, mixed. This makes a good feed.

I read the boy's letter who sent for a pair of scales. We have broken the handle off ours so we have to use an old pair. Please send me a pair of scales and as soon as I get them I will pay you.—MERTON D. SMITH, Douglas County.

It takes feed to make milk. Be sure your cow is getting all she can profitably use. Many good cows fail because not given a chance.



STANDING OF COWS IN BUTTER FAT TEST

Cows Three Years Old or Over—	Pounds Milk	Average Test	Pounds Btr. Fat
1. Lady Abbekerk Golden 2d, Holstein..... U. S. Indian School, Genoa, Nebraska	111.6	4.75	5.29
2. Buffalo Caroline, Holstein..... Coleman & Sons, Denison, Kansas	165.8	3.0	4.90
3. Princess Velve's Pet, Brown Swiss..... Dahlem & Schmidt, El Dorado, Kansas	103.8	3.5	3.63
4. Frances Rose of Fairview, Guernsey..... Wilcox & Stubbs, Des Moines, Iowa	80.3	4.4	3.53
5. Goldstream's Pet, Jersey..... H. C. Young, Lincoln, Nebraska	79.8	4.1	3.27
6. Tucker's Lass 2d, Jersey..... Fred Laptad, Lawrence, Kansas	56.8	5.3	3.0
7. Aca, Ayrshire..... F. S. Schoenleber, Manhattan, Kansas	67.9	4.3	2.93
8. Tippiie, Red Polled..... Geo. Haussler & Sons, Holbrook, Nebraska	37.2	2.2	1.34
Cows Under Three Years—			
9. Dora Fontaine, Jersey..... Fred Laptad, Lawrence, Kansas	78.8	3.9	3.05
10. Charming Lady, Red Polled..... Geo. Haussler & Sons, Holbrook, Nebraska	62.4	4.5	2.75
11. Madeline, Brown Swiss..... Dahlem & Schmidt, El Dorado, Kansas	66.7	4.0	2.65
12. Grace DeKol Klondike 3d, Holstein..... U. S. Indian School, Genoa, Nebraska	66.0	3.4	2.24
13. Bob Rilma's Daisy Bell, Guernsey..... Wilcox & Stubbs, Des Moines, Iowa	33.4	5.3	1.76



Rebuke to Enemies of Dairying

ENEMIES of the dairy interests of the country have been using an old report of the Bureau of Animal Industry in a manner designed to bring dairy products into disrepute among consumers. This culminated in a resolution which was introduced in congress during the present session. This resolution is destructive in its character and is really an attack upon a great industry that is the basis of a most progressive type of agriculture.

A stinging rebuke has been given to these enemies of this great industry by Assistant Secretary of Agriculture Carl Vrooman, in an open letter which reads as follows:

"Your letter of June 14 with reference to House Resolution 137, popularly known as the Linthicum Resolution, is at hand. I agree with you that it is decidedly unfortunate that the report referred to in this resolution is being made use of without more adequate explanations.

"To begin with, this report was based upon an investigation made by the Bureau of Animal Industry over four years ago; the investigation having been begun on April 10 and having ended June 30, 1912, before either Secretary Houston or I became connected with the Department of Agriculture. Furthermore, the report itself was based on an investigation of but 144 creameries and cream-buying stations out of a total of 6,000 creameries and some 40,000 cream-buying stations.

"The Federal Department of Agriculture is completely out of sympathy with current misunderstandings and misinterpretations of the 1912 report. That report does not mean to say or to infer that the dairy industry is on a lower level or has lower standards of purity and cleanliness than the other industries of the country. If the Department were to make out a score card for the different foods and drinks that are being produced and consumed throughout this country today, and especially for the vegetables, fruits and other foods exposed for sale at the average market and grocery store, it would find that in a majority of cases similar conditions exist to those disclosed in the dairy industry. In other words, it would be shown: First, that ideal conditions do not exist; secondly, that existing conditions can be greatly improved; and thirdly, that the improvements recommended are commercially feasible. These are the three points that the Department of Agriculture attempted to bring out in its 1912 creamery report and any attempt to read other meanings into that report, any attempt to discredit the dairy industry, is an attempt that the Federal Department of Agriculture does not sympathize with and will have no part in.

"Moreover, a lot of work has been done by the Federal Department of Agriculture and the state and municipal boards of health and by the various dairy organizations during the past four years, to improve dairy conditions. Plans are now being worked out which we are satisfied will steadily improve dairy conditions by raising the standard of cleanliness and purity in dairy products from one end of the country to the other. If worked out intelligently there is no reason why these improvements cannot be rapidly introduced without cutting down the legitimate profits of dairymen and creamerymen. It is true that some additional capital will be called for, but it is also true that the plans of the Department involve a provision for a proper return to the dairy interests on all additional capital required.

"It seems to me a self-evident fact that better results can be attained through the active co-operation of dairymen and creamerymen, Federal Department officials, and state and municipal authorities, in a winning campaign in favor of recognized essentials of cleanliness and purity than can be secured by frittering away our energies working at cross purposes and bickering over non-essentials and unnecessary misunder-

standings of each other's motives and purposes."

This letter virtually repudiates the reflection cast on dairying through the misinterpretation of the report given out by subordinate officials of the Department several years ago. The National Dairy Union has expressed itself as heartily in favor of the co-operative program outlined by the assistant secretary in this open letter. Dairymen should welcome the restoration of mutual confidence between the dairy interests of the country and the Federal Department of Agriculture.

Composition of Cow's Milk

A very valuable and instructive bulletin has recently been issued by the Federal Department of Agriculture upon "Chemical Testing of Milk and Cream." The following extract shows the character of the information it contains:

"From a chemical standpoint milk is a very complex substance. The component parts may, however, be classified into a few well-marked groups, as follows: Water, fat, nitrogenous constituents, sugar, and ash. The components other than water are collectively known as total solids or milk solids, and the solids other than fat as solids not fat. Milk serum, or more properly milk plasma, is the term used to denote the milk minus the fat; hence the term serum solids and plasma solids are synonymous with solids not fat.

"Water—the water in milk varies from 82 to 90 per cent. The usual variation in mixed-herd milk is much less and is probably covered by 84 to 88 per cent.

"Fat—The fat in milk—milk fat or butter fat—is not in solution, but exists as an emulsion of microscopic globules so small that a single drop of average milk contains more than one hundred millions of them. These globules, even in milk from one cow, are not all of the same size. Some may be two or three times the size of others, the average size depending upon several factors, the principle one of which is the breed of the animal. Chemically the fat is not a single compound, but a mixture of several compounds known as glycerids. Some of these glycerids are common to all fats, while others are peculiar to butter. This fact is made use of in detecting oleomargarine or artificial butter.

"Nitrogenous Constituents—These are principally casein and albumin, with traces of less important nitrogenous compounds. The coagulum produced by rennet, dilute acids, or certain other chemicals, when added to milk, is chiefly casein. Albumin is the flocculent precipitate produced by heating whey or skimmed milk from which the casein has been removed. In constitution and behavior it closely resembles white of egg. Casein is not really in solution in the milk, but exists in an extremely fine colloidal condition in combination with some of the ash constituents. With an appropriate filter of clay it is possible to separate it from the water. Albumin is in true solution in the water of the milk. The amount of casein in average cows' milk varies from 2 to 4 per cent and the albumin from 0.5 to 0.8 per cent.

"Sugar—Milk sugar or lactose, belongs to a group known as carbohydrates, and is a white substance less sweet in taste than cane sugar. Milk sugar is broken up into lactic acid by the action of bacteria, this bringing about the souring of milk. Milk sugar is in solution in the water of the milk and is present to the extent of from 3.5 to 6 per cent.

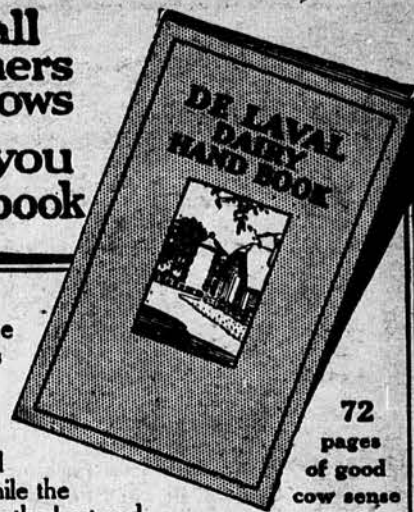
"Ash—The ash, or the mineral part of milk, exists to the amount of about 0.75 per cent and consists largely of the chlorides and phosphates of sodium, potassium, magnesium, and calcium.

"The table below gives the average of more than 5,000 analyses of milk at the New York State Agricultural Experiment Station, Geneva:

Water	87.1 per cent
Total solids	12.0 per cent
Fat	3.9 per cent
Casein	2.5 per cent
Albumin	.7 per cent
Sugar	5.1 per cent
Ash	.7 per cent

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"How a Dairyman Made Good"—a real story of a real farmer, who starting with almost nothing, built up a fine dairy herd and made a big success.

"Year Around Feeding of Dairy Cows"—by an authority whose advice is well worth heeding. The importance of proper feeding deserves more attention from every cow owner.

"How to Judge a Dairy Cow."—shows by illustrations what points to look for in a dairy producer—explains the essential qualifications of a good dairy cow.

"Building Up a Dairy Herd"—a practical breeder gives some sound advice on this important subject.

"The Farm that Won't Wear Out"—shows that the farm where cows are kept, and the fertility returned to the soil, improves instead of deteriorates.

"The Care of Cream on the Farm"—quality is as important as quantity. It costs little and brings big returns.

"Silos and Silage"—one of the best chapters in the book. Full of silage facts that every farmer ought to know.

Then there are splendid articles on "Alfalfa," "Ventilation of Dairy Barns," "Breeds of Dairy Cattle," "Improving the Herd with a Good Bull," "Care of Freshening Cows," "How to Test Cows," etc. Numerous dairy rations, suitable for various sections of the country, are given, and various milk and dairy tables as well as tables of weights and measures, silo capacities, etc. that every farmer has occasion, at some time or other, to refer to.

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also any Bunch or Swelling. No blister, no hair gone, and horse kept at work. Concentrated—only a few drops required at an application. \$2 per bottle delivered.

Book 3 K free.
ABSORBINE, JR., antiseptic liniment for man-kind, reduces Cysts, Wens, Painful, Knotted Varicose Veins, Ulcers. \$1 and \$2 a bottle at dealers or delivered. Book "Evidence" free.

W.F. YOUNG, P. D. F., 211 Temple St., Springfield, Mass.



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EVERY farmer needs one. Many uses—haul products to market, make quick trips for supplies, saves time and work of team on light hauls. Low in cost—high quality construction; hitch to any auto. Write for booklet.

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Good Farm Machinery—Est. 1852
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Profit From Sheep

WE HAVE from time to time called attention to the opportunities for profit in handling a few sheep on the farm. A few farmers are seizing this opportunity. We were much interested in the story told us last week by one of our old friends from Brown County who visited the Kansas Farmer office during the week of the fair. This man bought a single-deck car of western ewes last fall, paying \$4.90 a hundred for them. They were not very good ewes, many of them being old. He bred them to good Hampshire rams and they dropped him an average of one lamb to each ewe. On August 1 he sold on the Kansas City market 180 lambs at 11 cents a pound, the top price of the season. They had run on bluegrass pasture and had been fed some grain in "creeps."

An interesting point in connection with this shipment was the fact that three farmers joined, none of them having lambs enough for a full car. This is about the only way to handle the marketing of a small bunch of lambs, but it is a perfectly feasible plan and can be put into practice in any neighborhood where three or four have small flocks of sheep.

Our visitor told us of one of his neighbors who produced and sold the finest lambs seen on the market this season. This man bought ewes of somewhat better quality. They sheared an average of nine pounds of wool to the ewe and it sold at home for 29 cents a pound. They began lambing in March and on July 1 a hundred head averaging seventy-two pounds in weight were sold for \$10.65 a hundred and were pronounced by Kansas City buyers to be the best lambs that had come in. These lambs had been fed some bran and oats in creeps, and for the last month, shelled corn. The bunch of 125 head were given a bushel of corn morning and night. There are some fine points in feeding grain to lambs. This man made a cutting chute and his little girls cut out the lambs from the ewes at feeding time. It took about fifteen minutes to do this. The grain was fed in troughs having lids and was put in before the lambs were turned into the yard. The lids were not raised until the lambs were all in. If this is not done, some of the lambs will get more than they should and be "off feed" for a few days. The care used in handling these lambs was largely responsible for the results secured. Nothing difficult was done, however; it was simply a matter of paying attention to little details.

Abortion Investigation

Contagious abortion is probably causing a greater loss to the live stock interests of this country than any other disease. It is a disease that has baffled the skill of our veterinarians. Many a man has given up in despair, and sold off all his cattle as the only means of getting rid of this trouble.

The agricultural appropriation bill which has been passed by Congress provides among other things for a sum of \$50,000 for special research work in contagious abortion. No doubt the most competent men in bacteriological lines that can be found in America will be secured to conduct this investigation. Their problem is a difficult one, but we hope and have every reason to believe that some means of practical control will be found before they have finished their labors. Live stock men cannot fail to commend the use of government money to help them conquer this most serious disease.

Royal Entries Large

American Royal entries in every class are ahead of last year. The total entries of individual named animals is 1,076. Then there are the entries of young bulls and heifers and the Shorthorn futurity classes.

The Herefords this year have a total of 413 in the breeding classes, 195 bulls and 218 cows, a gain of sixty over last year's record show, the largest Hereford show ever held up to that time. The

Shorthorns this year have 389 animals in the breeding classes (exclusive of the futurity entries), against 347 last year. The Galloways have thirty-three breeding entries, about the same as a year ago. The Aberdeen-Angus shows a marked increase in numbers, with 174 breeding entries; last year the breeding entries were less than 160.

The entries in the fat stock classes this year are also unusually large, a total of sixty named animals being listed. Of these, the Herefords have twenty-one, including sixteen pure-breds and five grades. The Shorthorns have twenty, the Galloways four and the Angus fifteen.

The students' judging contest will be held as usual, with its opportunity for the young men to get practice work on the best specimens of the breeds and classes.

Horses vs. Tractors in War

Wayne Dinsmore, secretary of the Percheron Society of America, takes exception to the boastfulness of automobile and tractor men who claim that the horse and the mule are being eliminated from modern warfare. Mr. Dinsmore makes the statement that the horse breeding industry has brought more money into the United States than has the sale of automobiles during the twenty-three months ending June 1. The proof of this statement is the detailed data on these exports which was furnished to Mr. Dinsmore by the Bureau of Foreign Commerce.

From September 1, 1914, to June 1, 1916, the United States exported 30,411 commercial automobiles, valued at \$81,295,986; 69,803 passenger automobiles, valued at \$57,623,261; and 22,502 motorcycles, valued at \$4,202,877—a grand total of 122,716 motor driven vehicles, all kinds, with a total value of \$143,122,124.

Against these exports, which have caused such extravagant claims to be made regarding the elimination of horses and mules, the cold figures show that during the same period—September 1, 1914, to June 1, 1916—611,790 horses, valued at \$134,943,456, and 167,387 mules, valued at \$34,198,955, were exported—a total, in value, of \$169,142,411.

This overshadows, very handily, the total of exports of motor driven vehicles. To the exports of horses and mules, however, must be added the exports of wagons, valued at \$2,461,611, and of harness and saddles valued at \$25,739,015.

The grand total for horses, mules, wagons, harness and saddles exported during the twenty-three months ending June 1, 1916, comes to \$197,343,037—almost two hundred million dollars. This exceeds the exports of motor vehicles by more than fifty-four million dollars, and is conclusive evidence that horses and mules are far from being back numbers in war.

Buying Bulls

Hundreds of men will be in the market for bulls this year. The man who buys a full grown bull misses the experience of feeding a bull for growth. He also must pay the breeder a high price for the care of the bull from weaning time until it is sold.

A friend of mine who has bought several bulls at different times tells me that he has been able to buy a bull at weaning time for so much less than the same bull sells for at time it is ready for service that he feels that he is well paid for the trouble of caring for the young bull by the discount given by breeders if the bull can be sold at weaning time.

—J. E. PAYNE, Oklahoma.

For several years the actual supply of meat animals in the United States, and in the world, has been decreasing, until recently a change has been recorded, and the supply appears to be slowly increasing again, though not yet in proportion to the increase in population. In the United States, hogs and cattle have increased in numbers quite perceptibly, but sheep have decreased.

Are Your Hogs Lousy?

Act Now

There's a big fat profit in keeping hogs lice-free. Lice stop economic growth. The hog that has to waste its energy against the scratching post can't fatten cheaply. Disinfect your hog pens with Dr. Hess Dip and Disinfectant; dip your hogs with it in mild weather or simply add it to the hog wallow. It is a sure lice killer on all farm stock and prevents disease.

Dr. Hess Dip and Disinfectant

One gallon makes 70 to 100 gallons solution. Is excellent for sheep dipping; it is a guaranteed remedy for sheep scab and ticks; it destroys germs and foul odors—in short, its use as a disinfectant around your farm will keep away disease. Invaluable for disinfecting sinks, drains, troughs, garbage cans, outhouses, etc. Good alike for home and stable. Sold in pint bottles, quart, half-gallon, gallon cans and barrels.

1 gallon can \$1.00
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Except in far West and Canada

Dr. Hess Fly Chaser
Does not gum, color or blister. Makes stock comfortable.

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It will mix 2 1/2 cu. ft. at a batch. Has self-tilting dump, runs by hand or 1 h.p. engine. Will keep from 2 to 6 men busy. Does finest work, equal to any \$200 machine—and costs you almost nothing in comparison. Just drop me your name on a post-card today. Full instructions and blue print plans will come at once. FREE.

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Beat the EGG TRUST at its own game. Store your EGGS for the winter, NOW, with

LIQUID GLASS

The best egg preserver. Approved by the Department of Agriculture.

ONE GALLON CANS \$1.25

With complete directions. One gallon will preserve 1,800 eggs.

CHRISTY CHEMICAL COMPANY
BONNER SPRINGS - KANSAS



Laying Hens Require Water

THE importance of keeping laying hens supplied with plenty of fresh water has been studied recently at the Missouri Poultry Experiment Station. A number of pens which had been furnished water at all times were given water only once each day, all they would drink, then the water removed. The results were that the egg yield was reduced 50 per cent. This reduction was the same in the different varieties.

A pen of sixty White Leghorns composed of old and young, consumed two and one-half gallons of water daily during the warm weather. This would indicate that the average farm flock of 100 to 120 birds should be furnished at least five gallons of water per day. Laying hens frequently consume eight ounces of water daily. This means one gallon daily to sixteen hens.

From the hen's viewpoint, water is worth just as much as feed, for she can't make an egg with either one alone. Therefore, the man who furnishes high priced feed but neglects the water supply is making a great mistake and will have to be content with a limited egg yield.

At present prices and weather conditions, hens consume about six gallons of water to each dollar's worth of feed. Therefore, if the feed is worth a dollar to the hen, the water is also worth a dollar.

The value of water to the hen is shown by the many uses to which it is placed.

First, water is used to soften the food ready for digestion.

Second, water in the form of blood acts as a common carrier and carries the nourishing parts of the food from the digestive organs to the tissues where needed and carries worn-out or exhausted tissues to the different organs to be eliminated from the body.

Third, water is important as a factor in egg production, as it enters into the composition of the egg as well as the hen's body, the egg being about 75 per cent water.

Fourth, water is important in equalizing the temperature of the hen's body, which is done in two ways. First, cold water lowers the body temperature, while warm water holds the temperature high. For this reason, we give hens cold water in summer and warm water in winter. The second method of cooling is by evaporation, which is a cooling process. The temperature of the human system is reduced by the evaporation of sweat from the surface of the body, but with the fowl, the evaporation takes place principally through the breathing organs, which accounts for the hen holding her mouth open and breathing rapidly on a hot day.

Observations of experiments conducted at this station lead us to believe that the first three uses of water are very much the same at all times and that the wide range in the daily consumption of water is influenced by conditions of the weather.

The two lessons which stand out prominently as a result of experiments are:

First, water is just as important as feed.

Second, once or twice each day is not often enough to supply the water.

Filthy water will bring on disease faster than you can cure it with stuff out of a bottle.

The henhouse should be so constructed that it can easily be kept clean and that there will be no cracks or crevices in the roosts or elsewhere.

The hens require good care to get through the strain of molting with unimpaired health, so that eggs will be plentiful later on.

In the international egg-laying contest being conducted at Mountain Grove, Missouri, the honors for pen records for the month of August were won principally by White Leghorns, the Oregons tying for fourth place. All hens in the five highest places averaged more than twenty eggs each in August.

Tile Poultry House

We recently received from E. L. Barnhart of Allen County, a picture of a tile poultry house he has found most satisfactory. The cut appears on this page. It is thirty-two feet long and fourteen feet wide. The front is eight feet high and the back six feet. The north, east and west walls have no opening. The front wall is 30 inches high and the remaining space is filled with muslin curtain tacked on frames hinged at the top. These are kept closed in cold windy weather. Poultry netting is tacked over this open front. The floor of this poultry house is of cement and the roof is covered with felt roofing.

Green Whites in Eggs

An excess of green feed has been generally considered to be responsible for the greenish color sometimes observed in the whites of eggs. Experiments have been carried on by the bacteriology and poultry departments of the Kansas Experiment Station which seem to disprove this theory.

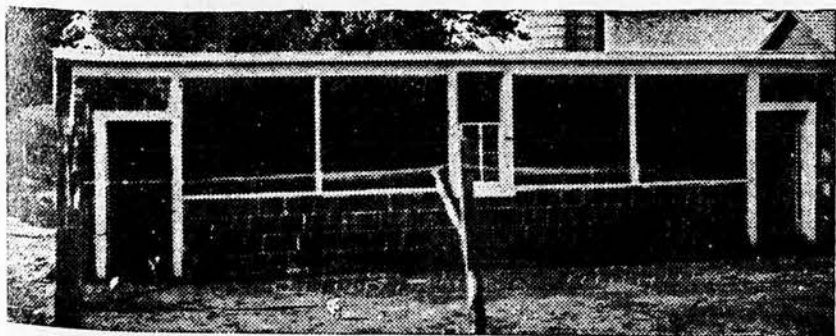
Several hens were selected for these experiments and were fed solely upon green alfalfa. The eggs from the hens were carefully examined and no green whites were found.

When green whites are candled they appear dark and when broken into a white porcelain dish the whites appear green in color.

The United States Department of Agriculture has recently isolated a pigment-forming organism which is held responsible for green whites.

Repair Poultry Quarters

A little time spent in putting the poultry houses in proper condition for the winter will result in making the poultry far more profitable. Failure and neglect in repairing poultry houses and keeping them tight and dry cause serious waste not easy to estimate. The hens catch cold in winter, mope around and produce nothing just because some repairs are neglected that would make every difference in the comfort of the flock. Perhaps never again will a bird that had every promise of being exceptional, gain her best condition just because of some neglect that could be easily rectified with a few minutes' time when the trouble was noticed.



OPEN FRONT POULTRY HOUSE ON FARM OF E. L. BARNHART, ALLEN COUNTY

WINCHESTER

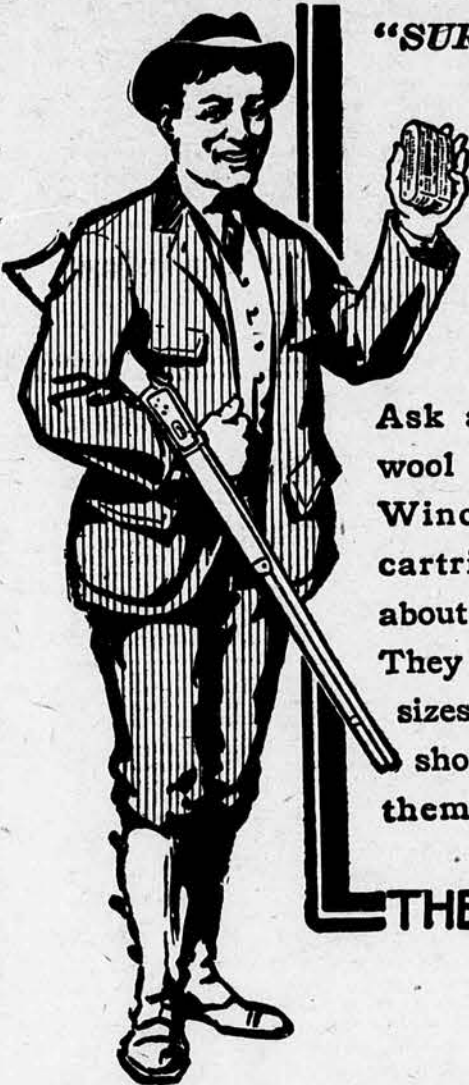
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"SURE I USE 'EM!"

I've been usin' 'em for a number of years and expect to continue to, as they always do the business."

Ask any dyed-in-the-wool sportsman about Winchester rifles and cartridges and that's about what he'll tell you. They are made in various sizes for all kinds of shooting and you'll get them if you ask for

THE **W** BRAND



There Is NO CURE For Hog Cholera

BUT YOU CAN PREVENT IT



If you have had the experience of burning cholera hogs, you undoubtedly know the labor and loss well enough to be prepared against another attack.

Vaccination is the only safeguard—the cost is little compared to the results, and if you vaccinate early, when pigs are young and healthy, it will cost you far less, take less serum, less work, and protect you against loss later when hogs are nearly ready for market.

Fowler's Anti-Hog Cholera Serum

Is Uniformly Pure, Potent and Safe

We are directly interested in helping breeders save their hogs for market. It is to our interest to help in smothering out this fatal disease, as we are among those who buy the raw product for packing purposes. Immune, healthy hogs are worth more to you than hogs that have no guarantee of health.

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Dept. 19 Kansas City, Kan.

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LETTER HEADS—
8 1/2 x 11 inches. Bond paper. White. 500 for \$2.50, 1,000 for \$3.00, additional 1,000 \$1.50. If you wish ruled stock, add 75c per 1,000.

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No. 1. 5 1/2 x 7 1/2 inches. Commercial size. White. 500 for \$2.00, 1,000 for \$2.75, additional 1,000 \$1.75.

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KANSAS FARMER
TOPEKA, KANSAS

FARM AND HERD.

F. W. Schowalter of Halstead, Kansas, has succeeded in building up a herd of pure-bred Poland Chinas that are the profitable kind. His herd is made up of individuals, representing the popular blood lines of the big-type breed, and he develops his hogs for good breeding stock. He has the type that are easy feeders and has found them very profitable as a market hog.

W. W. Oliver of Gullford, Mo., has changed the date of his annual Poland China sale from October 17 to October 19. He has cataloged a large number of outstanding youngsters sired by the great sire, Big John B. for this sale. Inquiries for catalogs indicate that it will be one of the sale events of the season in Poland China circles.

William B. Parker of Lakin, Kansas, owns one of the good herds of Shorthorn cattle in this state. Mr. Parker has found pure-bred Shorthorns profitable on his farm and he has the breeding and type that make market toppers. A feature of his herd is the fine lot of young cows and heifers.

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161 1/2 ACRES, 65 a. bottom and in meadow; 20 a. in alfalfa, fenced with wire, fair improvements, watered creek and 4 springs, 8 miles south of Mansfield, Mo., 1 mile to school and church. A bargain at \$3,000. Terms.
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Colorado Agricultural and Industrial Map free; new plan to help those seeking farm lands, factory locations and business opportunities. Write to State Board of Immigration, 22 Capitol Bldg., Denver, Colo.

247-ACRE STOCK FARM BARGAIN
Nearly all bottom and alfalfa land; 110 a. cultivated, 40 a. pasture, 80 a. meadow; 5-room house, basement, barn 32x72 with large hay mow; abundance water. This is a snap. Worth \$75, price \$50.
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154 ACRES, 2 1/2 miles from town, to be sold at once. Splendid improvements, fine home proposition. Owner says sell immediately. Don't wait to write, get on train and come. Large list to select from.
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150 Miles Southwest from Kansas City. 960 acres, 800 acres bluestem pasture and meadow, balance farm land. Never failing water, fair improvements, in oil and gas belt. Price, \$35 per acre.
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160 Acres, 2 1/2 miles from city high school; 80 acres cultivation; 10 acres alfalfa, 15 acres hog pasture, 40 acres grass, balance pasture; 6-room house, cellar, cistern and well; barn for 8 head with loft, corn crib, coal house, hen house. Phone and R. F. D. Price, \$45 per acre. \$3,200 to run five years at 6 per cent.
REINSTRON'S AGENCY, Osage City, Kan.

40 ACRES, 1 1/2 ml. McAlester, city 15,000. All tillable dry bottom. 20 a. cult., planted to corn which will make 35 bu. per acre. Sold at government auction last January, which accounts for price. Terms.
SOUTHERN REALTY CO., McAlester, Okla.

FOR EXCHANGE
A fine improved quarter section, 100 cult., balance pasture; on county road, close to town. Want hdw. or general stock. Mtg. \$3,500, 5 1/2%. Price, \$60 per acre.
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Five farms, from 80 to 300 acres, improved, well located, good lands near good markets, in Eastern Kansas, near good schools and churches. Will be sold on payments of \$5 to \$8 per acre down and rest in scattered payments from five to twenty years at low interest. You never had such a chance to buy good land. Write for views and full information. Address
THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

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Little Talks to Housekeepers

Helpful Hints Here for the Women Folks of the Farm

What you can do, or dream you can, begin it; Boldness has genius, power and magic in it; Only engage and then the mind grows heated; Begin, and then the work will be completed.
—Goethe.

cool place, there is no need of any of the mixture being wasted on account of spoiling.

Do You Write the Boy?

When the shades at the kitchen windows become soiled, take them off the roller, cut off a strip wide enough to take in the tack holes, also cut off the old hem and re-hem the opposite end. When re-hung, upside down, they will look like new shades. This will much improve the appearance of the room where the shades are often pulled to the bottom of the windows.

Add a tablespoonful or two of cold water to the egg to be used for clearing coffee, and give the mixture a few whirls with the egg beater. Used in this way, the egg does not cake in the bottom of the coffee pot. If kept in a

Have you ever felt the disappointment of looking for a letter and not receiving it? If you have, and especially if it was in those days when you were first away from your parents and it was a letter from them which failed to come when you expected it, you will appreciate the admonition to write often to the boy or girl away from home.

Letters from the family have everything to do with keeping the home ties in place in the boy's or girl's estimation. If the folks at home are careless about writing, it invites the same attitude on the part of the absent member and in time the duties, pleasures, and friends of the new life may claim the entire time.

FASHION DEPARTMENT - ALL PATTERNS TEN CENTS

This department is prepared especially in New York City, for Kansas Farmer. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompanies each pattern. When ordering, all you have to do is to write your name and address plainly, give the correct number and size of each pattern you want, and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Special offer: To anyone ordering a pattern maker, for only 2 cents; send 12 cents for pattern and book. Price of book if ordered without pattern, 5 cents. Address all orders for patterns or books to Kansas Farmer, Topeka, Kansas.



No. 7894—Girls' Dress: Cut in sizes 6, 8, 10 and 12 years. The joy of having among other summer frocks, a jumper dress with "wing" pockets, is as much as any girl could ask. In this design contrasting goods and colors are effective. The jumper fits over a separate gimpie that has its closing in front and an elastic run through a casing at the waistline. No. 7919—Ladies' Shirtwaist: Cut in sizes 34 to 42 inches bust measure. Simplicity rules this design in a shirtwaist which has a back yoke. In each half of the back, below the yoke, two tucks are made to turn toward the armhole, giving a trim neat effect. In each front four tucks are made and a lovely collar rolls low with the revers to give a graceful V shape to the neck. No. 7940—Girls' Dress: Cut in sizes 6, 8, 10 and 12 years. A little dress that is rich in detail features, is this one with separate gimpie and a four-gore plaited skirt. A cape collar sewed to the neck of the gimpie is attractively carried over the shoulders of the dress body. The low vest effect of the dress is noteworthy. No. 7949—Ladies' Apron: Cut in sizes 24 and 28 inches waist measure. The home seamstress never hesitates to make a one-piece garment, and such is this apron that slips on over the head. Braid binds all edges and trims the up-to-date pocket stitched to each side of the front, where a tiny plait is introduced to better shape the garment. No. 7929—Ladies' Skirt: Cut in sizes 24 to 32 inches waist measure. In this design of a skirt cut in five gores, the yoke and front gore are in one piece. A trimming fold of material on each side front gore is a forceful style feature, and the button and loop decoration of it is simple and attractive. No. 7942—Ladies' Kimono: Cut in one size. If you care at all for kimonos, you will like this one, which has the front and back in one piece. The edges of the fronts are faced with ribbon 1 1/2 inches wide and so are the pretty flowing sleeves, but bands of contrasting material will give satisfaction when the fabric making the kimono does not require silk binding.

The memories of home and of early family life should never be allowed to become dim, if they are what they should be. The family companionships can be kept up and greatly strengthened, even, by letters, and it is a pity that any should lose the value of such companionships through lack of interest which can be expressed so well through correspondence.

Do You Wear Dress Shields?

We know there are others who will welcome a suggestion as to how to get rid of the nuisance of wearing and washing shields. For years we have worn shields in every dress and the work of washing them was a chore for every other night. The work of sewing or pinning them in had to be done as regularly. A good grade of shields—which is the only kind it pays to buy, because they stand washing much better—costs twenty-five to forty cents, depending upon size and style worn, and the average life of a pair of shields washed regularly and carefully, is two months. Shields were an expensive necessity, and we were glad to be rid of them. The remedy given us by a friend, and which has been tried out conclusively, follows:

Just before dressing, make a good lather of pure, white soap under the arms, allowing it to dry. This absorbs, or at least takes care of, the perspiration. For a time it will chafe the skin



HIS LIFE IS HAPPY AND HEALTHFUL

a little, but omitting the application for a day will relieve this and in time the skin will become accustomed to the soap. Of course, the soap application should be washed off frequently, as there is no safe substitute for the old-fashioned way of keeping clean.

The suggestion has done all claimed for it, in summer dresses and waists, and the friend who told us says it is not even necessary for her to wear shields in silk or woollen dresses.

So simple and harmless a remedy for so great a nuisance, is deserving of a trial.

Is Your House Well Heated?

When the first cold spell of the winter comes, will most of the house be shut off and the kitchen become living room, too? Will the hall be so cold that to pass through it will make your teeth chatter? And the bed rooms—will they be so far removed from heat that it will be a matter of taking your choice of being blue and numb when you have finished dressing or undressing, or waiting your turn by the kitchen stove?

Do you dread winter? Is it not mainly for the reason that you are not prepared to be comfortable? The farmer who has considered convenience in building, whose feed is well stored for the winter, and who has made provision for the comfort of his live stock, does not feel the disagreeableness of outdoor winter work as does the man who must dig roughage for his live stock out of the snow and ice and haul it over fields or almost impassable farm roads.

The same rule applies to the comfort of the family. If as much of the house as is needed by the family is warmed and the members of the household can enjoy their freedom, much of the discontent and lack of interest in farm life—now far too prevalent—will be

overcome, and instead of dreading winter there will be a pleasant anticipation of long winter evenings for reading, studying, or sociability.

Do you know that a furnace which with reasonable care will last twenty to twenty-five years, and every part of which, except the grate, is guaranteed for five years, can be installed for \$100 to \$200? The variation in price allows for houses ranging in size up to eight or nine rooms, and for an extra amount of work and material in placing the furnace. And this type is an economical user of fuel—a statement borne out by the experience of buyers. There are furnaces which burn wood as well as those for coal, and both are reliable. Can you think of another outlay of this amount of cash that will bring as much comfort and real pleasure? And it is not amiss to include health in the returns from a furnace, for many serious colds and much other sickness has been and can be traced to poorly heated or unevenly heated houses. There is still plenty of time to put in a furnace this fall. The complete job of installing will not require a week unless complications due to the construction of the house, are encountered.

If, on account of arrangement of cellar, or lack of money, a furnace cannot be considered, an evenly heated house is still possible. There is a make of stove specially designed for heating floors and which by reason of its carefully planned construction gives excellent returns in heat for the wood, soft coal, or hard coal burned in it. It is made in three sizes, for heating three, five, and seven rooms, and the prices are forty, forty-five, and fifty dollars, respectively. The weight and quality of every part of this stove is on a par with the fire pot, which is guaranteed to never burn out. Instead of one front draft, there are four—one at each corner—causing an even distribution of air and which is of great value in saving the fire pot. The air enters the fire pot from side slots, and this is another feature which adds to the life of the fire pot and makes even heating possible. At the back of the stove is a circulating flue which actually draws the cold air from the floor, carrying it upward alongside the fire pot where it is highly heated, releasing it at the top of the stove. By reason of this arrangement there is additional heat capacity and perfect circulation as well.

Our attention was called to this furnace and stove at the Topeka fair and we were interested to the extent of looking up parties using them and find these people well satisfied and even surprised with results. You may know of others just as good—they surely are made—but they have not been brought to our attention. We were impressed because we know of many country home owners who are well able to supply ample heat but who still allow the family to worry along with the cook stove and perhaps one heater which is too small to heat even one room well.

A well heated house should not be considered in the luxury or even improvement class, but should be put down as a necessity to be provided with the first money obtainable.

Tea Cakes

- 2 eggs
- 1 1/2 cupfuls sugar
- 1 cupful milk
- 1/2 cupful butter
- 2 teaspoonfuls cream of tartar
- 1 teaspoonful soda
- 2 1/2 cupfuls flour

Nut Bread

- 4 cupfuls flour
- 4 teaspoonfuls baking powder
- 1 teaspoonful salt
- 1/2 cupful sugar
- 1 cupful nuts
- 1 or 2 eggs, beaten
- 2 cupfuls milk

Mix dry ingredients, add eggs, and little milk, then balance. Bake in moderate oven three-quarters of an hour.

Spice Layer Cake

- 1 cupful molasses
- 1 cupful brown sugar
- 1/2 cupful butter
- 1 cupful sour milk
- 3 eggs—save whites of 2 for frosting
- 1 teaspoonful soda
- 1 teaspoonful grated nutmeg
- 1 1/2 teaspoonful cinnamon
- 1/2 teaspoonful cloves
- 3 cupfuls flour, sifted after measuring

This makes four layers. Put together with white boiled frosting with one cupful chopped raisins in it.

"Does Wilkins own his house or does he rent it?" inquired one neighbor of another.

"Rents it," was the decided answer.

"How do you know?"

"He strikes matches on the paint."

Classified Advertising

Advertising "bargain counter." Thousands of people have surplus items of stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. Your advertisement here reaches over 300,000 readers for 4 cents a word per week. No "ad" taken for less than 60 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms, always cash with order. SITUATIONS WANTED ads, up to 25 words, including address, will be inserted free of charge for two weeks, for bona fide seekers of employment on farms.

HELP WANTED.

GOVERNMENT FARMERS NEEDED—Big salaries. Permanent job. Light work. Write Osment, 44 F., St. Louis, Mo.

LADY OR GENTLEMAN TO TRAVEL for old established firm. No canvassing. Staple line. \$18 weekly, pursuant to contract. Expenses advanced. G. G. Nichols, Philadelphia, Pa., Pepper Bldg.

FARMERS WANTED—\$75 MONTH, MEN and women, U. S. government jobs. Short hours. Easy work. Common sense education sufficient. Write immediately for list positions now obtainable. Franklin Institute, Dept. O82, Rochester, N. Y.

REAL ESTATE.

FOR SALE—FIVE-ACRE TRACT WITH eleven houses. Rental, \$100 per month. Better than a bottom farm. Part cash. Adjoining city limits. Fred M. Smith, Neodesha, Kansas.

WE OWN 100 FARMS IN FERTILE Pawnee Valley; all smooth alfalfa and wheat land; some good improvements; shallow water. Will sell eighty acres or more. E. E. Fritzel & Sons, Larned, Kansas.

160 ACRES IN PHILLIPS COUNTY, Kansas; 100 acres in cultivation, all fenced, fair improvements, good soil; close to town; on phone and mail route. Priced worth the money. Write. E. M. Hillyer, Republican, Nebraska.

LAND IN DAWSON AND PRAIRIE counties, Montana, on ten-year terms. On new line of Great Northern Railway just building. The last chance for good farming land in Montana at low prices. Hilger Loan & Realty Co., Lewiston, Montana.

MONTANA LANDS

NORTH MONTANA CHOICE 320-ACRE wheat farm, 2 1/2 miles from market; railroad and banking town; all traction plow land; fenced and cross-fenced; \$1,000 house, small barn and well; in splendid farming community. Only \$6,000, one-third cash and easy terms. Good crops here, land values advancing. Other grain-growing lands in "Havre District" to show you at low prices and good terms. Come and convince yourself or write: North Montana Immigration Association, Havre, Montana.

When Writing to Advertisers, Please Mention Kansas Farmer

POULTRY.

SINGLE COMB BROWN LEGHORNS—Pullet mating only. Tiff Moore, Osage City, Kan.

R. C. BUFF WYANDOTTE COCKERELS for sale cheap before winter. G. G. Wright, Langdon, Kansas.

LARGE DARK RED S. C. R. I. RED cockerels for sale, \$2 and up. C. H. England, Broken Bow, Neb.

FOR SALE—FOUR SEABRIGHT COCKS, \$1 each; also need one cock. Luella Shockey, Baldwin, Kan.

SILVER WYANDOTTES AND BELGIAN hares for sale. J. M. Edgar, Deer Creek, Okla.

LIGHT BRAHMA SPRING COCKERELS, prize winners, \$1.50. Mrs. Ellen Rogers, Sharon, Kan.

SINGLE COMB WHITE LEGHORN cockerels, priced reasonably. Clarence Lehman, Newton, Kan.

SINGLE COMB WHITE LEGHORN cockerels, Black Langshan cockerels and fawn and white Runner drakes, \$1 each. Earl Summa, Gentry, Mo.

COCKERELS FOR SALE—ROSE COMB White Leghorns, first premium winners; all big-boned type. F. J. Nesetral, Munden, Kansas.

MY BEAUTIFUL BUFF ORPINGTONS for sale cheap. Winning cockerels, pullets, hens. Buy the best now. L. S. Weller, Salina, Kan.

FOR SALE—WHITE PLYMOUTH ROCK cockerels, \$2 each. Will be worth \$5 in spring. From egg-laying strain of hens. Thomas Owen, R. R. 7, Topeka, Kan.

BARRED ROCKS—LAYING STRAIN. Pen averaged 160 eggs since January 1. Cockerels for sale cheap. J. P. Farnsworth, 224 Tyler St., Topeka.

S. C. BROWN LEGHORN COCKERELS in lots of twelve or more at a special low price. From greatest layers, none better. Satisfaction guaranteed. Mrs. C. Boudoux, Carona, Kansas.

GASTON'S SINGLE COMB WHITE LEGHORNS, pure-bred, healthy, vigorous cockerels, \$1 each. Bourbon Red Turkeys. Write for prices. Maple Hill Farm, Thos. Gaston, Bosworth, Mo., Prop.

POULTRY WANTED.

PAYING POULTRY PRICES PUBLISHED in Daily Capital. Write for copy. We loan coops without charge. The Copes, Topeka.

PIGEONS.

CARNEAU OR HORNEAU PIGEONS TO exchange for visible typewriter or two-speed motorcycle. Mated pairs and youngsters for sale. Frank Harvey, Parsons, Kan.

CATTLE.

REGISTERED JERSEY CATTLE. PERCY Lill, Mt. Hope, Kan.

FOR SALE—YEARLING REGISTERED Guernsey bull. Write for description and price. W. E. Evans, Jewell, Kan.

REGISTERED SHORTHORN BULLS, one month old to breeding age, at prices any farmer can pay. Frank Martens, Hager City, Wis.

SHORTHORN CATTLE FOR SALE—Three registered Shorthorn yearling bulls and our herd bull which must be sold. Cashatt Bros., Oskaloosa, Kansas.

HIGHLY BRED HOLSTEIN CALVES, either sex, 15-16ths pure, crated and delivered to any station by express, charges all paid, for \$20 apiece. Frank M. Hawes, Whitewater, Wis.

JERSEY BULL, SOLID COLOR, EIGHT months old, out of one of the best imported daughters of Lucy's Prince. A well-bred high-class calf from the best milking strains. Address D. W. Rich, Mt. Pleasant, Iowa.

MISCELLANEOUS.

FERRETS, SINGLE, PAIRS AND DOZEN lots. Guinea pigs, rabbits, Toulouse geese, fox terriers and Angora kittens. Jewell, Spencer, Ohio.

DAIRYMEN—DR. CLARK PURITY Milk Strainer will remove muck, hair, dandruff, fine manure and all other sediment from milk, and no other strainer will. Write for particulars. Purity Stamping Co., Battle Creek, Mich.

SHEEP

PURE-BRED UNREGISTERED SHROPSHIRE ram lambs, extra good. K. Hague, Route 6, Newton, Kan.

FOR SALE—REGISTERED SHROPSHIRE yearling and lamb rams. W. T. Hammond, Portis, Kansas.

FOR SALE—THREE REGISTERED Shropshire rams, also 25 high-grade lambs, fifteen-sixteenths. C. D. Wood & Sons, Elmdale, Kansas.

DOGS.

COLLIE PUPPIES, CHOICE STOCK, priced right. Lawndale Kennels, Hiawatha, Kansas.

AIRDALE—THE GREAT TWENTIETH century dog. Collies that are bred workers. We breed the best. Send for list. W. R. Watson, Box 128, Oakland, Iowa.

FURNACES

FURNACES, \$10 MONTHLY. NEARLY rust-proof Armco, 20-year guarantee. Century Furnace Co., Youngstown, Ohio.

HORSES AND MULES.

CLOSING OUT SALE OF FORTY HEAD of Shetland Ponies. Geo. Aid, Gallatin, Mo.

FOR SALE—REGISTERED JACKS, JENNETS and colts, also six-year-old black Percheron stallion, registered, weight 1,900 lbs. B. Frank Ball & Son, Curryville, Mo.

TWO REGISTERED PERCHERON mares, black, with fine colts by side. One mare and one horse. Aged 6 years. Weight of mares, 3,300 pounds. Price for the four head, \$900, if taken at once. J. A. Godman, Devon, Kansas.

FARMS WANTED.

FARMS WANTED—HAVE 7,000 BUYERS. Describe your unsold property. 514 Farmers Exchange, Denver, Colo.

WANT TO BUY GOOD FARM, WELL located, direct from owner. Give description. A. Notung, Box 754, Chicago.

HOGS.

BIG-TYPE POLAND CHINAS. U. A. Gore, Seward, Kan.

HONEY.

ONE 60-POUND CAN CLOVER, \$6.25; case of two cans, \$12.00; two, \$11.75; five, \$11.50. Light amber, one 60-pound can, \$5.25; two, \$10.00, f. o. b. Center Junction, Iowa. Cash with order. Satisfaction guaranteed. W. S. Pangburn.

FINEST EXTRACTED HONEY, GATHERED by bees and sent to you direct from the hive. Rich, smooth, delicious. Purity and weight guaranteed according to law. Following prices are f. o. b. Hotchkiss, Colo. One can containing 60 pounds net, \$5; case of two cans, \$9.50; two to four cases, \$9 each. Special price on larger lots. Ten cents brings sample. Frank H. Drexel, Crawford, Colorado.

SITUATION WANTED.

MIDDLE AGED WOMAN WANTS housework in farm home. Address Martha Wilson, 148 Gratton St., Topeka.

MAN WANTS WORK ON FARM. TENDING to stock preferred. References exchanged. George Reeves, Box 311, Scammon, Kan.

PLEASE MENTION KANSAS FARMER WHEN WRITING TO ADVERTISERS

HUTCHINSON FAIR AWARDS

HORSE AWARDS.

PERCHERONS.
Exhibitors, Woods Bros., Lincoln, Neb.; J. P. & M. H. Malone, Chase, Kan.; A. P. Loomis, Diamond Springs, Kan.; E. W. Dunworth, Haven, Kan.; J. A. Cowdery, Lyons, Kan.; J. S. Cantwell, Sterling, Kan.

Judge, C. W. McCampbell, Manhattan, Kan.
Aged Stallions (eight shown)—1, 2 and 3, Woods Bros. on Matheuer, Merzall and Locke; 4, Dunworth on Hampton.

Three-Year-Old Stallions—1 and 3, Woods Bros. on Autole and Millier; 2, Cowdery on Tainter.
Two-Year-Old Stallions—1, 2 and 3, Woods Bros. on Vaudone, Istrone and Haynes.

Stallion Foals—1 and 2, Woods Bros.; 3, Dunworth on Alexander Jr.
Aged Mares—1 and 2, Loomis on Jugale and Dove.
Two-Year-Old Mares—1, Loomis on Douvine.

Yearling Mares—1, Loomis on Francine.
Filly Foals—1, Loomis on Allie.
Champion Stallion—Woods Bros., Matheuer.
Champion Mare—Loomis, Francine.

Mare Three Years Old and Over, Bred and Owned by Exhibitor—Dove.

Champion Mare Under Three Years Old, Bred and Owned by Exhibitor—Dove.

Produce of Mare—Loomis on produce of Jougale.

FRENCH DRAFT.
Exhibitors, Eales & Gibson, Hutchinson, Kan.; Woods Bros., Lincoln, Neb.; and B. W. Dunwoody, Haven, Kan.

Judge, C. W. McCampbell.
Aged Stallions—1, Woods Bros. on Persey; 2, Eales & Gibson on Buster.
Three-Year-Old Stallions—1, Woods Bros. on Cedillac; 2, Dunwoody on Teddy.

Two-Year-Old Stallions—1, Woods Bros. on Ilmo.
Champion Stallion—Woods Bros., Persey.

BEIGIANS.
Exhibitors, E. W. Breckenridge, Bucyrus, Kan.; Woods Bros., Lincoln, Neb.; David Cooper & Son, Freeport, Kan.

Judge, Prof. C. W. McCampbell.
Aged Stallions—1, Cooper on Meronde Merchou; 2, Woods on Adolph; 3, Cooper on Maycure.

Three-Year-Old Stallions—None shown.
Two-Year-Old Stallions—1, Woods on King; 2, Breckenridge on Brander; 3, Cooper on Cleo.

Yearling Stallions—1 and 3, Cooper; 2, Woods.
Stallion Foals—1 and 2, Cooper.
Champion Stallion—Meronde Merchou.

Aged Mares—1, 2 and 3, Cooper on Orbias, De Rose and Caline 2d.

Three-Year-Old Mares—1 and 2, Cooper on Florence and Dortha.
Yearling Mares—1, Cooper on Sylvie; 2, Breckenridge on Lela.

Champion Mare—Sylvie.
Get of Sire—1, Cooper on Borgas.

JACKS AND JENNETS.
Exhibitors, J. B. Parker, Burton, Kan.; D. J. Hutchins, Sterling, Kan.; C. W. Cantwell, Sterling, Kan.; M. E. Richardson, Sterling, Kan.; J. B. and H. P. Malone, Chase, Kan.; E. E. Cowdery, Hutchinson, Kan.; E. W. Breckenridge, Bucyrus, Kan.

Judge, Prof. C. W. McCampbell, Manhattan, Kan.
Aged Jacks (fifteen shown)—1, Cantwell on Cloverleaf King; 2, Richardson on Missouri Chief; 3 and 4, Hutchins on Eastern Lightning and Star Bang.

Three-Year-Old Jacks—1, Richardson on Pride of Salt Marsh; 2, Malone on First Choice.
Yearling Jacks—1, Cantwell on King of Jacks.

Jack Colts—1, Cantwell; 2, Malone.
Champion Jack—Cloverleaf King.

Aged Jennets—1, Malone on Kansas Starlight; 2, Malone; 3, Richardson.
Three-Year-Old Jennets—1, Malone; 2, Richardson.

Two-Year-Old Jennets—1 and 2, Malone.
Champion Jennet—Kansas Starlight.

CATTLE AWARDS.

SHORTHORNS.
Exhibitors, William Herkelman & Son, Elwood, Iowa; Rapp Bros., St. Edwards, Neb.; Tomson Bros., Carbondale and Dover, Kan.; E. W. Zates, Sika, Kan.; T. J. Dawe & Son, Troy, Kan.; H. H. Holmes, Great Bend, Kan.; John Regier, Whitewater, Kan.; W. A. Forsythe & Sons, Greenwood, Mo.

Judge, Lawrence Ogden, Maryville, Mo.
Aged Bulls—1, Dawe on Diamond Emblem.

Two-Year-Old Bulls—1, Herkelman on Cumberland Standard; 2, Forsythe on Fair Acres Stamp; 3, Holmes on Clipper Brawith.

Senior Yearling Bulls—1, Tomson Bros. on Village Marshal; 2, Joseph Baxter & Son, Clay Center, Kan., on Cedarwild Knight.

Junior Yearling Bulls—1 and 2, Rapp Bros. on Royal Pride and Pride's Master; 3 and 5, Forsythe on Village Courtier and Village Valentine; 4, Herkelman on Hopeful Sultan; 6, Estes on Baron 3d.

Senior Bull Calves—1 and 7, Tomson Bros. on Masquerader and Color Bearer; 2 and 8, Herkelman on Cumberland's Royal 2d and Village Cumberland; 3, Regier on Calumet; 5, Holmes on Honorable; 6 and 9, Forsythe on Valentine Stamp and Choice Magnet.

Junior Bull Calves—1 and 4, Rapp Bros. on Gloster Pride and Pride's Emblem; 2, 3 and 7, Herkelman on True King, Cumberland Goods 2d and Cumberland's Pride; 5, Dawe on Superior Rosedale; 6, Forsythe on Violet's Choice.

Junior and Grand Champion Bull—Village Marshal.
Senior Champion Bull—Diamond Emblem.

Aged Cows—1, Herkelman on Lady Dever Goll; 2 and 3, Holmes on Crystal Maid and Honor Maid; 4, Dawe on Fair Mysie; 5, Baxter on Scottish Bettle.

Two-Year-Old Cows—1, Rapp Bros. on Tribby Allan; 2, Herkelman on Nerissa Pride; 3, Forsythe on Violet Queen 2d; 4, Holmes on White Valentine; 5 and 6, Dawe on Maxwellton Rosie and Maxwellton Lavender 2d.

Senior Yearling Heifers—1, 2 and 3, Tomson Bros. on Mayflower 4th, Fancy 20th and Augusta 109; 4, Herkelman on Cumberland's Violet; 5, Rapp Bros. on Village Blossom; 6, Dawe on Miss Fair Acres; 7, Holmes on Riverside Lady; 8, Forsythe on Choice Simplicity.

Junior Yearling Heifers—1, Rapp Bros. on Sweetheart; 2 and 3, Herkelman on Village Veauty 2d and Sweet Mildred; 4, Holmes on Riverside Lady 2d; 5 and 7, Dawe on Nonpareil E. and Village Baroness; 6 and 8, Forsythe on Arlington and Violet Maid.

Senior Heifer Calves—1 and 6, Tomson Bros. on Victoria 2d and Pavana 4th; 2, Dawe on Last Rose; 3, Rapp Bros. on Pride's Fancy; 4, Herkelman on Lady Sultan; 5 and 8, Regier on Calla V and Dale Victoria; 7, Holmes on Lady Gloster.

Junior Heifer Calves—1, Rapp Bros. on Barmpton Flower; 2 and 7, Holmes on Hallwood Goldrop 12th and Crystal Lady; 3, Tomson Bros. on Lady Lavender; 4, Herkelman on Lady Cumberland; 5, Dawe on Princess Lavender; 6, Forsythe on Miss Orange 12th.

Senior Champion Female—Lady Dever Goll.
Junior and Grand Champion Female—Barmpton Flower.

Aged Heifers—1, Herkelman; 2, Dawe; 3, Forsythe; 4, Holmes.

Young Heifers—1, Tomson Bros.; 2, Rapp Bros.; 3, Herkelman; 4, Forsythe; 5, Holmes.

Calf Herds—1, Rapp Bros.; 2, Herkelman; 3, Tomson Bros.; 4, Forsythe; 5, Regier.

Get of Sire—1, Rapp Bros. on get of Village Pride; 2, Herkelman on True Cumberland 3d; 3, Tomson Bros. on Maxwellton Rosedale; 4, Forsythe on Vermillion; 5, Regier on Dale Emblem.

Produce of Cow—1, Herkelman; 2, Tomson Bros.; 3, Forsythe.

ABERDEEN ANGUS.
Exhibitors—Kershaw Stock Farm, Muskogee, Okla.; D. K. Robertson, Madison, Neb.; and Sutton & Porteous, Lawrence, Kan.

Judge, Otto V. Battles, North Yakima, Wash.
Aged Bulls—1, Kershaw on Ben Hur of Lone Dell; 2, Robertson on Val's Knight; 3, Sutton & Porteous on Heatherson 4th.

Two-Year-Old Bulls—1, Kershaw on Edgar of Rosemere.

Senior Yearling Bulls—1, Kershaw on Inverne of Rosemere; 2, Robertson on King of Twin Burn 4th.
Senior Bull Calves—1, Kershaw on Muskogee; 2, Sutton & Porteous on Double Heatherson; 3 and 4, Robertson on Barbarian of Twin Burn 2d and Barbarian of Twin Burn.

Junior Bull Calves—1, Sutton & Porteous on Blackbird; 2, Heatherson; 3, Robertson on Black Knight of Twin Burn; 4, Kershaw on Ben Hur of Lone Dell.

Senior and Grand Champion Bull—Ben Hur of Lone Dell.

Junior Champion Bull—Inverne of Rosemere.

Aged Cows—1, Robertson on Twin Burn Pride 2d;

2, Kershaw on Pride of Alta 20th; 3, Sutton on Mina 2d.

Two-Year-Old Heifers—1, Robertson on Twin Burn Blackbird; 2 and 3, Kershaw on Black Lola of Rosemere and Black Lola of Rosemere 2d.

Senior Heifer Calves—1, Sutton & Porteous on Blackbird Heatherson.

Junior Yearling Heifers—1, Kershaw on Blackbird 185; 2 and 3, Robertson on Key of Twin Burn and Twin Burn Blackbird 4th; 4, Sutton & Porteous on Wakarusa Robina.

Senior Heifer Calves—1, Kershaw on Muskogee Rose 2d; 2, Sutton & Porteous on Lela Heatherson; 3 and 4, Robertson on Twin Burn Blackbird 6th and Twin Burn Blackbird 4th.

Junior Heifer Calves—1 and 4, Kershaw on Muskogee Dona and Blackbird of Rosemere 25th; 2, Sutton & Porteous on Erica Heatherson 2d; 3 and 5, Robertson on Key of Twin Burn 2d and Twin Burn Pride 5th.

Senior and Grand Champion Female—Twin Burn Pride 2d.

Junior Champion Female—Blackbird 185.

Aged Heifers—1, Kershaw; 2, Robertson; 3, Sutton & Porteous.

Young Heifers—1, Robertson; 2, Sutton & Porteous.
Calf Herds—1, Kershaw; 2, Sutton & Porteous; 3 and 4, Robertson.

Get of Sire—1, Kershaw on get of Oakville Quiet Lad; 2, Sutton on Heatherson 6th; 3, Robertson on Val's Knight.

Produce of Cow—1, Robertson; 2, Kershaw; 3, Sutton & Porteous.

HEREFORD CATTLE.
Exhibitors—W. L. Yost, Kansas City, Mo.; L. J. Smith, Pleasant Hill, Mo.; Carl Miller, Belvue, Kan.; R. H. Hazlett, El Dorado, Kan.; W. L. Bowman & Co., Ness City, Kan.; Klaus Bros., Bendena, Kan.; Engle & Son, Sheridan, Mo.

Judge, Prof. John C. Burns, College Station, Texas.
Aged Bulls—1, Hazlett on Publican 4th; 2, Bowman on Sampson; 3, Klaus on Beau Onward 10th.

Two-Year-Old Bulls—1, Hazlett on Beacolo 6th; 2, Yost on Ardmore; 3, Bowman on Lawrence Fairfax.

JERSEYS.
W. O. Mathew, Hutchinson, was the only exhibitor and was awarded prizes in all classes where entries were made.

HOLSTEINS.
J. M. Chestnut & Sons, Odenon, Kansas, had the only herd of this breed and were awarded all prizes for which entries were made.

POLLED DURHAMS.
Exhibitors, Achenbach Bros., Washington, Kan.; Albert Hultine, Saroville, Neb.; Ed Stegell, Straight Creek, Kan.; Joseph Baxter & Sons, Clay Center, Kan.

Judge, Otto V. Battles, Maquoketa, Iowa.
Aged Bulls—1, Stegell on True Sultan; 2, Achenbach on Meadow Sultan; 3, Baxter on Select Goods.

Two-Year-Old Bulls—None shown.
Senior Yearling Bulls—1, Stegell on Sultan's Pride; 2, Hultine on Gloster's Count.

Junior Yearling Bulls—1 and 2, Hultine on Rose-lawn Marshall and Sultan Jr.

Senior Bull Calves—1 and 4, Stegell on Sultan's Conqueror and Sultan's Choice; 2, Achenbach on Intensified Sultan; 3, Hultine on Royal Goods.

Junior Bull Calves—1, Hultine on Double Goods; 2, Baxter on Bettle's Kind.

Senior and Grand Champion Bull—True Sultan.

Junior Champion Bull—Rose-lawn Marshall.

Aged Cows—1, Achenbach Bros. on Sultana; 2, Hultine on Fern Goods; 3, Stegell on Flora; 4, Baxter on Scottish Bettle.

Two-Year-Old Heifers—1, Hultine on Winsome; 2, Achenbach Bros. on Choice Sultana; 3, Stegell on Dale's Ruth 3d; 4, Baxter on Miss Kinsley 2d.

Senior Yearling Heifers—1 and 4, Stegell on Princess Sultana and Queen's Fancy; 2, Achenbach Bros. on Sultana Frances; 3, Hultine on Barmpton Sultana 2d.

Junior Yearling Heifers—1, Hultine on Serene 2d; 2, Achenbach on Sultana Minute 2d; 3, Baxter on Little Beauty.

Senior Heifer Calves—1, Stegell on Queen Sultana; 2, Hultine on Gloster's Princess 2d; 3, Achenbach on Sultana Frances 2d; 4, Baxter on Sissy Calf.

Junior Heifer Calves—1, Hultine on Winsome 2d; 2, Stegell on Sultana's Lassie; 3 and 4, Achenbach on Sultana Martha and Carmine Sultana.

Senior Champion Female—Sultana.

Junior and Grand Champion Female—Princess Sultana.

Aged Heifers—1, Stegell; 2, Achenbach; 3, Baxter.

Young Heifers—1, Hultine; 2, Stegell; 3, Achenbach.

Calf Herds—1, Stegell; 2, Hultine; 4, Achenbach; 4, Baxter.

Get of Sire—1, Stegell on get of True Sultan; 2, Achenbach on Meadow Sultan; 3, Hultine on Select Goods; 4, Baxter on Scottish Baron.

FAT STEERS.
Pure-bred, grade and cross-breeds, all breeds, common.

Exhibitors, Kansas Agricultural College, Manhattan, Kan.; Carl Miller, Belvue, Kan.; Kershaw Stock Farm, Muskogee, Okla.; William Herkelman, Elwood, Iowa; and R. H. Hazlett, El Dorado, Kan.

Judges, Prof. John C. Burns, College Station, Texas; Otto V. Battles, Maquoketa, Iowa; and L. B. Ogden, Maryville, Mo.

Two-Year-Olds—1, 4 and 5, Kansas Agricultural College on King Dale, Capper and Reserve Path-

finder; 2, Herkelman on Robin; 3, Kershaw on Proud Lad 2d.

Yearling Steers—1, Hazlett on Hartford Lad 6th; 2 and 6, Herkelman on Johnny and George; 3 and 5, Kershaw on College Choice and Best Ever; 4, Kansas Agricultural College on Barmpton 1st.

Steer Calves—1, 2 and 4, Kansas Agricultural College on Rosegay Lad, Barmpton Prince and Don Reiter; 3, Herkelman on Doc.

Champion Steer—King Dale.

SWINE AWARDS.

POLAND CHINAS.

Exhibitors, Olivier & Sons, Danville, Kan.; A. J. Erhart & Son, Ness City, Kan.; Stryker Bros., Fredonia, Kan.; Deming Ranch, Oswego, Kan.; C. B. Palmer, Marion, Kan.; Phil Dawson, Endicott, Neb.; W. E. Epley, Diller, Neb.

Judge, Henry Door, Iowanna, Iowa.
Aged Boars—1, Olivier & Son on A Wonderful King; 2, Olivier & Sons on Logan Price; 3, Epley on Mammoth Hadley.

Senior Yearlings—1, Olivier & Sons on Smooth Price; Stryker Bros. on Artist; 3, Stryker Bros. on Six Hoger.

Junior Yearling Boars—1, Dawson on Robin Hood; 2, Erhart on Big Robidoux; 3, Stryker Bros. on Senior Boar Pig—1, Dawson on Radio; 2, Dawson on Sensation; 3, Erhart & Sons on Big Hadley's Model.

Junior Boar Pigs—1, Olivier & Sons on Big Chief; 2, Erhart & Sons on Big Hadley's Equal; 3, Erhart & Sons on Robidoux.

Aged Sows—1, Dawson on Belle Wonder; 2, Erhart & Sons on Miss Mayflower 3d; 3, Dawson on Quality Girl.

Senior Yearling Sows—1, Olivier & Sons on Fancy; 2, Olivier & Sons on Smuggler's Best; 3, Erhart & Son on Orphan Little.

Junior Yearling Sows—1, Deming Ranch on Big Maid; 2, Deming Ranch on Receiver's Queen; 3, Deming Ranch on Wonder Maid.

Senior Sow Pigs—1, Dawson on Daisy Uhlman; 2, Deming Ranch on Prim Wonder; 3, Deming Ranch on Lila Wonder.

Junior Sow Pigs—1, Dawson on Fana Uhlman; 2, Dawson on Princess Uhlman; 3, Deming Ranch on Giant's Wonder Lady.

Senior and Grand Champion Boar—Olivier & Sons, A Wonderful King.

Junior Champion Boar—Olivier & Sons, Big Chief.

Senior and Grand Champion Sow—Dawson, Belle Wonder.

Junior Champion Sow—Dawson, Fana Uhlman.

Produce of Sow—1, Dawson on produce of Blue Valley; 2, Olivier & Sons on produce of Black Pride; 3, Stryker on produce of Salome.

Get of Sire—1, Dawson on get of Giant Uhlman; 2, Deming Ranch on get of Receiver's Wonder; 3, Epley on Pan Defender.

Aged Heifers—1, Olivier; 2, Dawson; 3, Erhart.

Young Heifers—1, Olivier; 2, Olivier; 3, Erhart.

DUROC JERSEYS.
Exhibitors, W. R. Crow & Sons, Hutchinson, Kan.; G. M. Shepherd, Lyons, Kan.; Perfection Stock Farm, Union, Okla.; S. W. Alfred & Sons, Enid, Okla.

Judge, W. A. Williams, Marlow, Okla.
Aged Boars—1, Crow on Crow's Joy; 2, Alfred on Pilot Chief Col; 3, Crow on Gano Crow.

Senior Yearling Boars—1 and 2, Crow on Our Col. and Pathfinder; 3, Perfection Stock Farm on Monarch Valley.

Junior Yearling Boar—1 and 3, Crow on Crow's Model and P. L. Gano; 2, Shepherd on Crimson Wonder Again.

Senior Boar Pig—1, Shepherd on Giant Crimson; 2, Crow on Crow's Model 9th; 3, Alfred on Blake's Graduate.

Junior Boar Pigs—1, 2 and 3, Crow on Crow's Futurity Col., Crow's Futurity Col. 5th, and unnamed.

Aged Sows—1 and 2, Crow on Katherine's Girl and Walla Belle; 3, Alfred on Pilot's Lady.

Senior Yearling Sows—1, Perfection Stock Farm on Graduate Princess; 2, Crow on Colonel's Belle; 3, Alfred on Chief's Daisy.

Junior Yearling Sows—1 and 3, Shepherd on Lady Walla and Lady Illustrator; 2, Crow on Superba Belle.

Senior Sow Pig—1 and 2, Crow on Gano Lady and Gano Lady 6th; 3, Alfred on Chief's Daisy.

Junior Sow Pigs—1, 2 and 3, Crow on Crow's Futurity Lady 1st, Crow's Futurity Lady 2d and Crow's Futurity Lady 3d.

Senior and Grand Champion Boar—Crow's Joy.

Junior Champion Boar—Crow's Futurity Col.

Senior and Grand Champion Sow—Katherine's Girl.

Junior Champion Sow—Crow's Futurity Lady 1st.

Aged Heifers—1, 2 and 3, Crow.

Young Heifers—1, 2 and 3, Crow.

Get of Sire—1, 2 and 3, Crow.

Produce of Sow—1, 2 and 3, Crow.

For best herd under one year, bred and owned by exhibitor, American Duroc Jersey Special, won by W. R. Crow entries.

CHESTER WHITES.
Exhibitors, Coleman & Crum, Danville, Kan.; E. E. Smiley, Perth, Kan.; H. R. Ayers, Danville, Kan.; W. W. Waltemire & Sons, Raymore, Mo.; M. Armentrout, Botina, Iowa.

Judge, W. A. Williams, Darlow, Okla.

Aged Boars—1, Coleman & Crum; 2, Waltemire; 3, Ayers.

Senior Yearling Boars—1, Armentrout; 2 and 3, Waltemire.

Junior Yearling Boars—1, Smiley; 2, Armentrout; 3, Waltemire.

Senior Boar Pigs—1, Ayers; 2, Armentrout; 3, Waltemire.

Junior Boar Pigs—1 and 3, Smiley; 2, Coleman & Crum.

Aged Sows—1 and 3, Coleman & Crum; 2, Armentrout.

Senior Yearling Sows—1, Coleman & Crum; 2, Waltemire; 3, Armentrout.

Junior Yearling Sows—1, Coleman & Crum; 2, Waltemire; 3, Armentrout.

Senior Sow Pigs—1 and 2, Ayers; 3, Armentrout.

Junior Sow Pigs—1, Armentrout; 2 and 3, Coleman & Crum.

Senior and Grand Champion Boar—Armentrout.

Junior Champion Boar—Ayers.

Senior and Grand Champion Sow—Coleman & Crum.

Junior Champion Sow—Armentrout.

Aged Heifers—1 and 2, Coleman & Crum; 3, Waltemire.

Young Heifers—1, Smiley; 2, Coleman & Crum; 3, Waltemire.

Get of Sire—1, Ayers; 2, Armentrout; 3, Coleman & Crum.

Produce of Sow—1, Ayers; 2, Armentrout; 3, Coleman & Crum.

BERKSHIRES.
Exhibitors, Sutton Farms, Lawrence, Kan., and C. G. Nash, Eskridge, Kan.

Judge, F. D. Coburn, Topeka, Kan.

Aged Boars—None shown.

Senior Yearling Boars—1, Nash on Silver Tips Bacon; 2, Sutton on Silver Tip's Duke 7th.

Junior Yearling Boar—1, Sutton on Sutton's Improver; 2, Nash on P. D's Progressor.

Senior Boar Pigs—1, Sutton on Stumpy's Classy Robbinhood; 2, Nash on General Buster Black; 3, Nash on Silver Tip's Boy.

Junior Boar Pigs—1, Sutton; 2 and 3, Nash.

Aged Cows—1 and 2, Nash on Legal's Queen and Zella 7th.

Senior Yearling Sows—1, Sutton on Duke's Silver Tip's 7th; 2, Nash on Circus Girl 24th.

Junior Yearling Sows—1, Nash on Circus Girl 26th; 2 and 3, Sutton on Duchess 4th and Class

OVERLAND RED MODERN HEREFORDS

A Romance of The Moonstone Canon Trail

SYNOPSIS OF PRECEDING CHAPTERS

A lonely prospector, thinking always of his wife and child left behind, follows the lure of the desert in his search for gold. In the desert town men begin to notice the regularity of his comings and goings. They are green with envy and decide to beat him out of his claim. Meanwhile, in the lonely canon he hoarded the little yellow bits. As weeks rolled by the water decreased; he carefully stowed his gold in a pouch and prepared to leave the canon. After a fateful search he finally comes to a railroad. Here he is found by a man, who gives him water, but being so exhausted the water is of no avail—a flash comes over him and his vision is forever darkened. Louise Lacharme and Boyar of Moonstone Ranch accidentally come upon the camp of Overland and Collie (whom Overland has picked up along the way). Tenlow, the detective, finds the prospector by the railroad and rides up to the camp to arrest Overland, whom he suspects; but after some strenuous arguing, Overland tactfully leaps on Boyar and, through precautions moves, escapes the detective. Tenlow's horse slips and rolls headlong to the bottom of the cliff, leaving Tenlow lying halfway down the hillside. Having turned toward the foothills, Overland releases Boyar and disappears in the brush. At the suggestion of Louise, Collie goes for the doctor and is afterward arrested. Louise tells Walter Stone, her uncle, about the arrest, and finally coaxes him to go with her and get Collie. Walter Stone, being a very influential ranchman and having secured Collie's release, takes him back to the ranch, where he gives him work to do. After several days work with Williams, the foreman of Moonstone Ranch, Collie learns the "ins" and "outs." He finds Overland Red in the mountains near the ranch. Overland goes to Los Angeles and is grubstaked and returns to find the streak of gold. Arriving at the desert town he finds the man who grubstaked him already there, and is persuaded to let him go with him in search of the gold. They discover the lost mine and stake their claim, discover gold.

(Chapter XVI—"Blunder"—Continued)

But in the dark of that evening, when a chill dew sparkled along the edges of the bog, he came, a clumsy shadow and grazed among the hummocks. Slowly he worked toward the treacher of ooze that shone in the starlight. He sank to his fetlocks. He drew his feet up one after another, still progressing toward the center of the bog, and sinking deeper at each step. He became stricken with fear as he sank to his hocks. He plunged and snorted. The bog held him with a soft, detaining grip—drew him slowly down. He nickered, and finally screamed in absolute terror. Up to his heavy belly the black mud crept. He flung himself sideways. Exhausted, he lay with neck and head outstretched. Again he struggled, his eyes wild and protruding with the blood pressure of his straining. Then the chill of night crept over him. He became quiet—shivered a little, and nickered faintly.

In the willows a little owl called pensively.

The morning light, streaming across the hills, spread like raw gold over the bog. Collie whistled as he rode down the trail, and beat his gloved hands to keep warm. He heard a plaintive whinny and a bubbling gasp. He leaped from his pony, the coiled riata in his hand as he touched the ground.

The blunder colt, neck outstretched, was still above the ooze. His eyes were blood-shot, as their white rims showed. His nose quivered and twisted with his quick, irregular breathing.

It was a "two-man job," but Collie knew that the colt would probably be gone before he could ride back and return with help. He swung the riata, then hesitated. To noose the colt's neck would only result in strangling it when he pulled. He found a branch large enough to stiffen the brush near the break. Swiftly he built a shaky footing and crept out toward the colt. By shoving the riata under the colt's belly with a forked stick, and fishing the loose end up on the other side, he managed to get a loop round the animal's hind quarters. He mounted his own horse and took a turn of the riata round the saddle-horn.

His pony set its feet and leaned to the work. Slowly the colt was drawn to solid ground.

He was a pitiful object as he lay panting and shivering, plastered with mud and black slime, and almost dead from shock and chill. Collie spread his slicker over him and rode up the hill at a trot. The blunder colt raised its head a little, then dropped it and lay motionless.

When Collie and Billy Dime returned with gunnysacks and an old blanket, the sun had warmed the air. The mud on the colt's side and neck had begun to dry.

Billy Dime commented briefly. "He's a foner. He's froze clean to his heart. Why didn't you leave him where he was?"

Collie spread the gunnysacks on a level beneath a live oak, beneath which they dragged the colt and covered him with the blanket. They gave him whisky with water that they heated at a little fire of brush. The colt lifted its head, endeavoring spasmodically to get to its feet.

"He's wearin' hisself out. He ain't got much farther to go," said Billy Dime, mounting and turning his pony. "Come on, kid. If he's alive tomorrow mornin'—good enough."

"I think I'll stay awhile," said Collie. "Brand says he isn't worth saving, but—I kind of like the cuss. He's different." "Correct, nurse, he is. You can telephone me if the patient shows signs of blin' you. Keep tabs on his pulse—give him his whisky regular, but don't by no means allow him to set up in bed and swoon. I'll call again next year. So long, sweetness."

"You go plump!" laughed Collie. And Billy Dime rode over the hill singing a dolefully cheerful ditty about burying some one on the "lo-o-ne prairie." To him a horse was merely something useful, so long as it could go. When it couldn't go, he got another that could.

Collie replenished the smoking fire, scraped some of the mud from the colt's thick winter coat, and heated a half-dozen large stones.

His brother cowmen would have laughed at these "tender ministrations," and Collie himself smiled as he recalled Billy Dime's parting directions.

Collie placed the heated stones round the shivering animal, re-dried the blanket at the fire, and covered the pitifully weak and panting creature. The colt's restless lifting of its head he overcame by sitting near it and stroking its muzzle with a soothing hand.

Time and again he rose to re-heat the stones and replenish the fire. The colt's

breathing became less irregular. He gave it more of the hot whisky and water.

Then he mended the fence. He had brought an axe with him and a supply of staples.

Toward mid-afternoon he became hungry and soled himself with a cigarette.

Again the blunder colt became restless, showing a desire to rise, but for lack of strength the desire ended with a swaying and tossing of its head.

Evening came quickly. The air grew bitingly chill. Collie wished that one of the boys would bring him something to eat. The foreman surely knew where he was. Collie could imagine the boys joking about him over their evening "chuck."

With the darkness he drew on his slicker and squatted by the fire. He fell asleep. He awoke shivering, to find the embers dull. The stars were intensely brilliant and large.

Once during the evening he made up his mind to return to the ranch-house, but a stubborn determination to save the colt, despite the ridicule he knew he would elicit, held him to his task. Should he leave, the colt might become chilled again and die. Then he would be open to ridicule. Collie reasoned that he must finish the task as he had begun it—thoroughly.

Again he heated the stones, warmed the blanket, and gave "Blunder," as he now called him affectionately, some hot whisky. Then he built a larger fire, wrapped himself in his saddle-blankets, and, with feet to the blaze, slept. His own pony grazed at large, dragging a rope.

Habit brought Collie awake early. The fire had gone out. He was stiff with cold. Arising, he glanced at the heap beneath the blanket ringed with stones. "Time to eat!" he cried lustily, and whipped the blanket from the mud-encrusted Blunder. The colt raised its head, struggled, put out one stiff fore leg, and then the other. Collie grabbed the animal's tail and heaved. Blunder humped himself—and was on his feet, wobbling, dizzy-eyed, scandalously "mussed up"—but alive!

"Whoop-ee!" shouted Collie as the colt staggered a pace or two trying his questionable strength. "Gee! but I'm hungry!"

The Blunder, a mere caricature of a horse in pose and outward seeming, gazed at his rescuer with stupid eyes. He had not the faintest idea what all the joy was about, but something deep in his horse nature told him that the boisterous youth was his friend. Timidly, he approached Collie, wagged his head up and down experimentally, as if trying his neck hinges, and reached out and nuzzled the young man's hand, nipping playfully at his fingers.

Collie was dumbfounded. "He's thankin' me—the little cuss! Why, you rubber-kneed, water-eyed mud turtle you! I didn't know you had that much sense!"

The youth did not hear the regular beat of hoofs as Williams loomed up, until the colt, still-legged, emitted a weak nicker. Collie turned.

Williams smiled grimly. "Knew you'd stick," he said.

He gazed at the revived colt, the circle of stones, and the blanket. He made no comment.

Collie caught up his pony and mounted. As they rode over the hill together, Williams, turning in the saddle, laughed and pointed down toward the arroyo.

The blunder colt, apparently overjoyed to be alive, had ambled awkwardly up to one of his mates who stood stolidly waiting for the sun to warm him. The other colt, unused to the Blunder's society and perhaps unfavorably impressed by his dissipated appearance, received this friendly overture with a pair of punishing hoofs. Blunder staggered and fell, but scrambled to his feet again, astonished, indignant, highly offended.

"If you was to drive that blunder colt up to horse-heaven and he knew it was horse-heaven, you'd have to turn him around and back him in. Then I reckon he'd bust the corral tryin' to get out again."

Collie grinned. "Well, I wouldn't this morning—if there was anything to eat there, even hay."

"Well, you don't get your breakfast at the chuck-house this morning," said Williams gruffly.

"I don't, eh? Since when?"

Williams again turned in his saddle, observing Collie for a minute before he spoke. "I see you're smilin', so I'll tell you. Since when? Well, since about two hours ago, when Miss Louise come steppin' over to the bunk-house and asks where you are. Billy Dime ups and tells her you was sick-nursin' the blunder colt. She didn't smile, but turned to me and asked me. I told her about what was doin'."

I seen she had it in for somebody. It was me. 'Brand,' she says, quiet-like, 'is it customary on the Moonstone for lunch or dinner to be taken to the men that are staying out from camp?'

"Yes, ma'am," says I.

"And the plumb hell of it was," continued

ROBERT H. HAZLETT
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Williams, "she didn't say another word. I wisht she had. I feel like a little less than nothin' shot full of holes this lovely mornin'."

Collie rode on silently. "Why don't you say somethin'?" queried Williams.

"I was waitin' for the rest of it," said Collie.

Williams laughed. "I guess you ain't such a fool, at that, with your nussin' stock and settin' up nights with 'em. Miss Louise says to tell you to come right up to the house—the house, you understand—and get your breakfast with them. They said they was goin' to wait for you. I guess that ain't throwin' it into the rest of us some. Keep it up, Collie kid, keep it up, and you'll be payin' us all wages some day."

[To be Continued.]

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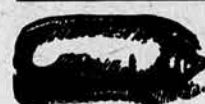
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Big bone, big spots, skin white, big hams, big hogs, wide backs.

Annual Sale October 12, 1916

Forty head, about equally divided as to sex. The grandest lot of Spotted Poland that will be sold this year. Write at once for catalog.

Andrews Stock Farm - Lawson, Mo.



FARM AND HERD NEWS NOTES

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

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CLAIM SALE DATES.

Percheron Horses.
Feb. 9, 1917—Breeders' Combination Sale, Manhattan, Kan.

Holstein Cattle.
Oct. 24—John J. Leidy, Robinson, Kan.

Shorthorn Cattle.
Oct. 10—E. E. Carver & Son, Guilford, Mo.
Oct. 26—W. A. Forsythe & Son, Greenwood, Mo.
Nov. 22—Tomson Bros., Carbondale and Dover, Kan.

Herefords.
Oct. 7—J. O. Southard, Comiskey, Kan.
Oct. 24-25—W. I. Bowman & Co., Ness City, Kan.

Jerseys.
Oct. 28—J. E. Jones, Liberty, Mo. Sale at farm.

Poland Chinas.
Oct. 10—Sigel Brown, Reeds, Mo.
Oct. 10—E. E. Carver & Son, Guilford, Mo.
Oct. 13—Dr. J. H. Lomax, St. Joseph, Mo.; sale at farm near Leona, Kan.
Oct. 14—T. J. Dawe, Troy, Kan.
Oct. 16—Walter B. Brown, Perry, Kan.
Oct. 18—Fred G. Laptad, Lawrence, Kansas.
Oct. 19—P. M. Anderson, Lathrop, Mo.
Oct. 19—W. W. Oliver, Guilford, Mo.
Oct. 19—H. B. Walter, Effingham, Kan.
Oct. 20—James Arkell, Junction City, Kan.
Oct. 21—O. W. Long, Craig, Mo.
Oct. 24—Leonard & Russell, St. Joseph, Mo.
Oct. 23—Forest Rose, Hemple, Mo.
Oct. 25—U. S. Byrne, Saxton, Mo.
Oct. 27—T. E. Durbin, King City, Mo.
Oct. 28—H. H. Foster, King City, Mo.
Oct. 31—Harry Wales, Peculiar, Mo.
Oct. 31—W. R. Webb, Hawataha, Kan.
Nov. 1—Fred B. Caldwell, Howard, Kan.
Nov. 6—A. R. Enos, Ramona, Kan.
Nov. 9—Herman Groniger & Sons, Bendena, Kan.
Feb. 22—A. J. Erhart & Son, Ness City, Kan. Sale at Hutchinson, Kan.
Feb. 23—F. Olivier & Sons, Danville, Kan.
Feb. 28—Clarence Dean, Weston, Mo.

Spotted Poland.
Oct. 12—Andrews Stock Farm, Lawson, Mo.
Oct. 24—Everman Poultry Farm, Gallatin, Mo.

Durocs.
Oct. 18—Fred G. Laptad, Lawrence, Kansas.
Nov. 3—W. W. Otey & Sons, Winfield, Kan.
Feb. 10—W. W. Jones, Clay Center, Kan.

O. I. C. Hogs.
Oct. 31—Allen Bros., Russell, Iowa.

Catalogs are out for the big Hereford cattle sale to be held by J. O. Southard of Comiskey, Kansas, October 7, 1916. One hundred and five richly bred cows and heifers and twenty choice bulls have been cataloged for this sale. Inquiries for catalogs indicate a widespread interest in the sale among farmers and breeders.

Rolla Oliver of St. Joseph, Mo., owner of one of Missouri's noted herds of Jersey cattle, reports a good demand for Jersey breeding stock. Mr. Oliver has a richly-bred lot of heavy producing Jerseys and there is always a demand for breeding stock from his herd.

Homan & Sons of Doyle Park Stock Farm, Peabody, Kan., are among the live boosters for improved live stock on Kansas farms. Doyle Park Farm is the home of excellent herds of registered Percheron horses, Shorthorn cattle, Duroc hogs and one of the good flocks of Shropshire sheep in this state. They have found all pure-bred stock profitable and sheep the most profitable of all. They have a choice flock of Shropshires and a feature at this time is the excellent lot of young stock in the flock.

Catalogs are out for T. J. Dawe's Poland China sale to be held at South St. Joseph, Mo., October 14. Mr. Dawe has cataloged sixty head of March and April boars and gilts for this sale. They were by such boars as Giant Lawson by Long King's Equal and Big Buck by Buccaneer and out of dams by the best boars of the breed.

Catalogs are out for the Poland China sale to be held by Sigel Brown of Reeds, Mo., October 10. Mr. Brown has cataloged a choice offering of big-type Poland for this sale. The blood lines of his herd are the best of the breed and he has developed

a herd of the easy-feeding type that mature early and are profitable feeders.

Catalogs are out for the Poland China sale to be held by O. W. Long of Craig, Mo., October 21. Mr. Long is one of Missouri's successful Poland China breeders and has cataloged forty head, the tops of over one hundred head of early spring pigs, for this sale. They are out of extra good big-type dams and were sired by such boars as A Wonder Special and Rood's Big Joe 2d. A Wonder Special is by Pesenmeyer's Wonder and Rood's Big Joe 2d is by Rood's Big Joe, and both are extra good breeders.

F. C. Crocker of Filley, Neb., one of the leading Duroc breeders in the corn belt, writes that his herd is doing well and that his young stock is growing out fine. Mr. Crocker owns one of the largest herds of pure-bred Durocs now assembled and has succeeded in developing a type that is proving very popular with the farmers and feeders. He makes a specialty of developing hogs for breeding stock and his herd is drawn upon heavily for herd material.

Catalogs are out for the Poland China sale to be held by Dr. J. H. Lomax of Station D, St. Joseph, Mo., at his farm near Leona, Kansas, October 17. This year Doctor Lomax has cataloged fifty head of choice big-type Poland for this sale. The offering consists of nine fall boars and nine fall gilts by the great boar, Corwin's Expander, and a choice lot of spring boars and gilts by Big Bob King and out of daughters of Corwin's Expander, Goliath, Chief Jumbo, Big Hadley's Likeness and Big Ben.

H. B. Cowles of Topeka, owner of Braeburn herd of Holsteins, reports his herd doing well this year. Braeburn Holstein herd is noted for its heavy producers and there is always a demand for breeding stock from this herd for foundation stock and herd headers.

Ira Romig of Topeka, owner of the famous Bonnie Brae Holstein herd, reports his herd making a good record this year. This is one of the heavy producing herds in this state and the outstanding feature at this time is the choice lot of high grade two-year-old heifers that will soon be coming fresh.

Girod & Robison of Towanda, Kan., report that the demand for pure-bred and high grade Holsteins is very heavy. This firm owns one of the big herds of registered and high grade Holsteins in Kansas and their sales during the summer have been very heavy. They have shipped Holsteins to a number of states.

G. M. Shepherd of Lyons, Kansas, has one of the leading herds of Duroc Jerseys this year. His great herd boar, Crimson Wonder Again, was a first prize boar at the Topeka Fair this year and was made second at the Kansas State Fair at Hutchinson with very strong competition. Mr. Shepherd has one of the good herds of Kansas and a feature of the herd at this time is the fine lot of spring boars that are very promising for herd header prospects.

H. C. Glissman, the well known Holstein breeder of Omaha, Neb., has claimed October 11 as the date of his big annual sale of Holsteins. On that date he will sell at South Omaha, 115 head of registered and high grade Holsteins. Mr. Glissman's annual sale is always an event in Holstein circles.

K. Hague of Newton, Kan., is among the old time breeders of Harvey County, Kansas. This firm has supplied foundation stock for a number of herds in Kansas and adjoining states. They breed the large smooth kind of Duroc hogs, the kind that always makes good with the farmer. Mr. Hague also breeds Shropshire sheep and has found them very profitable on his farm.

H. W. Estes of Sitka, Kansas, is one farmer in Clark County who is making a great success with his milking strain of Shorthorns. Mr. Estes has made a specialty of developing milking Shorthorns that will make good. The herd bull used in this herd for several years is Baron Pride by Baron Royal out of Pansy Blossom. This bull now weighs more than a ton and has proven a great sire of milk producers.

Charles Holston & Son have recently added a number of choice young heifers to their Holstein herd. Two of them are daughters of Wonder Fobes Homestead 70807. One is bred to Champion Johanna 119408 and the other to King Korndyke Colantha Ormsby 96546. The shipment also included Chloe Johanna Ruth 271801, a beautiful two-year-old daughter of Johanna Bonheur Champion bred to Sir Ormsby Banostine Champion 166276. Another purchase is a heifer sired by a son of Colantha Johanna Lad, and her dam is a daughter of Dutchland Sir Pieterle Hengerveld. This heifer is bred to Dutchland Creamelle Korndyke Lad. Practically all of them are of Colantha Johanna breeding and as their herd is headed by a son of Colantha Johanna Lad, they feel that they are getting together as strong producing and transmitting blood lines as is possible to obtain. Their great foundation cow, Madison Diamond De Kol 94775, the foundation cow of the Madison Diamond family, has just dropped a beautiful son sired by a son of Colantha Johanna Lad and will be retained for future service in their herd.

PLEASE MENTION KANSAS FARMER WHEN WRITING TO ADVERTISERS

HOLSTEIN CATTLE.

Clyde Girod, At the Farm.

F. W. Robison, Cashier Towanda State Bank

HOLSTEIN FRIESIAN FARM, Towanda, Kansas

Pure-Bred Holsteins, all ages, strong in the blood of the leading sires of today, headed by Oak De Kol Bessie Ormsby 156789. Special offering of choice young pure-bred bulls, ready for service, from tested dams. Let us furnish you a bull and improve your herd. TWENTY-FIVE pure-bred females, young useful Holsteins with A. R. O. records from 12 to 26 pounds butter in seven days.

BEFORE YOU BUY, TALK WITH US

We have an especially large, choice selection of extra high grade young cows and heifers due to freshen this fall and early winter, all in calf to pure-bred bulls. These females are large, deep bodied, heavy producers, with large udders, all well marked individuals and the right dairy type. Our offerings are at prices that challenge comparison for Holsteins of their breeding and quality. High grade heifer calves, \$25. Send draft for number wanted. Let us know what you want in Holsteins, and we will be pleased to send you descriptions and prices. Keep us in mind before purchasing. Wire, write or phone us.

GIROD & ROBISON --:--:-- TOWANDA, KANSAS

TORREY'S HOLSTEINS

High grade cows and heifers and registered bulls. The best breeding. Call and see them.

O. E. Torrey - - - - Towanda, Kansas

IN MISSOURI

Price Segis Walker Pletertje 123955 heads herd. Dam 30.13 lbs. butter in 7 days, milk testing 5.07 per cent. A. R. O. of dam, granddam and ten nearest dams of sire, 29.75 lbs. Six of these are 30-lb. cows. His five nearest dams all test over 4 per cent. Bulls 2 to 8 months old, \$150 to \$350. Always have cows and bred heifers for sale. Everything registered Holsteins. Tuberculin tested.
S. W. COOKE & SON, MAYSVILLE, MO.

BRAEBURN HOLSTEINS.—I don't advertise much, because I don't need to. For some twenty years I have been sending out cattle that suit, and old customers and their neighbors keep me sold out. I merely keep my name in the list lest they think I have quit.
H. B. Cowles, 608 Kansas Ave., Topeka, Kan.

BONNIE BRAE HOTSTEINS

A fine bunch of high grade two-year-old heifers coming fresh. Also a few young cows and one well-bred registered bull old enough for light service.
IRA ROMIG, Station B, TOPEKA, KANSAS

HOLSTEIN CALVES.—Ten heifers and two bulls, 15-16ths pure, beautifully marked, 5 weeks old, from heavy milkers. \$20 each, crated for shipment anywhere. Write EDGEWOOD FARM, Whitewater, Wis.

FOR SALE—PURE-BRED HOLSTEIN HEIFERS

From extra good dams and sires. Pedigree of dams lost. Prices, \$40 to \$80. One heifer bred to fine Holstein bull.
E. J. CASTILLO, INDEPENDENCE, KAN.

For Sale—35 head high grade and registered Holstein cows and four reg. Holstein bulls.
COE'S DAIRY, Cottonwood Falls, Kansas.

HOLSTEIN BULLS, "REGISTERED"
Two ready for service. Smith & Hughes, Breeders, Route 2, Topeka, Kansas.

JERSEY CATTLE.

JERSEY BULLS

For Sale—A few exceptionally good calves from very fine Register of Merit dams; also two very fine yearlings. Satisfaction guaranteed. Let us sell you your next bull. Address
ROLLA OLIVER, Box 701, St. Joseph, Mo.

Must Reduce Herd

Forty head of registered cows, heifer and bull calves for sale. Of the best blood lines among the breed.

I am a member of the Southwest Jersey Cattle Breeders' Association.
SWEET SPRING STOCK RANCH
Box 241 Monett, Missouri

Brookside Farm Jerseys

Registered Jersey bulls for sale. Flying Fox and Eminent breeding, good enough to head any herd. Also a few females.
THOS. D. MARSHALL, SYLVIA, KANSAS

LINSCOTT JERSEYS

Kansas First Register of Merit, Estab. 1878. If interested in getting the best blood of the Jersey breed, write me for descriptive list. Most attractive pedigree.
R. J. LINSCOTT - HOLTON, KANSAS

JERSEY BULLS

For Sale—From six weeks to six months old, sired by Imported Sultan's Trinity King, son of Western King. Dams, Financial King, Loretta D. Eminent and Sparta Herotas breeding.
Dr. J. H. Lomax, Station D, St. Joseph, Mo.

Jersey Cows and Heifers

140 head to select from, pure-bred and grade. 20 heavy springers, bred on farm.
J. W. BERRY & SON, Jewell City, Kansas

SMITH'S JERSEYS

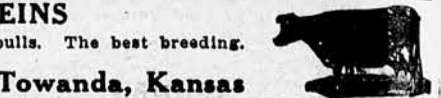
For Sale—Two extra good registered Jersey cows, due to freshen about August 25, fit to enter Kansas Farmer contest. One 2-year and three coming yearling bulls, good individuals. S. S. SMITH, Clay Center, Kan.

REDHURST JERSEYS

Grandsons of Golden Jolly and Noble of Oaklands for sale. Also a few fancy cows and heifers of same breeding. Write.
REDMAN & SON - TIPTON, MISSOURI

WHEN WRITING TO ADVERTISERS PLEASE MENTION KANSAS FARMER

HOLSTEIN CATTLE.



Purebred Registered HOLSTEIN CATTLE

Holsteins in Canada have far surpassed all other dairy breeds in numbers, milk and butter records, and in popular esteem. The membership of the Canadian Holstein Association has more than doubled in the past four years, and Holstein cows have led all breeds in the total amount of milk and butter produced in a year and also in net profit. Wherever you find them, Holsteins are proving the greatest profit makers for the farmer or dairyman. There's big money in the big "Black and White" Holsteins.

Send for FREE Illustrated Descriptive Booklets. The Holstein-Friesian Association of America
F. L. Houghton, Sec'y. Box 114, Brattleboro, Vt.

Golden Belt Holstein Herd

Canary Butter Boy King No. 70508 In Service.

Herd has won more prizes from Holstein-Friesian Association for yearly production than any herd in Kansas. Young bulls for sale from heavy producing cows.
W. E. BENTLEY, MANHATTAN, KANSAS

FOR SALE

Very High-Grade Holstein Calves, either sex, three to six weeks old, \$20. Express prepaid. If you are in the market for any of these choice calves, send order to Whitewater Stock Farm, Whitewater, Wis.

SUNFLOWER HERD

REGISTERED HOLSTEINS
Offers young cows due this summer and fall by 29 and 33-pound sires. Several EXTRA young bulls both in breeding and individual quality. They are bound to please.

F. J. SEARLE, Oskaloosa, Kan.

23—HOLSTEIN-FRIESIAN BULLS—23

Best of sires. A. R. C. dams, fourteen over 20 pounds. Seven of the others from heifers with records of 14.89 to 19.2 pounds. The kind you want. We have only two cows in the herd with mature records less than 20 pounds.

Breeders for Thirty Years.
MOKAY BROS., Waterloo, Iowa

REGISTERED HOLSTEINS

We want to cut down our herd. Will sell ten or twelve choice cows, most of them young, also a few heifers.

M. E. MOORE & CO. - CAMERON, MO.

CHOICE HOLSTEIN BULLS

Registered bull calves out of A. R. O. cows. Also a few heifers. Best breeding. Choice individuals. Price reasonable.

BEN SCHNEIDER, NORTONVILLE, KAN.

HOLSTEIN COWS

Holstein cows, springers or bred heifers. Very large, good markings, out of best milking strains, bred to pure-bred bulls of the very best blood. Special prices on carload lots. J. C. ROBISON, TOWANDA, KANSAS

THE CEDAR LANE HOLSTEIN HERD

Headed by a 29.4-pound grandson of Pontiac Korndyke. Bull calves, nearly ready for service, sired by above bull, for sale at reasonable prices. Also a limited number of bred cows.

T. M. EWING, INDEPENDENCE, KANSAS

CORYDALE FARM HERD

Herd sire, Jewel Paul Butter Boy No. 94245, who's eight nearest dams average A. R. O. 25.95. Eight bull calves for sale from 2 to 9 months old.

L. F. CORY & SON - Belleville, Kansas

HOLSTEINS BACKED BY RECORDS

Registered bull calves, also a few choice heifers. All modern bred with good butter fat inheritance.

Route 2 GEORGE C. PRITCHARD Topeka, Kansas

IOWANA DE COLA WALKER heads herd, has nine half-sisters with yearly tests ranging from 407.53 pounds to 626.21 pounds of 80% butter, the latter a senior two-year record; in fact seven were senior two-year and two were senior three-year-olds.

TREDICO FARM, Route 2, Kingman, Kan.

Poland China Sale

AT FARM NEAR

Leona, Kansas, October 13

Fifty head of large spring boars and gilts out of such sows as Lady Ben by Big Ben, Big Osborn 5th by Chief Jumbo, Queen's Wonder by King of Wonders, Bessie Ex by Expansion's Son, Likeness Coin by Big Hadley's Likeness, Lady Price by Goliath. They are sired by such boars as Big Bob, King Corwin, Expansion, King of Wonders, Giant Ben, and other noted sires.

I am selling the best lot of early spring boars and gilts I ever sold. There will be no apology to make sale day. Come and be your own judge. All are immune. Good colors, heavy bone. I guarantee satisfaction. Send for catalog today and come to my sale at farm near Leona, Kansas. For catalog, write

Dr. J. H. Lomax, Station D, St. Joseph, Mo.

Long's Sale of Immuned Poland Chinas

A beautiful bunch of spring pigs sired by A Wonder Special and Rood's Big Joe 2d, selected from the top individuals of 100 head of the best I ever produced, all from big stretchy prolific mothers.

50 Head -- of the Leading Strains of Big Type Polands -- 50 Head

Included in this sale will be forty spring pigs, and the balance of the sale will be made up of fall gilts by Long Wonder and Long Sampson. These gilts will have litters at foot, by A Wonder Special and Rood's Big Joe. Also a few choice herd sows. Boars and gilts in this sale not akin.

Don't Forget the Date of This Great Opportunity, October 21

Litters in this sale by Colossus Wonder and out of Nellie Price by Giant Nelson. Litter by Royal Hercules out of Grace Price, by Giant Nelson and many other noted sires and dams not mentioned here.

This offering represents the most prolific and best blood lines of the big-type Polands. Remember these go at your own price.

O. W. LONG, - - - - - CRAIG, MISSOURI

Write for catalog and mention Kansas Farmer.

Cies Brothers, Auctioneers, Chillicothe, Mo.

POLAND CHINAS

POLAND CHINAS.

ELKMORE FARM POLANDS

Home of Caldwell's Big Bob 76436 by Big Bob Wonder, and Orphan Boy 76818 by The Big Orphan. Grand champion boar at the Kansas State Fair at Topeka, Kansas, 1916, and will be shown at the National Swine Show at Omaha October 2 to 7, 1916. My annual fall sale November 1. Send for catalog.

FRED B. CALDWELL - - - - - HOWARD, KANSAS

OLIVER'S POLAND CHINA SALE

GUILFORD, MISSOURI, OCTOBER 19

Forty head choice big-type Polands, consisting of five big high-quality fall boars, seventeen choice spring boars, two yearling sows with litters by Big John B, also sixteen choice spring gilts. The offering is sired by such boars as Big John B, Big Halfton 2d and A Wonder Price and out of A Wonder Equal, Big Halfton 2d, Capital and Iowa King dam. Send for catalog at once.

W. W. OLIVER - - - - - GUILFORD, MISSOURI

J. O. RILEY & SON'S SPOTTED POLANDS

Sale October 17, 1916. Will sell the tops of 100 head of choice spring boars and gilts. A few extra good fall gilts, also a few choice fall boars. The offering is one of the best we have ever had. Send for catalog now.

J. O. RILEY & SON - - - - - CAINSVILLE, MISSOURI



Faulkner's Famous Spotted Polands

We are not the originator, but the preserver of the old original big-boned Spotted Polands. The oldest and largest herd on earth. Every hog recorded in the recognized records.

Box K - Jamesport, Missouri

OLD ORIGINAL SPOTTED POLANDS

150 choice spring pigs left, sired by seven of the very best boars of the East and West. Priced right. Write your wants to the CEDAR ROW STOCK FARM

A. S. Alexander, Prop. Burlington, Kansas

At Reduced Prices

On account of severe drought and having to buy high priced feed, I have reduced prices on my Perfection Spotted Polands. Boars ready for fall service; bred fall spring pigs and some brood sows at sacrifice prices for quick sale. Free circular.

THE ENNIS STOCK AND DAIRY FARM, Horine, Mo. (Just South of St. Louis)

DEMING RANCH POLANDS

Will be at Topeka, Hutchinson, Oklahoma City and Muskogee fairs. Over two hundred April and May pigs that will suit breeders wanting big high quality Polands.

THE DEMING RANCH, OSWEGO, KANSAS

H. O. Shelden, Herdsman

LANGFORD'S SPOTTED POLANDS. Last call for early spring pigs. Extra good young boars. T. T. Langford & Sons, Jamesport, Mo.

Poland China Boars and Gilts

Twenty-five early spring boars and twenty-five gilts. Sired by I Am King of Wonder and Watt's King.

WM. WATT & SON - GREEN CITY, MO.

BIG TYPE POLANDS

Spring boars and gilts with size and quality. Priced to sell.

F. W. Schowalter, Route 2, Halstead, Kan.

I AM CLOSING OUT

My Big-Type Poland Chinas. Prices right.

LOU LEFEVRE, COLLINS, MO.

POLLED DURHAM CATTLE.

Polled Durham Cattle

HOME OF THE CHAMPION TRUE SULTAN. SEE MY SHOW HERD AT THE LEADING STATE FAIRS

Ed. Stegell

STRAIGHT CREEK - KANSAS

HEREFORD CATTLE.

Herefords and Percherons

Two choice Hereford bulls, 2 and 3 years old, well marked, both will make ton bulls. The 3-year-old weighs 1,950. Also some choice yearling Percheron stud colts.

M. E. GIDEON - EMMETT, KANSAS

SIGEL BROWN'S FALL SALE ATTRACTIONS

FIFTY HEAD of the most popular bred boars and gilts that will be sold in the state this fall. Sale will be held on the farm near Carthage and

Reeds, Missouri, Tuesday, October 10, 1916

**10 Fall Boars :: 10 Spring Boars :: 10 Fall Gilts
15 Spring Gilts**

Sired by A. WONDER JOE, SMOOTH COLUMBUS, MASTER ORPHAN, SURPRISE WONDER.

Boars that have been in the limelight for several seasons and whose get are in demand from all sections. These pigs are out of sows by BIG TIMM, LONG WONDER, A WONDER, BIG JOE, SMOOTH COLUMBUS, LONG JUMBO JR., BIG BONE JUMBO, BIG WONDER, M'S PIONEER CHIEF PRICE, and other noted sires.

THE ENTIRE OFFERING IS IMMUNE

and in this sale will be presented the best lot of values to be sold this fall. Be sure and get my catalogue and be sure and mention Kansas Farmer.

SIGEL BROWN, Reeds, Mo.

Jas. E. Duncan, Auctioneer

Come to Carthage, where automobile transportation will be furnished to and from sale.

HOLSTEIN FRIESIANS AT AUCTION

145 - Head Registered and High Grade Holstein Friesians - 145

South Omaha, Neb., Wed., Oct. 11, 1916

The offering will consist of thirty-five registered females from calves to mature cows, and ten good bulls of all ages. Nearly all out of A. R. O. dams. These are a fine lot.

The High Grades Consist of the Following:

Thirty heavy milking cows, either fresh or soon due. A fine bunch of winter milkers.

Forty-five heifers two and three years old, all springing to calve this fall and winter.

Twenty-five heifers from calves to two-year-olds, as fine as grow.

All animals over six months old are tuberculin tested.

Send for catalog and arrange to be there.

HENRY C. GLISSMANN, Sta. B., Omaha, Neb.

POLAND CHINA HOG SALE

At the Fine Stock Pavilion at South St. Joseph, Missouri

SATURDAY, OCTOBER 14

Sixty head of Poland China spring pigs. March and early April farrow. These pigs are the big type—not big hungry ones, but easy feeding and early maturing. They were sired by two of the good boars of the breed and out of sows by all of the best boars in the corn belt. Pedigrees will be furnished for each lot sold. Catalogs will be ready by October 1. Send for one today. Address

T. J. DAWE, - - - - - TROY, KANSAS

Auctioneers—Jas. W. Sparks, Troy, Kansas; L. R. Hamilton, Clarksdale, Mo.

HORSES AND MULES.

HORSES AND MULES.



DEIERLING STOCK FARMS

Have fifteen large, heavy boned, black, registered jacks, 15 to 16 hands high, good heads and ears, good style, good breeders. I have a number of jacks sired by the champion, Pride of Missouri, also several other good herd prospects. In my 1914 sale I sold the champion of Kansas State Fair, 1916, Eastern Lightning, also Demonstrator, first prize aged jack Missouri State Fair. Reference, People's Bank. Written guarantee with each animal. Have a number of Percheron stallions for sale, also saddle stallions. Barn in town. Wabash Railroad.

WM. DEIERLING, QUEEN CITY, MISSOURI.

Greater Than Any State Fair

International Wheat Show

IN CONJUNCTION WITH THE SIXTH ANNUAL

WICHITA EXPOSITION

OCTOBER 2-14
TWO WHOLE WEEKS

SIX COLOSSAL BUILDINGS FILLED WITH A CHAMPION COLLECTION of the PRIZE PRODUCTS of the FARMS, ORCHARDS, DAIRIES and FACTORIES of the GREAT SOUTHWEST

Entertainments Galore

The Greatest Collection of Amusement Features Ever Assembled Since the Days of
BARNUM

Including the Famous
1916 HIPPODROME
10 GREAT ACTS 125 PEOPLE
Entire Change of Program 2nd Week

AUTO RACES
OCTOBER 10-12
No dust--Calcium Chloride Process Used
7--Famous Speed Kings--7

And that Daring Girl Aviator
RUTH LAW
Racing the Winners and Thrilling the
Throngs with Her
LOOPS, DIPS AND DIVES

Exposition Features

Don't Fail to See the Mammoth
**AGRICULTURAL AND HORTI-
CULTURAL EXHIBIT**

The Blue Ribbon Winners In
THE MODEL DAIRY

A Complete Butter Factory,
THE
CREAMERY EXHIBIT

THE
1917 AUTOMOBILE SHOW

The States Greatest Football Game
WASHBURN vs. FRIENDS, Oct. 11

PREPAREDNESS
U. S. ARMY and NAVY EXHIBIT

See Your County's Display
12 COUNTY EXHIBITS

General Admission
to Entire Exposition
25 Cents
CHILDREN 15 CENTS

Where the Famous Agricultural and Horti-
cultural Experts of the United States and Can-
ada will talk especially to Farmers
THREE GREAT CONGRESSES **Good Roads, Oct. 5**
Farmers, Oct. 9; Dairy, Oct. 10

General Admission
To Entire Exposition
25 Cents
CHILDREN 15 CENTS